

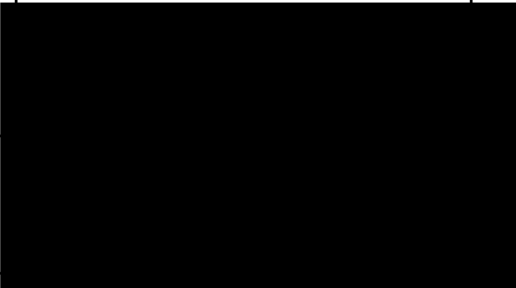
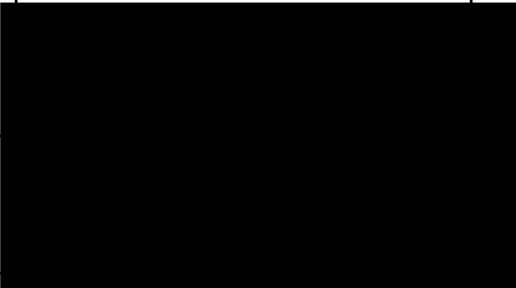
PHASE I PRELIMINARY CONTAMINATION RISK ASSESSMENT



SALESBURY VIEW ROAD, WILPSHIRE, LANCASHIRE, BB1 9PL
PERSIMMON HOMES (LANCASHIRE) LIMITED



QUALITY CONTROL

Project No.	GEOL19-9938	Client	Persimmons Homes (Lancashire) Limited
Report Type	Phase I Preliminary Contamination Risk Assessment		
Project Type	Proposed Residential Development		
Site Address	Salesbury View Road, Wilpshire, Lancashire, BB1 9PL		
NGR	368890, 431810		
Date	06/11/2019		
Approved by			
Qualifications			
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Prepared by			
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REPORT REVISION HISTORY				
Issue	Description	Date	Author	Approval
2	Final Issue	06/11/2019	RS	TMc

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INTRODUCTION

Geol Consultants Limited (GEOL) were instructed by Persimmon Homes (Lancashire) Limited to undertake a Phase I Preliminary Contamination Risk Assessment for an area of undeveloped land situated to the east of Salesbury View Road in the Lancashire town of Wilpshire. There are proposals to develop the land with residential housing and road infrastructure. An area of public open space is designated along the route and adjacent to the overhead electricity pylons.

The purpose of this report is to provide information relating to the following;

- ▼ Identify the environmental setting and likely ground conditions for the site, including details relating to the deeper geology, hydrogeology, hydrology and mining
- ▼ Identify the sites previous development history, usage and activities with a view to determining any potential contaminants associated with the recorded site history and to assess the impacts from those contaminants towards the future site end-users (Human Health) and nearby sensitive receptors (Controlled Waters)
- ▼ Establish a preliminary Conceptual Site Model (CSM) and to identify all potential source, pathway and receptor linkages
- ▼ Assess all potential sources of hazardous ground gas generation
- ▼ Determine the scope of any further investigation works required for the site prior to commencing with any future development works

As part of this Phase I Preliminary Contamination Risk Assessment, a reconnaissance (walkover) survey was undertaken which involved an inspection of the site and immediate surrounding area. Site photographs taken during this survey can be seen in Appendix I and all relevant observations are noted in the Site Details & Description section on the following page.

A review of currently available information from the following data sources has been undertaken to assist in the completion of this technical report;

- ▼ British Geological Survey (BGS); geological maps and historical borehole records, where available
- ▼ Landmark Information Group, Envirocheck Report; including Ordnance Survey (OS) maps
- ▼ The Coal Authority; Online Interactive Map Viewer
- ▼ Environment Agency / GOV.UK
- ▼ Relevant guidance documents; these are listed within the report text, where applicable

SITE DETAILS & DESCRIPTION

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All relevant details and descriptions relating to the proposed development area (site) have been summarised in the Table below.

Detail	Description
Site address and access	Salesbury View Road, Wilpshire, Blackburn, Lancashire, BB1 9PL. Access to the site is via a field gate located on Salesbury View Road, leading from Whalley Road.
NGR	368890, 431810
Approximate size	6.23 Ha
Current site use	The site is currently undeveloped agricultural grazing land and was occupied by grazing cattle at the time the reconnaissance (walkover) survey was undertaken.
Proposed site use	Residential housing with private gardens and road infrastructure. An area of public open space is proposed along the route of and adjacent to the existing overhead electric pylons.
Surrounding land uses	Residential housing and agricultural land.
Site topography	The site displays a downslope gradient in a westerly and southerly direction, falling towards Salesbury View Road and Knotts Brook. Site levels range from c.177m on the northern part of the site to c.148m over the southern part of the site. Beyond the southern field boundary, the land falls towards Knotts Brook, from a level of c.148m to a bank at level of c.142m. This bank slopes towards Knotts Brook with the bottom of the slope recorded at c.136m AOD.
Site observations	The site is currently a large 'Greenfield' site used mainly for grazing, with some small trees and bushes present along the field boundaries. Two electricity pylons are recorded on site which relate to the national grid. The southern and south-eastern portions of the site, beyond the agricultural field boundaries, are occupied by woodland which bound Knotts Brook.
Historical site features / activities	The site area has remained undeveloped in accordance with Ordnance Survey (OS) maps dating back to c.1893 until the present. During this time the site is likely to have been agricultural land with trees and bushes alongside boundaries. By c.1956 the site was shown to be occupied by two electricity pylons. A historical track is shown to cross the site from Whalley Road trending towards a Quarry located to the north-east of the site.
Historical adjacent features / activities	Buildings surrounding the north, south and westerly portion of the site were recorded from as early as c.1893, with a quarry shown within c.250m to the north-east of the site. The quarry is no longer recorded by c.1973 and is recorded to have been developed with residential properties by c.1993.
Additional comments	The ground surface is noted to be heavily saturated / waterlogged. An electric fence surrounds the boundary of the two fields, with grazing cattle occupying the southern fields. An area of unmanaged / overgrown vegetation was noted on the north-western portion of the site, with occasional Himalayan Balsam noted.

HISTORICAL MAP REVIEW

Copies of OS maps covering the site and adjacent land are contained within the Landmark Information Group, Envirocheck Report included in Appendix II. The information contained within the Table below has been based on available OS maps and the observations noted during the reconnaissance (walkover) survey completed.

OS map date	Site	Adjacent areas
1893 to 1912	The site is undeveloped, likely to be agricultural fields. A track crosses the site from Whalley Road towards a quarry located to the north-east of the site. A small cutting feature is recorded on the central western portion of the site.	Buildings are recorded to the north, south & west of the site. A quarry is recorded c.100m to the north-east of the site. The site is bounded by occasional trees and bushes. A spring is recorded to the east of the site and a small beck is shown to the south of the site known as Knotts Brook.
1912 to 1966	A tank is shown on the north-east corner of the site by c.1931, likely to be used for water. Electricity pylons have been erected on the southern portion of the site between c.1937 & c.1956.	Further developments are recorded to the north, south & west of the site. The quarry is recorded as disused.
1966 to 1993	Site remains unchanged.	Further developments to the north, south & west of the site. The quarry to the north-east of the site is no longer recorded.
2019	The historical records show that the site has remained undeveloped and is currently being used for primarily for grazing. Two electricity pylons are recorded on the southern portion of the site. Site access is via Salesbury View Road through a farm gate. The site slopes from the north-east of the site to the south-west. Standing water / waterlogged conditions are present across the site. The site is bound by fencing, stone walls, electric fencing and occasional trees and bushes, with a water course to the south of the site known as Knotts Brook.	The surrounding area to the site is predominantly residential.

GROUND CONDITIONS

Site Geology

No made ground / fill deposits are recorded on site in accordance with published BGS maps (Sheet 76, Rochdale, Bedrock and Superficial, 1:50 000 series, dated 2008). However, some localised made ground / disturbed deposits may be present over some parts of the site.

