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Ground Investigation Report

Proposed Sports Pitch Development

Redbank Playing Fields, Radcliffe, Manchester

June 2023



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Drawing Register

Title	Produced by	Date	Reference
Exploratory Hole Plan	Soiltechnics	May 2023	D-STV6052-01
Proposed Site Plan	Surfacing Standards Ltd	Nov 2022	CLS017-03-06

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Non-technical Summary

Topic	Commentary
Site description	At the time of investigation, the site comprised a grassed playing field with small pavilion building and car park to the southwest. The site lies approximately 950m northwest of Radcliffe Town Centre at approximate postal address M26 4PB. The site is accessible from Unsworth Street from the southwest.
Development proposals	The proposed development will comprise the creation of a 3G Artificial Grass Pitch (AGP) with perimeter fencing, new hardstanding areas, floodlighting, storage container, single storey pavilion and 83 No. space car parking with associated lighting and landscaping.
Ground conditions	The underlying ground conditions can be summarised as Topsoil overlying Made Ground to a maximum depth of 3.5m bgl, overlying predominately sands of the Glaciofluvial Deposits.
Mining Risk	A previous desk-based Coal Mining Risk Assessment has been completed for the site (Report ref: STT5261-CMRA01 Rev A) and subsequent intrusive investigations (R-STT5261-R01 Rev B), which indicated the presence of intact coal seams between depths of 17.9m and 21.9m below the centre of the proposed pitch area (report presented in Appendix I). A likely void and soft strata were recorded at a depth of 26.6m bgl to the southeast of the proposed pitch area. The risk of land instability associated with the potential collapse of such workings affecting the development is considered to be low.
Chemical contamination and remedial requirements	Potential risks from contamination have been identified associated to deep TPH vapours. A further assessment of the risk will be provided following completion of the onsite monitoring regime. However, gas protection measures are likely to be required, which should incorporate vapour protection as a precaution.
Radon, gas risk and protection measures	The site is in an area where the above ground radon Affected Area status is classed as a Lower Probability Radon Area. Ground gas protection measures are required, which as a minimum must include a ventilated sub-floor void and ground gas membrane. The above assessment is preliminary until completion of the monitoring regime.
Recommendation for further works	The recommendations for further works will be determined following completion of the gas, groundwater and vapour monitoring as a report revision. As a minimum, a Gas Design Report will be required to provide the specification and verification plan for the gas protection measures.

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1 Introduction

1.1 Scheme Outline

1.1.1 The proposed development will comprise the creation of a 3G Artificial Grass Pitch (AGP) with perimeter fencing, new hardstanding areas, floodlighting, storage container, single storey pavilion and 83 No. space car parking with associated lighting and landscaping. A proposed development is presented within Appendix A.

1.1.2 It is understood that the development is controlled under the Bury Metropolitan Borough Council planning regime, under application reference 68647. This report aims to address Condition 3 of the associated decision notice.

1.1.3 The report is based on the project proposals and information outlined above; should the scheme change then it will be necessary to review the conclusions and recommendations presented in this report.

1.2 Brief

1.2.1 This report has been prepared following instructions received from the client, Surfacing Standards Ltd. The overall brief of works is to:

i) Undertake a ground investigation at the site to establish the prevailing ground conditions and identify potential abnormal development constraints.
ii) Support the planning application by assessing the potential risks from contamination at the site.

1.2.2 The objectives of this report are outlined below:

i) Review and summarise desk study information.
ii) Undertake a land contamination Tier 1 preliminary risk assessment.
iii) Summarise the intrusive investigation works undertaken and associated laboratory testing.
iv) Present a ground model summarising the ground and groundwater conditions at the site including relevant geotechnical parameters.
v) Undertake a land contamination Tier 2 generic quantitative risk assessment.
vi) Provide recommendations to inform an Options Appraisal and Remediation Strategy, should they be required.

1.3 Definition of Scope

1.3.1 The phasing and scope of the ground investigation works is broadly defined by the following documents.

Title	Document Reference	Publisher	Investigation Scope
Code of practice for ground investigations	BS 5930: 2015	British Standards Institution	Phase 1: Desk study Phase 2: Preliminary investigation
Investigation of potentially contaminated sites – Code of practice	BS 10175: 2011+A2:2017	British Standards Institution	Preliminary Investigation (desk study) Exploratory Investigation

Title	Document Reference	Publisher	Investigation Scope
Land contamination risk management	Online resource, updated April 2021	Environment Agency	Stage 1 Risk Assessment: Tier 1: Preliminary risk assessment Tier 2: Generic quantitative risk assessment

Table 1-A: Definition of Investigation Scope

1.4 Limitations

1.4.1 Soiltechnics disclaims any responsibility to our Client and others in respect of any matters outside the scope of this report. This report has been prepared with reasonable skill, care and diligence in accordance with the terms of our contract, taking account of the manpower, resources, investigations and testing devoted to it by agreement with our Client. This report is confidential to our Client and Soiltechnics accepts no responsibility of whatsoever nature to third parties to whom this report or any part thereof is made known. Any such party relies upon the report at their own risk.

2 Desk Study

2.1 Sources of information

2.1.1 Reference has been made to the following sources of information:

- An Envirocheck Report and historical map records, presented as Appendix H.
- British Geological Survey (BGS) GeoIndex – Onshore database.
- BGS Sheet 85 (Scale 1:50 000) – Manchester (2011).
- Ordnance Survey OpenDat.a
- Coal Authority Development and Specific Risk databases.
- Environment Agency open-source databases.
- Google mapping services.
- Interrogation of search engines for anecdotal information on the site history and other readily available online resources.
- Previous Investigations.

2.2 Site Description

2.2.1 The proposed development lies approximately 950m northwest of Radcliffe Town Centre at approximate postal address M26 4PB. The site is accessible from Unsworth Street from the southwest.

2.2.2 An aerial image showing the approximate site boundary is presented below, followed by a table summarising the key site features. A Site Plan is provided within Appendix A.



Figure 2-A: Aerial photograph, approximate site boundary (red) and pitch boundary (blue)

Theme	Feature
Local area land use	Adjacent sites are occupied by residential dwellings with localised commercial developments.
Topography	The topography of the site and surrounding area generally falls gently south towards the River Irwell.
Current site use	The site is currently used as a grass surfaced playing field. A small single storey pavilion and car parking facilities are located within the southwest of the wider site.
Buildings, surfacing and other permanent features	Less than <5% of the site is occupied by buildings/hardstanding.
Boundary features	The wider site boundaries are defined by Lowe Street to the north, Unsworth Street to the west and residential dwellings to the south and east.
Vegetation	Localised mature trees are observed within the eastern centre of the wider site and along the eastern and southern site boundary.
On-site / adjacent surface water features	None observed on site. Two small ponds recorded approximately 250m northwest of the site. Manchester, Bolton and Bury Canal 300m south. River Irwell 800m south.
Environmental Designations	The site is not reported to be within or in close proximity to any areas of designated sensitive land use, such as a Ramsar Site, Site of Special Scientific Interest (SSSI), or Special Area of Conservation. There is an area of adopted green belt recorded 234m south of the site.
Injurious and invasive weeds	None observed on site.
Asbestos containing material (ACM) in buildings	The scope of this report excludes identifying asbestos within buildings on site, and an asbestos survey was not made available at the time of writing. Given the age of the existing pavilion it is possible this may contain ACM.
ACMs on site	No suspected ACMs were observed in any surface debris.
Potential sources of contamination	None observed.
Evidence for ground instability	No observed.

Table 2-A: Site Description

2.2.3 The observations provided above are made by a Geoenvironmental Engineer, who is not a specialist in asbestos surveying or invasive weed identification. Any associated comments are intended for use by this report only, and not for any other purpose.

2.3 Previous Reports

2.3.1 Soiltechnics have previously undertaken the following reports in relation to the site.

Author	Document Title	Date & Document Reference	Report Context
Soiltechnics	Ground Investigation Report	May 2021 R-STT5261-R01 Rev B	Report undertaken to support construction of AGP.

Author	Document Title	Date & Document Reference	Report Context
	Coal Mining Risk Assessment Report	February 2021 R-STT5261-CMRA01 Rev A	Address coal mining land instability risk associated with construction of AGP.

Table 2-B: Summary of previous reports

2.3.2 Copies of the previous reports are presented in Appendix I for completeness.

2.3.3 The reports indicated the presence of Made Ground across the site to depths of 5.1m and 10.1m below ground level (bgl) associated with a historic landfill recorded on site. The Made Ground typically comprised dark brown gravels of clinker, glass, ceramics, clayware, brick, sandstone, concrete and rare timber fragments. Pockets of dark brown gravelly clays and sands were also observed within the centre of the site (anticipated to represent reworked Glaciofluvial Deposits).

2.3.4 Beneath the Made Ground, bedrock deposits of the Pennine Middle Coal Measures Formation were recorded to depths beyond 30.0m bgl. Deposits typically comprised grey to reddish brown weathered and unweathered mudstone with siltstone bands.

2.3.5 During the ground investigation works no visual or olfactory evidence of contamination was observed beyond a slight organic odour (assumed plant matter) at a depth of 3.1m bgl within the southwest of the site, and the general presence of anthropogenic material in Made Ground.

2.4 Site History

2.4.1 A chronological summary of the site's history is provided below.

Date	On-site	Off-site
(e.g.) Late-1800s	Site largely open field with small stream flowing across the site from northwest to southeast. The Belgrave rope walk is recorded within the eastern centre of the site, whilst small buildings are recorded within the western centre. A well is recorded within the southern centre of the site.	Residential developments recorded beyond the eastern boundary of the site. A spring and reservoir are recorded beyond the site's southeastern boundary. Smyrna Cricket Ground recorded 50m southwest. Red Bank Mill (with associated reservoir) recorded 250m north. Brick works recorded 250m west. Prestwich Branch train line runs northwest-southeast 350m northeast of site. Timber yard 300m southeast. Manchester Bolton and Bury Canal 270m southeast of site, numerous mills align the canal.
Early 1900s	Smyrna Works (Dyeing and Finishing) recorded within southeast of site. Rope walk no longer recorded. By c. 1929-30 large area of earthworks encroaches onto the site from the northwest. Small buildings (assumed residential) recorded within southwest of site. Well no longer recorded on site. By c. 1937, earthworks now occupy northern half of site. Single building recorded within western centre of site.	Brick field recorded 100m southwest. Cotton Mill 100m south. Britannia Shuttle Works 100m south. Unnamed works 100m southeast. Expansion of Red Bank Mill 250m north. By c.1929-30 earthworks extend beyond site 150m to the north.
Mid 1900s	Earthworks recorded across entire eastern half of site. Smyrna Works no longer recorded. Buildings to west of site no longer recorded and replaced with single football ground with pavilion building. Stream no longer recorded (culverted as present day).	Allotment gardens align site's southern boundary. Development of cricket ground to southwest. Extensive residential development 500m west of site. By c. 1964-76, extensive residential development beyond immediately beyond the site to the north, east and west.

Date	On-site	Off-site
	By c. 1964-76 No earthworks recorded within the site, eastern half of site occupied with vegetation.	
Late 1900s	Site recorded as open field with two footpaths crossing. Pavilion building remains. Additional building also recorded within southwest of site.	Works 100m southeast of site recorded as engineering works, factory and warehouse until 1992 when no longer recorded. Engineering works recorded 80m south of site. Mill no longer recorded 250m north of site.
Early 2000s	No significant changes, site recorded as playing field from 2023.	No significant changes.

Table 2-C: Summary of site history

2.5 Anticipated Geology

2.5.1 A summary of the anticipated geology underlying the site is summarised as follows:

Stratum	Bedrock / superficial	Anticipated thickness (m)	Typical description
Made Ground	-	5.1m – 10.1m	Gravels of anthropogenic materials
Glaciofluvial Deposits (west of site)	Superficial	Anticipated to have been largely replaced by Made Ground	Sands and gravels
Devensian Till	Superficial	Anticipated to have been largely replaced by Made Ground	Clays
Pennine Middle Coal Measures Formation	Bedrock	200-650m	Sandstone, mudstone and siltstone with coal seams to the northwest and southeast of the site

Table 2-D: Summary of anticipated geology at the site



Figure 2-B: Extract from BGS showing extent of superficial deposits across the site

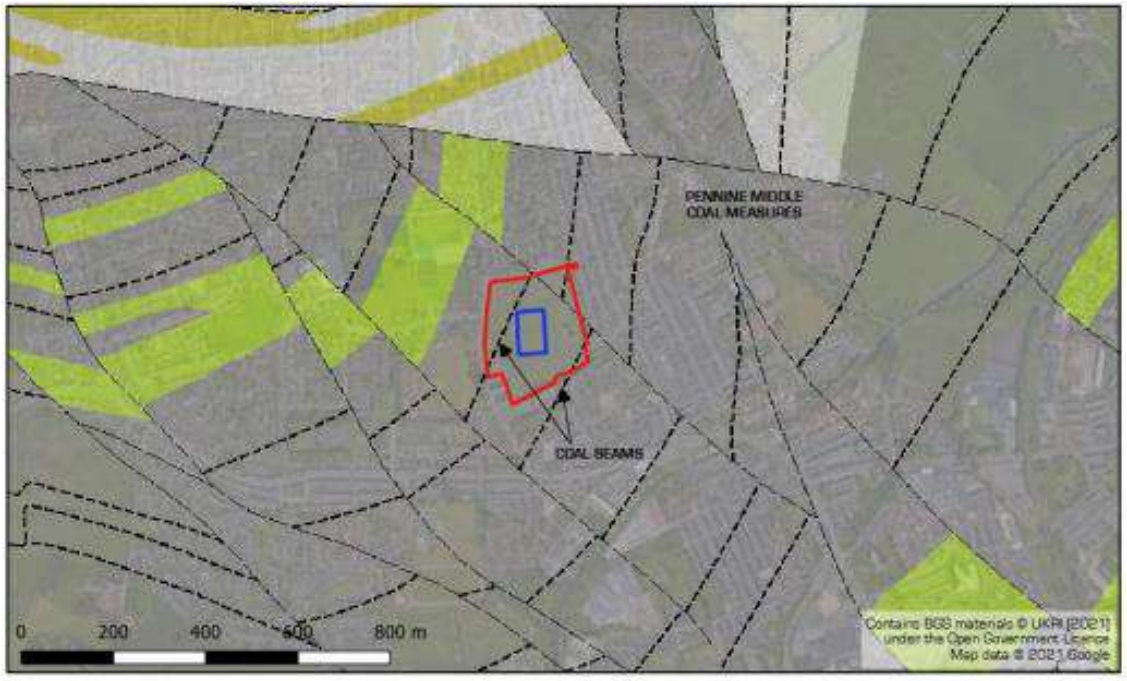


Figure 2-C: Extract from BGS showing extent showing bedrock geology at the site

2.6 Hydrogeology and Groundwater Sensitivity

2.6.1 The general hydrogeological profile of the site is provided below.

Stratum	Aquifer Designation	Stratum Thickness (m)	Anticipated Groundwater Depth (m bgl)
Glaciofluvial Deposits	Secondary A	Anticipated to have been largely replaced by Made Ground	Where encountered groundwater anticipated to be at depths of 2-3m below ground level.
Devensian Till	Secondary Undifferentiated	Anticipated to have been largely replaced by Made Ground	Where encountered groundwater anticipated to the present at base of unit and within sand lenses.
Pennine Middle Coal Measures Formation	Secondary A	200-650m	>30m bgl

Table 2-E: Preliminary Hydrogeological Model

2.6.2 The site is not located within a Source Protection Zone.

2.6.3 In addition, there are no groundwater abstractions within 1km of the site.

2.7 Hydrology and Surface Water Sensitivity

2.7.1 The nearest surface water feature is a recorded pond 192m northwest and upgradient of the site.

2.7.2 The nearest water course is the Manchester, Bolton and Bury Canal some 300m south of the site. Beyond the canal is the River Irwell recorded 800m south of the site.

2.7.3 There are 4 No. active surface water abstraction licenses within 1km of the site. All are located east of the site and for that reason are not considered down-gradient of the site. The nearest is recorded 462m from site associated with the canal.

2.8 Flood risk

2.8.1 Environment Agency flood maps indicate the site is within a Flood Zone 1, suggesting a low probability of flooding. However, the site does fall within a general Flood Risk Area. The stream which once flowed through the site is now culverted.

2.8.2 It should be noted that this information does not constitute a site-specific Flood Risk Assessment and one may be required for the scheme.

2.9 Non-Mining Ground Instability Hazard

2.9.1 The Envirocheck Report includes hazard ratings due to natural ground instability, which have been derived by the BGS. These hazards have been summarised in the table below.

Hazard	Hazard Potential	Discussions
Collapsible ground	Very low	N/A
Compressible ground	No hazard	N/A
Ground dissolution	No hazard	N/A
Landslide	Very low	N/A
Running sand	Very low	N/A
Shrinking or swelling clay	Very low	N/A

Table 2-F: Non-Mining Ground Stability Hazards

2.10 Quarrying and Mining

2.10.1 Coal Authority mapping data shows the site lies within a Coal Mining Reporting Area, and within a Development High Risk Area, associated with the potential for unrecorded shallow workings.

2.10.2 A previous desk-based Coal Mining Risk Assessment has been completed for the site (Report ref: STT5261-CMRA01 Rev A) which determined shallow coal mining risks could exist (report presented in Appendix I). Subsequent intrusive investigations (R-STT5261-R01 Rev B) indicated the presence of intact coal seams between depths of 17.9m and 21.9m below the centre of the proposed pitch area (report presented in Appendix I). A likely void and soft strata were recorded at a depth of 26.6m bgl to the southeast of the proposed pitch area. Further details are provided within the above referenced report.

2.10.3 There are no historical quarries or active mineral sites recorded within close proximity of the site.

2.11 Landfill and infilled ground

2.11.1 The following table summarises current and historical landfill sites and infilled ground records within 250m from the site to the site.

Name	Distance from site (m)	Type of record	Waste deposited / resource extracted	Further information
Red Bank	On site	Historical landfill	Deposited waste including household	N/A
Infilled ground (water)	158 W	Infilled ground	Unknown fill	N/A
Infilled ground (water)	159 W	Infilled ground	Unknown fill	N/A

Name	Distance from site (m)	Type of record	Waste deposited / resource extracted	Further information
Cemetery Road	219 NE	Historical landfill	Deposited waste including commercial and household	N/A
Infilled ground (non-water)	220 E	Infilled ground	Unknown fill	N/A
Infilled ground (water)	236 W	Infilled ground	Unknown fill	N/A
Infilled ground (water)	240 W	Infilled ground	Unknown fill	N/A

Table 2-G: Summary of landfill, mineral site and infilled ground records

2.12 Recent industrial activity

2.12.1 There are no regulated facilities or activities in the vicinity of the site under IPPC or LAPPC control, and no registered radioactive substances.

2.12.2 There are no Contemporary Trade Directory entries associated with site itself, and 26 are held within 250m. Within 100m of the site, these entries are largely limited to inactive manufacturers of doors, seating, fireplaces and mantlepieces.

2.12.3 As the site is not located in close proximity to a watercourse, records held of discharge consents and pollution incidents to controlled waters are not considered relevant to this desk study.

2.12.4 No records are held for pollution incidents or discharges to land or groundwater within 500m of the site.

2.13 Radon

2.13.1 The site is in an area where the above ground radon Affected Area status is classed as a Lower Probability Radon Area.

2.14 Underground Infrastructure

2.14.1 Copies of all utility plans obtained are presented as Appendix G. The plans are provided for information only and should not be relied upon to be accurate. In addition, it is worth noting that the public utility plans provided by the asset owners typically exclude private service runs.

2.14.2 A review of the information indicates that a public surface water main (600mm dia.) crosses the north-eastern corner of the proposed pitch area in a southeast direction. This is likely to represent culverting of the historic steam. A private sewer (900mm dia.) also crosses the site in a similar direction.

