



Phase I Preliminary Risk Assessment

At

Borrowdale Road,
Middleton,
Manchester

Client: Rochdale Borough Council

Reference: 31479-SUT-ZZ-00-RP-G-701-0001

Date: December 2022

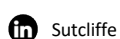
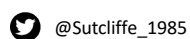
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SUTCLIFFE INVESTIGATIONS

Phase I Preliminary Risk Assessment

DOCUMENT VERIFICATION

Report Reference: 31479-SUT-ZZ-00-RP-G-701-0001

Issue: Rev. P02 Date: December 2022

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Revision History:

Rev	Date	Description	Prepared	Checked	Approved
P01	April 2021	Phase I: PRA	ED	DB	WGB
P02	December 2022	Updated with new proposed development plan	ED	DB	WGB
Signatures					

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Executive Summary

Introduction	Sutcliffe Investigations were instructed Rochdale Borough Council to undertake a Phase I Preliminary Risk Assessment (PRA) of the site known as Borrowdale Road, Middleton, Manchester, M24 5QG.
Aims & Objectives	The Phase 1 PRA is required to assess the ground based environmental and geotechnical risks, development constraints and liabilities associated with the development of the site, required in support of an application for outline planning. This report constitutes a preliminary investigation as defined in BS10175 and contains the following: - Summary of the information obtained from an Envirocheck Report (<i>Report Reference: 276916724_1_1</i>), which is presented in <i>Appendix A</i>. - A preliminary risk assessment of potential environmental risks associated with the proposed redevelopment of the site to identified receptors, following the methodology of LCRM and their recommendations on contamination reports.
Development Plans	The proposed development for the site is for 30No. residential units with associated gardens and vehicle parking facilities. The proposed development is presented as Drawing: 1917-08 Rev F (Site Plan – Option H), and produced by BYA Architects Ltd.
Site Location & Description	The site address is located at Borrowdale Road, Middleton, Manchester, M24 5QG at National Grid Reference (NGR) 386100, 406790. N.B. the proposed development area has been updated and now includes the area up to approximately 105m east of the original site area shown in the Envirocheck Report. The site is irregular in shape and can be accessed via Borrowdale Road to the north of the site. The site is noted as undulating with areas of standing water noted across the site. The site is mostly grassed with a number of footpaths running through the site along with small shrubs, bushes and trees.
Site History	Onsite – The earliest available historical map (1848-1851) indicated that the site comprised of field land with a footpath noted in the southern section of the site and a river in the eastern end of the site. The river is no longer mapped by 1893. Between 1909 and 1910 a pond encroaches onto the site at the south western boundary. Between 1922 and 1932 the pond had been removed and two clay pits are noted at the south western boundary extending to the centre of the site and the other is located in the eastern end of the site. By 1956 the clay pits had been infilled. No further changes were evident from the historical maps except for footpath noted through the site in 2006. The potential for significant contamination to have arisen at the site as a result of the current and former usage on site is considered to be low - moderate. However, the possibility of contamination albeit likely to be localised cannot be discounted. Offsite - The earliest historical map (1848-1851) indicated that the surrounding area of the site was largely field land with a river noted immediately south east of the site. Residential properties were noted 74m north east, 174m south and 279m east of the site. Several ponds were within 500m of the site, the nearest was noted 175m south west of the site. Middleton Wood, High Hurst and Coppice Wood were noted 223m east, 673m south west and 607m west of the site respectively. Asker Dam was noted 821m south of the site and a sand pit was noted 362m south of the site.

	With the exception of progressive development commercial/residential/industrial), from 1893 onwards, the only significant identifiable changes apparent in the immediate and wider surroundings were the appearances of a pond and a clay pit at the south western boundary in 1909 and 1922 respectively.
Geotechnical Uncertainty	The site has not been subject to previous development and therefore, the potential for relic foundations and obstructions can be discounted.
Geology	Artificial - There are no records of any artificial ground on site. Drift - The superficial deposits for the site are noted as Hummocky (Moundy) Glacial Deposits, Devensian. Solid - The solid geology for the site is noted as being Pennine Lower Coal Measures – Mudstone, Siltstone and Sandstone.
Hydrogeology	The Bedrock is classified as a Secondary A Aquifer with the Superficial Deposits classified as a Secondary Aquifer - Undifferentiated. No groundwater abstractions have been identified within 1000m of the site.
Faults	No faults have been identified within the development site boundary. No action is required in respect to foundation design.
Radon	According to the Envirocheck Report, the site is not within a radon affected area, as <1% of homes are above the action level. No radon protection measures are necessary in the construction of new dwellings or extensions.
Coal Mining	The site is within a coal mining area and the following is of note: • The site is not within the zone of likely physical influence from past, present or future underground coal mining. • There are no known coal mining entries on or within 20m of the site. • The site 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. • The property is not within the boundary of an opencast site from which coal has been removed by opencast methods in the past, present or future. • There is no record of mine gas emissions requiring action by the Coal Authority.
Hydrology	The nearest surface water feature is noted 545m south of the site. No surface abstractions have been identified within 1000m of the site.
Risk Assessment	The Phase I PRA has not highlighted significant areas of concern and therefore, the site is deemed to be Class 3 – Low Risk.

Conclusions & Recommendations	Based on the findings of the Phase I review, Sutcliffe Investigations do not consider there to be any identifiable significant environmental issues regarding the site. However, there is limited information of the ground for geotechnical properties and as such we would therefore recommend the following sequential works are undertaken: • Submission of this Phase I PRA Report for the benefit of validating the outline planning application. • Commission a Phase II Ground Investigation designed to discharge any contaminated land conditions that may be assigned to the site and allow the design of economic foundation solutions. • Commission a Coal Mining Risk Assessment.
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1 Introduction

1.1 Terms of Reference

Sutcliffe Investigations were instructed by Rochdale Borough Council to undertake a Phase I Preliminary Risk Assessment (PRA) of the site known as Borrowdale Road, Middleton, Manchester, M24 5QG (*Figure 1*).

1.2 Proposed Development

The proposed development for the site is for 30No. residential units with associated gardens and vehicle parking facilities. The proposed development is presented as Drawing: 1917-08 Rev F (Site Plan – Option H), and produced by BYA Architects Ltd.

1.3 Legislative Context

The presence of contaminants which may pose a risk to human health and / or the environment is a planning consideration. As part of the planning regime it needs to be considered whether the site is “*suitable for its proposed end use*”. Planning is concerned with the site’s proposed end use, not its current use, where the amount of contamination is required to be low relative to the level of risk.

Section 57 of the Environment Act 1995, adds Part 2A (ss. 78A to 18YC) to the Environmental Protection Act 1990 and contains the legislative framework for identifying and dealing with contaminated land. Where development is undertaken on land which may be affected by contamination, the National Planning Policy Framework, paragraphs 120 to 122 considers pollution and remediation. This links the contaminated land regime within the development process.

For there to be a significant risk requiring further investigation a perceived source (contaminant), a receptor (humans, living organisms or property) and a pathway between them must all be present, resulting in a complete contaminant linkage.

In order to assess whether this is the case, background research is required to obtain relevant information about the site and its surroundings and to assess the findings qualitatively. The scope of the assessment examined whether there is the potential for current and historic soil and/or groundwater contamination to be present, both at and in the vicinity of the site, and to assess significance in terms of the potential to pose a risk to human health, controlled waters, building infrastructure and the wider environment and identify any associated potential liabilities.

Part 2A of the Environmental Protection Act 1990 (“Part 2A”) provides the legislative framework for the contaminated land regime in England, Wales and Scotland. It provides for contaminated land to be identified and dealt with in a risk-based manner. The *Contaminated Land (England) Regulations 2006* (SI 2006/1380) set out provisions for procedural matters under Part 2A. The 2006 regulations have recently been modified with the introduction of *The Contaminated Land (England)*

(Amendment) Regulations 2012, which came into force on 6th April 2012. This includes an amendment to Regulation 3(c) to take account of the updated definition of “controlled waters” in Section 78A(9) of the *Environmental Protection Act 1990*. Section 78A(2) of Part 2A of the EPA 1990 defines contaminated land as “land which appears to the local authority in whose area it is situated to be in such a condition, by reason of substances in, on or under the land, that:

- significant harm is being caused or there is a significant possibility of such harm being caused; or
- pollution of controlled waters is being or is likely to be caused”.

Contaminated Land Statutory Guidance published in April 2012 provides for a new four category test which is intended to clarify when land does or does not need to be remediated, where Category 1 is deemed as being high risk and Category 4 as being low risk.

1.4 Previous Studies

Phase I and II reports were produced by Sutcliffe’s in September 2018 for this site; however, the previous studies were made as part of a wider site area. A summary of the previous investigation is presented hereunder:

Table 1.1: Summary of Previous Studies - 29691LG

Introduction	Sutcliffe Investigations was instructed by Riverside Housing Association (the “client”) to undertake a Phase II ground assessment for the site at Borrowdale Road, Middleton, Manchester M24 5QR. The site is centred on National Grid Reference (NGR) 386170, 406710 and is approximately 2.0ha in area. This report assesses the ground based geotechnical and environmental risks, constraints and liabilities associated with the proposed development of the site. This is required in support of the discharge of contaminated land planning conditions assigned to the site and to allow the design of economic foundation solutions.
Site description	The site is irregular in shape and can be accessed via Borrowdale Road to the north east and north west of the site, covering an area of approximately 2Ha. The site is noted as undulating with areas of standing water noted across the site. It is mostly grassed with a number of footpaths running through the site along with small shrubs, bushes and trees. Evidence of fly tipping is also present. The site is currently undeveloped.
Development proposal	The proposed development for the site is for 8 two-bedroom bungalows and 66 three-bedroom houses with gardens and associated car parking facilities.

Preliminary conceptual model	The earliest available historical map (1848-1851) indicated that the site was noted as agricultural land / rough pasture with a water feature running through the centre of the site along with a number of footpaths. These features are no longer noted by 1893 and by 1909 a pond is recorded on the site's western boundary until 1922. It is unlikely that the water feature was culverted, however the possibility cannot be ruled out. By 1922 a number of depressions are noted on site, running through the centre of the site from the southern boundary to the north eastern corner. Smaller depressions are also noted in the north west corner of the site; however these are only present until 1955. At this time an additional pond is noted on the site's southern boundary however by 1955 this has also disappeared. The historical map for 1965 shows an embankment as part of the adjacent school playing field. No significant changes are noted on the site until 2006 when no embankments or depressions are noted. The latest map dated 2018 and a site walkover has confirmed that the site is unchanged. With the exception of made ground potentially being present on site as a result of the identified water features, infilled depressions and embankments, no significant identifiable sources of environmental concern were identified. The potential for significant contamination to have arisen at the site as a result of the current and former usage on site is considered to be low. However, the possibility of contamination albeit likely to be localised cannot be discounted.
Previous works	Sutcliffe's have completed a Phase I Desk Study, a synopsis of which is provided in Section 2 of this report. No other previous studies are known to have been undertaken to Sutcliffe's knowledge.
Site investigation	Site work was undertaken on 25th April 2018 and consisted of: 8No. Window Sample Holes. - Contamination samples from various depth in the made ground. - Leachate samples. - Gas monitoring wells. - Monitoring of ground gas / ground water with installed locations (Sutcliffe's 2018).
Ground conditions	Made Ground: The made ground, comprises dark brown fine to medium grained SAND, occasionally slightly gravelly or clayey, with fine to medium subangular limestone gravel, some ash and fine to medium cinder fragments and occasional brick fragments. Natural Ground: Natural ground comprised stiff to very stiff brown / orange / grey sandy gravelly CLAY with occasional silt pockets and fine coal fragments. Also noted in 4 sampling locations was light brown / grey fine to medium grained SAND, occasionally gravelly, silty or clayey.
Groundwater	Groundwater was recorded in WS101 (3.0m), WS104 (1.0m) and WS105 (3.40m) – no rise after 20 minutes and WS102 (2.0m) - rising to 1.77m in 20 minutes during site investigation works, identified in association with the Secondary (undifferentiated) or Secondary A Aquifer.

	Consequent water monitoring also revealed high water levels in WS104
Environmental risk assessment	Long Term Human Health No elevated levels of contamination were recorded in all samples taken from site when assessed against the 2.5% SOM Residential with Plant Uptake End Use values. Currently the site does not pose a risk to human health, and formal remediation works will not be required as part of the development to ensure that the site is suitable for occupation and no longer poses a risk to human health. However, imported topsoil may be required to act as a growth medium in gardens and soft landscaped areas following the development process on site. This would be to a recommended minimum depth of 150mm, with final details provided by a landscape architect and/or the Warranty Company. Controlled Waters Risk Assessment For controlled waters there are two assessment criteria, the Environmental Quality Standard (EQS) and the UK Drinking Water Standard (UKDWS). Exceedances of DWS and EQS screening criteria are not considered significant given the likely depth to groundwater, effects of natural attenuation, lack of nearby groundwater abstractions and the absence of any surface water courses that could be in continuity with ground water beneath the site.
Asbestos	No Asbestos was detected in any of the 8 samples taken on site.
Ground gas risk assessment	Using CIRIA C665 – the NHBC Traffic Light classification for the site is Amber 1, indicating that gas protection measures are required as part of the ground floor design.
Radon	The site is not in a Radon Affected Area, as less than 1% of properties are above the Action Level. No radon protective measures are necessary
Geotechnical assessment	General - Due to the varying depths to a suitable bearing stratum and the potential for the ground levels to be changed on site to facilitate development, Sutcliffe propose that a minimum of mass fill concrete foundations and piling will be required. A full review will be needed once final development layouts and levels are completed. Limited groundwater ingress was recorded during site investigation works and subsequent monitoring. Sub-surface concrete that is only in contact with Made Ground can be Design Sulphate Class DS-1, with an ACEC Classification of AC-1s. Ground Floor Construction - Based upon the amount of Made Ground noted on site it is not recommended that a ground-bearing slab is utilised on site. Sutcliffe Investigations therefore propose a suspended P.C Unit ground floor be adopted. Geotechnical Uncertainty - No previous development has been noted on site, however parts of the site have been subject to infilling and therefore the possibility of underground obstructions cannot be discounted.
Recommendations	The following actions are recommended:

	• Design a Phase III Remediation & Validation Proposal for submission to planning department. • Additional geotechnical testing required following finalised development plan and site levels for foundation design. • Design SMMP – management of material on and off site. • Good hygiene practices should be employed during construction work, in addition, the findings of this investigation should be included within the contractors H&S file and an assessment of risks associated with short term human health completed. No consumption of food or smoking should occur without prior hand washing. If dust is encountered, dust masks should be worn, and dust suppression employed.
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1.5 Objectives & Scope of Works

The Phase 1 PRA is required to assess the ground based environmental and geotechnical risks, development constraints and liabilities associated with the development of the site, required in support of an application for outline planning.