Glacial Till Deposits are initially recorded over the majority of the site, which normally comprise firm (medium strength) and stiff (high strength), sandy, gravelly clay deposits, often containing cobbles and boulders. The Glacial Till Deposits are shown to be absent on the far northern portion of the site, where shallow bedrock deposits are anticipated. The underlying bedrock deposits are shown to be split below the site, with the Worley Wise Grit which is part of the Pendleton Formation of Carbonaceous age, comprising of sandstone and carbonaceous fissile mudstone deposits shown below the northern portion of the site. These deposits are likely to be at or close to the surface on the northern portion of the site where Glacial Till deposits are noted to be absent. The bedrock deposits on the southern portion of the site are shown to consist of the Silsden & Samlesbury Formation of Carbonaceous age, comprising of sandstone, siltstone, mudstone and subordinate marine black shales. The above formations form part of the larger rock unit known as the Millstone Grit Group.

Coal Mining Risk Assessment (CMRA)

The Millstone Grit Group is generally absent of productive coal seams. The site does not fall within a coal mining reporting area, or a development high risk area (DHRA) in accordance with The Coal Authority Online Interactive Map Viewer. The site is not deemed to be at risk from potential future surface instability issues arising from historic shallow coal mining activities and as a result no further assessment or intrusive investigation works are required. Similarly, there is no potential risk from mine gases impacting the site.

Surface Mineral Extraction / Quarrying

Based on OS maps dating from as early as c.1893 to c.2019, there is evidence of mineral extraction beyond the boundary of the site at a lateral distance of approximately c.100m to the north-east. Based on the anticipated geology this is likely to have been a sandstone quarry. The quarry is recorded from as early as c.1848 and is shown to be disused by c.1931. Between c.1956 and c.1973 the quarry is no longer recorded and by c.1993 the western portion is redeveloped with residential properties.

Landfill & Waste

The Landmark Information Group, Envirocheck Report records a Historical Landfill Site to the north, likely to be associated with the quarry. Infilling commenced from c.1955 and deposited waste is noted to be inert and industrial waste. When considering the deposited waste used to be backfill the quarry is noted to be commercial / industrial, this is generally assigned to wastes which are defined as being neither chemically or biologically reactive and will not decompose over time (i.e. brick, concrete, clay, sand and the like). These types of materials should not give rise to significant landfill gas generation. The quarry is also recorded upgradient of the site and therefore the risk of any landfill gas, if present, affecting the site is considered to be very low.

Radon Assessment

The BRE Digest, BR211 (2015) Radon: Guidance on protective measures for new buildings, indicates the site to lie within a clear grid square (1km), indicating that no radon protective measures would be required for new structures. Furthermore the Landmark Information Group, Envirocheck Report shows the site to lie on the boundary of a lower and intermediate probability radon area, where <1% of homes are estimated to be or above the action level, in accordance with data held by the BGS, and their assessment suggests that no radon protection measures are necessary in the construction of new dwellings or extensions.

Based on the available radon data available, the site falls within an area where radon protection measures are not required.

Hydrogeology

The Glacial Till Deposits below this site have been designated as a Secondary Aquifer – Undifferentiated. 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 strata type. The Millstone Grit Group has been designated as a Secondary Aquifer – A. This Aquifer designation has been assigned where permeable layers are 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.

When considering the anticipated ground conditions, a shallow continuous groundwater surface is not anticipated to be present below this site within the underlying Glacial Till Deposits. Deep groundwater is anticipated at depth within the solid geology.

Hydrogeology (Cont'd)

The site is not recorded within a Source Protection Zone (SPZ). There are no Water Abstractions recorded within 1km from the site boundaries.

The whole of the site is shown to lie within an area with a limited potential for groundwater flooding to occur, however when considering the anticipated ground conditions (i.e. 'Boulder Clay') significant groundwater flooding is considered unlikely.

Hydrology

Knotts Brook bounds the site to the south-east and south, flowing in a general westerly direction. A spring is located on the north-eastern portion of the site.

The site lies within a Flood Zone 1, an area with a low probability of flooding with <1 in 1000 chance of fluvial flooding occurring (<0.1%), and therefore this site is unlikely to be at significant risk from future flooding. According to the GOV.UK Long Term Flood Risk Information Interactive Map, a linear ribbon situated at the north-west portion of the site is shown to lie within an area at low (between 0.1% & 1.0%) risk of surface water flooding.

During the reconnaissance (walkover) survey it was noted that there is significant standing surface water / waterlogged ground conditions across the site, and surface water was noted to be flowing from the site onto Salesbury View Road. Appropriate surface water management will need to be adopted to deal with the future management of positively drained surface water, when considering the development of this site.

Site Ecology

The site lies within an Area of Adopted Green Belt in accordance with the Ribble Valley District Wide Local Plan, dated 1998. There are no other sensitive land uses recorded within c.250m of the site. From the reconnaissance (walkover) survey completed, there was evidence to suggest the site is affected by the presence of the invasive weed species Himalayan Balsam. A detailed survey will be required as it lies outwith the scope of this report.

REGULATORY DATABASE

The information given in the Table below has been obtained from a commercially available database and is contained within the Landmark Information Group, Envirocheck Report included in Appendix II. The summary Table below only includes records not otherwise detailed in the report.

Data type	0 – 249m	250 – 500m	Details
Contaminated Land Register	0	0	None recorded
Discharge Consents	1	3	The closest is recorded c.125m to the west of the site which is operated by United Utilities and the discharge type is noted as Public Sewage: Storm Sewage Overflow of fresh water into Showley Brook and is not directly attributable to the site
Prosecutions relating to Controlled Waters	0	0	None recorded
Local Authority Pollution Prevention and Controls	0	1	Petrol Filling Station situated c.413m north-west of the site
Pollution Incidents to Controlled Waters	1	19	One recorded within the boundary of the site. This is recorded as a Category 3 – Minor Incident, associated with inert suspended solids entering Showley Brook, which is recorded to the west of Whalley Road. Whilst recorded on site this is not felt to be attributable to site
Substantiated Pollution Incident Register	0	2	Two incidents recorded in c.2006, noted as Category 2 – Significant Incidents with one noted to be associated with crude sewage recorded c.330m to the north-west
Control of Major Accident Hazards Sites (COMAH)	0	0	None recorded
Planning Hazardous Substance Consents	0	0	None recorded
Contemporary Trade Directory Entries (CTDE)	10	8	Closest is Revive Blackburn Garage Services c.15m south-west of the site
Fuel Station Entries	0	1	Petrol station located c.436m south-west of the site

The risks posed towards Human Health or environmental receptors (Controlled Waters) is based on an assessment of one or more source-pathway-receptor linkages. The source is any substance which has the potential to cause significant harm to a relevant receptor and the pathway is any route by which contamination may travel to impact on a receptor. The preliminary Conceptual Site Model (CSM) summarises the principal contaminant sources, pathways and receptors for this site and the likelihood of the existence of a pollutant linkage. The significance of the potential source-pathway-receptor linkages identified within the preliminary CSM can be assessed using the following criteria;

- ▼ LOW risk – not likely to cause significant harm to Human Health or Controlled Waters. Remedial measures are not likely to be required
- ▼ MEDIUM risk – it is possible that significant harm to Human Health or Controlled Waters could occur depending on site specific circumstances. Remedial measures may be required to mitigate potential risks
- ▼ HIGH risk – it is likely that significant harm to Human Health or Controlled Waters will occur unless appropriate remedial measures are incorporated into the development

The potential pollutant linkages pertaining to the site and the assessed significance are summarised in the preliminary CSM Table on the following page. The risk of significant contamination being present on this site is LOW based on the recorded site history / activity.