2.14.3 No other statutory services are recorded within the wider site boundary.

2.15 Unexploded Ordnance (UXO) Hazard Screen

2.15.1 A preliminary risk review from a UXO specialist has been undertaken to assess the risk of encountered UXO and to identify any precautionary measures necessary for our intrusive investigations. It should be noted that the risk assessment has not been carried out fully in accordance with CIRIA report C681 '*Unexploded Ordnance (UXO) A guide for the construction Industry'* and was completed for the purposes of assessing UXO risks for the ground investigation only.

2.15.2 The risk review concluded that there was not a credible risk of encountering UXO during the ground investigation. It should be noted that this preliminary risk review does not consider risks to the construction phase.

3 Tier 1 Preliminary Contamination Risk Assessment

3.1 Objectives

3.1.1 The objective of this preliminary risk assessment (PRA) is to determine the suitability of the site for the proposed redevelopment and end users, in terms of the risk from contamination. The assessment comprises the following steps:

- Identify potential contaminant linkages (PCLs) between sources, pathways and receptors.
- To provide data to assist in the design of potential exploratory and detailed intrusive investigations and to give an early indication of possible remedial requirements, if necessary.

3.2 Evaluation Criteria

3.2.1 The following assessment is undertaken within the legislative framework of the planning system. Therefore, the assessment needs to identify if land contamination could pose an unacceptable risk to human health or the environment, within the context of the proposed development site. In the context of the existing site use, as a minimum, land should not be capable of being determined as 'contaminated land' under Part IIA of the Environmental Protection Act 1990.

3.3 Methodology

3.3.1 The objectives listed above are achieved by utilising the information presented within the desk study to develop an initial conceptual site model (iCSM) and identification of potential unacceptable risks. Depending upon the outcome of the Tier 1 assessment, it may be necessary to undertake a Tier 2 generic quantitative risk assessment (GQRA).

3.3.2 An iCSM relies upon the identification and assessment of PCLs. A contaminant linkage comprises of three key components:

- Source – a contaminant or pollutant that is in, on or under the land and that has the potential to cause harm or pollution.
- Pathway – Current and post-development routes by which a receptor is, or could be, affected by a contaminant.
- Receptor – Something that could be adversely affected by a contaminant, for example a person (current and proposed end users or neighbours), controlled waters and ecosystems.

3.3.3 The Tier 1 risk assessment has been produced with reference to the following guidance:

- 'Land contamination risk management' (EA, 2021).
- BS 10175:2011+A2:2017 'Investigation of potentially contaminated sites – Code of Practice'.
- CIRIA C552 'Contaminated land risk assessment- a guide to good practice', 2001.
- BS EN ISO 21365:2020 'Soil quality – Conceptual site models for potentially contaminated sites'
- BS 8576:2013 'Guidance on investigations for ground gas – Permanent gases and Volatile Organic Compounds (VOC)'.

3.4 Source Assessment

3.4.1 The table below summarises identified sources based on the findings of the desk study. Where appropriate, further discussion has been provided in the paragraphs which follow.

Potential Sources	Contaminant(s) of concern	Detail	Viable source?
On-site sources			
Historic works (dyeing and finishing)	Various inorganic and organic compounds (hydrocarbons, metals, asbestos)	Unknown activities carried out historically, potentially creating a wide range of contaminants.	Y
Made Ground (associated with former landfill and historic earthworks recorded)	Metals, polycyclic aromatic hydrocarbons (PAH), asbestos	Historically received household wastes. Made Ground recorded between 5.1m and 10.1m from previous investigation.	Y
	Permanent ground gases (CH4 and CO2)	Elevated concentrations of ground gas generated from thick Made Ground with high levels of putrescible material (Plant matter noted in Made Ground from previous investigation).	Y
Worked Coal Seams	Permanent ground gases (CH_4, CO_2 and CO)	Shallow coal workings are potentially present, albeit previous investigation indicate voiding as deep as 26.6m bgl.	Y
Aggressive ground conditions due to potentially pyritic ground	Pyrite and sulphates	The risk of aggressive ground affecting concrete is to be considered under the geotechnical investigation and has been excluded from further consideration.	N
Off-site sources			
Historic works/mills within 100m	Various inorganic and organic compounds (hydrocarbons, metals, asbestos)	Unknown activities carried out historically, potentially creating a wide range of contaminants.	Y

Table 3-A: Contamination source assessment

3.5 Receptor Assessment

3.5.1 The following table summarises the identified receptors based on current site conditions and our understanding of the proposed end use:

Receptor Category	Principal Receptor	Receptor present?	Detail
Human health	Users of the current site	Yes	Currently playing field.
	End user of the developed site	Yes	Proposed AGP sports pitch, pavilion and car parking.
	Construction operatives and other site investigators	Yes	Site to be developed.
	Adjacent site users and off-site members of the public	Yes	Public footpath and residential properties present adjacent to the wider site.
Controlled waters	Surface waters	No	Nearest down-gradient surface water feature is the Manchester, Bolton and Bury Canal 300m south of site which will be lined and positively drained between.
	Groundwater	Yes	Site over superficial Secondary A Aquifer.
Sensitive ecosystems and species	Current site	No	Site is not currently within, or proposed to form, a designated environmentally sensitive area (e.g. SSSI, RAMSAR, AONB, SPA, SAC)
	Developed site	No	
Property	Soft landscaping (current)	Yes	Shrubs and trees present locally within the site and along the site's boundaries.

Receptor Category	Principal Receptor	Receptor present?	Detail
	Soft landscaping (proposed)	No	Minor landscaping around new development proposed, grassed banking adjacent to pitch.
	Potable infrastructure	Yes	Drinking water infrastructure will be required
	Building materials	No	Concrete classification to be assessed under the geotechnical investigation (assed separately).

Table 3-B: Receptor assessment

3.6 Pathway Assessment

3.6.1 The following table summarises the generic human health pathway assessment for the site, assuming a range of contaminant sources within the underlying soils. Source-specific pathways are considered within the iCSM in subsequent report sections.

Human Health Exposure Pathway	Grass surfaced playing field (current)	AGP, pavilion and car parking (proposed)	Construction operatives	Adjacent Site Users
Ingestion, inhalation and dermal contact with soils and dusts	✓	✓	✓	✓ *(inhalation only)*
Ingestion, inhalation and dermal contact with site derived dusts indoors	✓ *(existing pavilion)*	✓ *(proposed pavilion)*	✓	×
Ingestion of home-grown vegetables	×	×	×	×
Inhalation of vapours in outside spaces	✓	✓	✓	✓
Intrusion and inhalation of vapours indoors	✓ *(existing pavilion)*	✓ *(proposed pavilion)*	✓	×
Accumulation and Inhalation of ground gas in enclosed structures	✓ *(existing pavilion)*	✓ *(proposed pavilion)*	✓	×

Table 3-C: Generic pathway assessment

3.6.2 The following table summarises generic pathways for the site which could be viable for the identified controlled water receptors, given our understanding of the hydrogeological model and assuming a range of contaminants in the sub-surface.

Controlled Water Exposure Pathways	Current Setting	Proposed Setting	Mechanism
Site characteristics			
Leaching via infiltration through unsurfaced areas, and surface run-off	✓	×	Mobilisation
Leaching via infiltration through cracks/joints in hardstanding areas and drainage infrastructure	×	×	Mobilisation
Leaching via saturation from groundwater flooding and shallow/perched groundwater bodies	×	×	Mobilisation
Infiltration through sustainable drainage systems	×	×	Mobilisation
Preferential lateral pathways (e.g. underground services)	✓	✓	Migration
Preferential vertical pathways (e.g. piling, vibro-stone columns)	×	✓	Migration
Hydrogeological characteristics			

Controlled Water Exposure Pathways	Current Setting	Proposed Setting	Mechanism
Vertical migration through permeable strata into shallow aquifers and perched groundwater bodies	✓ (dependent on management of historic landfill)	✓ (dependent on management of historic landfill)	Migration
Vertical migration through permeable strata into sensitive aquifers at depth	×	×	Migration
Lateral migration within shallow and perched groundwater bodies into surface waters	×	×	Migration

Table 3-D: Generic pathway assessment

3.7 Initial Conceptual Site Model (iCSM)

3.7.1 The table below presents our approach to the assessment of risks associated with PCLs. The categories below are based upon the definitions within CIRIA C552 (2001), with the addition of a 'negligible likelihood' scenario, which is to be used where there is no realistic scenario in which harm could occur.

3.7.2 The initial conceptual site model (iCSM) is presented within the following tables overleaf.

		Consequence of harm			
		Severe	Medium	Mild	Minor
Probability of harm	High likelihood	***Risk: Very high*** (high – severe)	***Risk: High*** (high – medium)	**Risk: Moderate** (high – mild)	**Risk: Moderate/Low** (high – minor)
	Likely	***Risk: High*** (likely – severe)	**Risk: Moderate** (likely – medium)	**Risk: Moderate/Low** (likely – mild)	**Risk: Low risk** (likely - minor)
	Low Likelihood	***Risk: Moderate*** (low – severe)	**Risk: Moderate/Low** (low – medium)	**Risk: Low** (low – mild)	**Risk: Very low** (low – minor)
	Unlikely	**Risk: Moderate/Low** (unlikely – severe)	**Risk: Low** (unlikely – medium)	**Risk: Very low** (unlikely – mild)	**Risk: Very low** (unlikely – minor)
	Negligible Likelihood	***Risk: Low*** *(negligible– severe)*	***Risk: Very Low*** (negligible– medium)	***Risk: Very Low*** (negligible– mild)	***Risk: Negligible*** (negligible– minor)

Table 3-E: iCSM Risk Ratings

RECEPTOR: PROPOSED END USERS				
Potential Source	**Contaminants of Concern**	**Pathway**	**Tier 1 Risk Assessment** *(probability of harm x consequence)*	**Discussion**
Historic works (dyeing and finishing)	Metals, PAHs, TPH, phenol	Ingestion, inhalation and contact with soils, dusts and vapours	**Risk: Moderate** *(likely – medium)*	Elevated levels of inorganic and organic contaminants could be present in the near surface Made Ground deposits due to its origin and composition (e.g. potentially containing industrial waste and uncontrolled demolition materials), and due to unknown historical activities and incidents on site (such as through the storage and use of fuels and chemicals).
	Asbestos	Inhalation of dusts	**Risk: Moderate** *(likely – medium)*	Asbestos could be present in uncontrolled demolition material within the Made Ground.
Made Ground (associated with former landfill and historic earthworks recorded)	Metals, PAHs, TPH, phenol	Ingestion, inhalation and contact with soils and dusts	**Risk: Moderate** *(likely – medium)*	Site former landfill site accepting household waste historically. Previous investigations indicate the presence of clinker, glass, ceramics, clayware, brick, sandstone, concrete and rare timber fragments within deep Made Ground deposits (5.1m to 10.1m in thickness).
	Asbestos	Inhalation of dusts	**Risk: Moderate** *(likely – medium)*	Asbestos could be present in uncontrolled demolition material within the Made Ground.
	Permanent Ground Gases (CH_4 & CO_2)	Migration through the sub-surface into enclosed spaces	***Risk: Moderate*** (low – severe)	Previous investigations did not indicate the presence of putrescible materials with the exception for plant matter. However, the site was previously used as a landfill, thus the risk of ground gas generation and migration cannot be discounted at this stage.
Worked Coal Seams	Permanent Ground Gases (CH_4 & CO_2)	Migration through the sub-surface into enclosed spaces	***Risk: Moderate*** (low – severe)	Previous investigation states that the Coal Authority has no record of any onsite mine gas emissions requiring action. However, previous intrusive investigations indicated voiding at a depth of 26.6m which if containing gas could potential migrate to surface through overlying fractures if present.
Historic works/mills within 100m	Metals, PAHs, TPH, phenol	Ingestion, inhalation and contact with soils, dusts and vapours	**Risk: Moderate/Low** (low – medium)	Elevated levels of inorganic and organic contaminants could be present in the Made Ground deposits due to its origin and composition (e.g. potentially containing industrial waste and uncontrolled demolition materials), and due to unknown historical activities and incidents on site (such as through the storage and use of fuels and chemicals).
Organic contaminants identified above	PAHs, TPH, VOCs & SVOCs	Permeation into drinking water pipes	**Risk: Moderate** (likely – medium)	Organic contaminants could be present in the shallow soils at depths and concentrations which could pose a risk of penetrating drinking water pipes.

Table 3-F: iCSM – Proposed End Users

RECEPTOR: CONSTRUCTION WORKERS				
Potential Source	**Contaminants of Concern**	**Pathway**	**Tier 1 Risk Assessment** *(probability of harm x consequence)*	**Discussion**
Made Ground	Asbestos fibres and ACMs	Inhalation of dusts	**Risk: Moderate** (likely – medium)	If present, asbestos in soils can present an acute risk to construction workers, particularly during the enabling works phases. Very low and trace concentrations often pose a low risk if appropriate controls are put in place.
All other contamination sources, excluding asbestos	Metals, PAHs, TPHs	Ingestion, inhalation and contact with soils, dusts and vapours	**Risk: Low** *(low – mild)*	No gross contamination of high-risk contaminants anticipated (e.g. cyanide, benzene, and vinyl chloride). Standard PPE and hygiene protocols for working on brownfield sites are likely to be sufficient to the mitigate risk.

Table 3-G: iCSM – Acute Exposure to Construction Workers

RECEPTOR: ADJACENT SITE USERS FOLLOWING COMPLETION				
Potential Source	**Contaminants of Concern**	**Pathway**	**Tier 1 Risk Assessment** *(probability of harm x consequence)*	**Discussion**
All identified potential contaminant sources	Metals, PAHs, TPH, (S)VOCs, Asbestos	Ingestion, inhalation and contact with soils, dusts and vapours	**Risk: Low** *(unlikely – medium)*	Based on the exposure pathways that would be present from the developed site, and on the anticipated levels of contamination, it is considered unlikely that a pollutant linkage could pose an unacceptable risk to off-site receptors.

Table 3-H: iCSM – Chronic Exposure to Adjacent Site Users

RECEPTOR: ADJACENT SITE USERS DURING THE CONSTRUCTION PHASE				
Potential Source	**Contaminants of Concern**	**Pathway**	**Tier 1 Risk Assessment** *(probability of harm x consequence)*	**Discussion**
Asbestos fibres and ACMs within the Made Ground	Asbestos	Inhalation of dusts	**Risk: Moderate/Low** *(low – medium)*	Potential risk associated with generation of air-borne asbestos fibres and dust during construction main earthworks phase. Whilst there is a low likelihood of harm occurring due to the effect of fresh-air dilution, the risk cannot be discounted at this stage.
All other potential contaminant sources	Metals, PAHs, TPH	Ingestion, inhalation and contact with soils, dusts and vapours	**Risk: Low** *(unlikely – medium))*	Unlikely to pose a viable risk to off-site receptors.

Table 3-I: iCSM – Acute Exposure to Adjacent Site Users

RECEPTOR: CONTROLLED WATERS				
Potential Source	**Contaminants of Concern**	**Pathway**	**Tier 1 Risk Assessment** *(probability of harm x consequence)*	**Discussion**
All potential contaminant sources identified	Metals, PAHs, TPH	Leaching and vertical migration (Groundwater)	**Risk: Low** *(unlikely – medium)*	Made Ground anticipated to overlie the Pennine Middle Coal Measures Formation since landfill was operational. Whilst site overlies a Secondary A aquifer, contained in the superficial deposits/bedrock, the proposed development will be surfaced in hardstanding/building and a positively drainage AGP. Therefore, the likelihood of the development mobilising potential leachable contamination in near surface soils is considered to be low.

Table 3-J: iCSM – Controlled Waters Risk

3.7.3 The risk to identified receptors from the proposed developments under the planning regime are assessed under a 'minimal risk' approach. Whereas, the risk to receptors under the current and continued use of the site is dealt with under the regulatory framework of the Part IIA regime, where Soiltechnics consider if there is a reasonable chance of a 'significant potential of significant harm' (SPOSH) occurring. This is not equivalent to a due diligence assessment for the continued use of the site to aid in determining potential contaminated land liabilities or land valuations.

3.7.4 The following table sets out the risk to current users considering a SPOSH approach:

Receptor	Potential Source	Contaminants of Concern	Pathway	Preliminary Assessment: Is their reasonable evidence of SPOSH?	Discussion
Human Health (Current and adjacent site users)	All potential contaminant sources identified above	Various Contaminants	Inhalation, ingestion and contact with soils, dusts and vapours.	**No**	Whilst potential contamination sources have been identified, Soiltechnics have not encountered any evidence which indicates there could be a significant possibility of significant harm to human health occurring from contamination on site.
Controlled Waters (Surface water and groundwater)	All potential contaminant sources identified above	Various Contaminants	Mobilisation and migration	**No**	Whilst potential contamination sources have been identified, Soiltechnics have not encountered any evidence which indicates there could be a significant possibility of significant harm to controlled waters occurring from contamination on site.
Ecosystems	All potential contaminant sources identified above	Various Contaminants	Direct contact and root uptake	**No**	The site does not fall within a relevant designation for environmentally sensitive land (e.g. SSSI, NRA, Ramsar).The site falls within a SSSI area; however, s precursory review of aerial and street view imagery does not show any significant barren areas, signs of poor growth, or significant vegetative stress.
Property	All potential contaminant sources identified above	Various Contaminants	Various pathways	**No**	Through undertaking the desk study, no evidence of potentially significant harm occurring to property has been identified.

Table 3-K: iCSM – Current Site Risks (Part IIA)

3.8 Preliminary Risk Assessment Conclusions and Recommendations

3.8.1 In summary, the PRA has not highlighted any potential contaminant linkages (PCL) which could pose a significant possibility of significant harm under the current land use. In terms of the proposed development scheme, a minimal risk approach applies, and PCLs have been identified which require further consideration.

3.8.2 In particular, the industrial heritage of the site and potential for Made Ground deposits could give rise to a wide range of contaminants. Further intrusive investigation works are recommended to further refine the assessment and to determine if any remedial measures are necessary.

3.8.3 No radon protection measures are necessary, and it is unlikely that the site is at risk from vapour intrusion (TBC). However, the assessment has concluded that an onsite historic landfill/deep mine workings pose a potential gas risk to the development, and intrusive fieldworks are recommended which includes a gas monitoring regime to further refine the risk and determine if ground gas protection measures are required. Based on current industry guidance, it is recommended to undertake 6 No. monitoring visits over a period of 12 weeks.

3.8.4 Overall, each PCL identified as posing a risk of 'Moderate/Low' or higher should be considered as part of an intrusive Tier 2 generic quantitative risk assessment (GQRA). The following table summarises the principal receptors at risk which require further investigation to support the proposed development.

Receptor Category	Principal Receptor	PCL Present Requiring Further Investigation?
Human health	Current site users	No
	Proposed site users (soils, dusts, and vapour)	Yes
	Proposed site users (permanent ground gas)	Yes
	Proposed site users (radon)	No
	Adjacent site users and off-site members of the public (during the long-term use of the site)	No
	Adjacent site users and off-site members of the public (during the construction phase)	Yes – Asbestos risk only
	Construction operatives	Yes – Asbestos risk only
Controlled waters	Surface waters	No
	Groundwater	No

Table 3-L: Receptors at Risk Under The Proposed Scheme

4 Ground Investigation

4.1 Objectives

4.1.1 The ground investigation scope and location of exploratory holes was determined by Soiltechnics Ltd, based upon our overall brief outlined in Section 1.

4.1.2 The objectives of the fieldwork were to:

a) Establish ground and groundwater conditions at the site.
b) Obtain samples for subsequent laboratory testing.
c) Install gas and groundwater monitoring wells and undertake a programme of monitoring visits.

4.2 Fieldwork summary

4.2.1 Fieldwork was undertaken on 19th May 2023.

4.2.2 A summary of the works completed is set out below, along with the location of the exploratory logs. An exploratory hole location plan is presented within Appendix A.

Exploratory Hole Logs	Method	Qty	Final Depth Range (m bgl)	Comments
Appendix B	Hand Pits	6	0.2-0.5	HP01 to HP06 excavated to obtain near surface soil sample across proposed pitch area.
		4	1.0	HP07 to HP10 excavated to confirm proposed pavilion hardstanding and car parking formation.
Appendix C	Dynamic windowless sampling boreholes	5	5.45	WLS01 to WLS03 Boreholes terminated at scheduled depth to confirm ground conditions beneath proposed pavilion building.