This report will inform the study of any potential contaminated land issues to be identified, assessed and actioned and has been designed to provide sufficient information to satisfy the requirements of National Planning Policy Framework (NPPF) in order to satisfy the aims and objectives of the project.

The report will culminate in the presentation of a Preliminary Conceptual Site Model (CSM) and will include clear robust recommendations for any additional works. These works will be designed to fully assess and mitigate risks, development constraints and abnormalities that may be required in support of a detailed planning application and design of detailed foundation options.

This report constitutes a preliminary investigation as defined in BS10175 and contains the following:

- Summary of the information obtained from an Envirocheck Report (*Report Reference: 276916724_1_1*), which is presented in *Appendix A*.
- A preliminary risk assessment of potential environmental risks associated with the proposed redevelopment of the site to identified receptors, following the methodology of Land contamination risk management (LCRM) and their recommendations on contamination reports.
- Recommendations for further investigation/actions if required.

The scope of works was to undertake a Phase I PRA using available information, and to place the site in its environmental context and has included the following:

- a review of available historic maps to determine the land-use history in the context of potentially contaminative activities;

- a review of environmental data relating to the site and its surroundings using a proprietary third-party environmental database;
- desk-based assessment of site geology, hydrogeology and hydrology from published mapping and web-based sources to determine the site's environmental setting and sensitivity;
- a web-based search of the Environment Agency (EA) website and other freely available sources of information to identify any potential issues relating to the site and surrounding areas; and
- provision of a qualitative contaminated land risk assessment based on Source-Pathway-Receptor as per current best practice contained in LCRM¹.

A site inspection was undertaken by a Sutcliffe engineer on the 5th August 2015. No sampling or testing of soils or waters will be undertaken as part of this environmental review. All other information in this report has been obtained via public sources.

¹ Land contamination risk management (LCRM), EA, October 2020

2 Environmental Review

2.1 Introduction

The information presented within this chapter was compiled based on a site inspection, completed by a suitably qualified Sutcliffe Engineer, and a review of an Envirocheck Report (*Report Reference: 276916724_1_1*), presented in *Appendix A*.

N.B. the proposed development area has been updated and now includes the area up to approximately 105m east of the original site area shown in the Envirocheck Report.

2.2 Site Location and Setting

The site address is located at Borrowdale Road, Middleton, Manchester, M24 5QG at National Grid Reference (NGR) 386100, 406790 (*Figure 1*).

The site is approximately 1.2km south east from Middleton Town Centre and is surrounded on its northern, eastern and western boundaries by residential properties. St. Mary's RC Primary and Nursery School along with its associated playing fields borders the site's southern boundary. Field land is noted south east of the site. Location plans of varying scales are presented as *Figures 1 & 2* and an Aerial Photograph is presented as *Figure 3*.

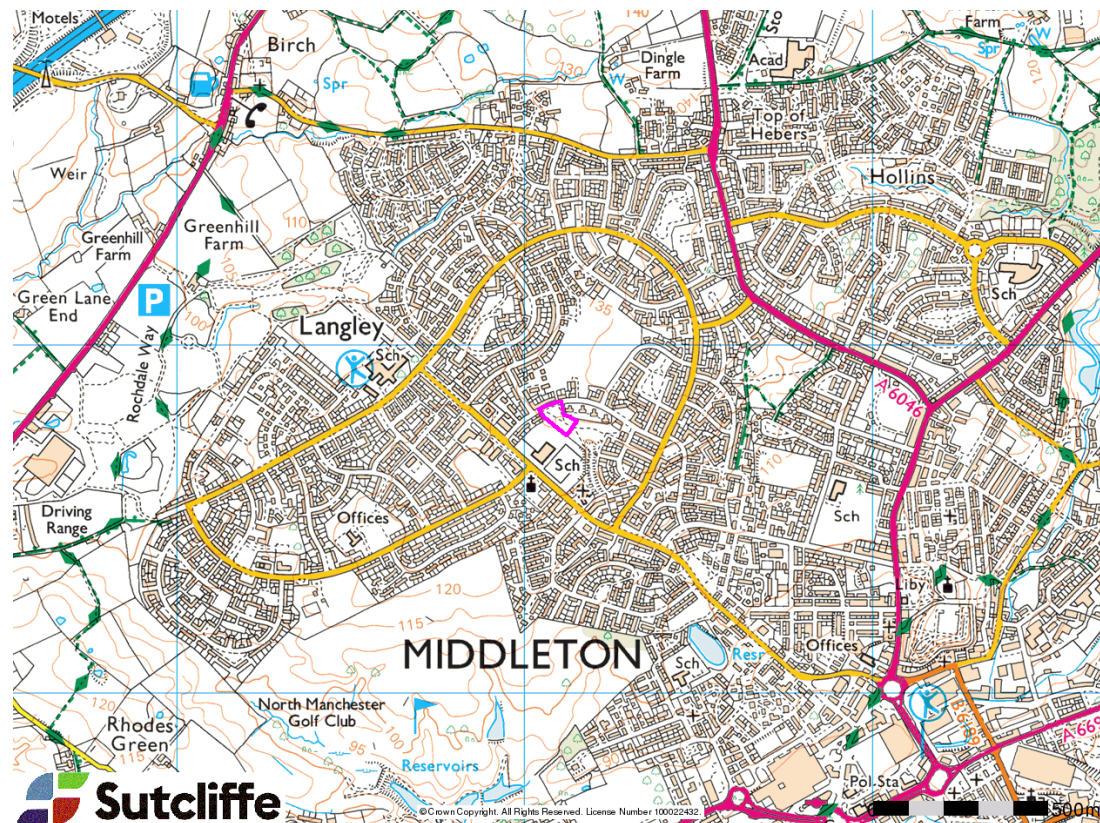


Figure 1: General Location of Site

2.3 Site Description and Walkover

The site is irregular in shape, 0.59ha in area and can be accessed via Borrowdale Road to the north of the site. The site is noted as undulating with areas of standing water noted across the site. The site is mostly grassed with a number of footpaths running through the site along with small shrubs, bushes and trees. The site is currently undeveloped.

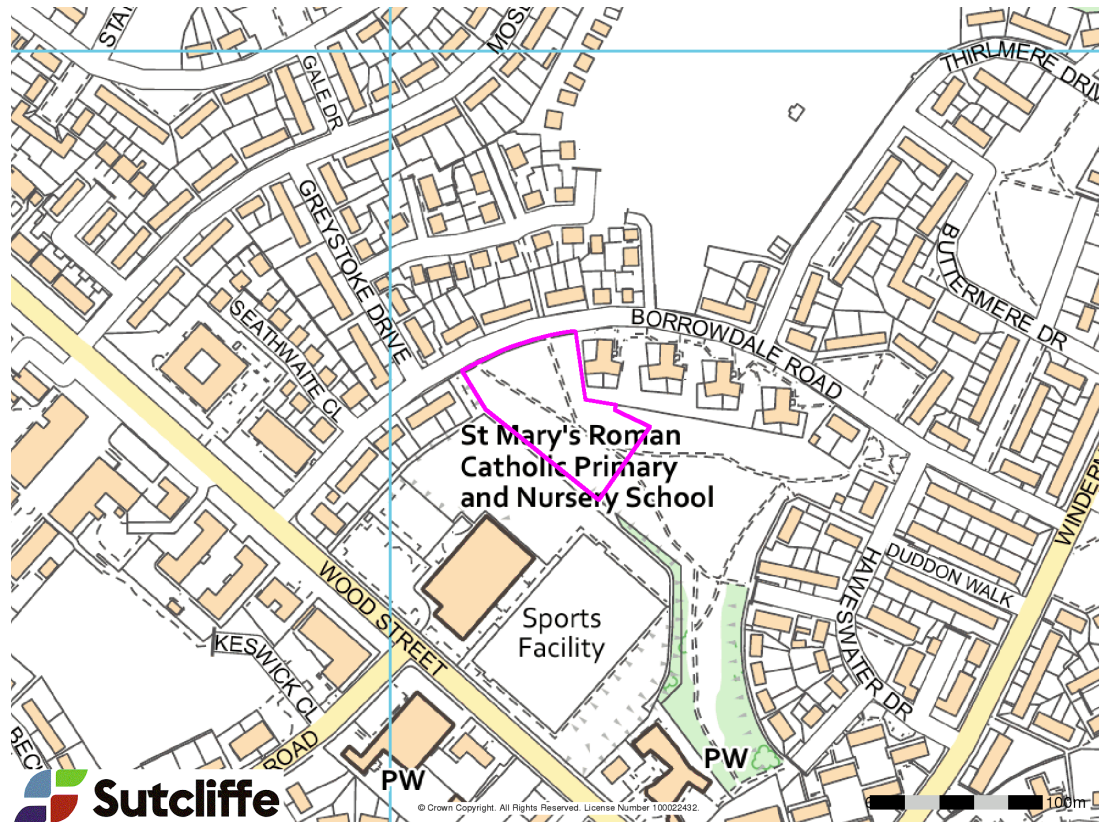


Figure 2: General Site Layout of the Site



Figure 3: Aerial Photograph

2.4 Adjacent Land Uses

Table 2.1 summarises the adjacent land uses.

Table 2.1: Adjacent Land Uses

Direction	Adjacent Land Use
North	Residential
East	Residential
South	Field land / School
West	Residential

2.5 Services

Electric

A low voltage electricity main is noted to the north of the site.

Gas

Low pressure gas mains are noted to the north, east and west of the northern section of the site and potentially encroaching onto the southern section of the site.

Drainage

According to UU Water Main Records map, water mains are noted off-site just north of the site's western section and immediately east of the site.

According to the UU Sewer Records map, a combined sewer is noted to the north of the site along Borrowdale Road that potentially encroaches onto the north eastern corner of the site.

Service plans are presented in *Appendix B*.

2.6 Site History

Historical maps were obtained and reviewed by Sutcliffe Investigations to determine the historical development of the target site. These are presented in *Appendix C*. This enabled an assessment to be made of the potential for contamination associated with former activities, both on-site and in the surrounding areas.

Onsite

The earliest available historical map (1848 – 1851) indicated that the site comprised of field land with a footpath noted in the southern section of the site. A river is located in the eastern end of the site, but is no longer mapped by 1893.

Between 1909 and 1910 a pond encroaches onto the site at the south western boundary. Between 1922 and 1932 the pond had been removed but a clay pit is noted at the south western boundary extending to the centre of the site. Another clay pit is noted in the eastern section of the site.

By 1956 both clay pits had been infilled. No further changes were evident from the historical maps except for footpaths noted through the site in 2006.

No significant identifiable sources of environmental concern were identified. The potential for significant contamination to have arisen at the site as a result of the current and former usage on site is considered to be low. However, the possibility of contamination albeit likely to be localised cannot be discounted.

A detailed review of the historical development of the site is presented in *Appendix C*.

Offsite

The earliest historical map (1848 – 1851) indicated that the surrounding area of the site was largely field land. Residential properties were noted 74m north east, 174m south and 279m east of the site. Several ponds were within 500m of the site, the nearest was noted 175m south west of the site. Middleton Wood, High Hurst and Coppice Wood were noted 223m east, 673m south west and 607m west of the site respectively. Asker Dam was noted 821m south of the site and a sand pit was noted 362m south of the site.

By 1893 wells were noted 10m north and 420m north east of the site. Residential properties and an old clay pit were noted 417m east and 490m north east of the site respectively. By 1910 a pond was noted immediately adjacent to the south western boundary which encroaches on to the site. Between 1922 and 1932 clay pits were noted immediately south west and immediately south of the site.

Between 1955 and 1977 there was a large increase in residential properties in the surrounding areas of the site, the nearest was immediately north of the site. Borrowdale Road is noted immediately north of the site. St. Mary's RC Primary School was noted 50m south of the site. Saxon Nook Primary School was noted 90m north west of the site and Langley Secondary School was noted 422m north west of the site.

From 1977 onwards the surrounding areas were becoming increasingly built up with residential properties. Residential properties were noted 488m south east of the site between 1983 and 1984, and Saxon Nook County Primary School had been demolished by 1999.

Until the most recent map dated 2021, the only further changes were residential properties noted 350m south and 77m north of the site in 2006 and 2021 respectively. The school 120m north of the site had been demolished by 2013. A sewage works noted approximately 500m north east of the site in 2002.

A detailed review of the historical development of the surrounding land uses is presented in *Appendix C*.

2.7 Environmental Database

A commercial database search (provided by Envirocheck) was obtained to provide further information regarding the site and the surroundings. Relevant information and records are summarised below:

Contaminated Land Entries

The database has no contaminated land entries within 500m of the site.

Environmental Permitted Activities

According to the database there are no current Local Authority Integrated Pollution Prevention and Controls or Local Authority Pollution Prevention and Controls within 500m of the site.

Hazardous Substances Sites

According to the database, there are no COMAH-registered sites, Planning Hazardous Substances Consents or NIHHS sites within 500m of the site.

Substantiated Pollution Incident Register

According to the database, there has been one substantiated pollution incident within 1000m of the site. It is noted 597m north east of the site, and was recorded on the 19th May 2006, with significant impact to land (Category 2) and no impact (Category 4) to water or air. The pollutant was noted as being commercial waste.

Landfill Sites

According to the Envirocheck Report there are:

- No Registered Landfill sites within 1000m of the site.
- Three Historic Landfill sites have been noted within 1000m of the site, the nearest being 400m east of the site but no further details have been provided. The other two historic landfill sites are noted between 631m east and 649m south east of the site.
- No BGS Recorded Landfill sites have been noted within 1000m of the site.
- No Local Authority Recorded Landfill sites have been noted with 1000m of the site.

Infilled Land

According to the database there are 9No. Potentially Infilled Land (non-water) sites within 1000m of the site. The nearest is noted on-site and relates to unknown filled ground (pit, quarry, etc.). The other eight sites are noted between 368 – 986m of the site.