The site area has remained undeveloped in accordance with OS maps dating back to c.1893 until c.2019. During this time, trees and bushes bound the field margins of the site. By c.1956 the only development on the site is the erection of two electricity pylons. Woodland is recorded to the south-east & south.

The reconnaissance (walkover) survey confirmed no obvious evidence of any recent, unrecorded development on the site or change in activity from this time where the site was still being used mainly for agricultural / grazing purposes. Therefore, with respect to soil contamination, there appears to be no plausible significant sources of ground contamination noted on this site based on the data sources reviewed.

To determine the suitability of the soil deposits overlying the site for their intended end-use, representative samples of soil should be screened for standard metals and semi-metals including; As, Cd, Cr (III & VI), Cu, Hg, Ni, Pb, Se, Zn, CN, as well as Polycyclic Aromatic Hydrocarbons (PAH's) 16 USEPA Specification and Asbestos.

Consideration may need to be given to the protection of new service pipes which are to be incorporated into the new residential development, and therefore a supplementary suite of contamination testing (UKWIR suite) may be required to meet the requirements of the Utility service providers to satisfy their own pipe selection risk assessment (PSRA), once the location and depth of future services have been determined.

Potential source	Pathway	Receptor	Pollutant linkage / assessed risk
This site is effectively Greenfield and such only limited layers of made ground / disturbed deposits are anticipated to be present	Dermal contact and ingestion / inhalation of contaminated soil and dust	Construction workers and end-users	LOW risk
	Air – Inhalation of vapours (indoor & outdoor)		LOW risk
	Plant uptake, consumption of homegrown vegetables	End-users	LOW risk
	Migration through services	End-users	LOW risk
	Direct contact with building materials	Building materials (concrete)	LOW risk
	Surface run-off, vertical and lateral infiltration / leaching and migration of mobile contaminants	Surface watercourse (c.10m south) and groundwater (Secondary A Aquifer)	LOW risk
	Contaminated soils	Flora and Fauna	LOW risk
Ground gas – associated with historical quarry to the north-east	Asphyxiation, fire & explosion	End-users	LOW risk

The natural ground conditions below the site are expected to comprise firm (medium strength) and stiff (high strength) sandy, clay deposits (Glacial Till) before encountering bedrock deposits. The Glacial Till deposits are noted to be absent on the northern portion of the site. The anticipated ground profile for this site has been summarised in the Table below.

Strata type	Anticipated thickness	Groundwater	Comments
Made Ground	<1m	Not present	For most of the site made ground deposits are anticipated to be absent
Topsoil	Up to 0.50m	The ground surface is noted to be saturated / waterlogged	Topsoil deposits are anticipated
Glacial Till Deposits	>10m	This strata has been designated as a Secondary Differentiated Aquifer. A shallow continuous groundwater surface (water table) is not anticipated to be present within the Glacial Till Deposits. Trapped pockets of water may be present	The Glacial Till Deposits are anticipated to be firm (medium strength) and stiff (high strength) deposits. Anticipated to be thin or absent on the northern portion of the site
Pendleton Formation and Silsden & Samlesbury Formation (Millstone Grit Group)	>100m	Groundwater levels within this formation are expected to be present at depths >20m below site levels. This stratum has been designated as a Secondary A Aquifer	This formation comprises alternations of sandstone, siltstone and mudstone, and are absent of productive coal seams

A summary of the anticipated potential risks associated with the geotechnical issues and hazards identified for this site can be seen in the Table on the following page. The definitions for the allocated level of risk(s) are as follows;

- ▼ LOW risk – unlikely to impact on the proposed development
- ▼ MEDIUM risk – may have a significant impact on the proposed development
- ▼ HIGH risk – likely to have a significant impact on the proposed development

GEOTECHNICAL RISK ASSESSMENT (CONT'D)

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Issue or hazard	Level of potential risk	Comments
Made ground	LOW risk	Only limited thicknesses of made ground deposits, if any, are expected over some parts of the site
Relic sub-surface structures	LOW risk	Due to the lack of recorded historical activity, relic subsurface structures are not expected to be present below the site
Natural deposits	LOW risk	The natural deposits below most of the site, are anticipated to comprise mainly of firm (medium strength) and stiff (high strength) sandy, gravelly clays. Although these are anticipated to be thin or absent on the northern portion of the site
Stability of excavations	LOW risk	The anticipated natural clay deposits, where excavated should remain stable within shallow / building related excavations
Shallow groundwater	LOW risk	A continuous groundwater surface is not anticipated to be present below the site area
Shallow coal workings	LOW risk	The site is not underlain by shallow coal-bearing stratum
Mine entries (shafts / adits)	LOW risk	There are no records of mine entries on this site
Control of surface drainage	LOW to MEDIUM risk	Conventional SuDS (i.e. soakaways) are unlikely be feasible for this site, given anticipated nature of natural deposits (clays)
Flooding	LOW risk	The site lies within a Flood Zone 1

Based on the various data sources reviewed, the foundation options given in the Table below are likely to be available for the proposed residential development. However, prior to the commencement of the proposed development, it is recommended that a programme of appropriate intrusive investigation work is carried out across the site to determine the ground conditions with more certainty.

Foundation type	Anticipated depth to bearing stratum	Maximum allowable bearing pressure	Comments
Strip foundations	Between 1.00m to 2.50m	Between 75kN/m ² to 150kN/m ²	Conventional strip foundations are likely to be available for the site, given the anticipated ground conditions, although foundations may need to be deepened where made ground deposits are present, or high-water demand trees are present within an influencing distance.

It is recommended that appropriate site-specific investigation works forming a detailed Phase II Ground Investigation be completed for this site, prior to commencing with the proposed residential development to determine the actual ground conditions present below the site. This investigation should include for the following, or similar exploratory work;

- ▼ A series of windowless sampling boreholes and mechanically excavated trial pits, including appropriate insitu geotechnical testing (hand shear vane testing, CBR's and SPT testing) as well as sampling to help aid with future foundation design for the proposed development, and to collect samples for subsequent laboratory contamination analysis.
- ▼ Installation of combined ground gas and groundwater monitoring wells accompanied by an appropriate number of monitoring visits, in accordance with CIRIA C665 to determine the ground gas and groundwater regime below the site.
- ▼ Appropriate geotechnical laboratory testing, to include particle size distribution, liquid and plastic limit testing, pH and soluble sulphate testing.
- ▼ Laboratory contamination screening on selected samples of the shallow soil deposits to assess the risks posed to Human Health (end-users and construction workers). The samples of soil collected should also be forwarded to a UKAS and MCERTS accredited laboratory.
- ▼ Site supervision and production of a factual and interpretive Phase II Ground Investigation Report, including a Ground Contamination Risk Assessment.

Parts of the site may prove difficult to investigate, during Phase II investigation works due to the presence of standing water / saturated ground surface.

Prior to site investigation works commencing on site, all existing utilities / services should be identified and recorded, such that any potential damage to services crossing the site can be prevented, as well as ensuring the Health and Safety of all future site workers.