Table 4-A: Summary of fieldwork undertaken

4.2.3 All soils encountered were described in accordance with BS EN ISO 14688 "Identification and Classification of soil".

4.3 Unexploded Ordnance (UXO)

4.3.1 In the absence of a UXO Risk Assessment in accordance with CIRIA C681, Soiltechnics commissioned a UXO specialist to undertake a preliminary risk review for the purpose of the ground investigation works phase only.

4.3.2 The review concluded that the UXO risk to the ground investigation works is low within the site boundary and therefore no special precautions were required.

4.4 Sampling

4.4.1 During the fieldwork, sampling of soil, rock and groundwater for geotechnical purposes has been undertaken in accordance with BS EN ISO 22475-1 *"Geotechnical Investigation and testing – sampling by drilling and excavation and groundwater measurements".*

4.4.2 Samples collected for chemical analysis have been taken and handled in accordance with BS ISO 18400-105:2017 *"Soil quality — Sampling Part 105: Packaging, transport, storage and preservation of samples".*

4.4.3 Various sampling and sub-sampling methodologies have been adopted as appropriate, with the primary aim of obtaining the highest quality sample class practicable.

4.4.4 Untested chemical and geotechnical samples will be held for a period of 4 weeks from the date of the first report issue, after which they will be disposed of with no further notice.

4.5 In situ testing

4.5.1 The following table summarises the field testing carried out. The results are summarised on individual exploratory hole logs where appropriate and detailed within the Appendices indicated.

Tests	Qty	Applicable standard / guidance	Location of Results
Standard penetration test (SPT)	15	BS EN ISO 22476-3	Included within logs
Pocket penetrometer	5	Manufacturer's instructions	Included within logs

Table 4-B: Summary of field testing undertaken

4.6 Monitoring Installations

4.6.1 Instrumentation installed within exploratory holes during the fieldwork are shown on the logs within Appendix B and are summarised below:

Installation type	Target Stratum	Qty	Exploratory hole ID
Combined gas and groundwater well	Made Ground	3	WLS01, WLS02, WLS03

Table 4-C: Summary of monitoring installations

4.7 Monitoring visits and groundwater sampling

4.7.1 A summary of the gas and groundwater spot monitoring visits undertaken to date is outlined in the table below. Results of the post fieldwork monitoring are presented in Appendix D.

4.7.2 In total 1 of the 6 No. monitoring visits have been completed to date, summarised below.

Date	Purpose
16/06/2023	Gas and groundwater spot monitoring

Table 4-D: Summary of post fieldwork spot monitoring

4.8 Investigation Constraints

4.8.1 No significant constraints were encountered which limited the design of the scope of works or the undertaking of fieldworks, however, exploratory locations were typically positioned to remain off existing football pitches to avoid any damage to the surfacing.

5 Laboratory testing

5.1 Overview

5.1.1 Samples obtained from exploratory holes were sent to independent accredited laboratories for geotechnical and chemical testing.

5.2 Chemical Testing

5.2.1 The chemical testing schedule was prepared by Soiltechnics using a targeted and judgemental approach, based upon the initial conceptual site model and fieldwork observations. This is further elaborated on within subsequent report sections.

5.2.2 Chemical laboratory test results are presented in Appendix E, and the total number of chemical tests undertaken is summarised below:

Sample Type	Qty	Testing	Suite Name
Soils	6	*Basic Contamination Suite* [metals, cyanides, PAHs, phenol]	ST Suite 1

Table 5-A: Summary of chemical laboratory testing

6 Ground Investigation Findings

6.1 Ground Model

6.1.1 Ground conditions encountered were relatively consistent across the site and were broadly in line with those anticipated from the desk study and previous investigations.

6.1.2 The tables below present our generalised interpretation of geological and hydrogeological conditions at the site. Unless otherwise stated in subsequent interpretive report sections, this represents the adopted ground model.

6.1.3 Further detail about the ground conditions encountered is provided in the relevant sub-sections below.

Stratum	Brief description	Top depth range (m bgl)	Adopted model top depth (m bgl)
Soft surfacing	Topsoil	G.L	G.L
Made Ground	Black to dark grey very gravelly clayey sand	0.1 to 0.5	0.2
Glaciofluvial Deposits	Very loose to medium dense grey to light brown slightly clayey fine to medium sand	1.75 to 3.5	3.5

Table 6-A: Ground Model

Type	Stratum	Groundwater depth and range (m bgl)	Comments
Perched water table	Basal Made Ground / Glaciofluvial Deposits	1.8 to 2.3	Groundwater remained stable upon completion.

Table 6-B: Hydrogeological Model

6.2 Topsoil

6.2.1 Topsoil was encountered in all exploratory locations and typically comprised a brown gravelly sand with gravels of brick, coal, clinker, glass, concrete and tile. Topsoil was observed between 0.1m and 0.5m in thickness.

6.2.2 Where topsoil deposits include quantities of anthropogenic materials such that riddling would be required on site to render it physically suitable for reuse, then the geological unit on the log has been classified as TOPSOIL – MADE GROUND.

6.2.3 A typical photograph of topsoil deposits encountered is presented below.



Figure 6-A: Topsoil profile in HP01

6.3 Made Ground

6.3.1 Made Ground was encountered within all exploratory locations where topsoil was penetrated. The Made Ground typically comprised a brown, black to dark grey very gravelly clayey sand with gravels of brick, glass, coal, clinker, concrete, plastic and tile. Within WLS03, the Made Ground was encountered as a clay at depth. Where penetrated, the Made Ground ranged in thickness from 1.6m to 3.35m.

6.3.2 A typical photograph of the Made Ground encountered is presented below.



Figure 6-B: Made Ground profile in WLS03

6.4 Glaciofluvial Deposits

6.4.1 Glaciofluvial Deposits were observed beneath the Made Ground in all locations where penetrated. The Glaciofluvial Deposits typically comprised of a loose to medium dense grey to light brown slightly clayey fine to medium sand. Locally the sand was interbedded within a light brown sandy clay. The Glaciofluvial Deposits extended beyond all depths of excavation (>5.45m bgl).

6.4.2 A typical photograph of the Made Ground encountered is presented below.



Figure 6-C: Glaciofluvial Deposit profile in WLS01

6.5 Groundwater

6.5.1 A summary of the groundwater level data obtained during the fieldworks phase is presented below.

Exploratory hole ID	Groundwater observation
WLS01	Perched groundwater encountered at 1.8m depth. Water level remained stable upon completion of borehole.
WLS02	Perched groundwater encountered at 2.3m depth. Water level remained stable upon completion of borehole.

Table 6-C: Summary of groundwater observations during the fieldworks

6.5.2 A summary of the groundwater level data obtained during the monitoring phase is presented below and is detailed within Appendix D.

Targeted strata / Aquifer	Exploratory hole ID	Instrument Type(s)	Range during monitoring period
			Water depth (m bgl)
Perched Water within Made Ground	WLS01, WLS02, WLS03	Well	2.32 – 2.84 in WLS02 and WLS03 respectively

Table 6-D: Summary of groundwater monitoring visits

6.5.3 Groundwater levels are expected to vary seasonally and in response to recent weather conditions. Long term monitoring will provide a reasonable quantification of such variation.

6.6 Evidence of possible contamination

6.6.1 The table below summarises the potential contamination noted during the ground investigation works.

Exploratory hole ID / Area	Depth of observation (m bgl)	Stratum	Description
WLS02	2.7 – 3.0	Made Ground	Olfactory evidence of hydrocarbons
WLS03	3.1 – 3.3	Made Ground	Olfactory evidence of hydrocarbons

Table 6-E: Summary of potential contamination noted during the investigation works

6.7 Obstructions and Instability

6.7.1 The progress of the ground investigation works was not generally affected by below ground obstructions or instability.

7 Tier 2 Generic Quantitative Risk Assessment

7.1 Objectives

7.1.1 The objective of this generic quantitative risk assessment (GQRA) is to further assess the potential contaminant linkages (PCLs) identified by the preliminary risk assessment using the following:

- The findings of the intrusive site investigation and resulting site specific ground and hydrogeological model.
- Laboratory analysis of soils and groundwater.
- Monitoring of ground gases and vapours.

7.2 Fieldwork observations

7.2.1 Hydrocarbon contamination has been observed within the deep Made Ground beneath the area of the proposed pavilion. The true extent of the contamination has not been delineated at this stage, however, given its depth the only risk to end users is considered through inhalation of vapours, thus the risk of harm to health of end users remains moderate.

7.2.2 For construction operatives the risk associated with the inhalation of vapours from deep hydrocarbons is again considered to be low in the early stages of construction due to the aerated outdoor setting. However, as the pavilion is constructed, there is a possible risk of vapour build-up within enclosed spaces (same risk for the proposed end users).

7.2.3 Based on the above, the construction operative contaminant linkage has been updated as per the below.

Source	Pathways	Receptor	Preliminary Risk Assessment *(probability of harm x consequence)*
All other contamination sources, excluding asbestos	Vapour inhalation	Construction Operatives	**Risk: Moderate** (likely – medium)

Table 7-A: Fieldwork Update to Conceptual Site Model

7.2.4 The risk associated with hydrocarbon vapours to adjacent site users remains low given their distance from the recorded location of the hydrocarbons.

7.3 Laboratory Testing Rationale

7.3.1 Laboratory testing has been scheduled by targeting potential contaminant linkages identified within the iCSM and observations made during fieldworks. The sampling and testing strategy is based on a judgemental approach.

7.3.2 The testing of the general Made Ground deposits was undertaken largely within the Topsoil – Made Ground and shallow Made Ground as it is understood such deposits will be removed as part of the proposed pitch and car parking development. It is assumed that following 'strip' such soils will be reused elsewhere on the site for either minor landscaping and/or creation earth batters immediately adjacent to the AGP.

7.3.3 Sampling beneath the proposed pavilion has not been undertaken as the Made Ground is considered largely homogenous across the site and pathways to end users are limited to only vapours associated with hydrocarbons at depth (owing to the presence of building and hardstanding throughout). Vapour monitoring is being undertaken during the gas monitoring programme to quantify the risk.

7.4 Generic Assessment Criteria

7.4.1 Assessment of laboratory test data has been carried out using published generic assessment criteria (GACs). The GACs act as screening values to provide a 'trigger' to an assessor that soil concentrations above these limits might present an unacceptable risk.

7.4.2 Various GAC sources are used within this report. Key assumptions are made in the derivation of screening values in regard to their use and application, and exposure modelling is based on precautionary national scenarios. This generic approach can result in an overly conservative assessment; therefore, the assessor is required to review the outcome of the GQRA screening in the context of the site specific CSM and identified potential contaminant linkages.

7.4.3 Asbestos does not currently have published GACs which can be used for generic assessment purposes, at this stage we have adopted a present / absent trigger limit.

7.4.4 Specific details regarding the published GAC sources chosen and any parameter refinements made are summarised within Appendix F, along with the order of preference where multiple GAC sources are available. The exposure models adopted are discussed in the relevant sections below.

7.5 Human Health GQRA (soils and vapour)

7.5.1 The results of the human health screening assessment for soils and vapours are detailed in Appendix F. The following table outlines the exposure models adopted, along with summarising the outcome of each screening assessment.

Receptor	Exposure Model	Outcome
All human health receptors	Presence of asbestos	No suspected ACMs observed during fieldworks. No fibres detected through laboratory analysis.
Proposed users	Public Open Space (POS) – Park	1 sample showing multiple PAH exceedances.
Construction operatives	Acute occupational exposure (assumed no PPE worn)	No exceedances.
Adjacent site users and the public	Acute off-site public exposure during construction phase	No exceedances.

Table 7-B: Human health GQRA models and outcomes

7.5.2 The table below summarises the instances where contaminants have exceeded the generic screening criteria.

Receptor	Strata	Contaminant	Locations & Depths	Test Result / Range (mg/kg)	GAC (mg/kg)
Proposed users	Topsoil - Made Ground	Benzo(a)pyrene	HP06 at 0.1m	46	21
		Benzo(b)fluoranthene		58	16
		Dibenz(a,h)anthracene		6.6	1.4

Table 7-C: Human health GQRA exceedances

7.6 Proposed Site Users Risk Assessment (soils and vapour)

7.6.1 All reported concentrations of contaminants are below the relevant generic assessment criteria for human health receptors, with the exception for benzo(a)pyrene, benzo(b)fluoranthene and dibenz(a,h)anthracene from a single sample of Topsoil obtained from HP06.

7.6.2 All exceedances are recorded within an order of magnitude of the GAC and as such are considered marginal. Furthermore, all other samples tested recorded low concentrations of the above 3 No. mentioned contaminants, within the same soil type. On this basis, the measured exceedances are not considered to present a risk to human receptors, particularly upon site strip and mixing of soils.

7.6.3 There remains a potential risk associated with hydrocarbon vapours at depth beneath the proposed pavilion. Vapour monitoring is being undertaken as part of the gas monitoring programme, and this assessment will be updated following completion.

7.6.4 However, based on the assessment presented in Section 0, gas protection measures are likely to be required within the proposed pavilion. Providing such measures are designed to mitigate against the migration of any potential hydrocarbon vapours into the building, the risk of harm to human health from vapours which could be present is considered to be low.

7.7 Construction Workers Risk Assessment

7.7.1 Analysis indicates that contaminant levels do not pose an acute risk to construction workers. In general, standard PPE and hygiene protocols for working on brownfield sites is considered adequate to mitigate against the potential risk from contaminants on site, and no special precautions are required.

7.7.2 There, however, remains a potential vapour risk during construction as described in Section 7.6 above, albeit a low risk.

7.8 Adjacent Site Users Risk Assessment

7.8.1 Based upon the laboratory results and our understanding of the site, there is not considered to be an unacceptable level of risk to adjacent site users, both during construction and following completion of the development.

7.9 Ground Gas Monitoring Rationale

7.9.1 Ground gas sources which were identified in the iCSM as potentially posing an unacceptable risk to development were as follows:

- Deep Made Ground associated with former landfill.
- Shallow worked coal seams.

7.9.2 3 No. shallow gas monitoring wells were installed at the site, and a total of 1 of 6 No. visits has been undertaken to date.

7.9.3 All gas monitoring wells were installed within the Made Ground and placed beneath the area of the proposed pavilion building.

7.10 Ground Gas Monitoring Results

7.10.1 A summary of the gas monitoring results follows, with the full results detailed within Appendix D.

- Gas flow rates were observed at the limit of detection (0.1 l/hr).
- Steady concentrations of methane were recorded at or below the limit of detection pf 0.1%, except for one location where a peak concentration of 0.4% was detected (steady of 0.1%).
- Concentrations of carbon dioxide were in the range of 2.4% to 8.6%.
- Steady concentrations of oxygen were marginally depleted within all boreholes, down to concentrations between 13.0% and 16.2%, respectively.

7.11 Preliminary Updated Ground Gas Risk Assessment

7.11.1 Elevated levels of CO_2 and marginally depleted oxygen have been detected in all three monitoring wells.

7.11.2 In general, carbon dioxide and depleted oxygen are frequently encountered in monitoring wells installed in superficial deposits. This is caused by carbon cycling processes that occur in the vadose zone such as biological oxidation. In such cases, steady state flow rates from unflooded wells will be low and consistently less than 1 l/h. These processes are widespread in soils and rocks across the UK and do not cause any significant surface emissions of gas.

7.11.3 Whilst the preliminary monitoring results shows an absence of any significant flow and minimal methane, which suggests an overall low risk to the site, the CSM must be taken into account.

7.11.4 An actively gassing landfill site would be expected to produce consistently high flow rates as the primary migration mechanism would be pressure-driven, and contain elevated methane in the region of ~40% to 60%. Preliminary monitoring indicates that such conditions don't exist and therefore the landfill is not a significant source of gas.

7.11.5 Migration from shallow worked coal seams, however, would occur due to expansion of an underground reservoir of gas during an extreme low-atmospheric pressure event, and the subsequent migration of the gas through preferential pathways. Therefore, infrequent spot monitoring is unlikely to detect mine gases in the shallow sub-surface. The detailed coal mining risk assessment suggests a worked coal seam is present approximately 26m bgl, and the confining low permeability Devensian Till may have been largely removed during previous mining and landfilling works. There is therefore a potential source and migration pathway which exists which cannot be ruled out at this stage.

7.11.6 Whilst methane emissions have not been observed at high concentrations to date, the risk associated to mine gas emissions cannot be discredited from the data obtained to date (from the single monitoring visit), with a final assessment provided upon completion of the gas and groundwater monitoring regime.

7.11.7 On the above preliminary assessment, there is a potential onsite risk from ground gas which could migrate into proposed structures on site, and ground gas protection measures are required.

7.11.8 The traditional CS classification and point-score system is not directly applicable where a ground gas risk from mine workings is present. Gas protection measures must be able to accommodate a large volume of gas migrating at speed, to protect against a potential surge of methane migrating from workings during storm events. It is therefore recommended gas protection includes the following:

- Passive ventilation, comprising:
    - ≥150mm ventilated clear sub-floor void, or;
    - ≥60mm ventilated polystyrene shuttering/void former.
- Gas resistant membrane

7.11.9 Further details are presented within British Standards BS8485:2015+A1:2019 *'Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new building'*.

7.11.10 It is worthy to note that the above assessment is preliminary until completion of the gas, vapour and groundwater monitoring regime.

7.12 Water supply pipes

7.12.1 We have not carried out a full site investigation as set out in the UK Water Industry Research (UKWIR) document *'Guidance for the selection of Water supply pipes to be used in Brownfield sites'.*

7.12.2 In all instances, it is advised to consult the water company for advice to determine if protective pipe is necessary or if further assessment and investigation works are warranted. Irrespective of the assessment made here, water companies may insist on barrier pipe being installed. Once the initial consultation has taken place, we are happy to support you in any further assessments that may be required.

7.12.3 The UKWIR document advises a trigger concentration of 0.125mg/kg for the 'extended VOC (volatile organic compounds) suite', which includes the PAH (polycyclic aromatic hydrocarbons) suite that has been included in the soil analysis during this investigation.

7.12.4 The maximum summed concentration of PAH congeners from individual samples obtained from the site at likely pipe depths (0.50m to 1.50m bgl) exceeds the trigger concentration of 0.125mg/kg and on this basis the installation of protective barrier-pipes in below ground water infrastructure is recommended as a precaution, unless service trenches are over-dug and backfilled with suitable clean materials.

7.13 Updated Conceptual Site Model (uCSM)

7.13.1 Following on from the discussions above, we have tabulated the updated conceptual site model overleaf.

7.13.2 The table below presents our approach to the assessment of risks associated with potential contaminant linkages. The categories are based upon the definitions within CIRIA C552 (2001), with the addition of a 'negligible likelihood' scenario, which is to be used where there is no realistic scenario in which harm could occur.