There are 15No. Potentially Infilled Land (water) sites within 500m of the site. The nearest is noted in the eastern section of the site and relates to unknown filled ground (pond, marsh, river, stream, dock, etc.). The other 14 sites are noted between 187 – 496m of the site.

Waste Management Facilities

The database has recorded no Registered Waste Transfer sites, no Registered Waste Treatment or Disposal sites and no Licensed Waste Management Facilities within 1000m of the site.

Radioactive Materials

According to the Envirocheck Report there are no authorisations for radioactive substances in the surrounding area.

Fuel Stations

According to the database there is one petrol or fuel station entry within 1000m of the site. It is noted 898m north east of the site and refers to Hollin Service Station, the status of which is obsolete.

Contemporary Industrial Land Uses

According to the database there are seven entries located within 500m of the site. The nearest relates to Pest and Vermin Control 238m north west of the site.

Underground Pipelines and Transmission Assets

A search of the Linesearch database was undertaken on 19th April 2021. This database lists pipelines owned and/or operated by over 40 pipeline and transmission operators, but not all operators are registered.

According to the database, there is one underground pipelines or transmission assets on the site or within a 25m search radius relating to Electricity North West Ltd (*Appendix B*).

2.8 Historical Contamination Potential

Site

Historical maps have indicated that the site has consisted of undeveloped land from 1848 to 2021. A river was noted in the eastern section of the site from 1848 to 1893 where it was infilled, this is also recorded in the Envirocheck Report which identified Potentially infilled land (Water) in the eastern section of the site. Two clay pits were noted in the 1922 – 1932 mapping and infilled by the 1955 – 1956 mapping.

Given the date of infill for all features mentioned previously, the potential for significant contamination to have arisen at the site as a result of the current and former usage on site is considered to be low – moderate. However, the possibility of contamination albeit likely to be localised cannot be discounted.

Surrounding Area

Apart from the clay pits and potentially infilled land (Water) identified immediately off-site, no other significant potentially contaminative activities were identified as having taken place in the immediate surrounding area.

Therefore, the potential for off-site sources of contamination to impact the site is considered low.

3 Environmental Setting

3.1 Introduction

Desk-based research of the local geology, hydrogeology, hydrology and ecology was carried out in order to establish the potential for migration of contamination onto or away from the site, and to assess the surface water and groundwater sensitivity of the surrounding area. Information was obtained from a number of sources, namely:

- *inspection of the British Geological Survey (BGS) Geology of Britain Viewer²;*
- *examination of the EA's on-line aquifer classification³;*
- *inspection of the MAGIC interactive map service⁴;*
- *a review of online web-based information searches;*
- *review of previous site investigation reports pertaining to the site; and*
- *a review of publicly available information.*

3.2 Geology & Soils

Soils Chemistry – Rural

The environmental database also presents an estimation of the rural background soil chemistry within the site area.

- Arsenic - <15mg/kg
- Cadmium - <1.8mg/kg
- Chromium – 60-90mg/kg
- Lead - <100mg/kg
- Nickel – 15-30mg/kg

Reference to the data presented suggests that the majority of metals concentrations are generally anticipated to be below current tier 1 assessment criteria in relation to human health effects.

² <http://www.bgs.ac.uk/discoveringGeology/geologyOfBritain/viewer.html>

³ <http://maps.Environment-agency.gov.uk/wiyby/wiybyController>

⁴ <http://magic.defra.gov.uk/>

Artificial Ground

There are no records of any artificial ground on site.

Superficial Deposits

The superficial deposits for the site are noted as Hummocky (Moundy) Glacial Deposits, Devensian.

Solid Geology

According to the BGS Geology of Britain Viewer and the relevant British Geological Survey (BGS) Solid and Drift Sheets 085 Manchester (2010) at a scale of 1:50,000 the following geological succession has been identified (Appendix A).

Table 3.1: Geology

Strata	Description	Age	Rock Type
Solid Geology	Pennine Lower Coal Measures	Westphalian	Mudstone / Siltstone and Sandstone

One fault is within 500m of the site, it is noted 13m north of the site. No faults have been identified within the development site boundary. No action is required in respect to foundation design.

British Geological Society (BGS) Logs / Records

According to the database there are five BGS Recorded Mineral sites within 1000m of the site, the nearest is noted 368m south of the site. The other four are noted between 632 – 841m of the site, however all these sites have ceased.

Ground Stability

Table 3.2 below summarises the natural hazards information presented in the Envirocheck Report.

Table 3.2: Potential Natural Hazards

Natural Hazard	Hazard Potential
Shrink - Swell Clays	No Hazard
Landslides	Very Low
Soluble Rocks	No Hazard
Compressible Deposits	No Hazard
Collapsible Deposits	Very Low
Running Sands	Very Low

3.3 Coal Mining & Brine Subsidence

The site does fall within a coal mining area. Based on the Coal Mining Report (*Report Reference: 51001818048001*) the following is of note:

- The site is not within the zone of likely physical influence from past, present or future underground coal mining.
- There are no known coal mining entries on or within 20m of the site.
- The site 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.
- The property is not within the boundary of an opencast site from which coal has been removed by opencast methods in the past, present or future.
- There is no record of mine gas emissions requiring action by the Coal Authority.

The potential risks to the development of the site from historic coal workings and remediation to these features as identified within the Coal Authority Report are summarised below in *Table 3.3*.

Table 3.3: Potential Coal Mining Issues

Coal Mining Issues	Yes	No	Risk Assessment
Underground coal mining (recorded at shallow depths)		✓	Not required
Underground coal mining (probable at shallow depths)	✓		Required
Mine Entries (shafts and adits)		✓	Not required
Coal mining geology (fissures)		✓	Not required

Coal Mining Issues	Yes	No	Risk Assessment
Record of past mine gas emissions		✓	Not required
Recorded coal mining surface hazard		✓	Not required
Surface mining (opencast workings)		✓	Not required

A full copy of the Coal Authority Mining Report can be found in *Appendix D*.

3.4 Radon

According to the Envirocheck Report, the site is not within a radon affected area, as <1% of homes are above the action level. No radon protection measures are necessary in the construction of new dwellings or extensions.

3.5 Hydrogeology

The Bedrock is classified as a Secondary A Aquifer; these are 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 flow to rivers. These are generally aquifers formally classified as minor aquifers”.

The Superficial Deposits are classified as a Secondary Aquifer – Undifferentiated, these are defined as;

“Has been assigned in cases where it has not been possible to attribute either category A or B to a rock type. In most cases, this means that the layer in question has previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type”.

The Envirocheck Report indicates that the site is not located within a Groundwater Source Protection Zone (SPZ).

There are no groundwater abstraction points listed in the Envirocheck Report within 1000m of the site.

3.6 Hydrology

The following is of note:

- The nearest surface water feature is noted 545m south of the site.
- There is one recorded pollution incidents to controlled waters listed in the Envirocheck Report. It is noted 527m north west of the site, the pollutant was organic chemicals: diesel fuels with an incident severity of category 2 (significant incident).

- There are no surface water abstractions listed within the Envirocheck Report within 1000m of the site.
- There are no biological quality records or chemical quality records within 1000m of the site.

3.7 Flood Risk

According to the Envirocheck Report the site is not within 250m of an area at risk from flooding from rivers or sea without defences.

3.8 Sensitive Land Uses

Ecological Receptors

The Envirocheck database was queried to locate Sites of Special Scientific Interest (SSSI), Special Protection Areas (SPAs), Special Areas of Conservation (SACs), Ramsar Sites, National Nature Reserves, Areas of Outstanding Natural Beauty (AONB), National Parks and Local Nature Reserves within 1000m of the site.

- There are no Special Areas of Conservation within 1000m of the site.
- There are no Special Protection Areas within 1000m of the site.
- The site is within a Nitrate Vulnerable Zone.
- There are no Ramsar Areas within 1000m of the site.
- There are no records of Ancient Woodlands within 1000m of the site.
- There is one Area of Adopted Green Belt within 1000m of the site, it is noted 821m north of the site and relates to Rochdale Unitary Development Plan.
- There are no Local Nature Reserves within 1000m of the site.

Significance of Environmental Setting

The significance of the environmental setting is considered by Sutcliffe Investigations to be as follows:

- **Groundwater [LOW SENSITIVITY]** – The site is situated in an area of low sensitivity with respect to groundwater resources due to the presence of a Secondary Aquifer – Undifferentiated and Secondary A Aquifer beneath the site. However, this sensitivity is reduced by the absence of any abstractions (sensitive or otherwise) within the immediate vicinity of the site.
- **Surface Water [LOW SENSITIVITY]** – With respect to surface water resources, the site is considered to be located in a low sensitivity setting.

- **Flood Risk [LOW SENSITIVITY]** – The site is not within 250m of an area at risk of flooding from rivers or sea without defences.
- **Sensitive Land Uses [LOW SENSITIVITY]** – With respect to sensitive land uses such as protected habitats, protected sites, protected buildings and sensitive receptors, the site is considered to be located in a low sensitive setting.

4 Preliminary Qualitative Risk Assessment

4.1 Conceptual Site Model (CSM)

A conceptual model is an essential element of any site-specific environmental risk assessment. In this context, they are often simple representations of the hypothesised relationships between sources, pathways and receptors. For the purpose of this report, a basic conceptual model has been developed based on the principles of LCRM and interpretation of information gathered during the Phase I review. Thus, this allows the identification of potential contaminant linkages and whether these linkages have the potential to comprise significant harm and/or pollution of controlled waters in relation to the site. Based on this interpretation, the implications for potential liability associated with soil or water contamination at the site can be evaluated.

- **SOURCES** – the identification of contaminants within the soils and groundwater that represent potential pollution sources;
- **PATHWAYS** – the identification of the potential exposure mechanisms and migration pathways from the potential sources; and
- **RECEPTORS** – the identification of the potential receptors that could be sensitive to harm if exposed to these pollution sources.

Collectively, each of these scenarios would be considered a potential pollutant linkage that may require further assessment.

A preliminary conceptual model is presented below (*Table 4.5*) in accordance with the guidance outlined within LCRM.

Identification of Potential Sources

Based on the information from the desk study, historical maps, published information, and a site walkover a summary of potential contaminant sources is provided in *Table 4.1*.

Table 4.1: Potential Sources

Reference	Potential Sources (Onsite)	Potential Contaminants
S1 – Onsite	Infilled clay pits / infilled river	All metals, hydrocarbons, PAHs, oils and localised ground gas.

No significant off-site sources that would represent a risk to the site have been identified in the immediate surrounds as part of this PRA.

Potential Exposure Pathways

Exposure pathways are the potential routes and mechanisms by which potential on-site sources could be linked to the identified potential receptors and thereby expose them to potential harm.

The following potential exposure pathways have been identified at the site:

Table 4.2: Potential Pathway

Ref	Pathway	Description
P1	Direct contact with potential contaminants.	Dermal absorption, ingestion and inhalation of contaminants via direct contact.
P2	Ingestion of potential contaminants.	Construction workers may come into contact during the site works, however this will be for a short time and therefore limited exposure will occur. PPE can be used and worn as a precaution to reduce the risk.
P3	Inhalation of potential contaminants.	
P4	Leaching and migration of contaminants.	Leaching of possible contaminants could migrate into the underlying Secondary Aquifer – Undifferentiated and Secondary A Aquifer via shallow groundwater. On site drainage is also at risk from shallow contamination, if present.
P5	Vertical and lateral migration of ground gases / vapours.	There is the potential for contaminants to be present on the site, which could generate ground gas & vapours on site.

Potential Receptors

Based on the site's environmental setting and the proposed future end use of the area following redevelopment, the following potential receptors have been identified:

Table 4.3: Potential Receptors

Ref	Receptor	Description
R1	Current & future site users	Site users; personnel, general workers and maintenance workers,
R2	Construction Workers	Contractors working on the development of the site. Construction workers, maintenance workers or other personnel who may be directly exposed to contaminated materials in the course of their activities).
R3	Controlled Waters	Secondary A Aquifer, Secondary Aquifer - Undifferentiated and on site drainage.
R4	Adjacent Site Users	Adjacent site users. Third-party land (i.e. the possibility of contamination migrating off-site onto third party land via contaminated groundwater, surface water run-off).
R5	Infrastructure / Buried services	Proposed buildings and buried services

NOTE: ground workers (i.e. If the site was redeveloped, any associated activities may bring site personnel and construction workers into contact with potentially contaminative materials, however, it is considered that the risks to workers will be short term and could be controlled by safe working procedures.

Potential Contaminant Linkages

In order for there to be a plausible contaminant linkage there must be a source, receptor and pathway and a feasible linkage between them (a contaminant linkage). Consequently, even where a contaminant is identified, if there is no pathway for the contamination to reach a receptor, or no receptor then there can be no significant risk and remedial actions are not required. Central to this risk assessment process is the development of a 'conceptual model'. This is a descriptive and/or pictorial representation of the area of potential contamination, the surrounding environment and the processes acting on the contaminants by which they can move and come into contact with receptors (e.g. by leaching and migration into groundwater).

Production of a conceptual model requires an assessment of risk to be made. Risk is a combination of the likelihood of an event occurring and the magnitude of its consequences. Therefore, in order to assess risk both the likelihood and the

consequences of an event must be taken into account. This report adopts the methodology for risk evaluation presented in CIRIA report C552 'Contaminated Land Risk Assessment – A Guide to Good Practice', 2001. The method is qualitative and involves the classification of the following:

- the magnitude of the potential severity or consequence of the risk occurring;
- the magnitude of the likelihood or probability of the risk occurring; and
- once the likelihood of an event occurring and its severity have been classified, a risk category can be assigned using *Table 4.4*

		Table 4.4: Risk Assessment Matrix			
		Consequence			
		Severe	Medium	Mild	Minor
Likelihood of Occurrence	High	Very High	High	Moderate	Moderate/Low
	Likely	High	Moderate	Moderate/Low	Low
	Low	Moderate	Moderate/Low	Low	Very Low
	Unlikely	Moderate/Low	Low	Very Low	Very Low

Sutcliffe has devised a conceptual model based on the information obtained to date through the desk-based study and future residential usage of the site. This is detailed in tabular format in *Table 4.5* and pictorially in *Figure 4*.