End of Report



APPENDIX I

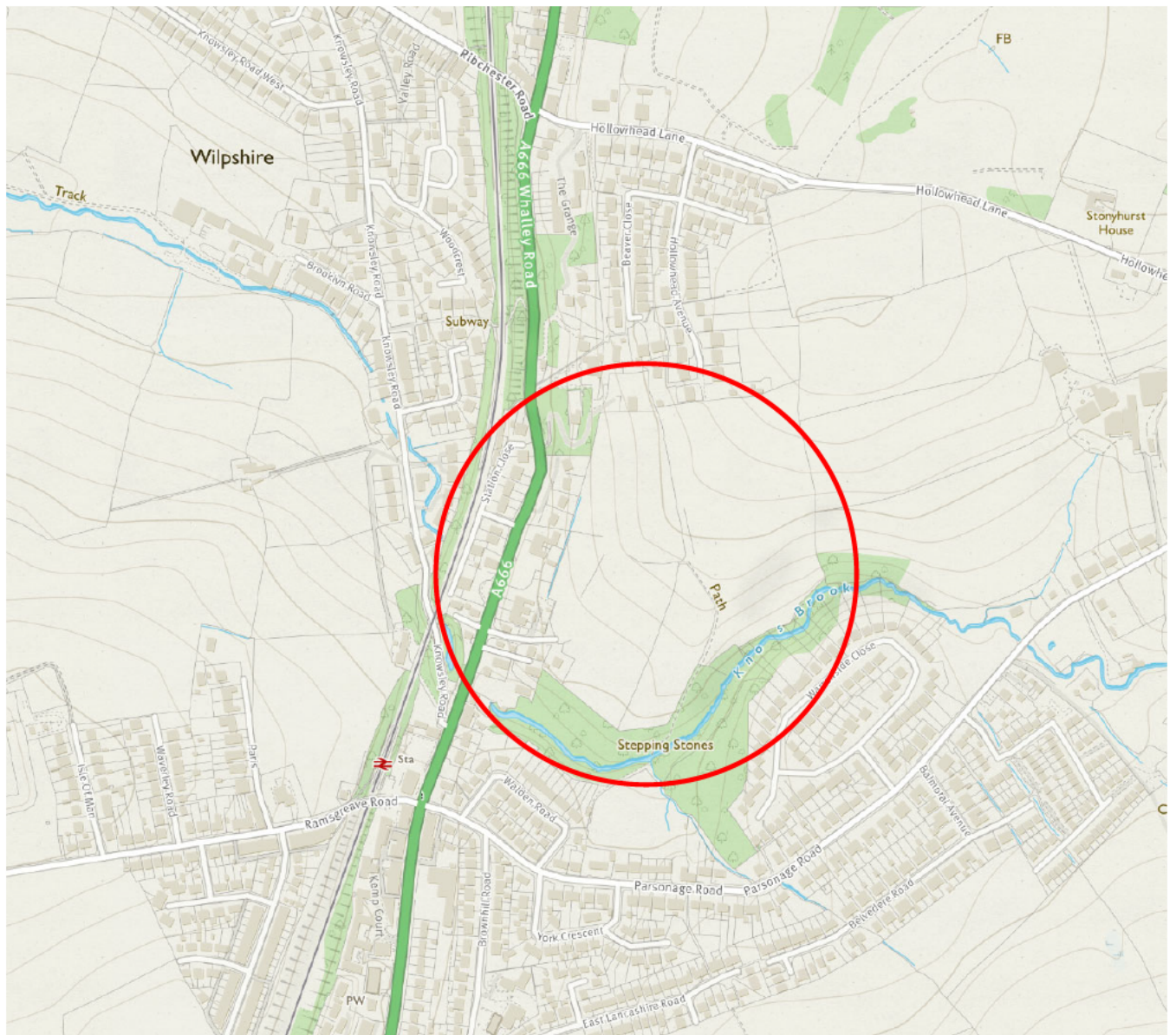
SITE LOCATION PLAN SITE PHOTOGRAPHS EXISTING SITE LAYOUT PLAN (TOPOGRAPHICAL SURVEY) & PROPOSED DEVELOPMENT LAYOUT PLAN



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 SITE LOCATION PLAN

Report Type: Phase I Preliminary Contamination Risk Assessment
Site Address: Salesbury View Road, Wilshire, Lancashire, BB1 9PL
Project No.: GEOL19-9938



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Plate 1

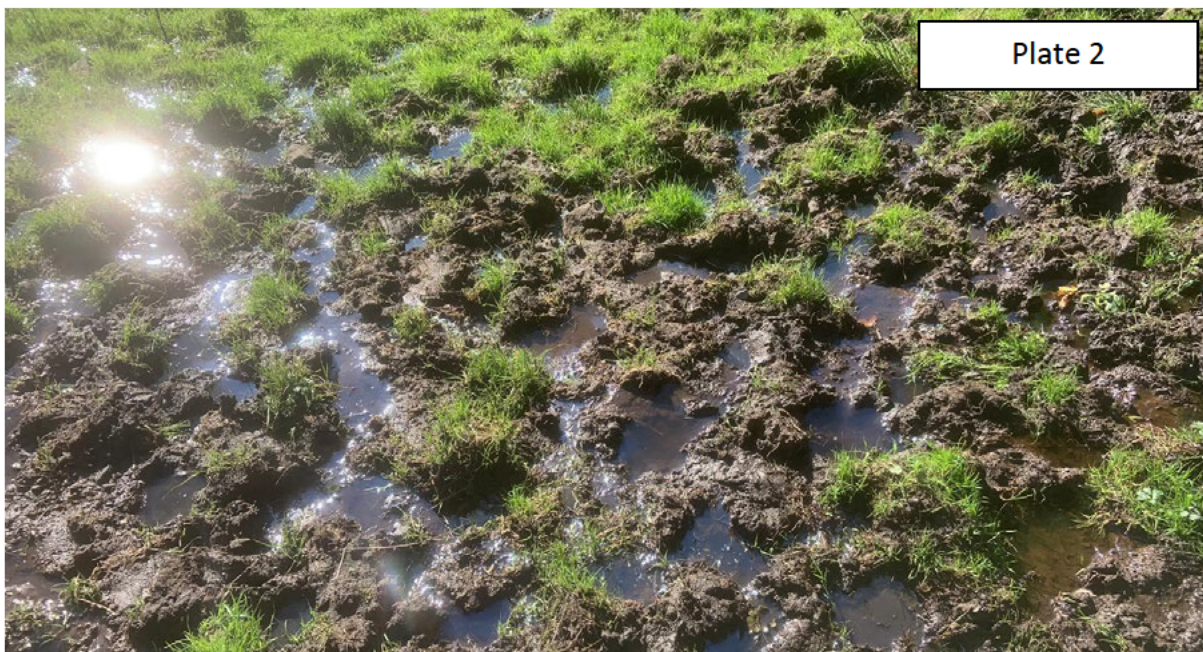


Plate 2

 SITE PHOTOGRAPHS

Report Type: Phase I Preliminary Contamination Risk Assessment
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Plate 3