		Consequence of harm			
		Severe	**Medium**	**Mild**	**Minor**
Probability of harm	**High likelihood**	***Risk: Very high*** (high – severe)	***Risk: High*** (high – medium)	**Risk: Moderate** (high – mild)	**Risk: Moderate/Low** (high – minor)
	Likely	***Risk: High*** (likely – severe)	**Risk: Moderate** (likely – medium)	**Risk: Moderate/Low** (likely – mild)	**Risk: Low risk** (likely - minor)
	Low Likelihood	***Risk: Moderate*** (low – severe)	**Risk: Moderate/Low** (low – medium)	**Risk: Low** (low – mild)	**Risk: Very low** (low – minor)
	Unlikely	**Risk: Moderate/Low** (unlikely – severe)	**Risk: Low** (unlikely – medium)	**Risk: Very low** (unlikely – mild)	**Risk: Very low** (unlikely – minor)
	Negligible Likelihood	***Risk: Low*** *(negligible– severe)*	***Risk: Very Low*** (negligible– medium)	***Risk: Very Low*** (negligible– mild)	***Risk: Negligible*** (negligible– minor)

Table 7-D: CSM Risk Ratings

RECEPTOR: PROPOSED END USERS				
Potential Source	**Contaminants of Concern**	**Pathway**	**Tier 2 Risk Assessment** *(probability of harm x consequence)*	**Discussion**
Historic works (dyeing and finishing) and Made Ground associated with former landfill and historic earthworks	Metals, PAHs, TPH, phenol	Ingestion, inhalation and contact with soils and dusts	**Risk: Low** (unlikely – medium)	No exceedance in contamination within the Topsoil – Made Ground and shallow Made Ground soils, with the exception for 3 No. PAHs, all recorded within an order of magnitude above the GAC in one sample location. Exceedance considered marginal and for this reason the risk to end users is considered low, with respects to a public open space (park) setting.
	Asbestos	Inhalation of dusts	***Risk: Very Low*** (negligible– medium)	No evidence of identifiable ACM during fieldwork nor identified within laboratory samples tested.
	TPH	Vapour inhalation	**Risk: Low** (unlikely – medium)	Risk to be refined following completion of PID vapour monitoring, however, gas protection measures are likely to be required, which should incorporate vapour protection as a precaution.
	Permanent Ground Gases (CH_4 & CO_2)	Migration through the sub-surface into enclosed spaces	**Risk: Moderate/Low** (unlikely – severe)	Elevated concentrations of carbon dioxide recorded during first monitoring visit, possibly associated to former landfilled Made Ground.
Worked Coal Seams	Permanent Ground Gases (CH_4 & CO_2)	Migration through the sub-surface into enclosed spaces	***Risk: Moderate*** (low – severe)	Potential migration mechanism identified. Gas protection measures recommended as a precaution.
Historic works/mills within 100m	Metals, PAHs, TPH, phenol	Ingestion, inhalation and contact with soils, dusts and vapours	***Risk: Very Low*** (negligible– medium)	No exceedance in contamination within the Topsoil – Made Ground and shallow Made Ground soils, with the exception for 3 No. PAHs, all recorded within an order of magnitude above the GAC in one sample location. Exceedance considered marginal and for this reason the risk to end users is considered low, with respects to a public open space (park) setting

Table 7-E: uCSM – Proposed End Users

RECEPTOR: CONSTRUCTION WORKERS				
Potential Source	**Contaminants of Concern**	**Pathway**	**Tier 2 Risk Assessment** *(probability of harm x consequence)*	**Discussion**
Made Ground	Asbestos fibres and ACMs	Inhalation of dusts	***Risk: Very Low*** (negligible– medium)	No evidence of identifiable ACM during fieldwork nor identified within laboratory samples tested.
All other contamination sources, excluding asbestos	Metals, PAHs, TPHs	Ingestion, inhalation and contact with soils and dusts	**Risk: Low** *(low – mild)*	No gross contamination of high-risk contaminants anticipated/recorded (e.g. cyanide, benzene, and vinyl chloride). Standard PPE and hygiene protocols for working on brownfield sites are likely to be sufficient to the mitigate risk.
	TPH	Vapour inhalation	**Risk: Low** *(low – mild)*	Risk to be refined following completion of PID vapour monitoring, however, gas protection measures are likely to be required, which should incorporate vapour protection as a precaution.

Table 7-F: uCSM – Acute Exposure to Construction Workers

RECEPTOR: ADJACENT SITE USERS DURING THE CONSTRUCTION PHASE				
Potential Source	**Contaminants of Concern**	**Pathway**	**Tier 2 Risk Assessment** *(probability of harm x consequence)*	**Discussion**
Asbestos fibres and ACMs within the Made Ground	Asbestos	Inhalation of dusts	***Risk: Very Low*** (negligible– medium)	No evidence of identifiable ACM during fieldwork nor identified within laboratory samples tested.
All other potential contaminant sources	Metals, PAHs, TPH	Ingestion, inhalation and contact with soils, dusts and vapours	**Risk: Low** *(unlikely – medium))*	Unlikely to pose a viable risk to off-site receptors.

Table 7-G: uCSM – Acute Exposure to Adjacent Site Users

7.14 Risk Assessment Conclusions

7.14.1 The updated CSM has identified potential contaminant linkages which currently exceed the low-risk threshold and require further investigation, mitigation, or remediation. These are discussed in further detail below.

Contaminant Source	Receptor	Recommended Action	Discussion
Olfactory evidence of hydrocarbons at depth beneath proposed pavilion area.	Proposed end users and construction operatives	Monitoring (ongoing)	PID monitoring is recommended given the olfactory evidence of TPH contamination at depth. The assessment will be completed pending ongoing monitoring results. However, gas protection measures are likely to be required, which should incorporate vapour protection as a precaution.
Ground gas	Proposed end users	Remediation	Elevated carbon dioxide encountered, and there is a potential risk from mine gas from shallow worked seams.

Table 7-H: GQRA Risk Assessment Conclusions

7.14.2 Once all investigations are completed, remediation requirements will be fully identified where necessary.

7.15 Ground Gas Protection Measures

7.15.1 For clarity, the likely requirement for ground gas protection measures is summarised in the table below.

Gas Type	Contaminant of Concern	Protection Measures Required?
Permanent Ground Gases	Carbon Dioxide	Ground gas protection measures are required. Recommended to incorporate a ventilated sub-floor void and gas resistance membrane. Monitoring ongoing, assessment is preliminary.
Hydrocarbon Vapours	TPH	Olfactory evidence of TPH contamination at depth beneath proposed pavilion areas, to be assessed further following completion of vapour monitoring. However, gas protection measures are likely to be required, which should incorporate vapour protection as a precaution.
Radon	N/A	None required.

Table 7-I: Ground Gas Protection Measures Requirement

7.15.2 A detailed gas protection design report will also need to be prepared by a suitably competent specialist in accordance with BS8485. The report should include a material and contractor requirements, detailed designs, and preconstruction drawings.

7.15.3 The design report should also include a Verification Plan which is carried out in accordance with CIRIA C735 (2014) and be submitted to the Local Authority in advance to ensure agreement with the proposals.

7.16 Unexpected and Previously Unencountered Contamination

7.16.1 With the development of any site, there is a residual risk of contamination being found that is unexpected or has not been encountered during investigation or other siteworks.

7.16.2 Should any previously unencountered and unexpected contamination be encountered, works should be temporarily halted and Soiltechnics informed. The Consultant should then assess the situation to determine what remedial action is required and inform the Local Authority at the earliest opportunity.

7.16.3 It is often a requirement of Local Authority planning conditions that the building/demolition contractor has a contamination discovery/contingency strategy in place for dealing with unexpected contamination. We are pleased to provide advice on such a strategy if required.

8 Recommendations for further works

8.1.1 The recommendations for further works will be fully determined following completion of the gas, groundwater and vapour monitoring as a report revision.

8.1.2 As a minimum a Gas Design Report will be required to outline the protection measures, provide detailed specifications and provide a verification plan for the installation of ground gas protection measures.

☒

Appendix A Drawings



Key:

- Site Boundary
- Proposed Pitch Boundary
- Windowless Sampling Borehole Installed
- Hand Pit
- Dynamic Cone Penetrometer Test

Notes

1) Base image provided by Google.

2) All drawn features are approximate.

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REV	DATE	COMMENT ON VARIATION
A	June 2023	First issue

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PROJECT
Redbank Playing Fields

TITLE
Exploratory Hole Plane

PROJECT No.	DRAWING	REVISION
STV6052	01	A

Redbank Playing Fields

Artificial Grass Pitch

0 5M 50M

2M 10M 25M

SSL Surfacing Standards Limited
CONSULTANTS
Surfacing Standards LTD
Office 2, Empingham House
Ayston Road, Uppingham, LE15 9NY
01536 400 012

1. DO NOT SCALE FROM DRAWING. ALL DIMENSIONS TO BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF WORKS.
2. THIS DRAWING IS COPYRIGHT TO SURFACING STANDARDS LTD
3. ALL PERSONNEL SHOULD BE AWARE OF THE HEALTH AND SAFETY PLAN WHICH IS RETAINED IN THE SITE MANAGERS OFFICE

Natural 82x50m 11v11 Football Pitch

Natural 91x55m 11v11 Football Pitch

Natural grass pitches goal storage area

6Nr. Artificial pitch goal storage area

6Nr. 15m high floodlighting column

'Respect' spectator hardstanding

Artificial Grass Pitch

1:8 batters down to existing levels

Pavilion

Note that levels shown are to outer 0.3m run off areas

AGP batters down to existing levels. Area needs to be raised by others to tie in with proposed car park levels (cut/fill and earthworks by others).

Car park to accommodate 82 spaces, 5 DDA compliant spaces and 2 minibus spaces

Artificial Turf Playing Area

Footpaths & Hard Standing Areas

4.5m High Fence Line

3.0m High Fence Line

2.0m High Fence Line

1.2m High Fence Line

0.00 Proposed AGP Levels to outer 0.3m mowing margin

Notes:

106x70m Artificial Grass Pitch

Line Markings:

- 1Nr. 100x64m 11v11 (white)
- 2Nr. 54.8x46m 9v9 (blue)
- 2Nr. 55x37m 7v7 (yellow)
- 4Nr. 5v5 37x27m (red)
- 4Nr. 47x30m Training Grids (red)

N

REV	DESCRIPTION	REV	CK	DATE
06	PLANNING ISSUE	ME	WB	29.11.22
05	PLANNING ISSUE	ME	WB	09.11.22
04	PLANNING ISSUE	ME	WB	26.08.22
03	PLANNING ISSUE - Floodlights Moved 4m	ME	WB	11.08.22
02	PLANNING ISSUE	ME	WB	21.06.22
01	PLANNING ISSUE	ME	WB	26.05.22
00	PLANNING ISSUE	ME	WB	10.05.22

Surfacing Standards Limited
SPORTS PITCH CONSULTANTS

AUTHOR: ME

TITLE: *Redbank Playing Fields*
Artificial Grass Pitch
Proposed Site Plan

PROJECT	SCALE	SIZE
CLS017	1:500	A1

DRAWING No.	REVISION
03	06

Appendix B Exploratory Hole Logs: Trial Pits

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Key to legends

Composite materials, soils and lithology							
	Topsoil		Made Ground		Boulders		Chalk
	Clay		Coal		Cobbles		Concrete
	Gravel		Limestone		Mudstone		Peat
	Sand		Sandstone		Silt		Siltstone

Note: Composite soil types are signified by combined symbols.

Key to 'test results' and 'sampling' columns

Test result	
Depth	Records depth that the test was carried out (i.e.: at 2.10m or between 2.10m and 2.55m)
Result	PP – Pocket penetrometer result reported as an equivalent undrained shear strength (kN/m²) by applying a factor of 50. SV – Hand held shear vane result reported as an undrained shear strength (kN/m²). Where multiple readings are taken at the same level the average value is shown on the log. * Signifies that instrument limit reached.

Sampling		
From (m) To (m)	Records depth of sampling	
Type	D	Disturbed sample
	B	Bulk disturbed sample
	ES	Environmental sample
	W	Water sample
	U	Undisturbed thick-walled sample 100mm diameter sampler
	UT	Undisturbed thin walled sample 100mm diameter sampler
	UTF	Failed undisturbed sample

Water observations

Described at foot of log and shown in the 'water strike' column.

▼ Water level observed after specified delay in drilling

▽ Water strike

Density

Density recorded in brackets determined by qualitative field assessment or inferred from density testing and soil descriptions from across the site (i.e.: [Medium dense]).

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STRATA				WATER STRIKES	IN SITU TESTING		SAMPLING		
DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
Grass onto brown gravelly slightly clayey fine to medium SAND with occasional rootlets. Gravel is fine to coarse subangular brick, glass and concrete. (TOPSOIL - MADE GROUND)	0.20						0.10		ES
TRIAL PIT TERMINATED AT 0.20m									

Notes Trial pit sides remained upright and stable upon completion.	**Title** Trial pit record	**Dimensions (w x l)** 0.30m x 0.30m	**Date(s)** 19/05/2023
	Method Hand tools	**Logged by** JT	**Sheet number** Sheet 1 of 1
Groundwater observations No groundwater encountered.	**Level (m OD)** -	**Compiled by** OPDW	**Revision** A
	Co-ordinates -	**Checked by** JP	**HP01**

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STRATA				WATER STRIKES	IN SITU TESTING		SAMPLING		
DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
Grass onto brown gravelly slightly clayey fine to medium SAND with occasional rootlets. Gravel is fine to coarse subangular brick, glass and concrete. (TOPSOIL - MADE GROUND)	0.20						0.10		ES
TRIAL PIT TERMINATED AT 0.20m									

Notes Trial pit sides remained upright and stable upon completion.	**Title** Trial pit record	**Dimensions (w x l)** 0.30m x 0.30m	**Date(s)** 19/05/2023
	Method Hand tools	**Logged by** JT	**Sheet number** Sheet 1 of 1
Groundwater observations No groundwater encountered.	**Level (m OD)** -	**Compiled by** OPDW	**Revision** A
	Co-ordinates -	**Checked by** JP	**HP02**

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STRATA				WATER STRIKES	IN SITU TESTING		SAMPLING		
DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
Grass onto brown gravelly slightly clayey fine to medium SAND with occasional rootlets. Gravel is fine to coarse subangular brick, glass and concrete. (TOPSOIL - MADE GROUND)	0.20						0.10		ES
TRIAL PIT TERMINATED AT 0.20m									

Notes Trial pit sides remained upright and stable upon completion.	**Title** Trial pit record	**Dimensions (w x l)** 0.30m x 0.30m	**Date(s)** 19/05/2023
	Method Hand tools	**Logged by** JT	**Sheet number** Sheet 1 of 1
Groundwater observations No groundwater encountered.	**Level (m OD)** -	**Compiled by** OPDW	**Revision** A
	Co-ordinates -	**Checked by** JP	**HP03**

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STRATA				WATER STRIKES	IN SITU TESTING		SAMPLING		
DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
Grass onto brown gravelly slightly clayey fine to medium SAND with occasional rootlets. Gravel is fine to coarse subangular brick, glass and concrete. (TOPSOIL - MADE GROUND)	0.15						0.10		ES
Brown very gravelly slightly clayey fine to medium SAND. Gravel is fine to coarse angular to subangular brick, concrete, glass and tile. (MADE GROUND)	0.50						0.15	0.50	B
TRIAL PIT TERMINATED AT 0.50m									

Notes Trial pit sides remained upright and stable upon completion.	**Title** Trial pit record	**Dimensions (w x l)** 0.30m x 0.30m	**Date(s)** 19/05/2023
	Method Hand tools	**Logged by** JT	**Sheet number** Sheet 1 of 1
Groundwater observations No groundwater encountered.	**Level (m OD)** -	**Compiled by** OPDW	**Revision** A
	Co-ordinates -	**Checked by** JP	**HP04**

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STRATA				WATER STRIKES	IN SITU TESTING		SAMPLING		
DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
Grass onto brown gravelly slightly clayey fine to medium SAND with occasional rootlets. Gravel is fine to coarse subangular brick, glass and concrete. (TOPSOIL - MADE GROUND)	0.15						0.10		ES
Brown very gravelly slightly clayey fine to medium SAND. Gravel is fine to coarse angular to subangular brick, concrete, glass and tile. (MADE GROUND)	0.50						0.15	0.50	B
TRIAL PIT TERMINATED AT 0.50m									

Notes Trial pit sides remained upright and stable upon completion.	**Title** Trial pit record	**Dimensions (w x l)** 0.30m x 0.30m	**Date(s)** 19/05/2023
	Method Hand tools	**Logged by** JT	**Sheet number** Sheet 1 of 1
Groundwater observations No groundwater encountered.	**Level (m OD)** -	**Compiled by** OPDW	**Revision** A
	Co-ordinates -	**Checked by** JP	**HP05**

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STRATA				WATER STRIKES	IN SITU TESTING		SAMPLING		
DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
Grass onto brown gravelly slightly clayey fine to medium SAND with occasional rootlets. Gravel is fine to coarse subangular brick, glass and concrete. (TOPSOIL - MADE GROUND)	0.20						0.10		ES
TRIAL PIT TERMINATED AT 0.20m									

Notes Trial pit sides remained upright and stable upon completion.	**Title** Trial pit record	**Dimensions (w x l)** 0.30m x 0.30m	**Date(s)** 19/05/2023
	Method Hand tools	**Logged by** JT	**Sheet number** Sheet 1 of 1
Groundwater observations No groundwater encountered.	**Level (m OD)** -	**Compiled by** OPDW	**Revision** A
	Co-ordinates -	**Checked by** JP	**HP06**

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STRATA				WATER STRIKES	IN SITU TESTING		SAMPLING		
DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
Grass onto brown gravelly slightly clayey fine to medium SAND. Gravel is fine to medium angular to subangular glass, brick and clinker. (TOPSOIL - MADE GROUND)							0.10		ES
	0.20						0.20	1.00	B
Brown very gravelly fine to medium SAND with frequent cobbles of angular brick. Gravel is fine to coarse angular to subangular brick, concrete, clinker and coal. (MADE GROUND)									
	1.00								
TRIAL PIT TERMINATED AT 1.00m									

Notes Trial pit sides remained upright and stable upon completion.	**Title** Trial pit record	**Dimensions (w x l)** 0.30m x 0.30m	**Date(s)** 19/05/2023
	Method Hand tools	**Logged by** JT	**Sheet number** Sheet 1 of 1
Groundwater observations No groundwater encountered.	**Level (m OD)** -	**Compiled by** OPDW	**Revision** A
	Co-ordinates -	**Checked by** JP	**HP07**

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STRATA				WATER STRIKES	IN SITU TESTING		SAMPLING		
DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
Grass onto brown gravelly slightly clayey fine to medium SAND. Gravel is fine to medium subangular brick, glass and concrete. (TOPSOIL - MADE GROUND)	0.10						0.10		ES
Brown very gravelly medium to coarse SAND with frequent cobbles of subangular brick. Gravel is fine to coarse angular to subangular brick, glass, tile and clinker. (MADE GROUND)							0.10	1.00	B
TRIAL PIT TERMINATED AT 1.00m	1.00								

Notes Trial pit sides remained upright and stable upon completion.	**Title** Trial pit record	**Dimensions (w x l)** 0.30m x 0.30m	**Date(s)** 19/05/2023
	Method Hand tools	**Logged by** JT	**Sheet number** Sheet 1 of 1
Groundwater observations No groundwater encountered.	**Level (m OD)** -	**Compiled by** OPDW	**Revision** A
	Co-ordinates -	**Checked by** JP	**HP08**

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STRATA				WATER STRIKES	IN SITU TESTING		SAMPLING		
DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
Grass onto brown gravelly slightly clayey fine to medium SAND. Gravel is fine to medium angular to subangular brick, concrete, clinker and glass. (TOPSOIL - MADE GROUND)	0.14						0.10		ES
Brown very gravelly slightly clayey medium to coarse SAND with frequent cobbles of subangular brick. Gravel is fine to coarse angular to subangular glass, plastic, brick and clinker. (MADE GROUND)							0.14	1.00	B
TRIAL PIT TERMINATED AT 1.00m	1.00								

Notes Trial pit sides remained upright and stable upon completion.	**Title** Trial pit record	**Dimensions (w x l)** 0.30m x 0.30m	**Date(s)** 19/05/2023
	Method Hand tools	**Logged by** JT	**Sheet number** Sheet 1 of 1
Groundwater observations No groundwater encountered.	**Level (m OD)** -	**Compiled by** OPDW	**Revision** A
	Co-ordinates -	**Checked by** JP	**HP09**

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STRATA				WATER STRIKES	IN SITU TESTING		SAMPLING		
DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
Grass onto brown gravelly slightly clayey fine SAND. Gravel is fine to coarse, angular to subangular brick, tile and glass. (TOPSOIL - MADE GROUND)	0.17						0.10		ES
Brown very gravelly slightly clayey medium to coarse SAND. Gravel is medium to coarse angular to subangular brick, glass, clinker and concrete. (MADE GROUND)							0.17	1.00	B
TRIAL PIT TERMINATED AT 1.00m	1.00								

Notes Trial pit sides remained upright and stable upon completion.	**Title** Trial pit record	**Dimensions (w x l)** 0.30m x 0.30m	**Date(s)** 19/05/2023
	Method Hand tools	**Logged by** JT	**Sheet number** Sheet 1 of 1
Groundwater observations No groundwater encountered.	**Level (m OD)** -	**Compiled by** OPDW	**Revision** A
	Co-ordinates -	**Checked by** JP	**HP10**

Appendix C Exploratory Hole Logs: Boreholes

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Key to legends

Composite materials, soils and lithology							
	Topsoil		Made Ground		Boulders		Chalk
	Clay		Coal		Cobbles		Concrete
	Gravel		Limestone		Mudstone		Peat
	Sand		Sandstone		Silt		Siltstone

Note: Composite soil types are signified by combined symbols.