Table 4.5: Preliminary Conceptual Site Model

1. Hazard Identification		2. Hazard Assessment				3. Risk Estimation		4. Risk Evaluation	5. Managing the Risk
Contaminant Source		Pathway		Receptor		Consequence of risk being realised	Probability of risk being realised	Classification	Action required
S1	Potentially contaminated soil on Site	P1	Dermal contact	R1/2	Site users	Medium	Low	Moderate / Low	It is possible that harm could arise to a designated receptor from an identified hazard. Investigation is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.
		P2	Ingestion of soil / soil dust	R1/2	Site users	Medium	Low	Moderate / Low	
		P3	Inhalation of vapours / soil gas	R1/2	Site users	Severe	Low	Moderate	
		P4	Leaching and migration of contaminants	R3/5	Principal aquifer	Medium	Low	Moderate / Low	
		P5	Lateral migration of soil gas / vapours	R1	Site users	Severe	Unlikely	Moderate / Low	
				R4	Property	Severe	Unlikely	Moderate / Low	

Potential contaminant linkages that have been identified as moderate or higher will need to be assessed further. This can be in the form of additional research into the actual plausibility of the contaminant linkage or by the actual site measurements. This can be in the form of soil sampling and vapour monitoring to assess the actual conditions

5 Conclusions and Recommendations

5.1 Introduction

Sutcliffe Investigations were instructed Langley Community Benefit Society, to provide a Phase I PRA report. The purpose of the report is to generate preliminary environmental assessment data for submission with an outline planning application for redevelopment of the site.

This comprised a review of the Phase I PRA data, collection of environmental information and reports undertaken on the site.

5.2 Environmental Risk Assessment Findings

The site is irregular in shape and is bordered by residential properties to the north, east and west of the site, as well as St. Mary's RC Primary and Nursery School and field land to the south west and south of the site respectively. The site currently consists of an undeveloped piece of land with footpaths. The development history of the site has identified potential sources of environmental concern, which is confirmed by the environmental database. The site is underlain by a Secondary A Aquifer for the bedrock, with a Secondary Aquifer - Undifferentiated for the superficial deposits.

Taking the above into account, it is considered that there is a low – moderate potential for significant contamination to be present, however it is considered that localised contamination that may represent a risk to long term human health and also with the potential for leaching of contaminants into controlled waters may be present. Consequently the environmental risk setting for the site is considered to be low.

5.3 Classification and Land Use Risk

Historical maps initially indicate that off-site the surrounding land comprised field land, a nearby river, ponds, Langley Brook, woods and residential properties. Over time the surrounding land was increasingly built up with residential properties in all surrounding areas of the site.

The classification of risk is as follows:

- Class 1 Area: Potential for High levels of contamination and migration of contamination off the site;
- Class 2 Area: Potential for Medium levels of contamination and migration of contamination off site;
- Class 3 Area: Potential for Low levels of contamination and migration of contamination off site; and
- Class 4 Area: Potential for limited contamination.

The Phase I PRA has not highlighted significant areas of concern and therefore, the site is deemed to be Class 3 – Low Risk.

5.4 Geotechnical Uncertainty

The site has not been subject to previous development and therefore, the potential for relic foundations and obstructions can be discounted.

5.5 Conclusions and Recommendations

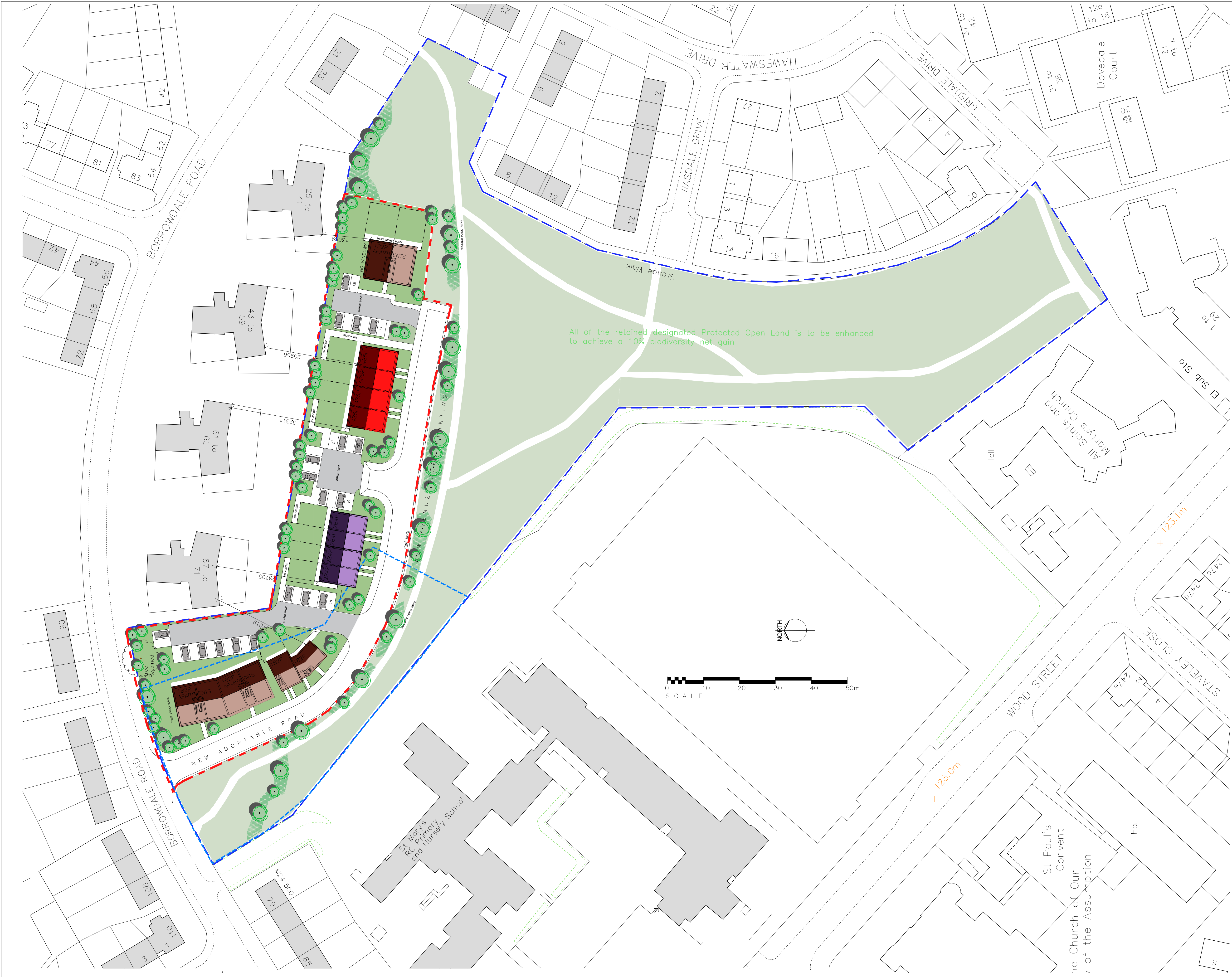
Based on the findings of the Phase I PRA review, Sutcliffe Investigations do not consider there to be any identifiable significant environmental issues regarding the site. However, there is limited information of the ground for geotechnical properties and as such we would therefore recommend the following sequential works are undertaken:

- Submission of this Phase I PRA Report for the benefit of validating the outline planning application.
- Commission a Coal Mining Risk Assessment (CMRA).

Taking into account the information acquired from Sutcliffe's 2018 Phase II Report 29691LG and this Phase I PRA, recommendations for further Phase II site investigation works are summarised hereunder:

- 5No. Dynamic Sampling boreholes (WS101-105) with dynamic probe follow-on (DPSH) and 3nr Gas & Groundwater Monitoring Wells (WS102, WS104 & WS105);
- 5No. Mechanical Trial pit excavations (TP101-105);
- 3No. soil infiltration test for Soakaways to BRE Digest 365 (TP101/SA101);
- 6No. CBR tests using Dynamic Cone Penetrometer methodology;

Proposed Development Plan Drawing Ref: 1917-08 Rev F (Site Plan – Option H)



ACCOMMODATION				
	2B4P houses	2 storey	79 sqm	04
	4B5P houses	2 storey	97 sqm	04
	1B2P apartments	3 storey	50 sqm	18
	1B2P walk ups	2 storey	50 sqm	04
TOTAL				30

- Area of Development Site 0.59 Ha
- Open Space as UDP map 1.857 Ha
- Draft allocations boundary 0.34 Ha

- Topographical survey of site as existing
- Unadopted private parking for apartments
- New planting
- New trees
- Rear and side boundaries-- 1.8m high timber fence
- Frontage boundaries incl divider-- 0.9m high steel railings
- Recycling/refuse storage facilities
- Cycle storage facilities

SITE PLAN - Option H

Project	Land at	Drawn	MS
	Borrowdale Road, Langley, M24 5GQ.	Scale	1:1000@A3 1:500@A1

Project No	Dwg No	Revision
1917	08	F

Appendix A: Envirocheck Report (*Report Reference: 276916724_1_1*)

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

276916724_1_1

Customer Reference:

31479LG

National Grid Reference:

386100, 406790

Slice:

A

Site Area (Ha):

0.51

Search Buffer (m):

1000

Site Details:

Borrowdale Road

Middleton

Manchester

M24 5QG

Client Details:

MR W Baldwin

Sutcliffe Projects Ltd

18-20 Harrington Street

Liverpool

L2 9QA

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	11
Hazardous Substances	-
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Industrial Land Use	19
Sensitive Land Use	24
Data Currency	25
Data Suppliers	30
Useful Contacts	31

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/Natural Resources Wales 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 this 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 v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2				6
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
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					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 3				Yes
Pollution Incidents to Controlled Waters	pg 4				1
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 4				1
Water Abstractions	pg 4				(*9)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 6	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 6	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 6	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 7				30

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 11				3
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 11	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 11	1		1	7
Potentially Infilled Land (Water)	pg 12		3	12	31
Registered Landfill Sites					
Registered Waste Transfer Sites					
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					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 15	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 15	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 16			1	4
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 17	Yes	n/a	n/a	n/a
Mining Instability	pg 17	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 17	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 18	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 18	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards				n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 19		1	6	25
Fuel Station Entries	pg 21				1
Points of Interest - Commercial Services	pg 21		1		4
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 22				5
Points of Interest - Public Infrastructure	pg 22				6
Points of Interest - Recreational and Environmental	pg 23		1		7
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 24				1
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 24	1			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (S)	0	1	386098 406792
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	206	1	386200 406550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	261	1	386300 406550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	268	1	386350 406600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	273	1	386250 406500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	290	1	386100 406450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	291	1	386150 406450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	298	1	386350 406550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	300	1	386300 406500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	301	1	386200 406450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	304	1	385850 407050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	305	1	385750 406900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	328	1	386450 406650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (SE)	332	1	386350 406500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	340	1	386100 406400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	341	1	386098 406400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	346	1	385750 407000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (SE)	351	1	386450 406600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	390	1	386100 406350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	391	1	386098 406350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	396	1	386050 406350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	414	1	385800 407150

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	415	1	385650 406950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	416	1	385700 407050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (SE)	420	1	386500 406550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	440	1	386098 406300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A17SE (NW)	445	1	385750 407150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	446	1	386050 406300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	450	1	385600 406900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	456	1	386000 406300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A17SE (NW)	480	1	385700 407150
1	Discharge Consents Operator: United Utilities Water Plc (?) Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Wood Street Cso 148 Wood Street, Middleton, Manchester, Greater Manchester, M24 4bb Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016982644 Permit Version: 3 Effective Date: 20th May 2005 Issued Date: 20th May 2005 Revocation Date: 5th March 2020 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Irk Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	679	2	386580 406240
1	Discharge Consents Operator: United Utilities Water Plc (?) Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Wood Street Cso 148 Wood Street, Middleton, Manchester, Greater Manchester, M24 4bb Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016982644 Permit Version: 2 Effective Date: 9th March 2005 Issued Date: 9th March 2005 Revocation Date: 19th May 2005 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Irk Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	679	2	386580 406240