Plate 4

 SITE PHOTOGRAPHS

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 SITE PHOTOGRAPHS

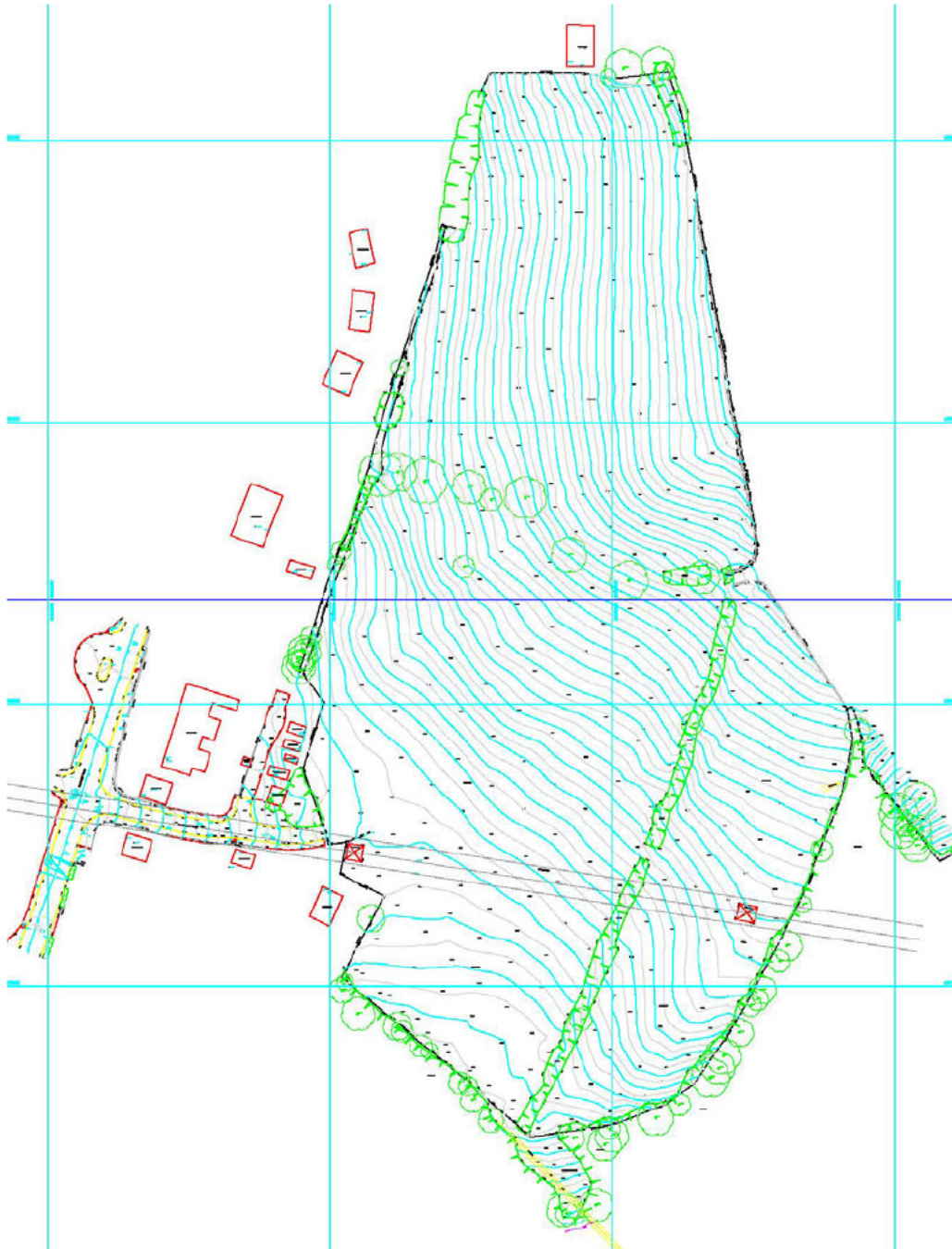
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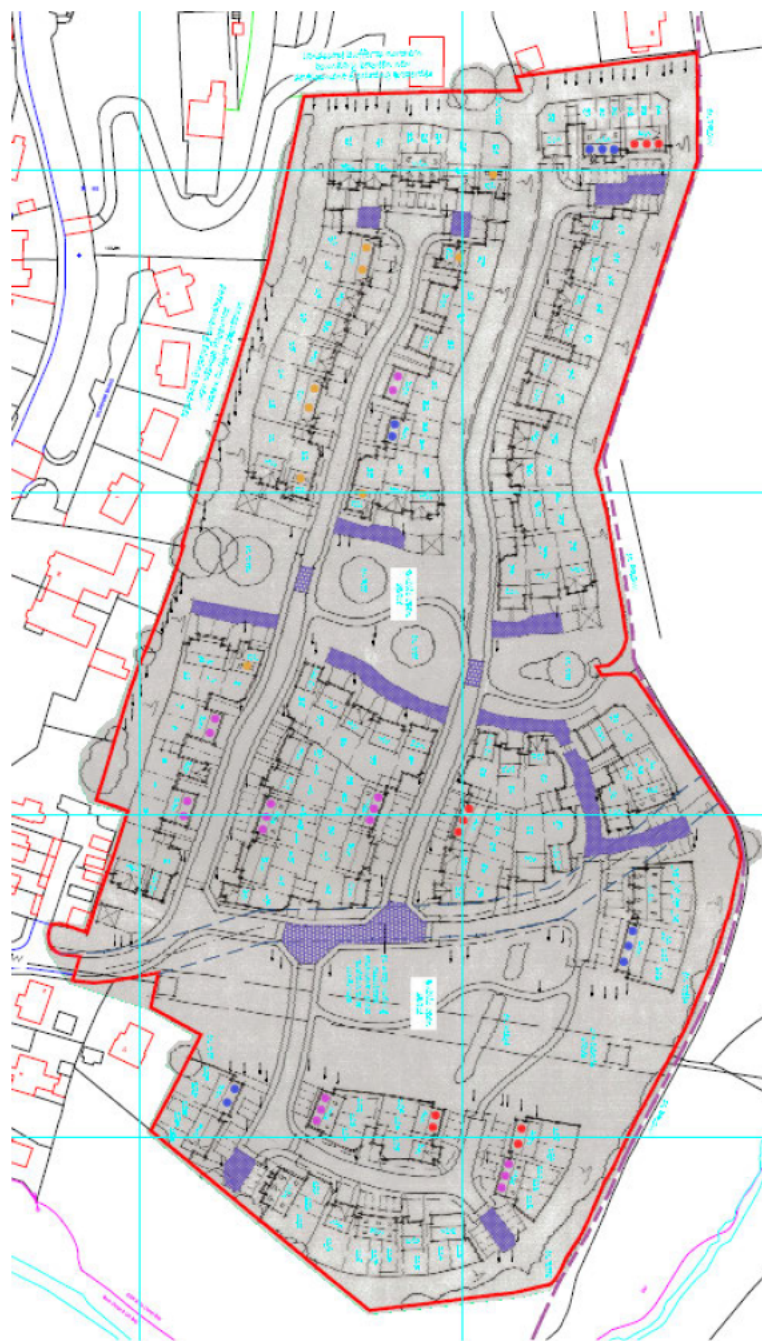


EXISTING SITE LAYOUT PLAN (TOPOGRAPHICAL SURVEY)