Key to 'test results' and 'sampling' columns

Test result		
Depth	Records depth that the test was carried out (i.e.: at 2.10m or between 2.10m and 2.55m)	
Result	PP – Pocket penetrometer result reported as an equivalent undrained shear strength (kN/m^2) by applying a factor of 50. SV – Hand held shear vane result reported as an undrained shear strength (kN/m^2). Where multiple readings are taken at the same level the average value is shown on the log. * Signifies that instrument limit reached.	
	SPT – Standard Penetration Test result (N value) (uncorrected)[1,2,3] SPT(c) – Standard Penetration Test result (solid cone) (N value) (uncorrected)[1,2,3]	
	UT – Undisturbed sample 100mm diameter sampler with number of blows of driving equipment required to obtain sample	

Sampling		
From (m) To (m)	Records depth of sampling	
Type	D	Disturbed sample
	B	Bulk disturbed sample
	ES	Environmental sample
	W	Water sample
	U	Undisturbed thick-walled sample 100mm diameter sampler
	UT	Undisturbed thin walled sample 100mm diameter sampler
	UTF	Failed undisturbed sample

Note 1: Seating blows recorded in brackets.

Note 2: Casing depth records depth of casing when SPT or SPT(c) was carried out.

Note 3: Water depth records depth of water when SPT or SPT(c) was carried out.

Water observations

Described at foot of log and shown in the 'water strike' column.

Water level observed after specified delay in drilling

Water strike

Installation details

	Gravel filter		Bentonite
	Slotted pipe		Unslotted pipe
	Arisings		Grout
	Extensometer magnet		Vibrating wire piezometer

Density

Density recorded in brackets determined by qualitative field assessment or inferred from density testing and soil descriptions from across the site (i.e.: [Medium dense]).

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INSTALL	STRATA DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND	WATER STRIKES	SPT TESTING TYPE / DEPTH (m)	SPT TESTING RESULT	SPT TESTING CASING DEPTH (m)	SPT TESTING WATER LEVEL (m)	OTHER IN SITU TESTING TYPE / DEPTH (m)	OTHER IN SITU TESTING RESULT	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING TYPE
	Grass onto brown slightly gravelly clayey medium to coarse SAND. Gravel is fine to coarse angular to subangular coal, brick and clinker (TOPSOIL - MADE GROUND)	0.15										0.10		D
												0.15	1.00	B
	Very loose dark grey very gravelly slightly clayey medium to coarse SAND. Gravel is fine to coarse angular to subangular glass, brick, clinker and coal (MADE GROUND)											0.70		D
						S 1.00 - 1.45	(0)					1.00	1.45	D
												1.00	1.75	B
	Very soft light grey mottled orangish brown sandy CLAY. (GLACIOFLUVIAL DEPOSITS)	1.75										1.80		D
						S 2.00 - 2.45	(3) 9					2.00	2.45	D
										PP 2.30	PP=25			
	Loose becoming medium dense light brown clayey fine to medium SAND. (GLACIOFLUVIAL DEPOSITS)	2.50										2.50	3.70	B
						S 3.00 - 3.45	(4) 8					3.00	3.45	D
	...between 3.7m and 3.9m depth, light brown sandy CLAY.											3.70		D
										PP 3.80	PP=25			
						S 4.00 - 4.45	(6) 11					3.90	5.00	B
												4.00	4.45	D
	...from 4.7m depth, becoming gravelly. Gravel is medium subangular sandstone.													
						S 5.00 - 5.45	(6) 16					5.00	5.45	D
	BOREHOLE TERMINATED AT 5.45m	5.45												

Notes
Standpipe installed to 1.7m depth.

Groundwater observations
Groundwater encountered at 1.8m depth. Water level remained stable upon completion.

Title
Dynamic windowless sampling record

Date(s)
19/05/2023

Recovery details

Range (m)	Recovery (%)
0.00 - 1.00	90
1.00 - 2.00	60
2.00 - 3.00	90
3.00 - 4.00	70
4.00 - 5.00	70

Method
Windowless sampler

Logged by
JT

Sheet number
Sheet 1 of 1

Level (m OD)
-

Compiled by
OPDW

Revision
A

Co-ordinates
-

Checked by
JP

WLS01

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STV6052

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INSTALL	STRATA DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND	WATER STRIKES	SPT TESTING TYPE / DEPTH (m)	SPT TESTING RESULT	SPT TESTING CASING DEPTH (m)	SPT TESTING WATER LEVEL (m)	OTHER IN SITU TESTING TYPE / DEPTH (m)	OTHER IN SITU TESTING RESULT	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING TYPE
	Grass onto brown gravelly fine SAND. Gravel is fine to coarse angular to subangular brick and coal. (TOPSOIL - MADE GROUND)	0.15										0.10		D
												0.15	1.00	B
	Loose black gravelly slightly clayey SAND. Gravel is fine to coarse angular to subangular coal, brick, clinker and glass. (MADE GROUND)											0.70		D
						S 1.00 - 1.45	(5) 5					1.00	1.45	D
												1.00	2.00	B
						S 2.00 - 2.45	(2) 6					2.00	2.45	D
	...between 2.7m and 3m depth, black slightly gravelly slightly sandy CLAY with slight odour of hydrocarbons.											2.70		ES
	Very loose becoming loose grey slightly clayey fine SAND. (GLACIOFLUVIAL DEPOSITS)	3.00				S 3.00 - 3.45	(1)					3.00	3.45	D
												3.00	5.00	B
						S 4.00 - 4.45	(3) 8					4.00	4.45	D
						S 5.00 - 5.45	(1) 8					5.00	5.45	D
	BOREHOLE TERMINATED AT 5.45m	5.45												

Notes
Standpipe installed to 3.0m depth.

Groundwater observations
Groundwater encountered at 2.3m depth. Water level remained stable upon completion.

Title
Dynamic windowless sampling record

Date(s)
19/05/2023

Recovery details

Range (m)	Recovery (%)
0.00 - 1.00	90
1.00 - 2.00	80
2.00 - 3.00	70
3.00 - 4.00	70
4.00 - 5.00	80

Method
Windowless sampler

Logged by
JT

Sheet number
Sheet 1 of 1

Level (m OD)
-

Compiled by
OPDW

Revision
A

Co-ordinates
-

Checked by
JP

WLS02

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INSTALL	STRATA: DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND	WATER STRIKES	SPT TESTING: TYPE / DEPTH (m)	SPT TESTING: RESULT	SPT TESTING: CASING DEPTH (m)	SPT TESTING: WATER LEVEL (m)	OTHER IN SITU TESTING: TYPE / DEPTH (m)	OTHER IN SITU TESTING: RESULT	SAMPLING: FROM (m)	SAMPLING: TO (m)	SAMPLING: TYPE
	Grass onto brown gravelly fine SAND. Gravel is fine to coarse angular to subangular brick and coal. (TOPSOIL - MADE GROUND)	0.15										0.10		D
												0.15	1.00	B
	Loose brown to dark grey very gravelly clayey medium to coarse SAND. Gravel is fine to coarse angular to subangular brick, glass, coal and clinker. (MADE GROUND)											0.70		D
						S 1.00 - 1.45	(2) 4					1.00	2.00	B
						S 2.00 - 2.45	(2) 6							
	Very soft light grey slightly gravelly slightly sandy CLAY. Gravel is fine to medium subangular clinker and brick. (MADE GROUND)	2.50								PP 2.60	PP=25	2.60		D
						S 3.00 - 3.45	(2) 8			PP 2.90	PP=17			
	...between 3.1m and 3.3m depth, slight odour of hydrocarbons.											3.20		ES
	Loose grey slightly clayey fine to medium SAND. (GLACIOFLUVIAL DEPOSITS)	3.50								PP 3.50	PP=25	3.50	5.00	B
						S 4.00 - 4.45	(3) 6							
						S 5.00 - 5.45	(2) 9							
	BOREHOLE TERMINATED AT 5.45m	5.45												

Notes
Standpipe installed to 3.5m depth.

Groundwater observations
Groundwater not encountered.

Title
Dynamic windowless sampling record

Recovery details

Range (m)	Recovery (%)
0.00 - 1.00	90
1.00 - 2.00	70
2.00 - 3.00	75
3.00 - 4.00	80
4.00 - 5.00	60

Method
Windowless sampler

Level (m OD)
-

Co-ordinates
-

Logged by
JT

Compiled by
OPDW

Checked by
JP

Date(s)
19/05/2023

Sheet number
Sheet 1 of 1

Revision
A

WLS03

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Appendix D Post Fieldwork Monitoring

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Ground gas and groundwater monitoring results

Notes

1) The instrument limit of detection has been adopted where no gas flows or concentrations have been recorded (indicated in grey italics).
2) Atmospheric temperature (*) data sourced from local weather station data.
3) CH4 = methane; CO2 = carbon dioxide; O2 = oxygen; PPM = parts per million CO = carbon monoxide; H2S = hydrogen sulphide.
4) Gas Screening Values (GSVs) are rounded to 3 decimal places.

								Worst case scenario	0.0	0.4	0.0	8.7	8.6	13.0	13.0	0	0	0.00	0.00	0.00	0.00	ONE	
								Average scenario	0.0	0.1	0.0	5.7	5.7	14.7	14.7	0	0	0.00	0.00	0.00	0.00	ONE	
Date	Time	Location	Install Reference	Install Response Zone		Atmospheric Pressure (mB)	Atmospheric Temperature (°C) *	Depth to Water (m)	Gas Steady Flow	CH_4 (%v/v)		CO_2 (%v/v)		O_2 (%v/v)		Other Gases (PPM)		GSV (CH_4)		GSV (CO_2)		Indicative (steady) CIRIA Characteristic Situation	Notes
				Response Zone (mBGL)	Flooded				l/Hr	Peak	Steady	Peak	Steady	Minimum	Average	CO	H_2S	Peak	Steady	Peak	Steady		
16/06/2023	11:25	WLS01	1	0.50 - 1.70	No	1011	23	DRY	0	0.0	0.0	6.0	6.0	14.9	14.9			0.000	0.000	0.005	0.005	CS-1	Elevated carbon dioxide, consider CS-2.
16/06/2023	11:15	WLS02	1	0.50 - 3.00	No	1010	23	2.84	0	0.0	0.0	2.4	2.4	16.2	16.2			0.000	0.000	0.002	0.002	CS-1	
16/06/2023	11:01	WLS03	1	0.50 - 3.50	No	1010	23	2.32	0	0.4	0.0	8.7	8.6	13.0	13.0			0.000	0.000	0.007	0.007	CS-1	Elevated carbon dioxide, consider CS-2.

Appendix E Geoenvironmental Laboratory Test Results

eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-17316-1
Initial Date of Issue:	01-Jun-2023
Re-Issue Details:	
Client	Soiltechnics Limited
Client Address:	Cedar Barn White Lodge Walgrave Northampton Northamptonshire NN6 9PY
Contact(s):	Admin
Project	STV6052 Redbank Playing Fields, Radcliffe

Quotation No.:	Q23-31280	**Date Received:**	25-May-2023
Order No.:	POR015501	**Date Instructed:**	25-May-2023
No. of Samples:	6		
Turnaround (Wkdays):	5	**Results Due:**	01-Jun-2023
Date Approved:	01-Jun-2023		

Approved By:



Details: Stuart Henderson, Technical Manager

Results - Soil

Project: STV6052 Redbank Playing Fields, Radcliffe

Client: Soiltechnics Limited		**Chemtest Job No.:**			23-17316	23-17316	23-17316	23-17316	23-17316	23-17316
Quotation No.: Q23-31280		**Chemtest Sample ID.:**			1644787	1644788	1644789	1644790	1644791	1644792
Order No.: POR015501		Client Sample Ref.:			1	1	1	1	1	1
		Client Sample ID.:			COMP010.501	COMP020.1501	HP020.101	HP030.101	HP060.101	HP100.101
		Sample Location:			COMP01	COMP02	HP02	HP03	HP06	HP10
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			0.50	0.15	0.10	0.10	0.10	0.10
		Bottom Depth (m):				0.10				
		Date Sampled:			19-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023
		Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**						
ACM Type	U	2192		N/A	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	15	19	18	17	17	16
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones and Roots	Stones and Roots	Roots and Stones	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture	N	2040		N/A	Loam	Loam	Loam	Sand	Sand	Sand
pH	M	2010		4.0	7.3	6.5	6.8	7.2	6.5	6.1
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.64	0.82	0.42	< 0.40	0.70	< 0.40
Cyanide (Complex)	M	2300	mg/kg	0.50	58	4.0	< 0.50	1.7	0.90	2.2
Cyanide (Free)	M	2300	mg/kg	0.50	5.0	< 0.50	0.80	1.0	0.50	0.70
Cyanide (Total)	M	2300	mg/kg	0.50	63	4.0	1.1	2.7	1.4	2.9
Arsenic	M	2455	mg/kg	0.5	19	71	13	24	91	45
Beryllium	U	2455	mg/kg	0.5	0.9	4.0	0.5	1.3	6.9	3.5
Cadmium	M	2455	mg/kg	0.10	1.0	0.60	0.74	0.54	0.77	0.74
Chromium	M	2455	mg/kg	0.5	18	33	15	22	33	29
Copper	M	2455	mg/kg	0.50	100	360	58	140	190	360
Mercury	M	2455	mg/kg	0.05	0.29	0.27	0.17	0.34	0.55	0.46
Nickel	M	2455	mg/kg	0.50	23	72	14	31	88	52
Lead	M	2455	mg/kg	0.50	190	340	100	250	260	480
Selenium	M	2455	mg/kg	0.25	0.78	1.6	0.59	0.78	2.9	1.4
Vanadium	U	2455	mg/kg	0.5	27	82	17	32	88	56
Zinc	M	2455	mg/kg	0.50	490	360	140	320	460	250
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
LOI	M	2610	%	0.10	7.3	16	7.7	16	18	21
Organic Matter	M	2625	%	0.40	18	34	10	18	26	27
TPH >C5-C6	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C8-C10	N	2670	mg/kg	1.0	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	N	2670	mg/kg	1.0	5.8	3.0	< 1.0	3.5	3.0	1.8
TPH >C12-C16	N	2670	mg/kg	1.0	16	24	7.0	8.8	18	8.6
TPH >C16-C21	N	2670	mg/kg	1.0	53	53	13	11	150	18
TPH >C21-C35	N	2670	mg/kg	1.0	220	130	46	57	820	80

Results - Soil

Project: STV6052 Redbank Playing Fields, Radcliffe

Client: Soiltechnics Limited		**Chemtest Job No.:**			23-17316	23-17316	23-17316	23-17316	23-17316	23-17316
Quotation No.: Q23-31280		**Chemtest Sample ID.:**			1644787	1644788	1644789	1644790	1644791	1644792
Order No.: POR015501		Client Sample Ref.:			1	1	1	1	1	1
		Client Sample ID.:			COMP010.501	COMP020.1501	HP020.101	HP030.101	HP060.101	HP100.101
		Sample Location:			COMP01	COMP02	HP02	HP03	HP06	HP10
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			0.50	0.15	0.10	0.10	0.10	0.10
		Bottom Depth (m):				0.10				
		Date Sampled:			19-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023
		Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**						
Total TPH >C5-C35	N	2670	mg/kg	10	300	210	65	80	990	110
Naphthalene	M	2800	mg/kg	0.10	0.50	0.51	0.11	0.17	1.2	0.32
Acenaphthylene	N	2800	mg/kg	0.10	0.96	< 0.10	< 0.10	< 0.10	0.52	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	0.21	0.14	0.24	< 0.10	2.1	< 0.10
Fluorene	M	2800	mg/kg	0.10	0.31	0.14	0.16	< 0.10	1.4	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	3.2	1.7	1.6	0.75	20	1.0
Anthracene	M	2800	mg/kg	0.10	1.3	0.35	0.40	0.21	5.5	0.31
Fluoranthene	M	2800	mg/kg	0.10	10	3.7	2.5	1.9	68	3.3
Pyrene	M	2800	mg/kg	0.10	9.4	3.3	2.2	1.8	60	3.1
Benzo[a]anthracene	M	2800	mg/kg	0.10	6.7	1.9	1.2	1.1	36	2.0
Chrysene	M	2800	mg/kg	0.10	6.5	2.1	1.3	1.2	40	2.3
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	9.2	3.0	1.6	1.9	58	3.6
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	3.2	0.97	0.56	0.65	20	1.3
Benzo[a]pyrene	M	2800	mg/kg	0.10	7.7	2.3	1.4	1.5	46	3.2
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	6.4	1.8	0.99	1.4	39	2.6
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	1.2	0.39	0.29	0.23	6.6	0.58
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	5.7	1.8	1.0	1.4	39	2.7
Total Of 16 PAH's	N	2800	mg/kg	2.0	73	24	16	14	440	26
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

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Appendix F Contamination Assessment Screening

GQRA Screening

Assessments	Status	Date	Created by	Reviewed By
Acute human health risk - Soils	Completed	19/06/2023	JP	SCD
Chronic human health risk - Soils	Completed	19/06/2023	JP	SCD
Chronic human health risk - Groundwater vapour	*Not undertaken*			
Controlled waters risk - Surface water	*Not undertaken*			
Controlled waters risk - Drinking water	*Not undertaken*			
Controlled waters - Free phase indicator	*Not undertaken*			
Phytotoxicity	*Not undertaken*			
Ecotoxicity	*Not undertaken*			

Key

Assessment	Abbr.	GQRA Source (in order of preference)	Last Update
All	NGA	No guideline value available	-
Acute human health risk - Soils	AGAC	Acute Generic Assessment Criteria (SoBRA)	April 2019
	sat.	Contaminant poses a low acute risk unless the soil saturation limit is exceeded and a free oil phase is present.	April 2019
Chronic human health risk - Soils	C4SL	Category 4 Screening Levels (DEFRA)	May 2021
	S4UL	Suitable 4 Use Levels (LQM)	August 2015
	ATK	Atrisk Soil Screening Values (Atkins)	June 2017
	CL:AIRE	Generic Assessment Criteria (CL:AIRE)	Jan 2010

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Acute human health risk (soils)

Scenario	Off-site public exposure
Critical receptor	Young female child (1 to 2 years old)
Oral exposure	N/A
Demal exposure	N/A
Inhalation exposure	30 mins exposure to a child off-site, from dusts and vapours generated during excavation

Contaminant	Guideline source	Principal pathway	Guideline value (mg/kg)	Max value (mg/kg)	Location	COMP01	COMP02	HP02	HP03	HP06	HP10
					Depth (m)	0.50	0.15 - 0.10	0.10	0.10	0.10	0.10
					Date	19/05/23	19/05/23	19/05/23	19/05/23	19/05/23	19/05/23
Inorganics											
Arsenic	AGAC	Inhalation	7,000,000	91		19	71	13	24	91	45
Cadmium	AGAC	Inhalation	1,800,000	1		1	0.6	0.74	0.54	0.77	0.74
Cyanide - Free	AGAC	Inhalation	380	5		5	*< 0.50*	0.8	1	0.5	0.7
Organics											
Phenol	AGAC	**sat.**	**sat.**	<LoD		*< 0.10*	*< 0.10*	*< 0.10*	*< 0.10*	*< 0.10*	*< 0.10*

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Acute human health risk (soils)

Scenario	Occupational exposure (construction worker)
Critical receptor	Adult female worker
Oral exposure	Ingestion of soil and dusts over a single working day
Demal exposure	Soil being left on the skin for several hours, assumed no PPE worn
Inhalation exposure	30 mins exposure - worker standing adjacent to active excavation (assumed no RPE)