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Wood Street Cso 148 Wood Street, Middleton, Manchester, Greater Manchester, M24 4bb Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016982644 Permit Version: 1 Effective Date: 28th November 1994 Issued Date: Not Supplied Revocation Date: 8th March 2005 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Irk Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	679	2	386580 406240
1	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Wood Street Cso 148 Wood Street, Middleton, Manchester, Greater Manchester, M24 4bb Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01ROC0168 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 1st January 1995 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Trib River Irk Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	683	2	386580 406235
1	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Wood Street Cso 148 Wood Street, Middleton, Manchester, Greater Manchester, M24 4bb Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016982644 Permit Version: 4 Effective Date: 5th March 2020 Issued Date: 5th March 2020 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Irk Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	690	2	386587 406232
2	Discharge Consents Operator: United Utilities Water Plc (?) Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Langley Hall Farm, Langley Lane, Middleton, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016992225 Permit Version: 1 Effective Date: 1st October 1990 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Langley Brook Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	902	2	385600 407600
	Nearest Surface Water Feature	A8NW (S)	545	-	386053 406200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Pollution Incidents to Controlled Waters Property Type: Water Treatment & Distribution: Other Location: Bowleys Stream, Martindale Crescent, Greater Manchester Authority: Environment Agency, North West Region Pollutant: Organic Chemicals : Diesel Fuels Note: Not Supplied Incident Date: 29th July 1999 Incident Reference: 30763 Catchment Area: Roch Receiving Water: River Stretch (Freshwater) Cause of Incident: Other Cause Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	527	2	385600 407100
4	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, South Area Incident Date: 19th May 2006 Incident Reference: 400480 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Specific Waste Materials: Commercial Waste	A18SE (NE)	597	2	386401 407357
	Water Abstractions Operator: The New North Manchester Golf Club Ltd Licence Number: 2569005055 Permit Version: 101 Location: Reservoir Fed By Surface Drainage At North Manchester Golf C Authority: Environment Agency, North West Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: North Manchester Golf Course Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A3NW (S)	1063	2	385900 405700
	Water Abstractions Operator: North Manchester Golf Club Licence Number: 2569005055 Permit Version: 100 Location: Reservoir Fed By Surface Drainage At North Manchester Golf Club Authority: Environment Agency, North West Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 45 Yearly Rate (m3): 2273 Details: North Manchester Golf Course Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 21st February 1977 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A3NW (S)	1063	2	385900 405700
	Water Abstractions Operator: Robert McBride Ltd Licence Number: 2569005035 Permit Version: 100 Location: Reservoir Fed By Surface Drainage At Middleton, Manchester(T Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 1091 Yearly Rate (m3): 288671 Details: Premises At Cheetham Street Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4NW (SE)	1237	2	386600 405600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Robert McBride Ltd Licence Number: 2569005035 Permit Version: 100 Location: Reservoir Fed By Surface Drainage At Middleton, Manchester(T Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Cheetham Street Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4NW (SE)	1237	2	386600 405600
	Water Abstractions Operator: Robert McBride Limited; Middleton Licence Number: 2569005003 Permit Version: Not Supplied Location: Borehole, Leater Street, Middleton , MANCHESTER Authority: Environment Agency, North West Region Abstraction: Manufacturing Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 109 Yearly Rate (m3): 27276 Details: Licence Status: 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	A4NE (SE)	1331	2	386800 405595
	Water Abstractions Operator: Greater Manchester Council Licence Number: 2569005056 Permit Version: Not Supplied Location: River Irk, Middleton, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Cooling Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 118 Yearly Rate (m3): 32504 Details: Licence Status: 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	A10SW (SE)	1371	2	387200 405895
	Water Abstractions Operator: Mr Fletcher Licence Number: 2569002247 Permit Version: 100 Location: Borehole At Siddall Fold Farm, Birch Authority: Environment Agency, North West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 5 Yearly Rate (m3): 236 Details: Lic. Holders Prem'S-Siddall Fold Fm Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th June 1991 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23NW (N)	1378	2	385900 408200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: B M Coatings Limited Licence Number: 2569005009 Permit Version: Not Supplied Location: Wince Brook At Premises, Tonge Mill, Oldham Road, MIDDLETON Authority: Environment Agency, North West Region Abstraction: Cooling Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 14 Yearly Rate (m3): 655 Details: Licence Status: 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	A4NE (SE)	1447	2	387005 405595
	Water Abstractions Operator: H B Plastics Limited Licence Number: 2569005051 Permit Version: Not Supplied Location: River Irk At Townley Mills, MIDDLETON, Lancashire Authority: Environment Agency, North West Region Abstraction: Cooling Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 36 Yearly Rate (m3): 5682 Details: Licence Status: 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	A10SW (SE)	1474	2	387400 406000
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A13NE (S)	0	3	386098 406792
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NE (S)	0	3	386098 406792
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13NE (S)	0	3	386098 406792
	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				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NW (S)	545	4	386053 406200
6	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (NW)	554	4	385560 407086
7	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 105.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Langley Brook Catchment Name: Mersey Primacy: 1	A17SE (NW)	570	4	385594 407166
8	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.0 Watercourse Level: Underground Permanent: True Watercourse Name: Langley Brook Catchment Name: Mersey Primacy: 1	A17SE (NW)	584	4	385599 407194
9	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (NW)	593	4	385534 407119
10	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (NW)	596	4	385533 407123
11	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Langley Brook Catchment Name: Mersey Primacy: 1	A12NE (NW)	599	4	385531 407126
12	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 118.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Langley Brook Catchment Name: Mersey Primacy: 1	A17SE (NW)	612	4	385616 407254
13	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 279.4 Watercourse Level: Underground Permanent: True Watercourse Name: Langley Brook Catchment Name: Mersey Primacy: 1	A17SE (NW)	635	4	385498 407142

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SW (S)	778	4	385912 405990
15	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 111.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Asker Dam Catchment Name: Mersey Primacy: 1	A8SW (S)	790	4	385915 405977
16	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 192.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SE (S)	827	4	386139 405913
17	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 143.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Langley Brook Catchment Name: Mersey Primacy: 1	A12NW (W)	876	4	385220 407116
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 708.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NW (N)	883	4	385772 407659
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 100.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SW (S)	897	4	385917 405867
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 158.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A17NE (NW)	901	4	385649 407625
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NW (N)	903	4	385905 407718
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 95.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NW (W)	928	4	385118 406905

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7SE (SW)	942	4	385507 406024
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: Underground Permanent: True Watercourse Name: Langley Brook Catchment Name: Mersey Primacy: 1	A12NW (W)	959	4	385114 407058
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 35.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Langley Brook Catchment Name: Mersey Primacy: 1	A12NW (W)	961	4	385112 407054
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 31.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Langley Brook Catchment Name: Mersey Primacy: 1	A12NW (W)	963	4	385099 407007
27	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 5.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A17NE (NW)	968	4	385492 407610
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NW (W)	968	4	385091 406993
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 426.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A17NE (NW)	969	4	385487 407608
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 478.2 Watercourse Level: Underground Permanent: True Watercourse Name: Langley Brook Catchment Name: Mersey Primacy: 1	A12NW (W)	970	4	385088 406993
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A3NW (S)	981	4	386027 405764

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 150.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7SE (SW)	986	4	385496 405978
33	OS Water Network Lines Watercourse Form: Reservoir Watercourse Length: 49.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A3NW (S)	991	4	385932 405767
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A3NW (S)	995	4	386013 405751

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	Historical Landfill Sites Licence Holder: Not Supplied Location: Higher Wood Street, Middleton, Manchester, Greater Manchester Name: Land off Higher Wood Street Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16012 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: D100	A14SW (E)	505	2	386652 406726
36	Historical Landfill Sites Licence Holder: Not Supplied Location: Mellalieu Street, Middleton, Manchester, Greater Manchester Name: Mellalieu Street Playing Fields Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16023 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: D068	A14SE (E)	736	2	386852 406559
37	Historical Landfill Sites Licence Holder: Not Supplied Location: Mirefield Drive, Middleton, Manchester, Greater Manchester Name: Mirefield Drive Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16038 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: D069	A9NE (SE)	754	2	386800 406399
	Local Authority Landfill Coverage Name: Rochdale Metropolitan Borough Council - Has no landfill data to supply		0	5	386098 406792
38	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A13NW (NW)	0	-	386089 406798
39	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A8NE (S)	368	-	386170 406376
40	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A18SE (NE)	528	-	386373 407293
41	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A12SE (W)	559	-	385543 406564
42	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A14NW (E)	564	-	386710 406848
43	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A18NW (N)	755	-	386045 407589

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A17NE (NW)	806	-	385720 407554
45	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A19SE (NE)	891	-	386912 407244
46	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A17NE (NW)	986	-	385663 407727
47	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A13SE (SE)	60	-	386180 406721
48	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A13SW (S)	187	-	386045 406569
49	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A13SE (SE)	218	-	386206 406539
50	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A13NW (W)	278	-	385784 406918
51	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A13NW (W)	296	-	385765 406919
52	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A12NE (W)	339	-	385714 406898
53	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A18SE (N)	349	-	386216 407169
54	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A18SE (NE)	363	-	386302 407143
55	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A12NE (NW)	420	-	385738 407104
56	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A14SW (SE)	439	-	386486 406495
57	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A18SE (N)	443	-	386159 407277
58	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A18SW (NW)	452	-	385892 407244
59	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A17SE (NW)	459	-	385750 407168
60	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A12SE (SW)	492	-	385692 406460
61	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A17SE (NW)	496	-	385717 407188
62	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A18SE (N)	506	-	386123 407343
63	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A12SE (W)	536	-	385525 406673

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A9NW (SE)	538	-	386497 406356
65	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A18SW (N)	558	-	386012 407387
66	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A18SE (N)	562	-	386266 407375
67	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A9NW (SE)	562	-	386478 406307
68	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A17SE (NW)	573	-	385611 407192
69	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A9NW (SE)	605	-	386494 406264
70	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A17SE (NW)	616	-	385730 407345
71	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A19SW (NE)	616	-	386456 407345
72	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A12SE (W)	627	-	385446 406621
73	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A19SW (NE)	629	-	386448 407365
74	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A14SE (E)	667	-	386813 406705
75	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A9NW (SE)	673	-	386641 406313
76	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A18NW (N)	678	-	386064 407513
77	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A9NW (SE)	690	-	386654 406303
78	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A14SE (E)	707	-	386849 406673
79	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A7NE (SW)	724	-	385540 406284
80	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A18NW (N)	726	-	385920 407539
81	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A19NW (NE)	739	-	386474 407478
82	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A14SE (E)	779	-	386913 406625
83	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A14SE (E)	783	-	386872 406479
84	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A17SE (NW)	789	-	385462 407349

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A14SE (E)	791	-	386914 406574
86	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A19SW (NE)	840	-	386744 407384
87	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A9NE (SE)	851	-	386919 406417
88	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A19SE (NE)	867	-	386785 407378
89	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A9NE (SE)	892	-	386801 406163
90	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A7NW (SW)	900	-	385333 406255
91	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A19SE (NE)	921	-	386899 407318
92	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A7NW (W)	948	-	385173 406437

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Lower Coal Measures Formation And South Wales Lower Coal Measures Formation (Undifferentiated)	A13NE (S)	0	1	386098 406792
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (S)	0	1	386098 406792
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (S)	105	1	386082 406637
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	133	1	386000 406666
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	345	1	386490 406721
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	351	1	386483 406671
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NW (E)	478	1	386619 406874

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 and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (E)	502	1	386652 406770
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (E)	635	1	386783 406839
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19NW (NE)	771	1	386500 407500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (E)	850	1	387000 406792
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (E)	851	1	387000 406819
93	BGS Recorded Mineral Sites Site Name: High Barn Sand Pit Location: Middleton, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96880 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Till, Devensian Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A8NE (S)	368	1	386179 406377

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
94	BGS Recorded Mineral Sites Site Name: Top Of Hebers Clay Pit Location: Middleton, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96927 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	632	1	386445 407371
95	BGS Recorded Mineral Sites Site Name: Top Of Hebers Brick Field Location: Middleton, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96877 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A18NW (N)	753	1	386003 407583
96	BGS Recorded Mineral Sites Site Name: Langley Lane Brick Yard Location: Middleton, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96876 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A18NE (N)	815	1	386370 407608
97	BGS Recorded Mineral Sites Site Name: Langley Hall Sand Pit Location: Middleton, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96875 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Till, Devensian Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	841	1	385649 407557
	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.	A13NE (S)	0	6	386098 406792
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (S)	0	-	386098 406792
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	386098 406792
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	386098 406792

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	386098 406792
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	386098 406792
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	386098 406792
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	386098 406792
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	386098 406792
	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	A13NE (S)	0	1	386098 406792

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
98	Contemporary Trade Directory Entries Name: Awaypests Location: 46, Newton Crescent, Middleton, Manchester, M24 5PB Classification: Pest & Vermin Control Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (NW)	238	-	385955 407037
99	Contemporary Trade Directory Entries Name: Superwash 3 Location: A,12 Lakeland Ct, Middleton, Manchester, Lancashire, M24 5QJ Classification: Laundries & Launderettes Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SW (W)	268	-	385780 406757
100	Contemporary Trade Directory Entries Name: Real Al-Haqq Ltd Location: 38, Millbeck Road, Middleton, Manchester, M24 4HG Classification: Agricultural Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (W)	329	-	385756 406653
101	Contemporary Trade Directory Entries Name: Hygrade Cleaning Contractors Location: 3, Esmont Drive, Middleton, Manchester, M24 5WL Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	354	-	386356 407089
101	Contemporary Trade Directory Entries Name: W G Finnigan & Son Location: 6, Esmont Drive, Middleton, Manchester, M24 5WL Classification: Washing Machines - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	383	-	386402 407081
101	Contemporary Trade Directory Entries Name: Clean Shine Home Improvements Location: 8, Burnside Crescent, Middleton, Manchester, M24 5WH Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	419	-	386424 407111
102	Contemporary Trade Directory Entries Name: R J External Cleaning Location: 11, Causey Drive, Middleton, Manchester, M24 5PN Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A18SW (NW)	457	-	385782 407189
103	Contemporary Trade Directory Entries Name: The Real Mccoy Location: 9, Bonscale Crescent, Middleton, Manchester, M24 5LX Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	612	-	386333 407406
103	Contemporary Trade Directory Entries Name: M B S Location: 22, Bonscale Crescent, Middleton, Manchester, M24 5LY Classification: Air Conditioning & Refrigeration Contractors Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (NE)	617	-	386365 407397
104	Contemporary Trade Directory Entries Name: Absolute Zero 273 Ltd Location: 62, Towncroft Avenue, Middleton, Manchester, M24 5DB Classification: Refrigerators & Freezers - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	640	-	386787 406844
105	Contemporary Trade Directory Entries Name: Solutions Furniture Repairers Location: 7, Bishops Meadow, Middleton, Manchester, M24 5JJ Classification: Furniture - Repairing & Restoring Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	651	-	385727 407384
106	Contemporary Trade Directory Entries Name: Star Cleaning Services Location: 25, Talkin Drive, Middleton, Manchester, M24 5LS Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	661	-	386285 407473

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
107	Contemporary Trade Directory Entries Name: Fine Lays Chocolatiers Location: 11, Newlands Walk, Middleton, Manchester, M24 5LG Classification: Confectionery Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	676	-	386118 407513
108	Contemporary Trade Directory Entries Name: P N Docksey Location: 6, Kinder Way, Middleton, Manchester, M24 5DE Classification: Dairies Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	733	-	386877 406874
109	Contemporary Trade Directory Entries Name: Vee Bee Plastic Coatings Location: 70, Springfield Road, Middleton, Manchester, M24 5DL Classification: Plastics - Coating Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	757	-	386904 406716
110	Contemporary Trade Directory Entries Name: T W Communications Location: 10, Barratt Gardens, Middleton, Manchester, M24 5JU Classification: Radio Communication Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	799	-	385584 407468
111	Contemporary Trade Directory Entries Name: M L Shaw Fabrications Location: Alexander House, 257, Hollin Lane, Middleton, Manchester, M24 5LU Classification: Sheet Metal Work Status: Active Positional Accuracy: Automatically positioned to the address	A19NW (NE)	811	-	386516 407537
111	Contemporary Trade Directory Entries Name: Michael L Shaw Ltd Location: 257, Hollin Lane, Middleton, Manchester, M24 5LU Classification: Sheet Metal Work Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	814	-	386515 407542
112	Contemporary Trade Directory Entries Name: Geoff'S Carpets Location: 6, Bishop Marshall Way, Middleton, Manchester, M24 5NE Classification: Carpets & Rugs - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	836	-	385638 407546
113	Contemporary Trade Directory Entries Name: Pictorial Design Location: 72, Hollin Lane, Middleton, Manchester, M24 5EF Classification: Stained Glass Designers & Producers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	867	-	386995 406976
114	Contemporary Trade Directory Entries Name: Hollin Filling Station Location: Hollin La, Middleton, Manchester, M24 5LE Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A19NW (NE)	892	-	386542 407616
115	Contemporary Trade Directory Entries Name: Traditional Timber Location: 10, Mellalieu Street, Middleton, Manchester, M24 5DN Classification: Windows - Sash Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	943	-	387013 406400
115	Contemporary Trade Directory Entries Name: Traditional Timber Sash Windows Location: 10, Mellalieu Street, Middleton, Manchester, M24 5DN Classification: Windows - Sash Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	944	-	387013 406400
116	Contemporary Trade Directory Entries Name: M B S Engineering Location: 283, Hollin Lane, Middleton, Manchester, M24 5LF Classification: Refrigerators & Freezers - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	957	-	386525 407698