Report Type: Phase I Preliminary Contamination Risk Assessment

Site Address: Salesbury View Road, Wilpshire, Lancashire, BB1 9PL

Project No.: GEOL19-9938



 PROPOSED DEVELOPMENT LAYOUT PLAN

Report Type: Phase I Preliminary Contamination Risk Assessment

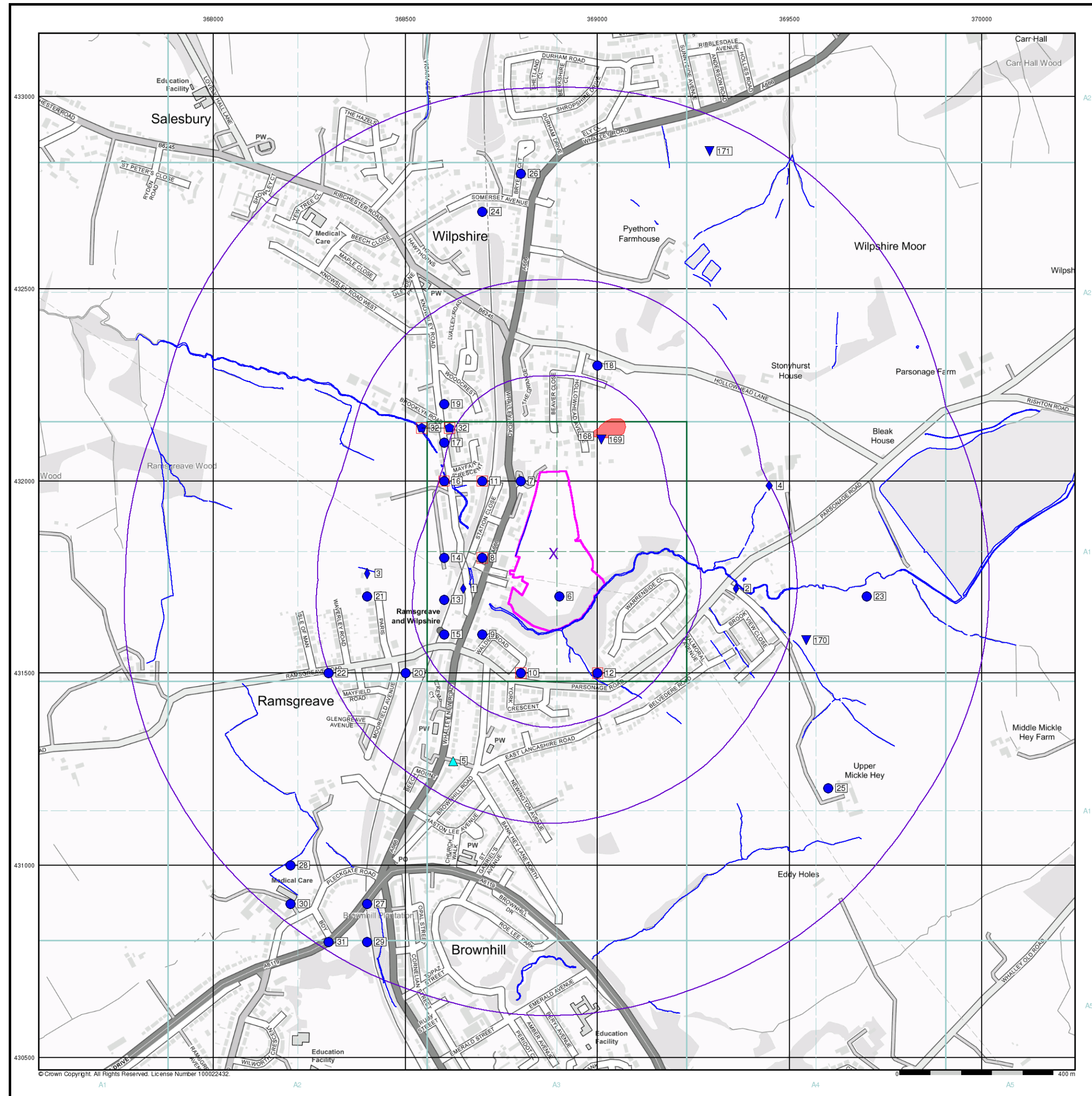
Site Address: Salesbury View Road, Wilpshire, Lancashire, BB1 9PL

Project No.: GEOL19-9938



APPENDIX II

LANDMARK INFORMATION GROUP, ENVIROCHECK REPORT



General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Types at Location

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
- 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

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

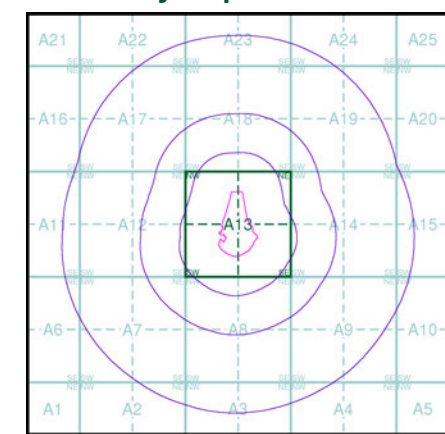
Waste

- 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
- 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

Site Sensitivity Map - Slice A



Order Details

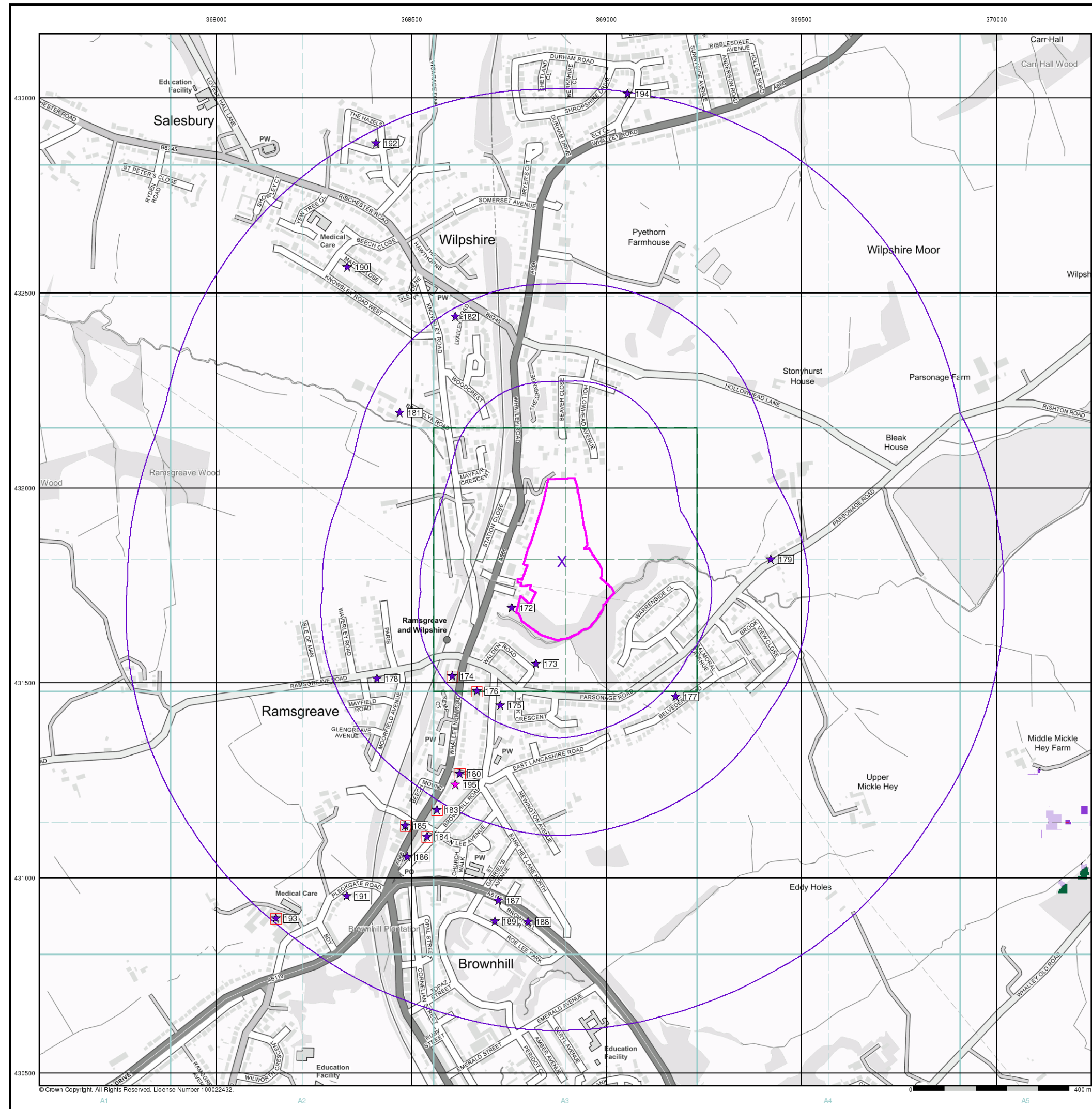
Order Number: 218993196_1_1
Customer Ref: GEOL19-9938
National Grid Reference: 368890, 431810
Slice: A
Site Area (Ha): 6.23
Search Buffer (m): 1000

Site Details

Salesbury View, Wilpshire, BLACKBURN, Lancashire, BB1 9PL



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



Industrial Land Use Map

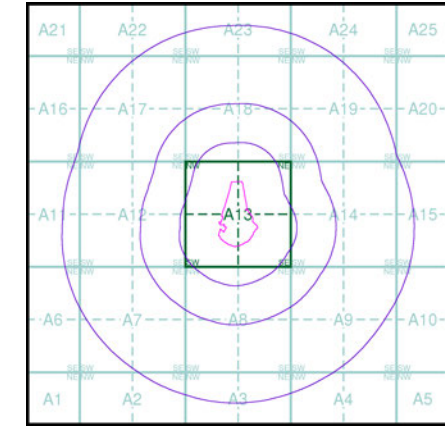
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