Contaminant	Guideline source	Principal pathway	Guideline value (mg/kg)	Max value (mg/kg)	Location	COMP01	COMP02	HP02	HP03	HP06	HP10
					Depth (m)	0.50	0.15 - 0.10	0.10	0.10	0.10	0.10
					Date	19/05/23	19/05/23	19/05/23	19/05/23	19/05/23	19/05/23
Inorganics											
Arsenic	AGAC	Oral	7,000	91		19	71	13	24	91	45
Cadmium	AGAC	Oral	12,000	1		1	0.6	0.74	0.54	0.77	0.74
Cyanide - Free	AGAC	Oral & Inhalation	1,400	5		5	*< 0.50*	0.8	1	0.5	0.7
Organics											
Phenol	AGAC	**sat.**	**sat.**	<LoD		*< 0.10*	*< 0.10*	*< 0.10*	*< 0.10*	*< 0.10*	*< 0.10*

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Chronic human health risk (soils)

Scenario	
End user	Proposed site user
Receptor	POS (Park)
SOM	6.00%
GAC Preference	C4SLs over S4ULs
Unspeciated TPH GAC	Worst-case aliphatic/aromatic

Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	COMP01	COMP02	HP02	HP03	HP06	HP10
				Depth (m)	0.50	0.15 - 0.10	0.10	0.10	0.10	0.10
				Date	19/05/23	19/05/23	19/05/23	19/05/23	19/05/23	19/05/23
Inorganics - Metals										
Arsenic	C4SL	170	91		19	71	13	24	91	45
Beryllium	S4UL	63	6.9		0.9	4	0.5	1.3	6.9	3.5
Boron	S4UL	46000	0.82		0.64	0.82	0.42	< 0.40	0.7	< 0.40
Cadmium	C4SL	880	1		1	0.6	0.74	0.54	0.77	0.74
Chromium (III)	S4UL	33000	33		18	33	15	22	33	29
Chromium (VI)	C4SL	250	<LoD		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper	S4UL	44000	360		100	360	58	140	190	360
Cyanide - Free	-	-	5		5	< 0.50	0.8	1	0.5	0.7
Lead	C4SL	1300	480		190	340	100	250	260	480
Mercury	S4UL	240	0.55		0.29	0.27	0.17	0.34	0.55	0.46
Nickel	S4UL	800	88		23	72	14	31	88	52
Selenium	S4UL	1800	2.9		0.78	1.6	0.59	0.78	2.9	1.4
Vanadium	S4UL	5000	88		27	82	17	32	88	56
Zinc	S4UL	170000	490		490	360	140	320	460	250
Inorganics - Asbestos										
Asbestos Type		N/A			-	-	-	-	-	-
Asbestos Screen		N/A			No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Inorganics - Soil Parameters										
Organic matter		N/A			18	34	10	18	26	27
Organics - PAH & Phenol										
Acenaphthene	S4UL	30000	2.1		0.21	0.14	0.24	< 0.10	2.1	< 0.10
Acenaphthylene	S4UL	30000	0.96		0.96	< 0.10	< 0.10	< 0.10	0.52	< 0.10
Anthracene	S4UL	150000	5.5		1.3	0.35	0.4	0.21	5.5	0.31
Benzo(a)anthracene	S4UL	62	36		6.7	1.9	1.2	1.1	36	2
Benzo(a)pyrene	C4SL	21	46		7.7	2.3	1.4	1.5	46	3.2
Benzo(b)fluoranthene	S4UL	16	58		9.2	3	1.6	1.9	58	3.6
Benzo(ghi)perylene	S4UL	1600	39		5.7	1.8	1	1.4	39	2.7
Benzo(k)fluoranthene	S4UL	440	20		3.2	0.97	0.56	0.65	20	1.3
Chrysene	S4UL	120	40		6.5	2.1	1.3	1.2	40	2.3
Dibenz(a,h)anthracene	S4UL	1.4	6.6		1.2	0.39	0.29	0.23	6.6	0.58
Fluoranthene	S4UL	6400	68		10	3.7	2.5	1.9	68	3.3
Fluorene	S4UL	20000	1.4		0.31	0.14	0.16	< 0.10	1.4	< 0.10
Indeno(1,2,3-cd)pyrene	S4UL	180	39		6.4	1.8	0.99	1.4	39	2.6
Naphthalene	S4UL	3000	1.2		0.5	0.51	0.11	0.17	1.2	0.32
Phenanthrene	S4UL	6300	20		3.2	1.7	1.6	0.75	20	1
Phenol	S4UL	1300	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	S4UL	15000	60		9.4	3.3	2.2	1.8	60	3.1
Organics - Banded TPH (unspeciated)										
EC >5-EC6 (unspeciated)	S4UL	92000	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >6-EC7 (unspeciated)	S4UL	92000	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >7-EC8 (unspeciated)	S4UL	100000	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >08-EC10 (unspeciated)	S4UL	9300	1.4		1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >10-EC12 (unspeciated)	S4UL	10000	5.8		5.8	3	< 1.0	3.5	3	1.8
EC >12-EC16 (unspeciated)	S4UL	10000	24		16	24	7	8.8	18	8.6
EC >16-EC21 (unspeciated)	S4UL	7800	150		53	53	13	11	150	18
EC >21-EC35 (unspeciated)	S4UL	7900	820		220	130	46	57	820	80

Appendix G Utility Service Plans

United Utilities
Water for the North West

How to contact us:

United Utilities Water Limited
Property Searches
Haweswater House
Lingley Mere Business Park
Great Sankey
Warrington
WA5 3LP

Telephone: 0370 7510101

E-mail: propertysearches@uuplc.co.uk

Your Ref: STV6052
Our Ref: UUPS-ORD-487768
Date: 16/05/2023

Soiltechnics

Soiltechnics
Cedar Barn,
Walgrave,
NN6 9PY

FAO:

Dear Sirs

Location: 31 LEVER STREET, RADCLIFFE, MANCHESTER, M26 4PB

I acknowledge with thanks your request dated 11/05/2023 for information on the location of our services.

Please find enclosed plans showing the approximate position of United Utilities' apparatus known to be in the vicinity of this site.

The enclosed plans are being provided to you subject to the United Utilities terms and conditions for both the wastewater and water distribution plans which are shown attached.

If you are planning works anywhere in the North West, please read United Utilities' access statement before you start work to check how it will affect our network. http://www.unitedutilities.com/work-near-asset.aspx .

I trust the above meets with your requirements and look forward to hearing from you should you need anything further.

If you have any queries regarding this matter please contact us .

Yours Faithfully,

Karen McCormack
Property Searches Manager

United Utilities Water Limited
Registered In England & Wales No. 2366678
Registered Office Haweswater House, Lingley Mere Business Park,
Lingley Green Avenue, Great Sankey, Warrington, WA5 3LP

Water for the North West

TERMS AND CONDITIONS - WASTEWATER AND WATER DISTRIBUTION PLANS

These provisions apply to the public sewerage, water distribution and telemetry systems (including sewers which are the subject of an agreement under Section 104 of the Water Industry Act 1991 and mains installed in accordance with the agreement for the self construction of water mains) (UUWL apparatus) of United Utilities Water Limited "(UUWL)".

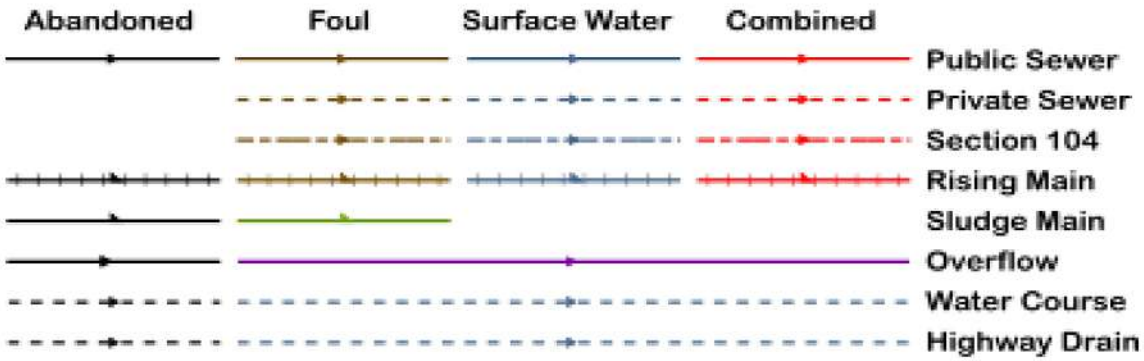
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- This Map and any information supplied with it is provided for general guidance only and no representation, undertaking or warranty as to its accuracy, completeness or being up to date is given or implied.
- In particular, the position and depth of any UUWL apparatus shown on the Map are approximate only. UUWL strongly recommends that a comprehensive survey is undertaken in addition to reviewing this Map to determine and ensure the precise location of any UUWL apparatus. The exact location, positions and depths should be obtained by excavation trial holes.
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- This agreement shall be governed by English law and all parties submit to the exclusive jurisdiction of the English courts, save that nothing will prevent UUWL from bringing proceedings in any other competent jurisdiction, whether concurrently or otherwise.

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Registered Office Haweswater House, Lingley Mere Business Park,
Lingley Green Avenue, Great Sankey, Warrington, WA5 3LP

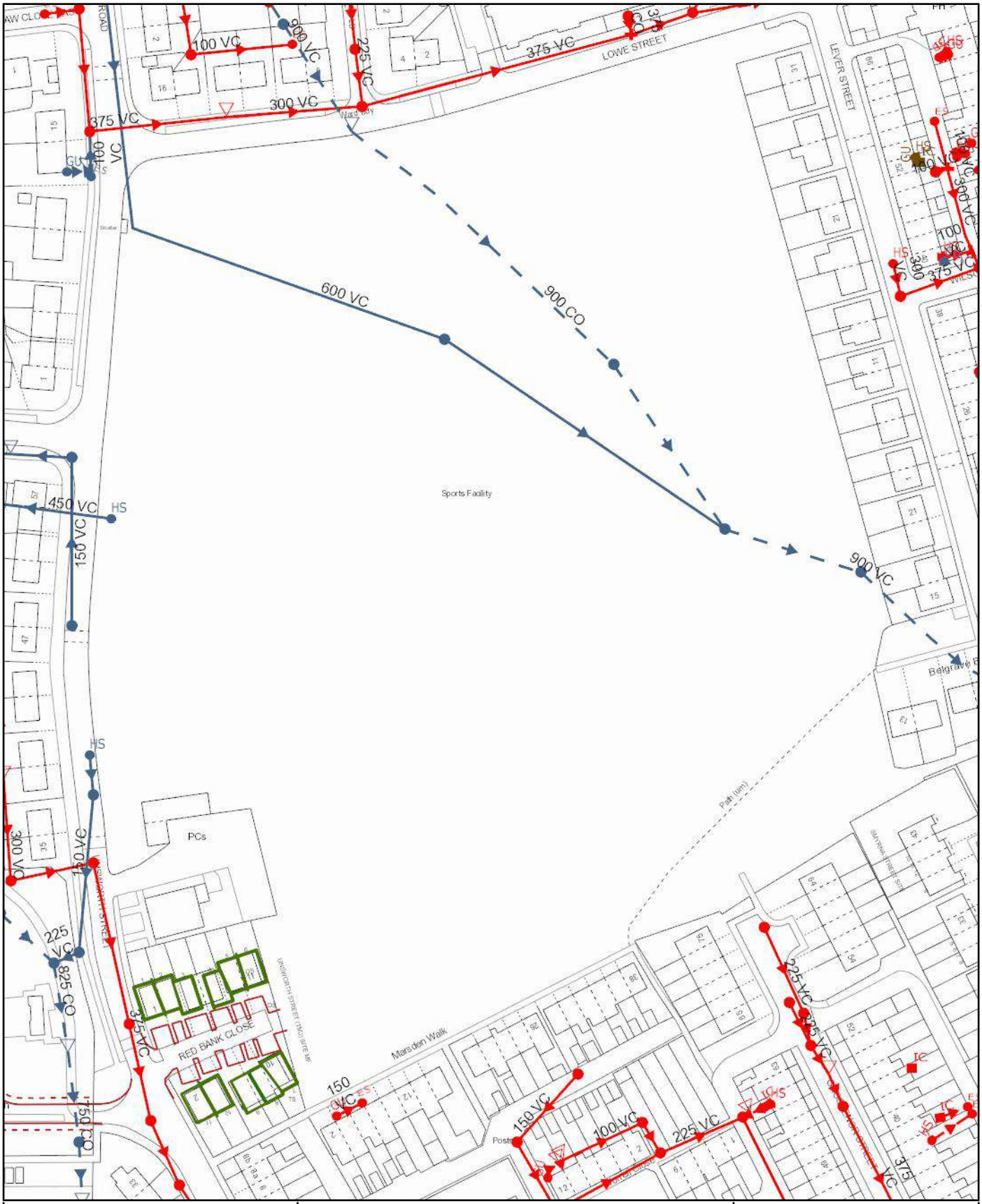
United Utilities
Water for the North West

Wastewater Symbology



All point assets follow the standard colour convention: red – combined, brown - foul, blue – surface water, purple - overflow

- Manhole
- HS Head of System
- ES Extent of Survey
- RE Rodding Eye
- IN Inlet
- DP Discharge Point
- HY Vortex
- PE Penstock
- WO Washout Chamber
- VA Valve
- AV Air Valve
- NRV Non Return Valve
- SO Soakaway
- GU Gully
- CA Cascade
- FM Flow Meter
- HA Hatch Box
- OI Oil Interceptor
- SM Summit
- DS Drop Shaft
- OP Orifice Plate
- Side Entry Manhole
- Outfall
- Screen Chamber
- IC Inspection Chamber
- Bifurcation Chamber
- LH Lamp Hole
- T Junction / Saddle
- Catchpit
- VC Valve Chamber
- Vent Column
- Vortex Chamber
- Penstock Chamber
- T Network Storage Tank
- V Sewer Overflow
- WwTW Ww Treatment Works
- Ww Pumping Station
- Septic Tank
- CK Control Kiosk
- Change of Characteristic



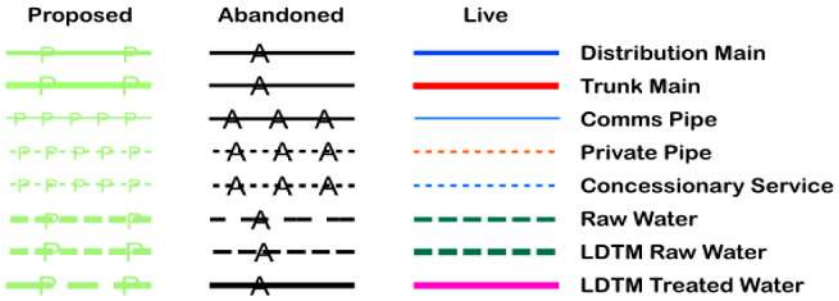
Scale:	1:1474	**SEWER RECORDS**	United Utilities Water for the North West
Date:	16/05/2023		
Address or Site Reference:	31 LEVER STREET, RADCLIFFE, MANCHESTER, M26 4PB		
Printed by:	Property Searches		

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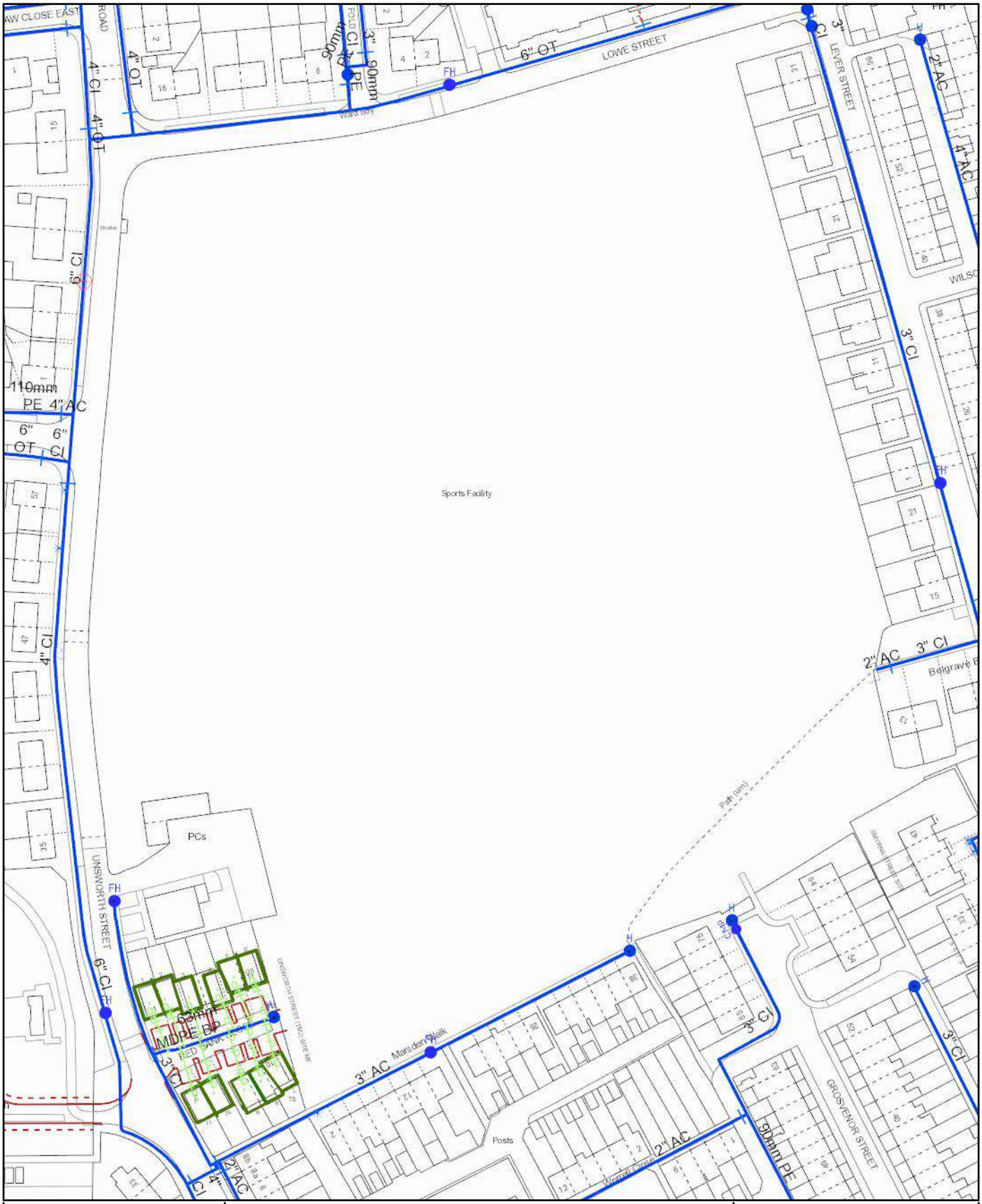
United Utilities
Water for the North West

Clean Water Symbology





Symbology for proposed assets is the same as above, but shown in green
Symbology for abandoned assets is the same as above, but shown in black



Scale:	1:1474
Date:	16/05/2023

WATER MAINS RECORDS

United Utilities
Water for the North West

Address or Site Reference: 31 LEVER STREET, RADCLIFFE, MANCHESTER, M26 4PB

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United Utilities
Water for the North West

How to contact us:

United Utilities Water Limited
Property Searches
Haweswater House
Lingley Mere Business Park
Great Sankey
Warrington
WA5 3LP