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
116	Contemporary Trade Directory Entries Name: M B S Location: 283, Hollin Lane, Middleton, Manchester, M24 5LF Classification: Air Conditioning & Refrigeration Contractors Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	957	-	386525 407698
117	Contemporary Trade Directory Entries Name: Minster Cleaning Services Location: 2-6, Rochdale Road, Middleton, Manchester, M24 6DP Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A14SE (E)	965	-	387069 406484
117	Contemporary Trade Directory Entries Name: Minster Cleaning Services Location: 2-6, Rochdale Road, Middleton, Manchester, M24 6DP Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	965	-	387069 406484
117	Contemporary Trade Directory Entries Name: Minster Cleaning Services Location: 2-6, Rochdale Road, Middleton, Manchester, M24 6DP Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	965	-	387069 406484
117	Contemporary Trade Directory Entries Name: First Agenda Location: Unit 6, Spring Gdns, Middleton, Manchester, Lancashire, M24 6DQ Classification: Packaging & Wrapping Equipment & Supplies Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A14SE (E)	993	-	387094 406474
118	Contemporary Trade Directory Entries Name: Clean Card Systems Location: Unit 3, Spring Gardens, Middleton, Manchester, M24 6DQ Classification: Plastic Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	981	-	387102 406544
119	Contemporary Trade Directory Entries Name: North West Fascias & Soffits Location: 25, Durnford Street, Middleton, Manchester, M24 5UD Classification: Fascias and Soffits Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	985	-	386964 406227
120	Contemporary Trade Directory Entries Name: M B International Transport Services Ltd Location: 33, Beech Street, Middleton, Manchester, M24 4AW Classification: Freight Forwarders Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	992	-	386583 405862
121	Fuel Station Entries Name: Hollin Service Station Location: 270, Hollin Lane, Hollins Middleton, Manchester, Greater Manchester, M24 5LE Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Manually positioned to the road within the address or location	A19NW (NE)	898	-	386547 407620
122	Points of Interest - Commercial Services Name: Awayspests Location: 46 Newton Crescent, Middleton, Manchester, M24 5PB Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A13NW (NW)	238	7	385955 407037
123	Points of Interest - Commercial Services Name: M L Shaw Fabrications Location: Alexander House 257, Hollin Lane, Middleton, Manchester, M24 5LU Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A19NW (NE)	811	7	386516 407537

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
123	Points of Interest - Commercial Services Name: Michael L Shaw Ltd Location: 257 Hollin Lane, Middleton, Manchester, M24 5LU Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A19NW (NE)	814	7	386515 407542
124	Points of Interest - Commercial Services Name: Silverbirch Same Day Location: 7 Barratt Gardens, Middleton, Manchester, M24 5JU Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A17NE (NW)	868	7	385572 407544
125	Points of Interest - Commercial Services Name: Airsafe UK Ltd Location: 11 Spring Gardens, Middleton, Manchester, M24 6DQ Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A9NE (E)	1000	7	387090 406441
126	Points of Interest - Manufacturing and Production Name: Tank Location: M24 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	762	7	386712 406260
127	Points of Interest - Manufacturing and Production Name: S Thomas Location: Langley Lane, Middleton, Manchester, M24 5LJ Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A18NW (N)	842	7	385943 407663
127	Points of Interest - Manufacturing and Production Name: S Thomas Location: Langley Lane, Middleton, Manchester, M24 5LJ Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A18NW (N)	842	7	385943 407663
128	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	972	7	387096 406557
128	Points of Interest - Manufacturing and Production Name: Works Location: M24 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A14SE (E)	972	7	387097 406562
129	Points of Interest - Public Infrastructure Name: Asker Dam Location: M24 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	857	7	385921 405907
129	Points of Interest - Public Infrastructure Name: Asker Dam Location: M24 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	862	7	385920 405902
129	Points of Interest - Public Infrastructure Name: Sluice Location: M24 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	888	7	385923 405874
129	Points of Interest - Public Infrastructure Name: Sluice Location: M24 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	894	7	385914 405870

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	Points of Interest - Public Infrastructure Name: Filter Bed (Disused) Location: M24 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	913	7	386109 405827
130	Points of Interest - Public Infrastructure Name: Filter Bed (Disused) Location: M24 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	913	7	386109 405827
131	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NW (N)	76	7	386090 406911
132	Points of Interest - Recreational and Environmental Name: Play Area Location: M24 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	504	7	385589 407035
132	Points of Interest - Recreational and Environmental Name: Play Area Location: M24 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	575	7	385534 407083
133	Points of Interest - Recreational and Environmental Name: Play Area Location: M24 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	511	7	386494 406391
133	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	511	7	386494 406391
134	Points of Interest - Recreational and Environmental Name: Play Area Location: M24 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12SE (SW)	583	7	385554 406496
135	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	701	7	386467 407439
136	Points of Interest - Recreational and Environmental Name: Play Area Location: M24 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	784	7	385443 406304

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
137	Areas of Adopted Green Belt Authority: Rochdale Metropolitan Borough Council Plan Name: Rochdale Unitary Development Plan Status: Adopted Plan Date: 30th June 2006	A18NW (N)	821	9	385906 407634
138	Nitrate Vulnerable Zones Name: River Irk (Moston Brook To River Irwell) Nvz Description: Surface Water Source: Environment Agency, Head Office	A13NE (E)	0	3	386100 406792

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office Bury Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Oldham Metropolitan Borough Council - Environmental Health Department Manchester City Council - Environmental Health Department	June 2020 October 2013 October 2017 September 2013 September 2014	Annually Annual Rolling Update Annually Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North West Region	January 2021	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - North West Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - North West Region	January 2021	Quarterly
Local Authority Integrated Pollution Prevention And Control Bury Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Oldham Metropolitan Borough Council - Environmental Health Department Manchester City Council - Environmental Health Department	February 2015 July 2014 March 2015 September 2014	Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls Bury Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Oldham Metropolitan Borough Council - Environmental Health Department Manchester City Council - Environmental Health Department	February 2015 July 2014 March 2015 September 2014	Not Applicable Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Bury Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Oldham Metropolitan Borough Council - Environmental Health Department Manchester City Council - Environmental Health Department	February 2015 July 2014 September 2013 September 2014	Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	January 2021	
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - North West Region	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	March 2013	Annual Rolling Update
Registered Radioactive Substances Environment Agency - North West Region	June 2016	
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 West Region - South Area	January 2021	Quarterly
Water Abstractions Environment Agency - North West Region	January 2021	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	October 2017	Quarterly

Agency & Hydrological	Version	Update Cycle
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	October 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	March 2021	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	March 2021	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	March 2021	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	March 2021	Quarterly
Flood Defences Environment Agency - Head Office	March 2021	Quarterly
OS Water Network Lines Ordnance Survey	September 2020	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water Suitability Environment Agency - Head Office	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	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 - Head Office	October 2019	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - South Area	January 2021	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - South Area	January 2021	Quarterly
Local Authority Landfill Coverage Bury Metropolitan Borough Council Manchester City Council - Planning Department Oldham Metropolitan Borough Council Rochdale Metropolitan Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Bury Metropolitan Borough Council Manchester City Council - Planning Department Oldham Metropolitan Borough Council Rochdale Metropolitan Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - North West Region - South Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - South Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - South Area	March 2003	Not Applicable
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Bury Metropolitan Borough Council Manchester City Council - Planning Department Oldham Metropolitan Borough Council Rochdale Metropolitan Borough Council	February 2016 February 2016 February 2016 February 2016	Variable Variable Variable Variable
Planning Hazardous Substance Consents Bury Metropolitan Borough Council Manchester City Council - Planning Department Oldham Metropolitan Borough Council Rochdale Metropolitan Borough Council	February 2016 February 2016 February 2016 February 2016	Variable Variable Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2020	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	January 2021	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2021	Quarterly
Gas Pipelines National Grid	January 2021	
Points of Interest - Commercial Services PointX	March 2021	Quarterly
Points of Interest - Education and Health PointX	March 2021	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2021	Quarterly
Points of Interest - Public Infrastructure PointX	March 2021	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2021	Quarterly
Underground Electrical Cables National Grid	April 2021	

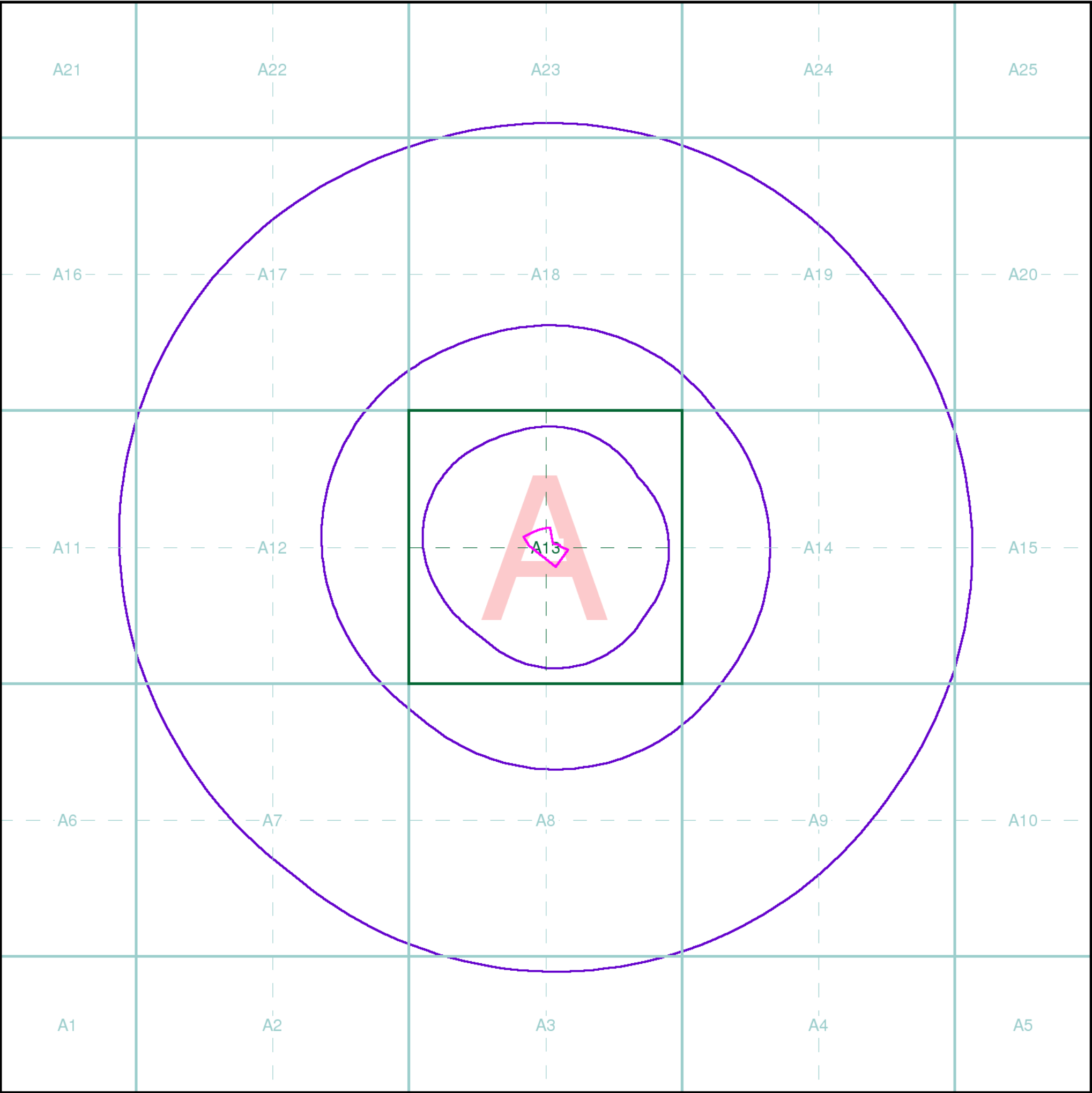
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	February 2021	Bi-Annually
Areas of Adopted Green Belt Bury Metropolitan Borough Council Manchester City Council Oldham Metropolitan Borough Council Rochdale Metropolitan Borough Council	June 2020 June 2020 June 2020 June 2020	As notified As notified As notified As notified
Areas of Unadopted Green Belt Bury Metropolitan Borough Council Manchester City Council Oldham Metropolitan Borough Council Rochdale Metropolitan Borough Council	June 2020 June 2020 June 2020 June 2020	As notified As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	January 2021	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	February 2021	Bi-Annually
Marine Nature Reserves Natural England	July 2019	Bi-Annually
National Nature Reserves Natural England	January 2021	Bi-Annually
National Parks Natural England	April 2017	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2016	Not Applicable
Nitrate Vulnerable Zones Environment Agency - Head Office Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2017 October 2015	Bi-Annually
Ramsar Sites Natural England	August 2020	Bi-Annually
Sites of Special Scientific Interest Natural England	February 2021	Bi-Annually
Special Areas of Conservation Natural England	July 2020	Bi-Annually
Special Protection Areas Natural England	February 2021	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	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
4	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	Rochdale Metropolitan Borough Council - Environmental Health Department P O Box 32, Telegraph House, Ballie Street, Rochdale, Greater Manchester, OL16 1JH	Telephone: 01706 864139 Fax: 01706 864185 Website: www.rochdale.gov.uk
6	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
7	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
8	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
9	Rochdale Metropolitan Borough Council PO Box 15, Town Hall, Rochdale, Greater Manchester, OL16 1AB	Telephone: 01706 647474 Fax: 01706 59475 Website: www.rochdale.gov.uk
10	Bury Metropolitan Borough Council Craig House, Bank Street, Bury, Lancashire, BL9 0DN	Telephone: 0161 253 5000 Fax: 0161 705 5290 Website: www.bury.gov.uk
11	Manchester City Council Town Hall, Albert Square, Manchester, Greater Manchester, M60 2JT	Telephone: 0161 234 5000 Fax: 0161 234 4508 Website: www.manchester.gov.uk
-	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 / Natural Resources Wales / SEPA have a charging policy in place for enquiries.



Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:



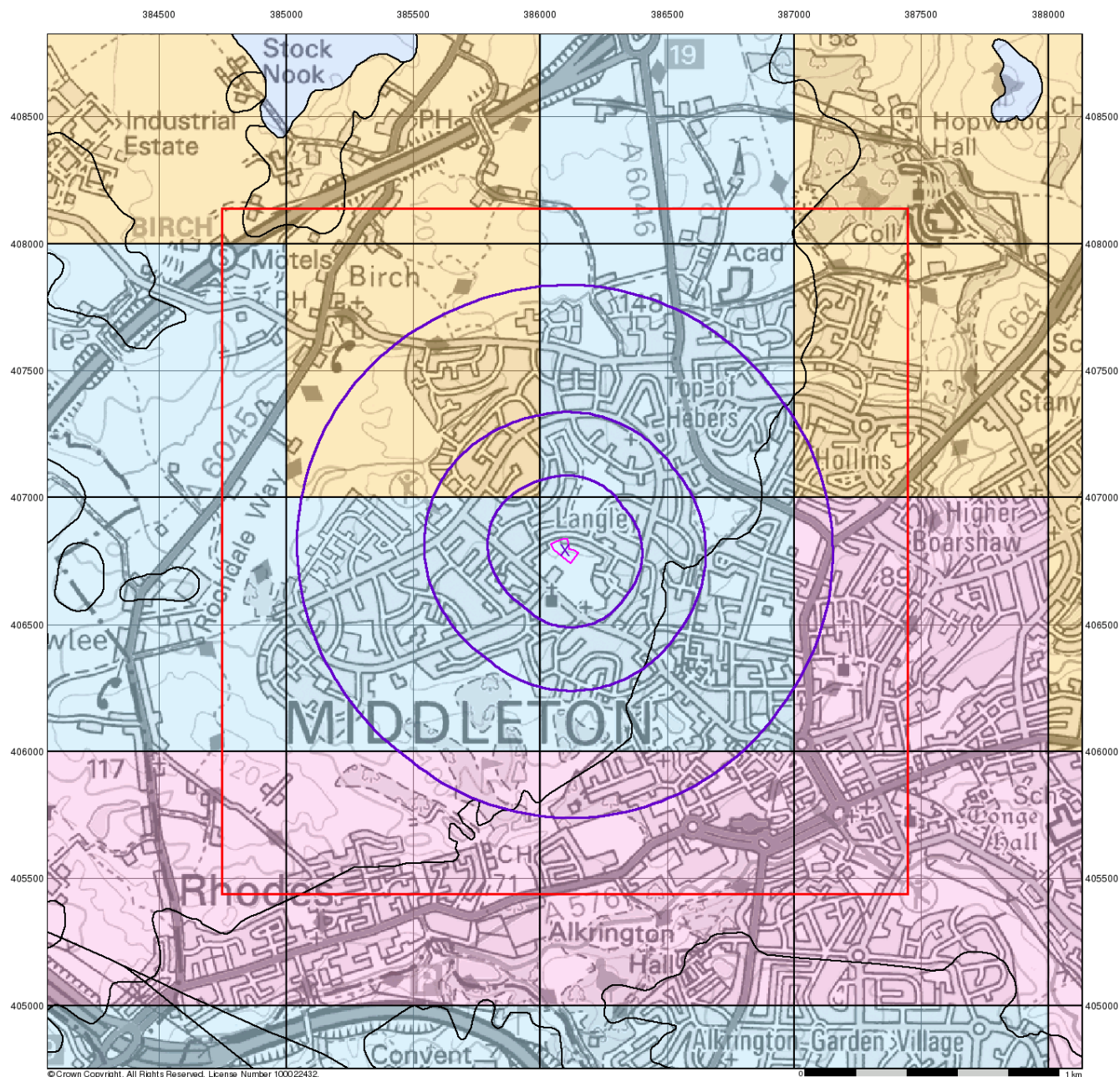
Envirocheck reports are compiled from 136 different sources of data.

Client Details
MR W Baldwin, Sutcliffe Projects Ltd, 18-20 Harrington Street, Liverpool, L2 9QA

Order Details
Order Number: 276916724_1_1
Customer Ref: 31479LG
National Grid Reference: 386100, 406790
Site Area (Ha): 0.51
Search Buffer (m): 1000

Site Details
Borrowdale Road, Middleton, Manchester, M24 5QG

Full Terms and Conditions can be found on the following link:
<http://www.landmarkinfo.co.uk/Terms/Show/515>



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Groundwater Vulnerability

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Bedrock Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

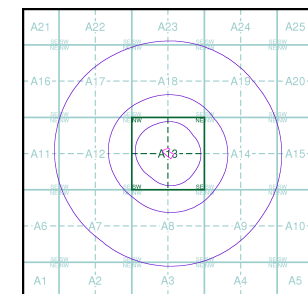
Superficial Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

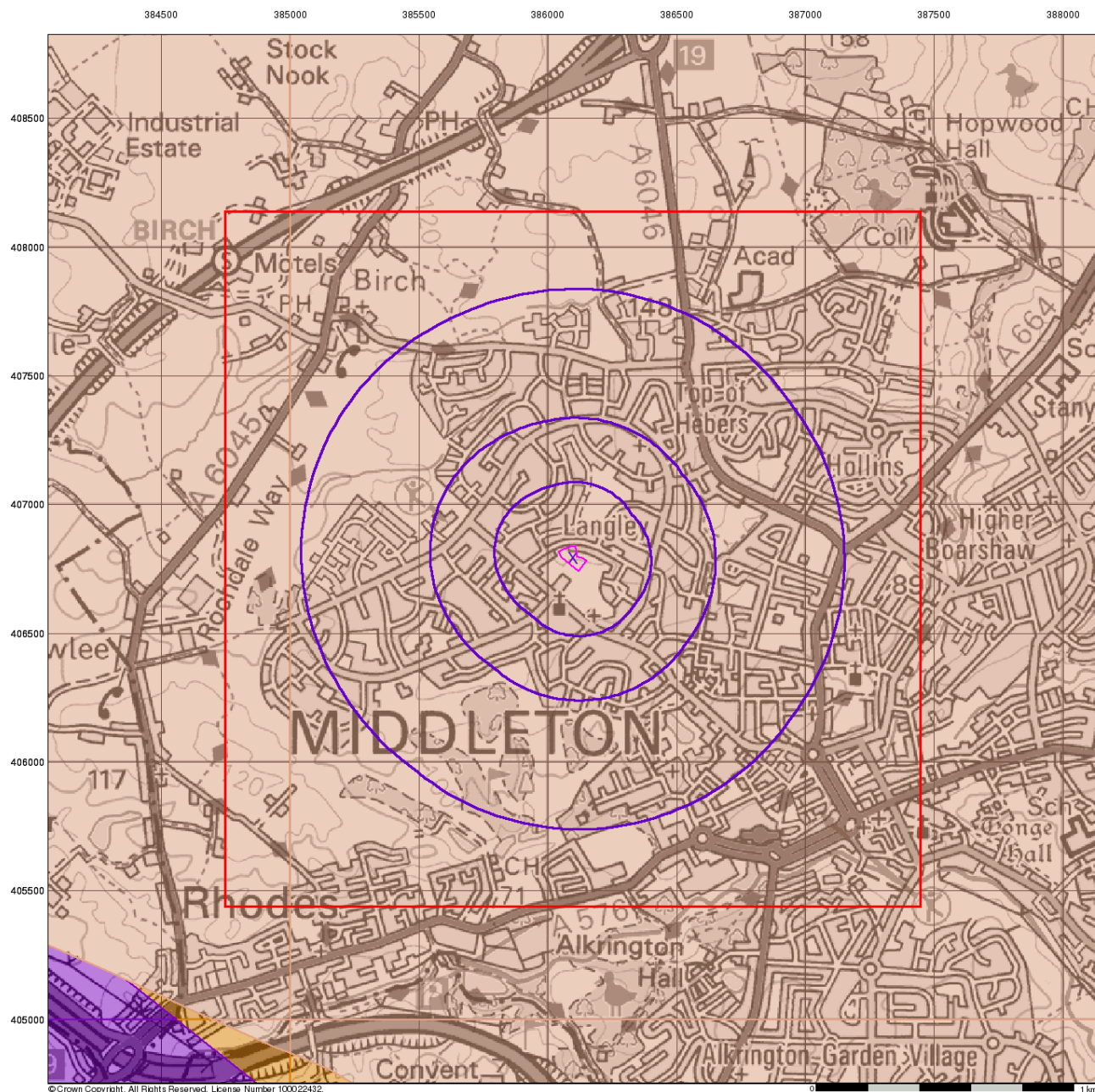
Order Number: 276916724_1_1
 Customer Ref: 31479LG
 National Grid Reference: 386100, 406790
 Slice: A
 Site Area (Ha): 0.51
 Search Buffer (m): 1000

Site Details

Borrowdale Road, Middleton, Manchester, M24 5QG

Landmark
 INFORMATION GROUP

Tel: 0844 844 9952
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 Web: www.envirocheck.co.uk



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Bedrock Aquifer Designation

General

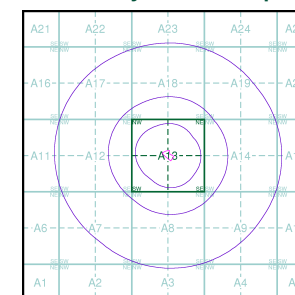
- ◆ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- Ⓜ Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

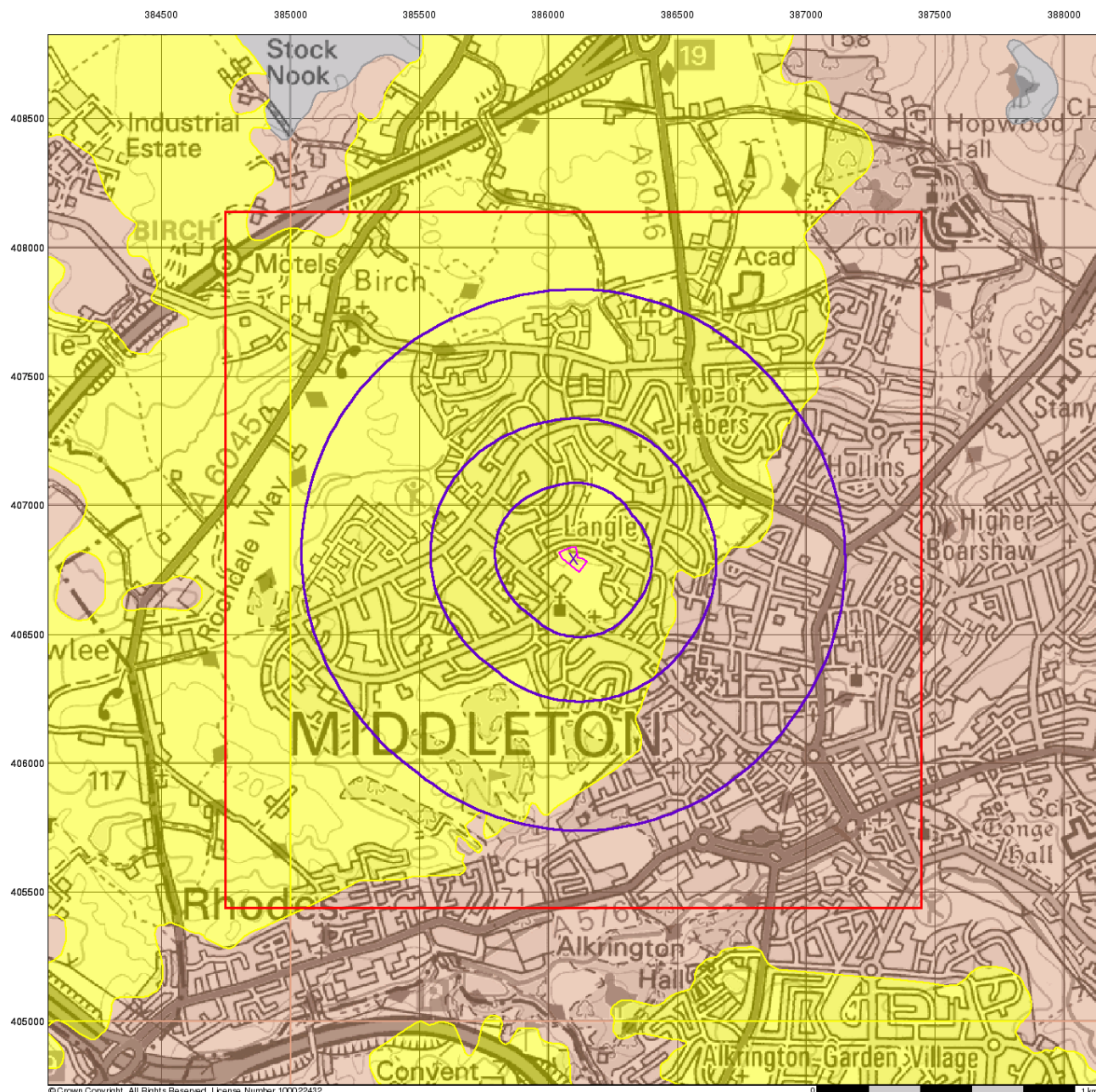
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 Customer Ref: 31479LG
 National Grid Reference: 386100, 406790
 Slice: A
 Site Area (Ha): 0.51
 Search Buffer (m): 1000

Site Details

Borrowdale Road, Middleton, Manchester, M24 5QG



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Superficial Aquifer Designation

General

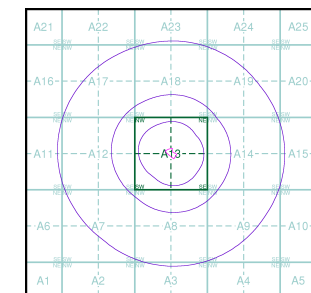
- Specified Site
- Specified Buffer(s)
- Slice
- Map ID
- Bearing Reference Point