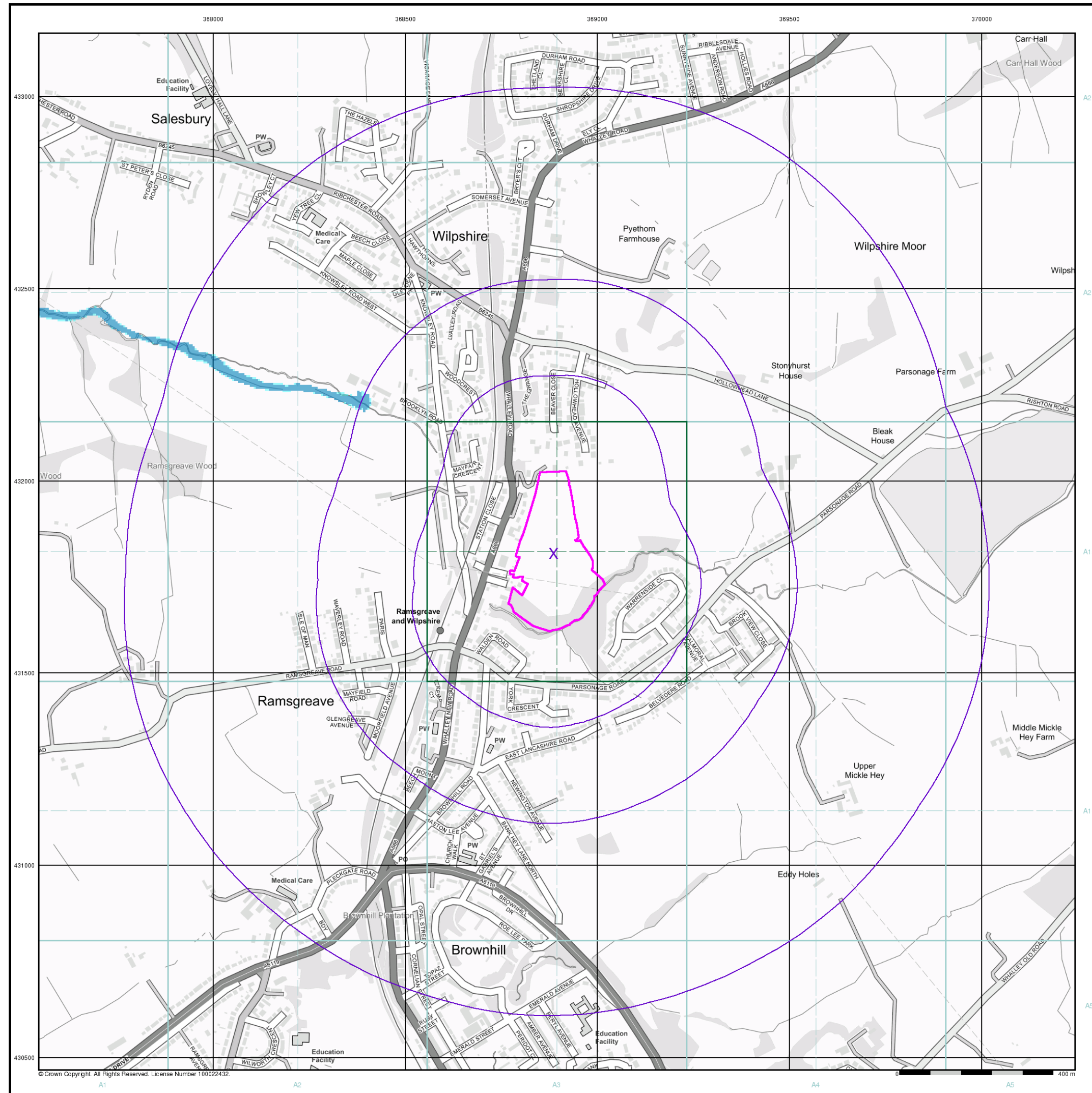
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Customer Ref: GEOL19-9938
National Grid Reference: 368890, 431810
Slice: A
Site Area (Ha): 6.23
Search Buffer (m): 1000

Site Details

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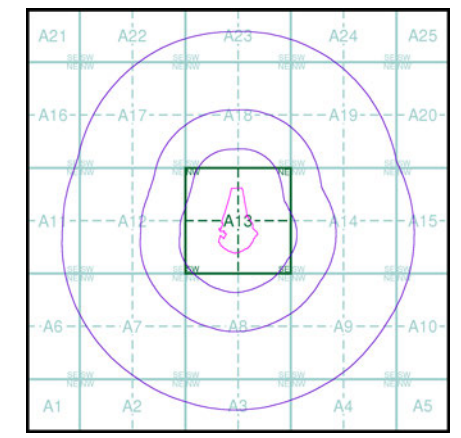
General

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

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A



Order Details

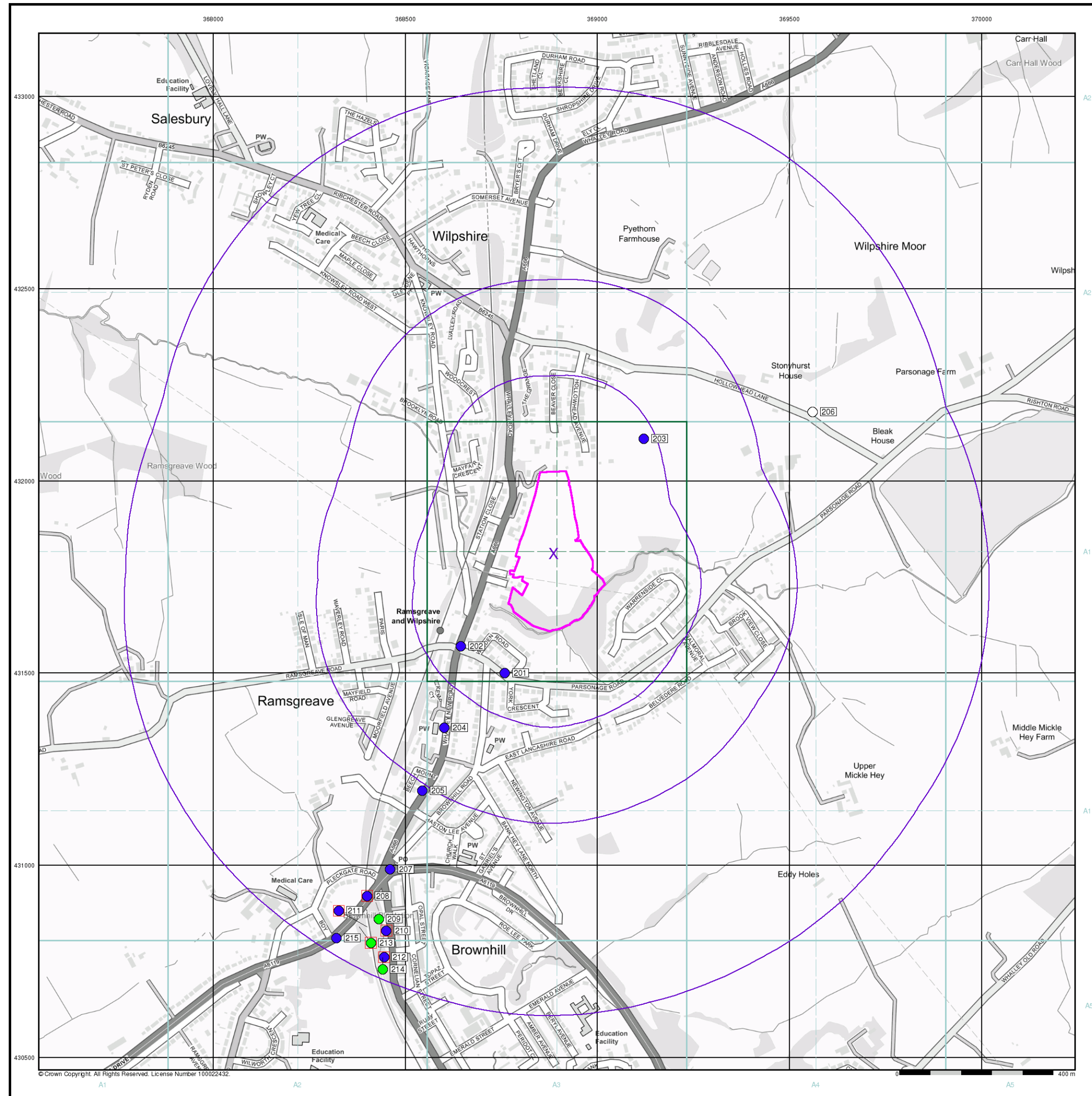
Order Number: 218993196_1_1
Customer Ref: GEOL19-9938
National Grid Reference: 368890, 431810
Slice: A
Site Area (Ha): 6.23
Search Buffer (m): 1000