Telephone: 0370 7510101

E-mail: propertysearches@uuplc.co.uk

Your Ref: STV6052
Our Ref: UUPS-ORD-487768
Date: 16/05/2023

Soiltechnics

Soiltechnics
Cedar Barn,
Walgrave,
NN6 9PY

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Yours Faithfully,

Karen McCormack
Property Searches Manager

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Water for the North West

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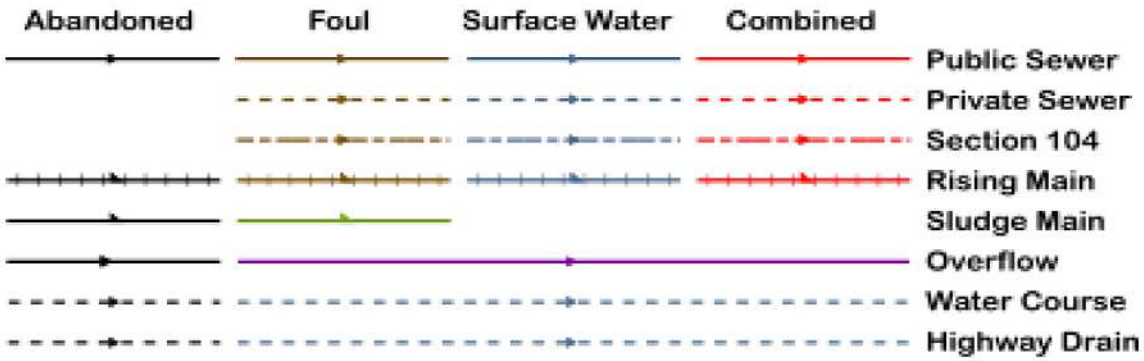
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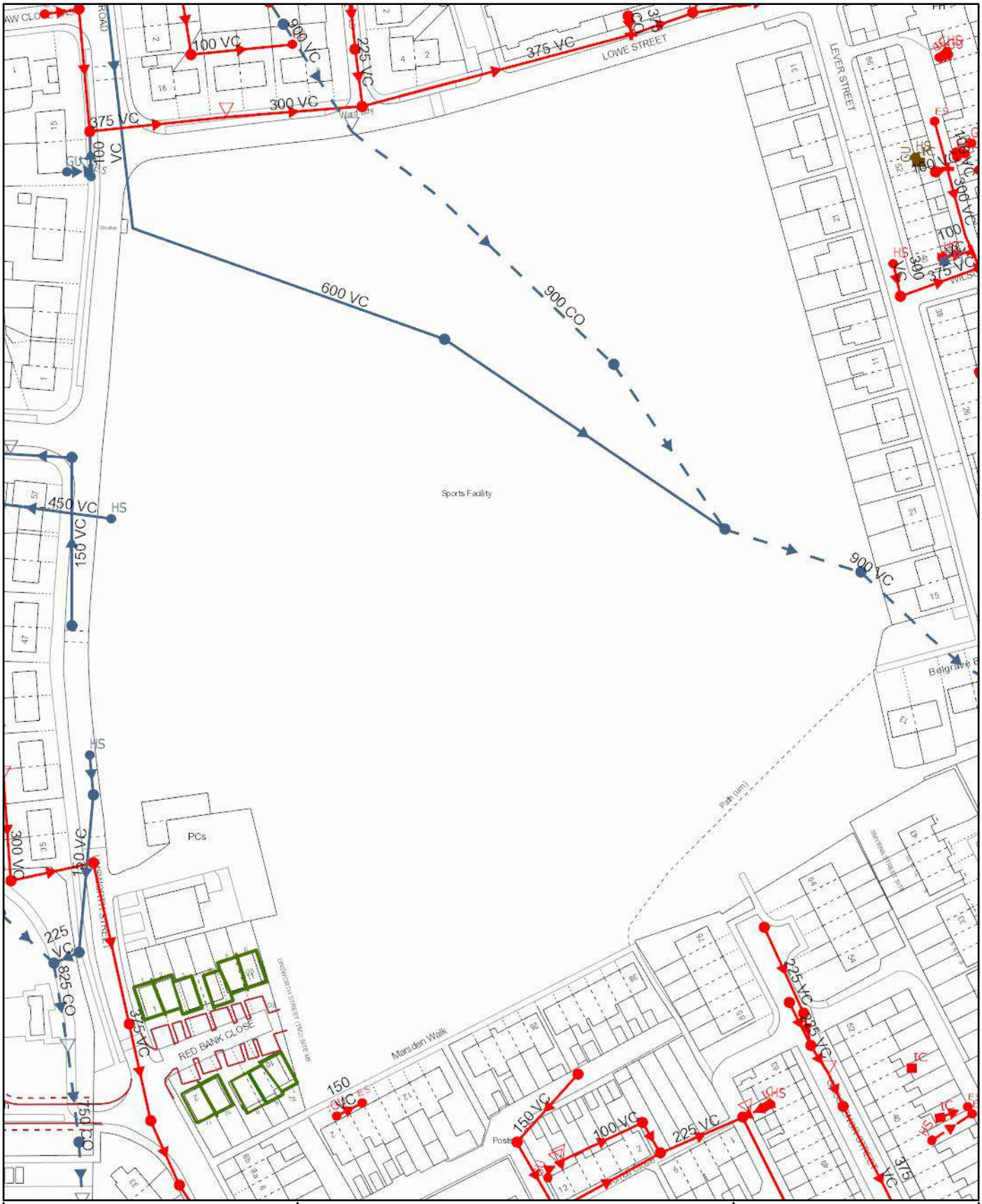
United Utilities
Water for the North West

Wastewater Symbology



All point assets follow the standard colour convention: red – combined, brown - foul, blue – surface water, purple - overflow

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- AV Air Valve
- NRV Non Return Valve
- SO Soakaway
- GU Gully
- CA Cascade
- FM Flow Meter
- HA Hatch Box
- OI Oil Interceptor
- SM Summit
- DS Drop Shaft
- OP Orifice Plate
- Side Entry Manhole
- Outfall
- Screen Chamber
- IC Inspection Chamber
- Bifurcation Chamber
- LH Lamp Hole
- T Junction / Saddle
- Catchpit
- VC Valve Chamber
- Vent Column
- Vortex Chamber
- Penstock Chamber
- T Network Storage Tank
- V Sewer Overflow
- WwTW Ww Treatment Works
- Ww Pumping Station
- Septic Tank
- CK Control Kiosk
- Change of Characteristic



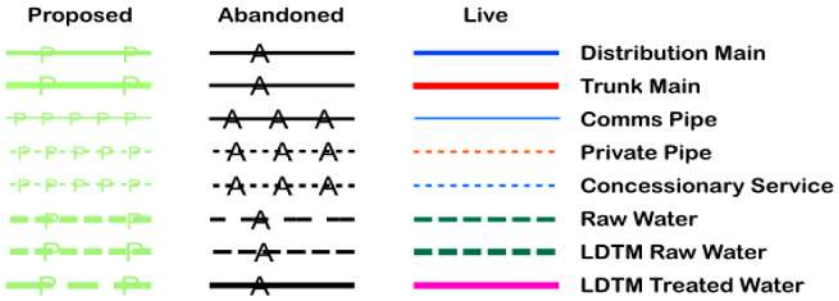
Scale:	1:1474	**SEWER RECORDS**	United Utilities Water for the North West
Date:	16/05/2023		
Address or Site Reference:	31 LEVER STREET, RADCLIFFE, MANCHESTER, M26 4PB		
Printed by:	Property Searches		

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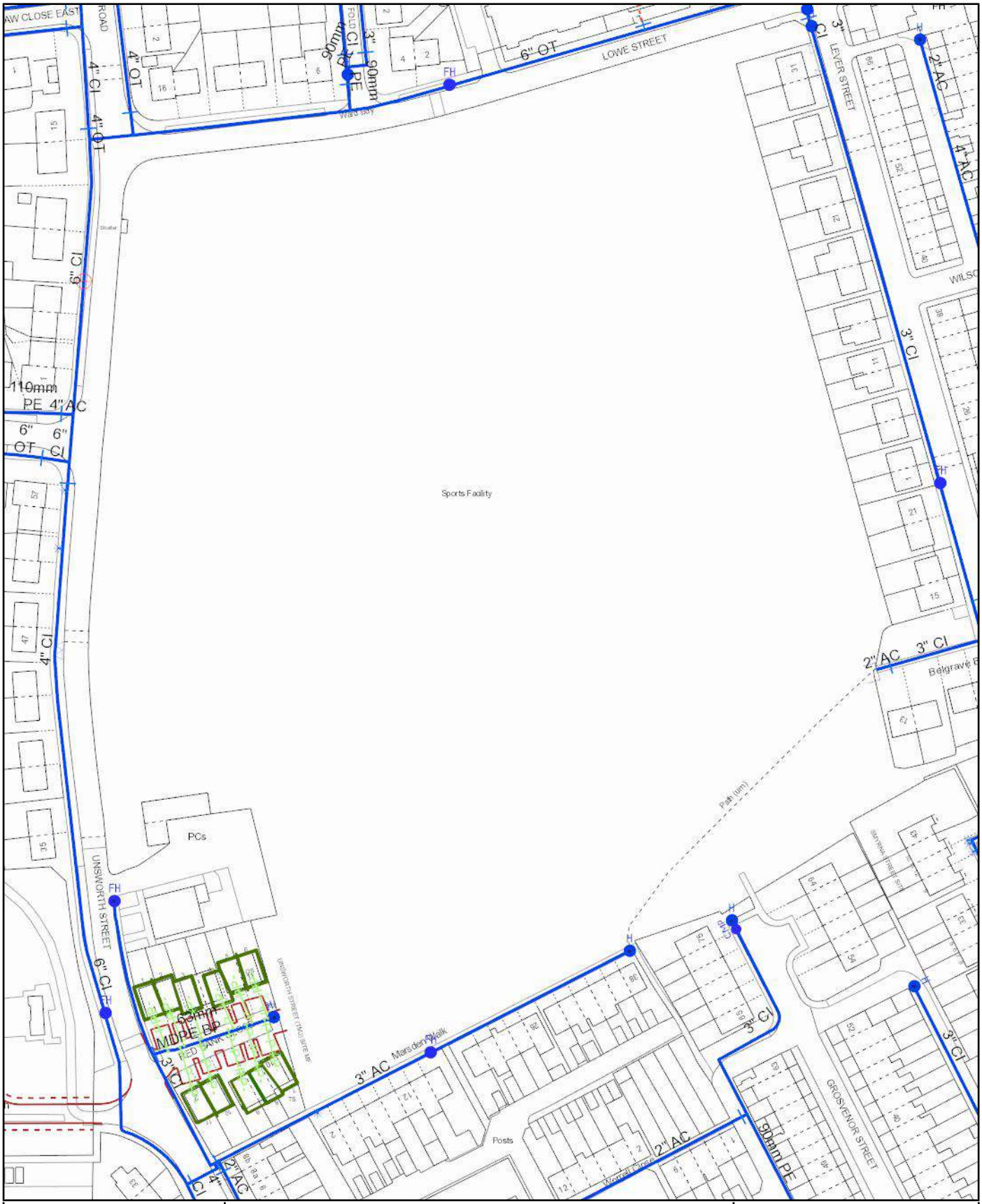
United Utilities
Water for the North West

Clean Water Symbology





Symbology for proposed assets is the same as above, but shown in green
Symbology for abandoned assets is the same as above, but shown in black



Scale:	1:1474
Date:	16/05/2023

WATER MAINS RECORDS

United Utilities
Water for the North West

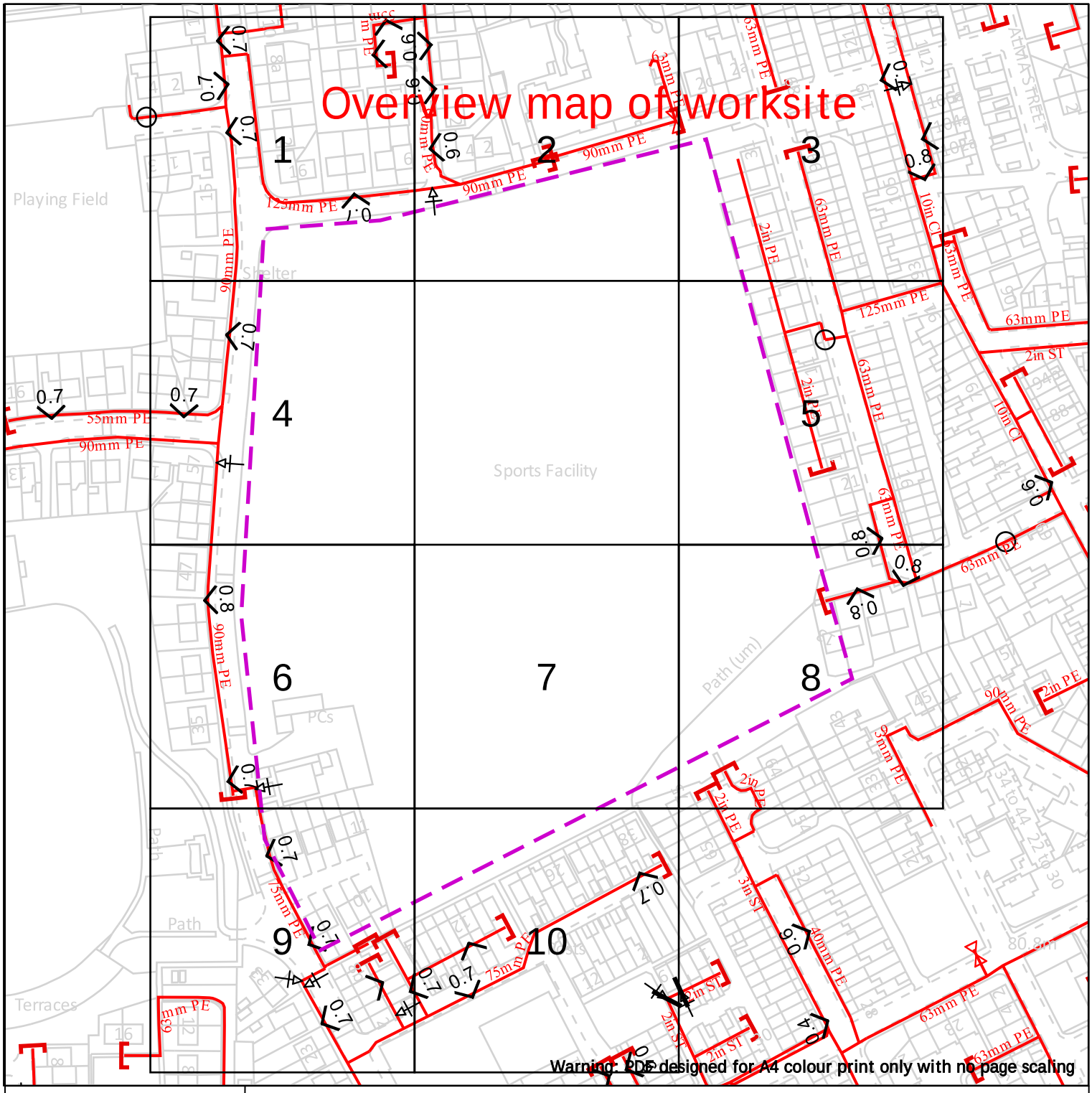
Address or Site Reference: 31 LEVER STREET, RADCLIFFE, MANCHESTER, M26 4PB

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Overview map of worksite



Dig Sites Area: Line:

- LP Mains
- MP Mains
- IP Mains
- LHP Mains

Valve
Depth of cover
Syphon
Diameter Change
Material Change
Out of Standard Service

Cadent
Your Gas Network

Date Requested: 11/05/2023
Job Reference: 29455640
Site Location: 377693 407829
Requested by: Miss Lauren Wenham

Your Scheme/Reference: STV6052

View extent: 100m, 100m

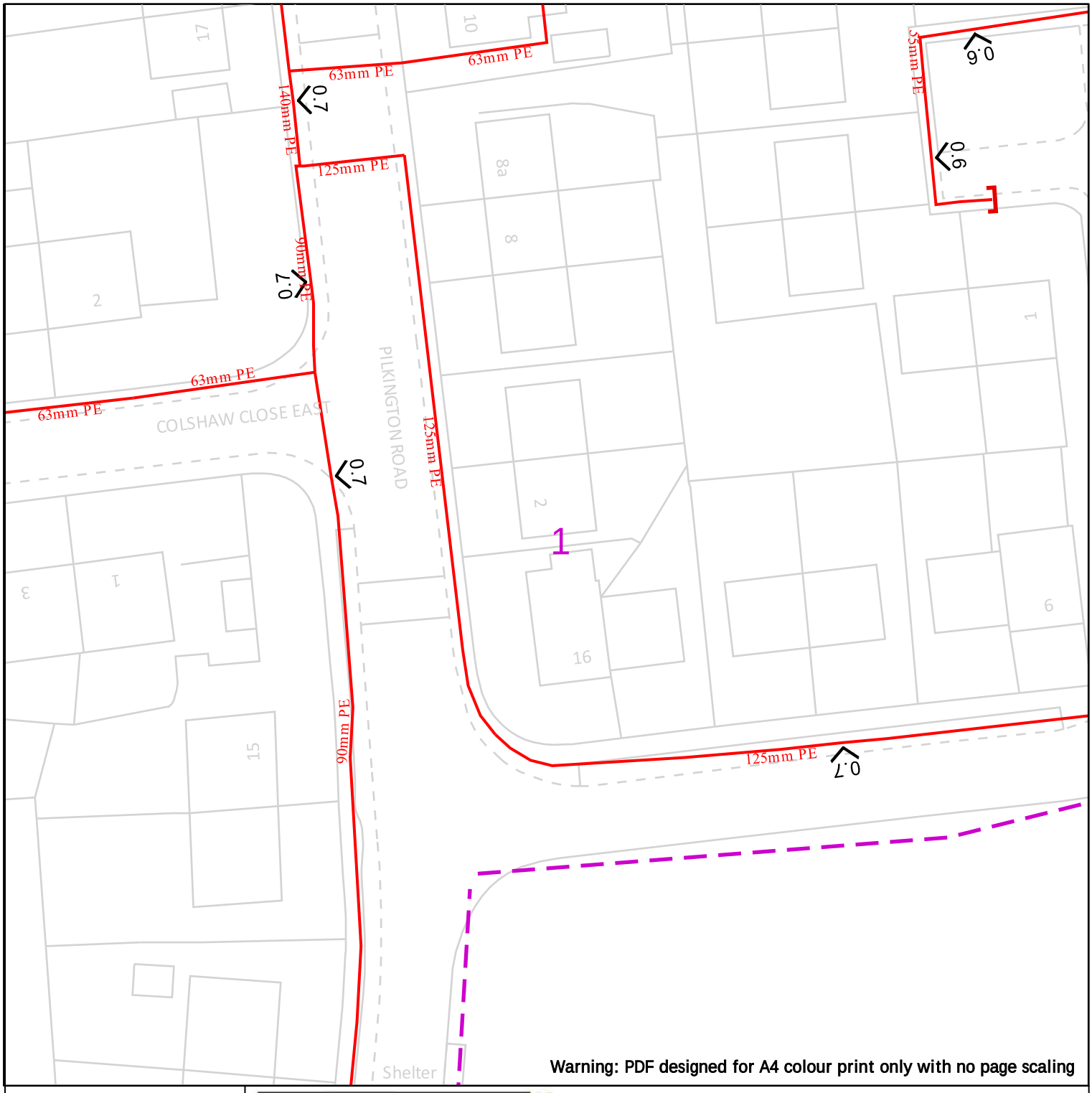
Scale: 1:2050 (When plotted at A4)

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In case of emergency call - 0800 111 999

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Warning: PDF designed for A4 colour print only with no page scaling

25m

Dig Sites Area: Line:

- LP Mains
- MP Mains
- IP Mains
- LHP Mains

Valve
Depth of cover
Syphon
Diameter Change
Material Change
Out of Standard Service

Cadent
Your Gas Network

Date Requested: 11/05/2023
Job Reference: 29455640
Site Location: 377693 407829
Requested by: Miss Lauren Wenham