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

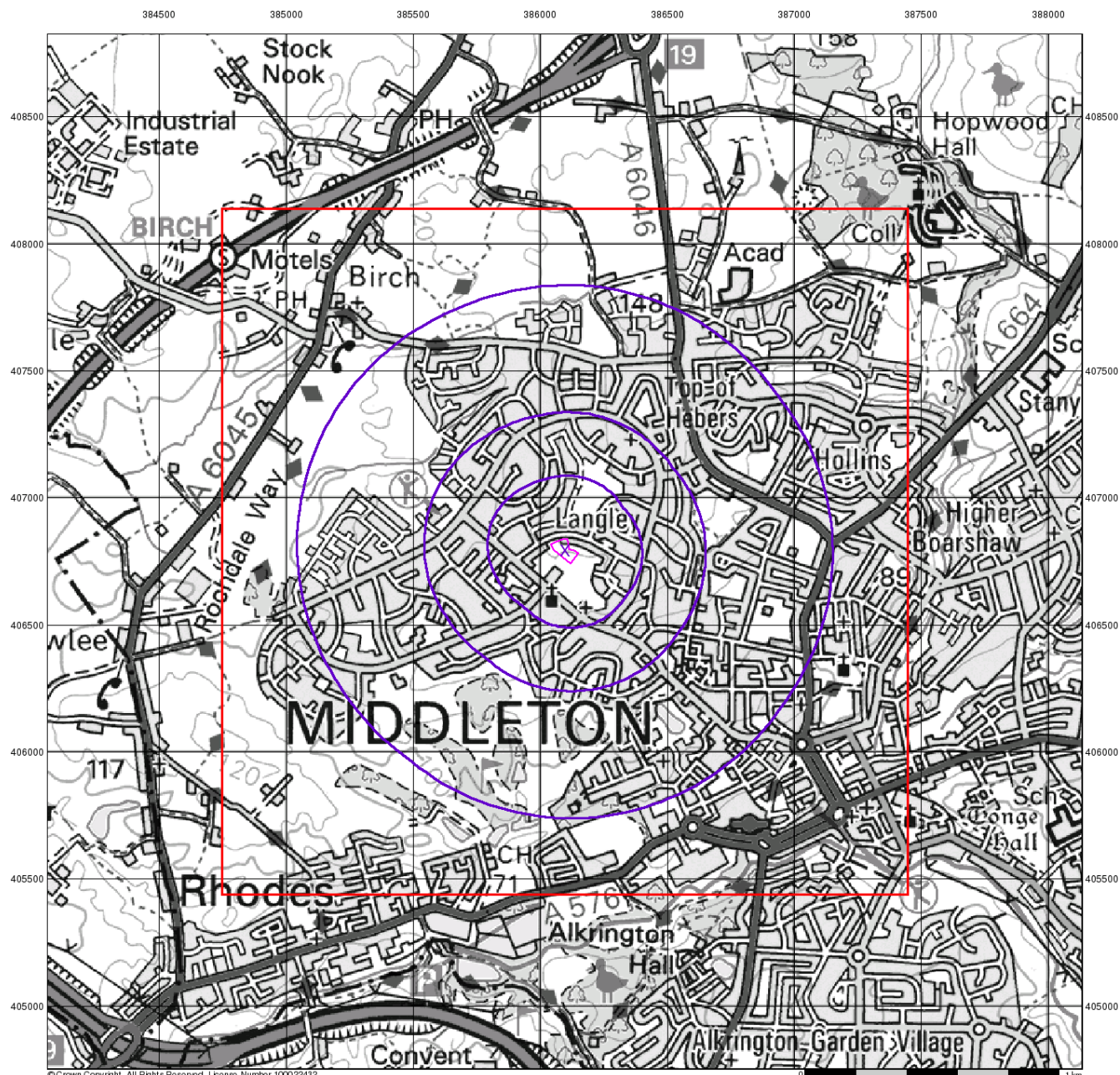
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 Customer Ref: 31479LG
 National Grid Reference: 386100, 406790
 Slice: A
 Site Area (Ha): 0.51
 Search Buffer (m): 1000

Site Details

Borrowdale Road, Middleton, Manchester, M24 5QG



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Source Protection Zones

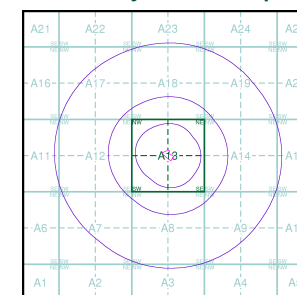
General

- ◆ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- B Map ID

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)

Site Sensitivity Context Map - Slice A



Order Details

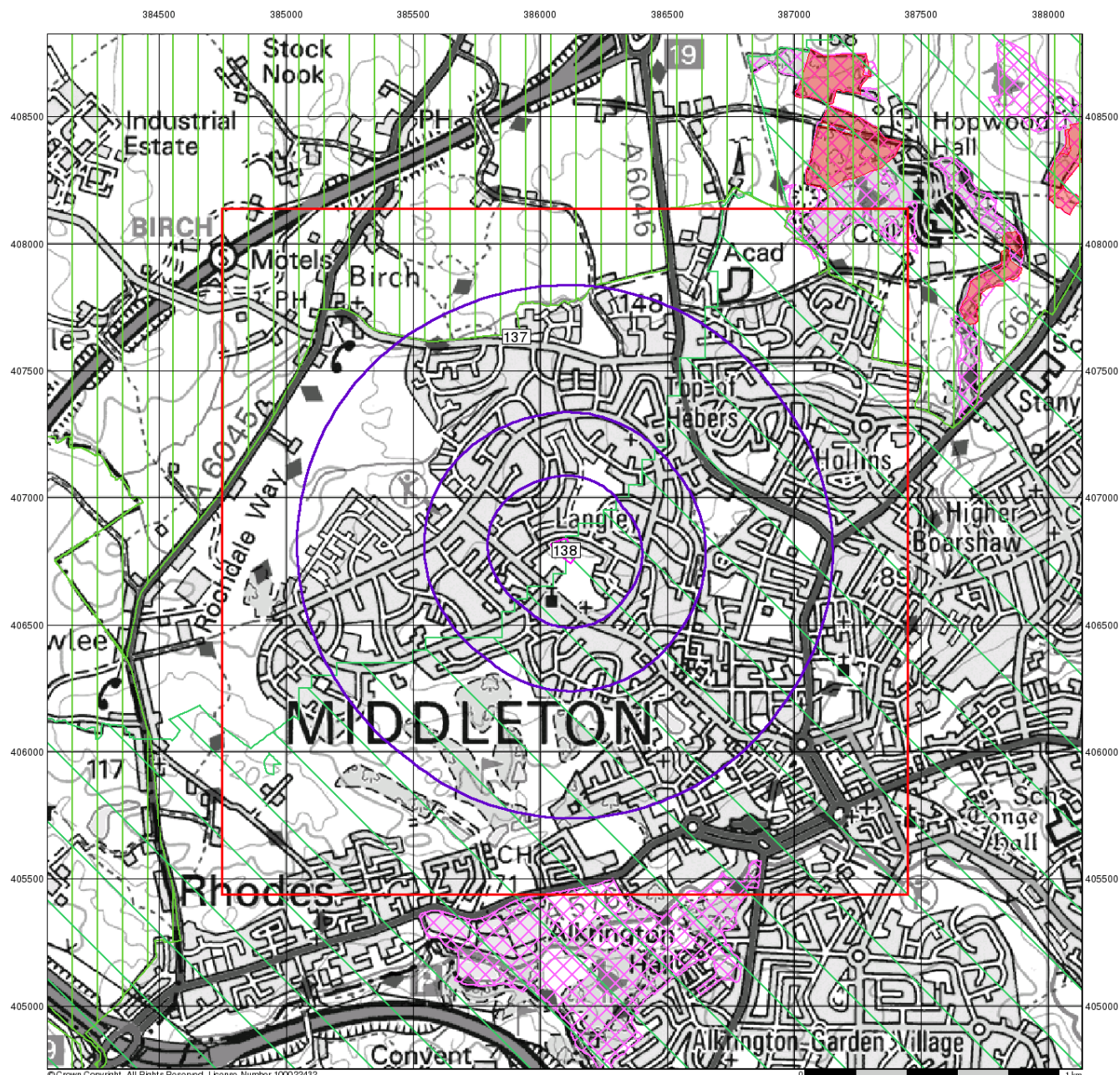
Order Number: 276916724_1_1
 Customer Ref: 31479LG
 National Grid Reference: 386100, 406790
 Slice: A
 Site Area (Ha): 0.51
 Search Buffer (m): 1000

Site Details

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Landmark
 INFORMATION GROUP

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Sensitive Land Uses

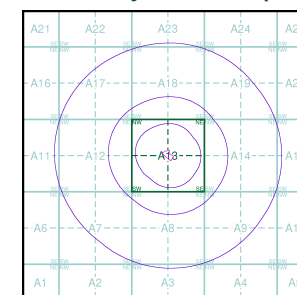
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Sensitive Land Uses

- Ancient Woodland
- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area
- World Heritage Sites

Site Sensitivity Context Map - Slice A



Order Details

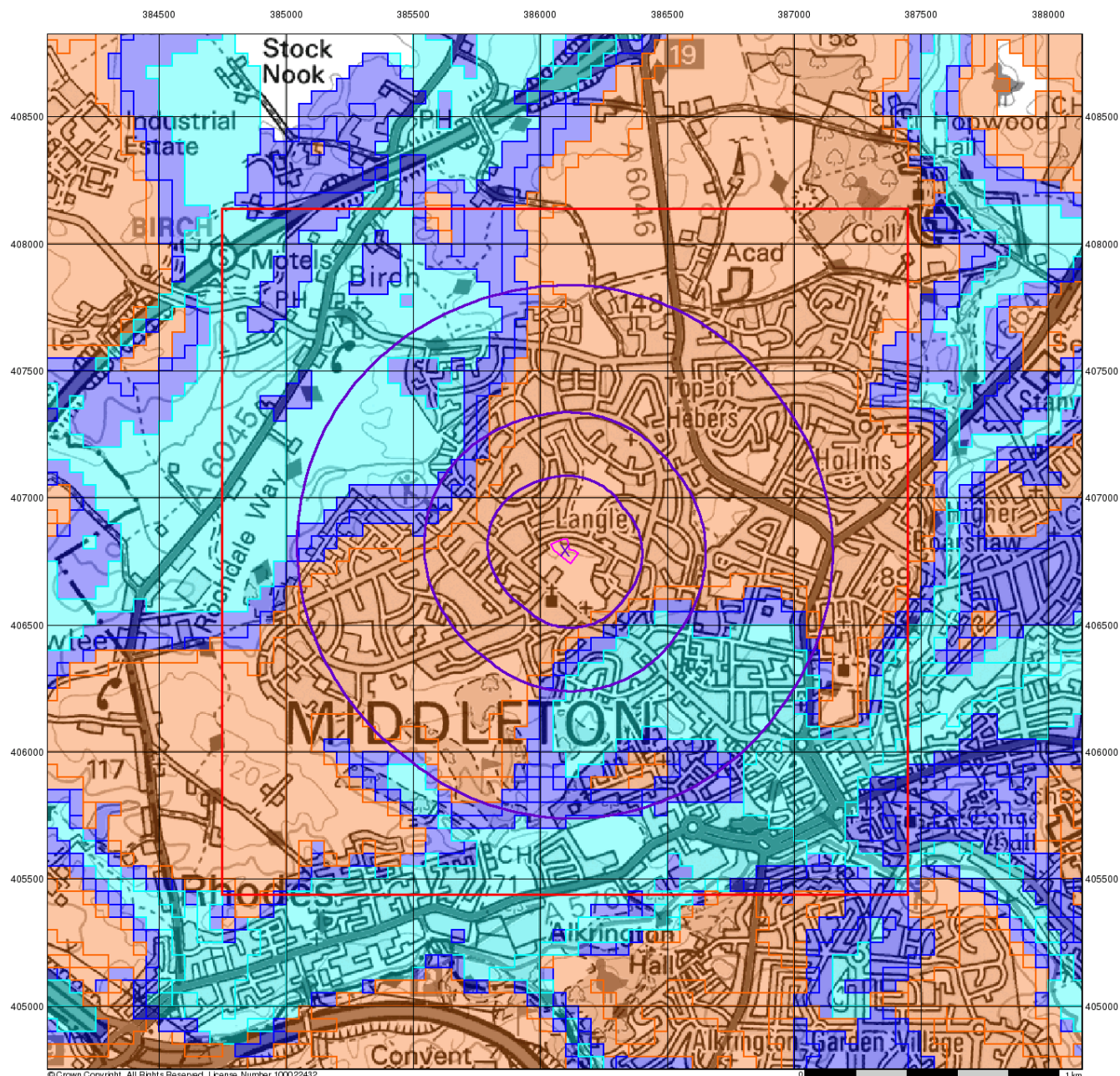
Order Number: 276916724_1_1
 Customer Ref: 31479LG
 National Grid Reference: 386100, 406790
 Slice: A
 Site Area (Ha): 0.51
 Search Buffer (m): 1000

Site Details

Borrowdale Road, Middleton, Manchester, M24 5QG



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 Web: www.envirocheck.co.uk



BGS Flood GFS Data

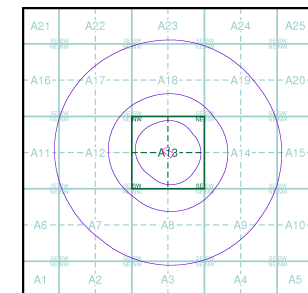
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 276916724_1_1
 Customer Ref: 31479LG
 National Grid Reference: 386100, 406790
 Slice: A
 Site Area (Ha): 0.51
 Search Buffer (m): 1000

Site Details

Borrowdale Road, Middleton, Manchester, M24 5QG



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

General

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

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral
- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

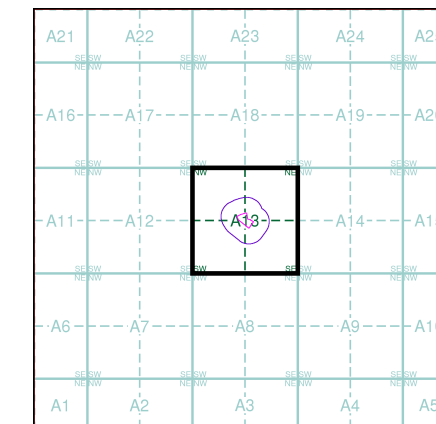
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13



Order Details

Order Number: 276916724_1_1
 Customer Ref: 31479LG
 National Grid Reference: 386100, 406790
 Slice: A
 Site Area (Ha): 0.51
 Plot Buffer (m): 100

Site Details

Borrowdale Road, Middleton, Manchester, M24 5QG