Site Details

Salesbury View, Wilpshire, BLACKBURN, Lancashire, BB1 9PL



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Web: www.envirocheck.co.uk



General

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

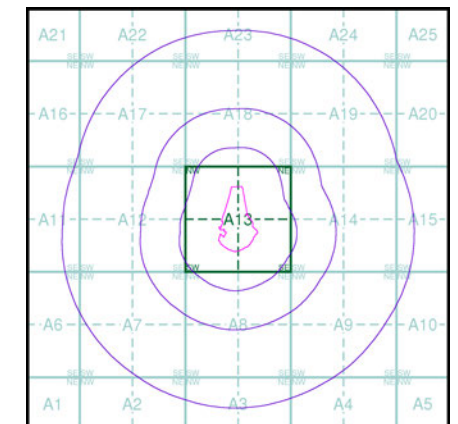
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A



Order Details

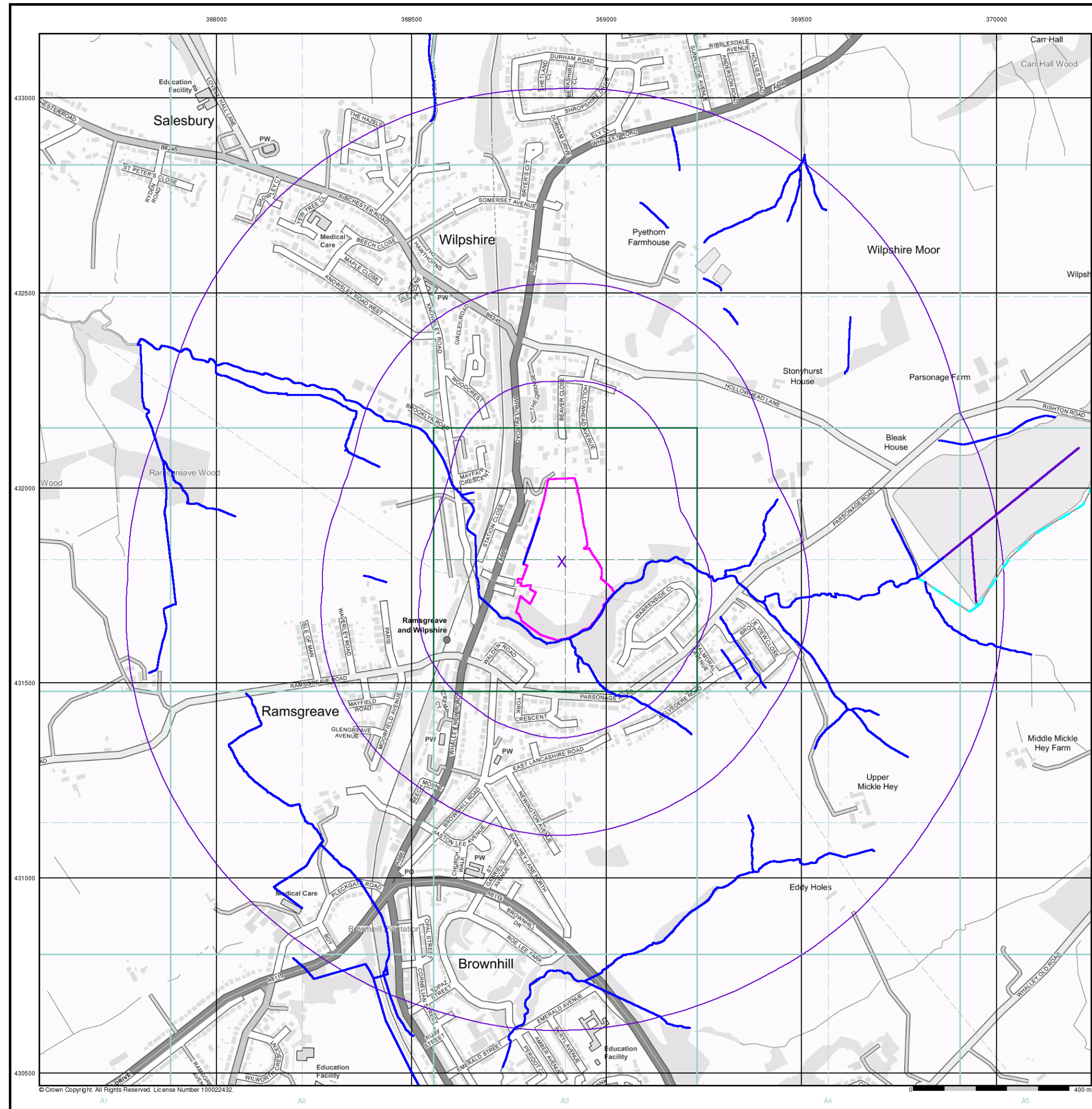
Order Number: 218993196_1_1
Customer Ref: GEOL19-9938
National Grid Reference: 368890, 431810
Slice: A
Site Area (Ha): 6.23
Search Buffer (m): 1000

Site Details

Salesbury View, Wilpshire, BLACKBURN, Lancashire, BB1 9PL



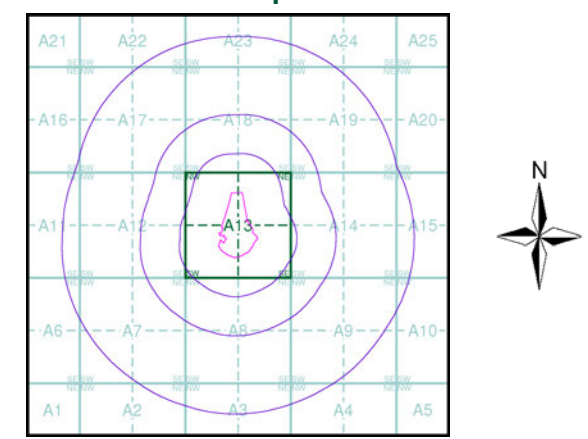
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point

- OS Water Network Data**
- | | |
|--------------|-------------------------|
| Canal | Drain |
| Reservoir | Other |
| Foreshore | Lake |
| Marsh | Transfer |
| Tidal River | Lock Or Flight Of Locks |
| Inland River | Sea |

OS Water Network Map - Slice A



Order Details

Order Number: 218993196_1_1
Customer Ref: GEOL19-9938
National Grid Reference: 368890, 431810
Slice: A
Site Area (Ha): 6.23
Search Buffer (m): 1000

Site Details

Salesbury View, Wilpshire, BLACKBURN, Lancashire, BB1 9PL