Your Scheme/Reference: STV6052

View extent: 100m, 100m

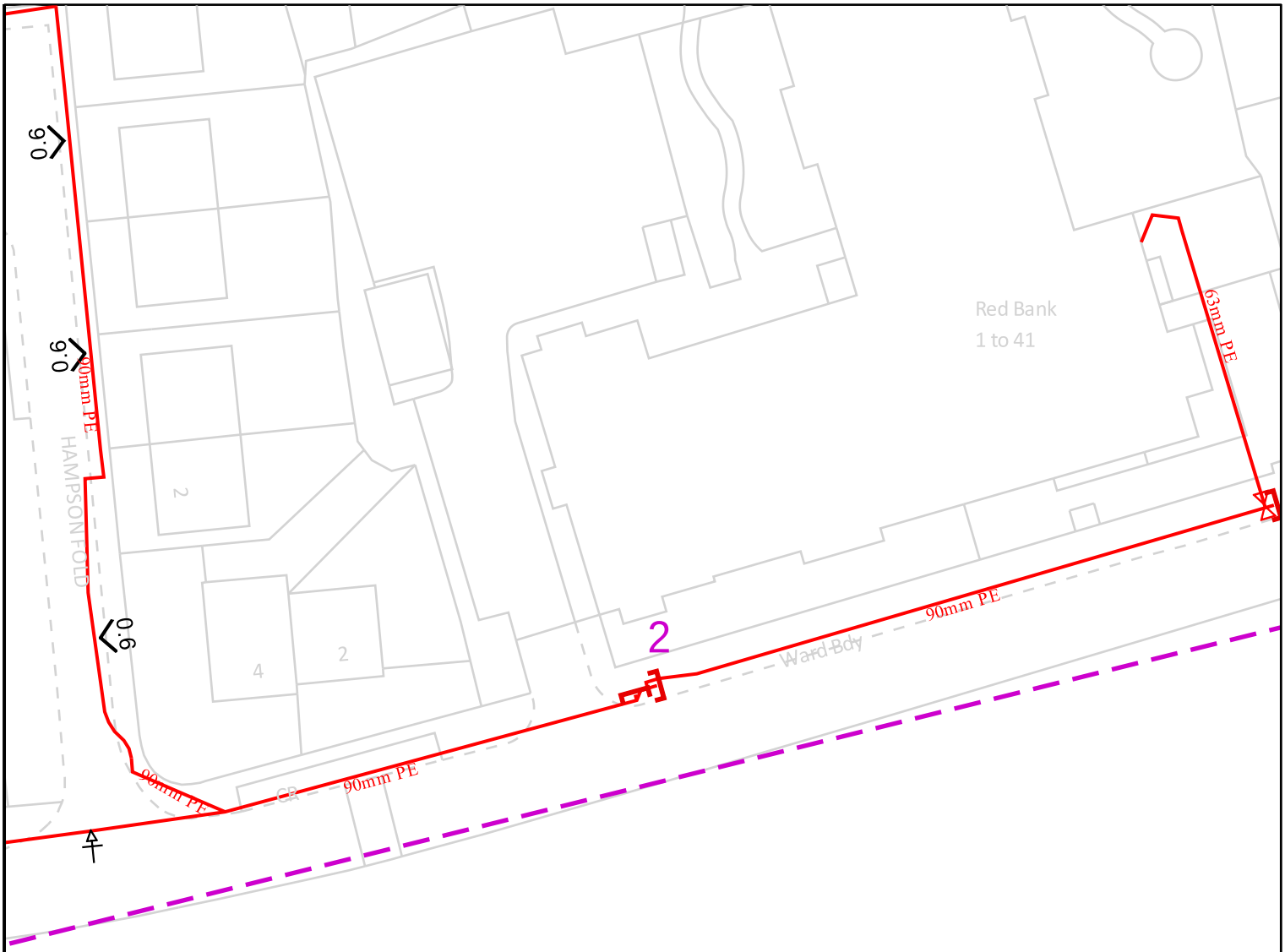
Scale: 1:500 (When plotted at A4)

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In case of emergency call - 0800 111 999

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25m

Dig Sites Area: Line:

- LP Mains
- MP Mains
- IP Mains
- LHP Mains
- Valve
- Depth of cover
- Syphon
- Diameter Change
- Material Change
- Out of Standard Service

Cadent
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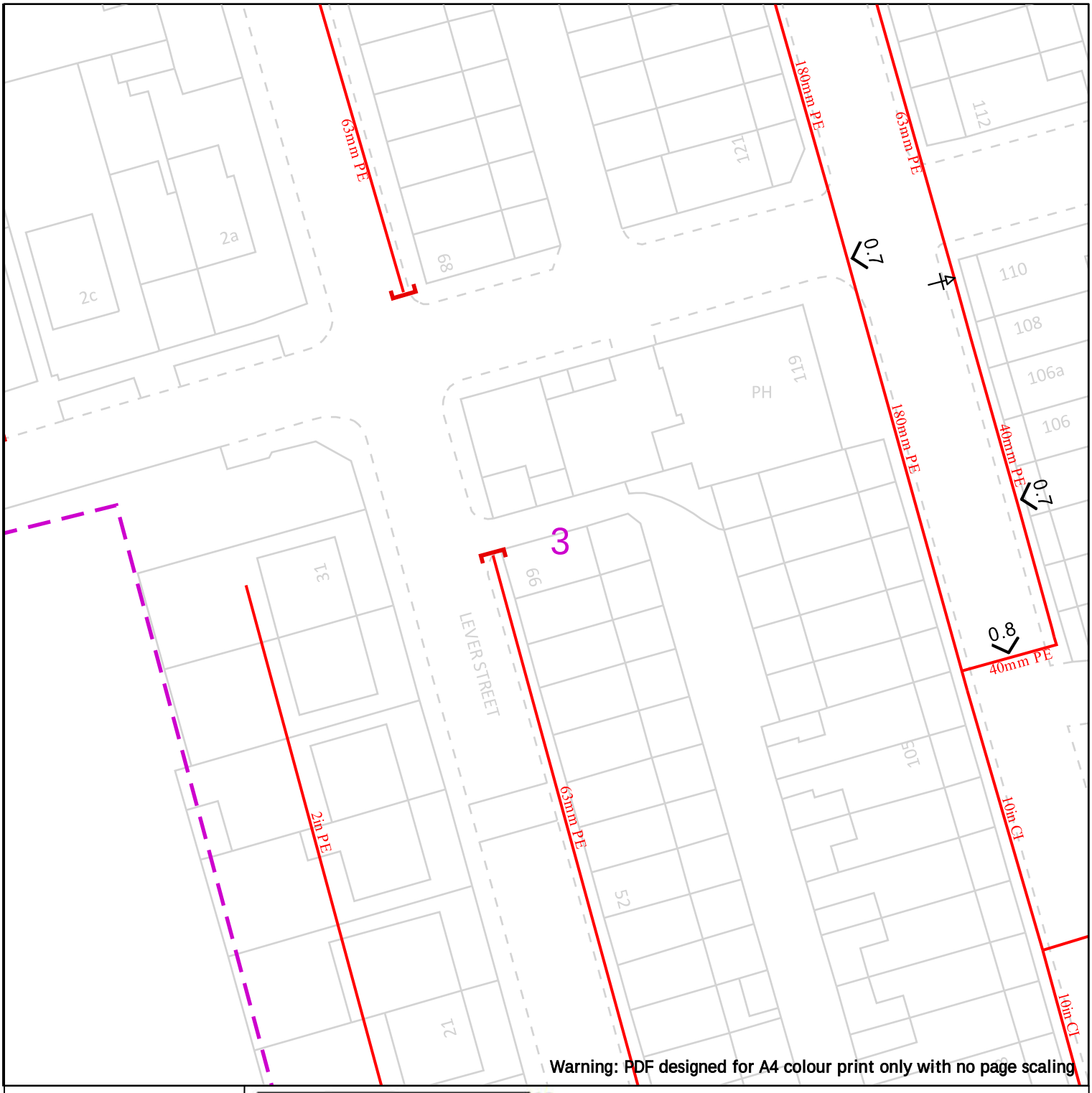
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25m

Dig Sites Area: Line:

LP Mains
MP Mains
IP Mains
LHP Mains

Valve
Depth of cover
Syphon
Diameter Change
Material Change
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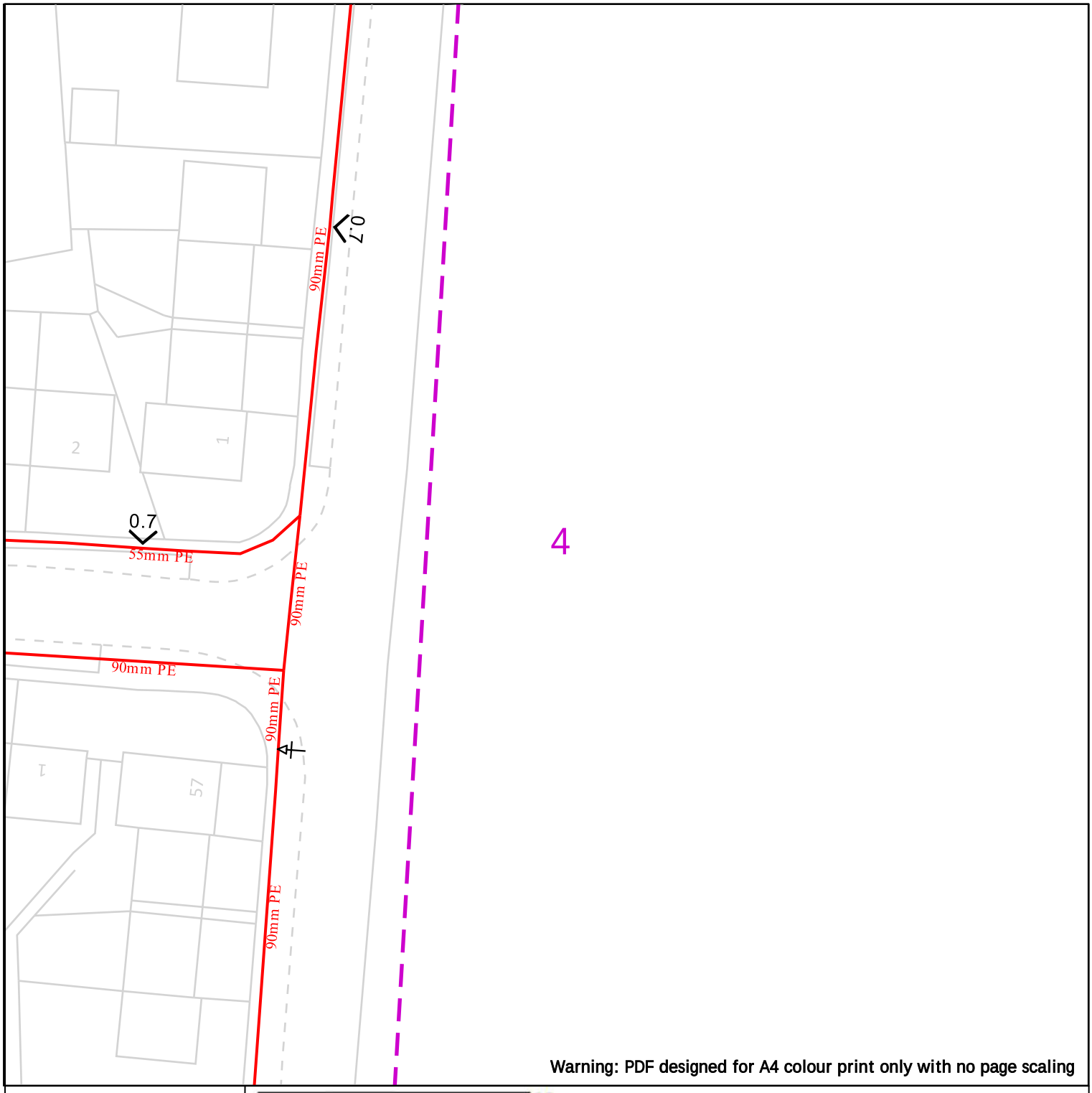
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25m

Dig Sites Area: Line:

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Valve
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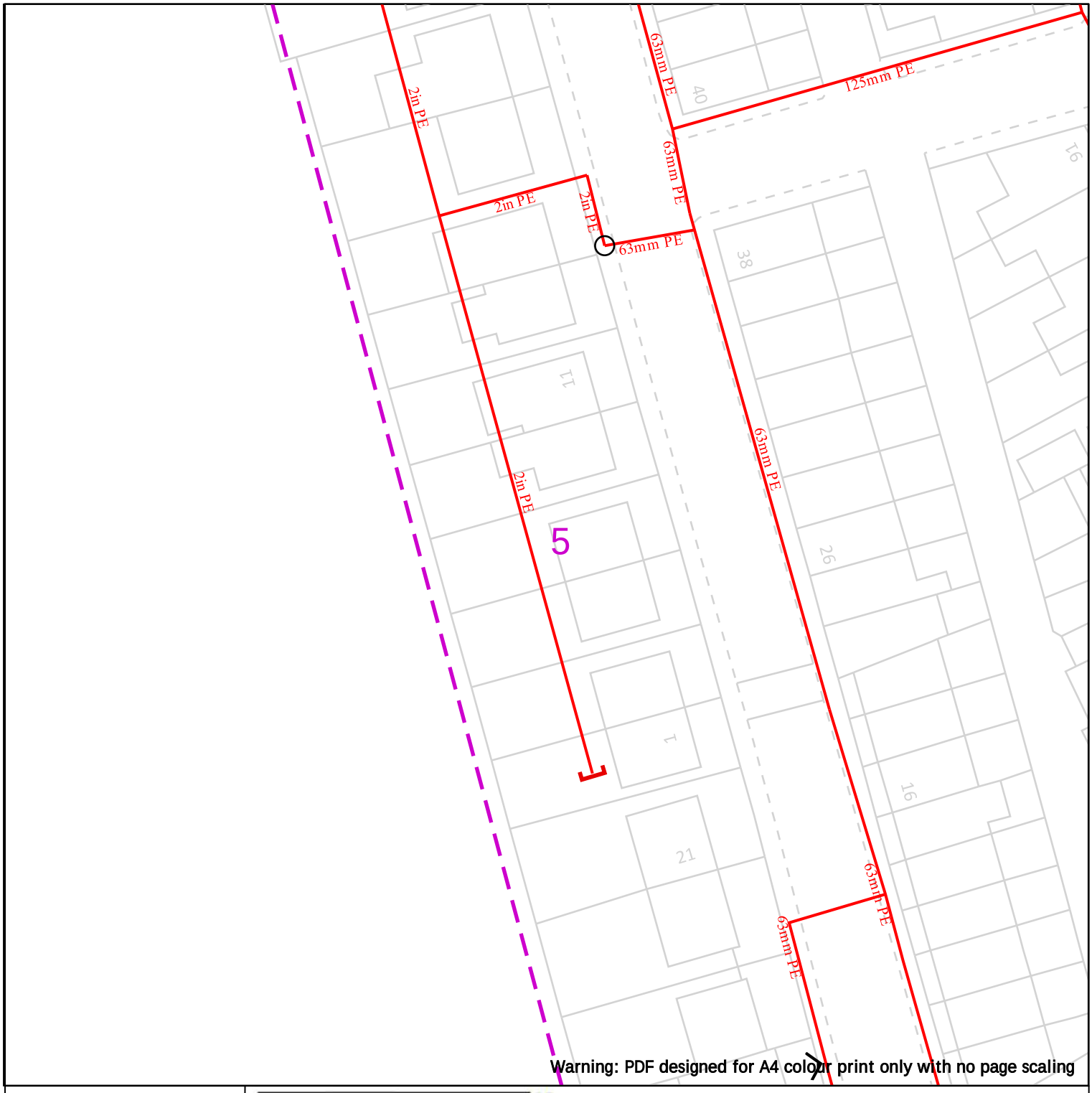
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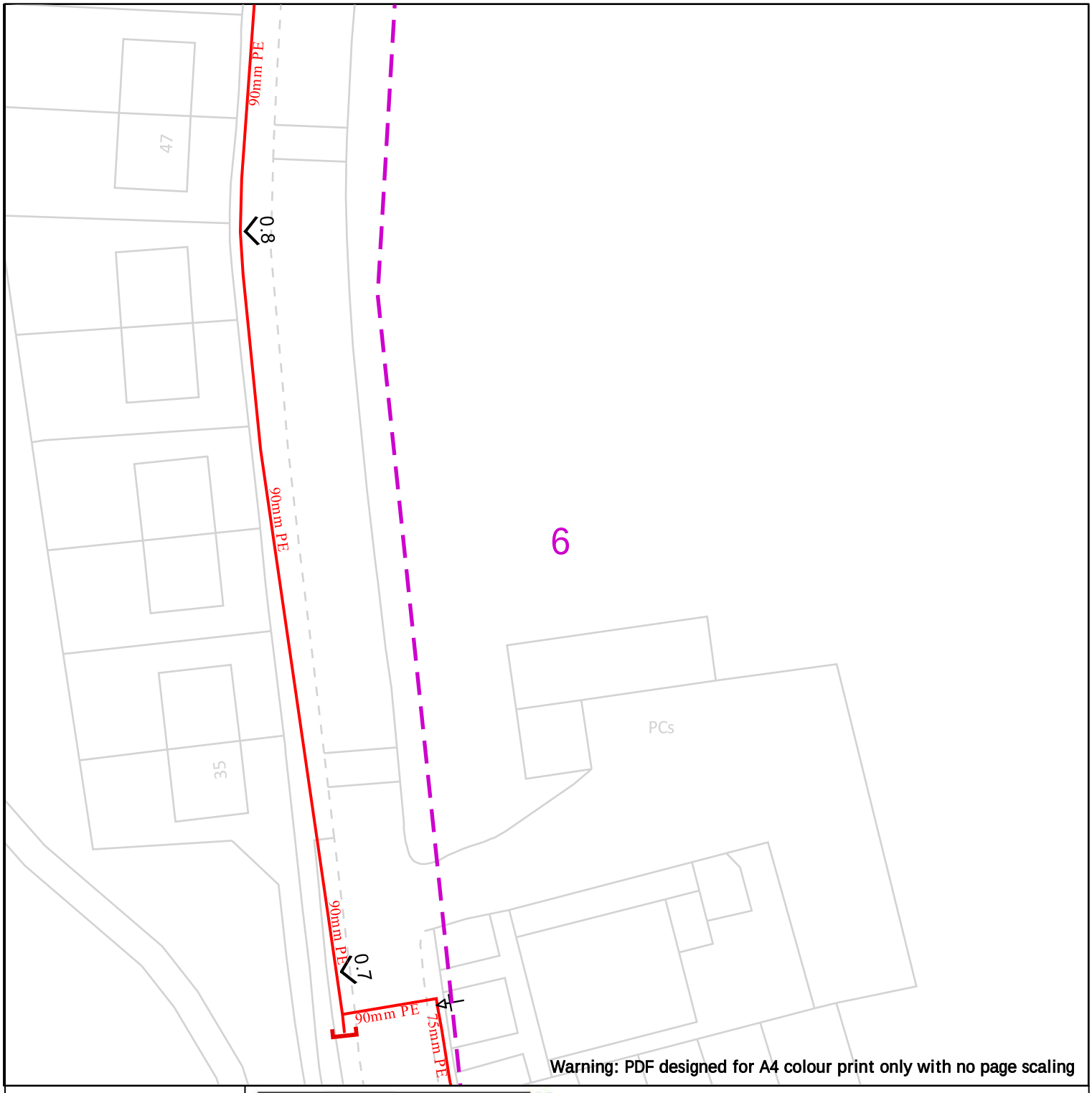
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25m

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Diameter Change
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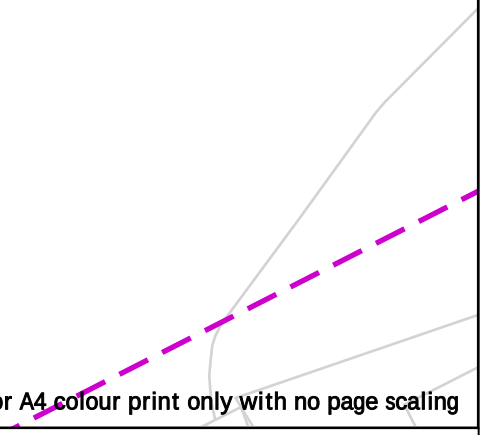
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7



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25m

Dig Sites Area: Line:

LP Mains
MP Mains
IP Mains
LHP Mains

Valve
Depth of cover
Syphon
Diameter Change
Material Change
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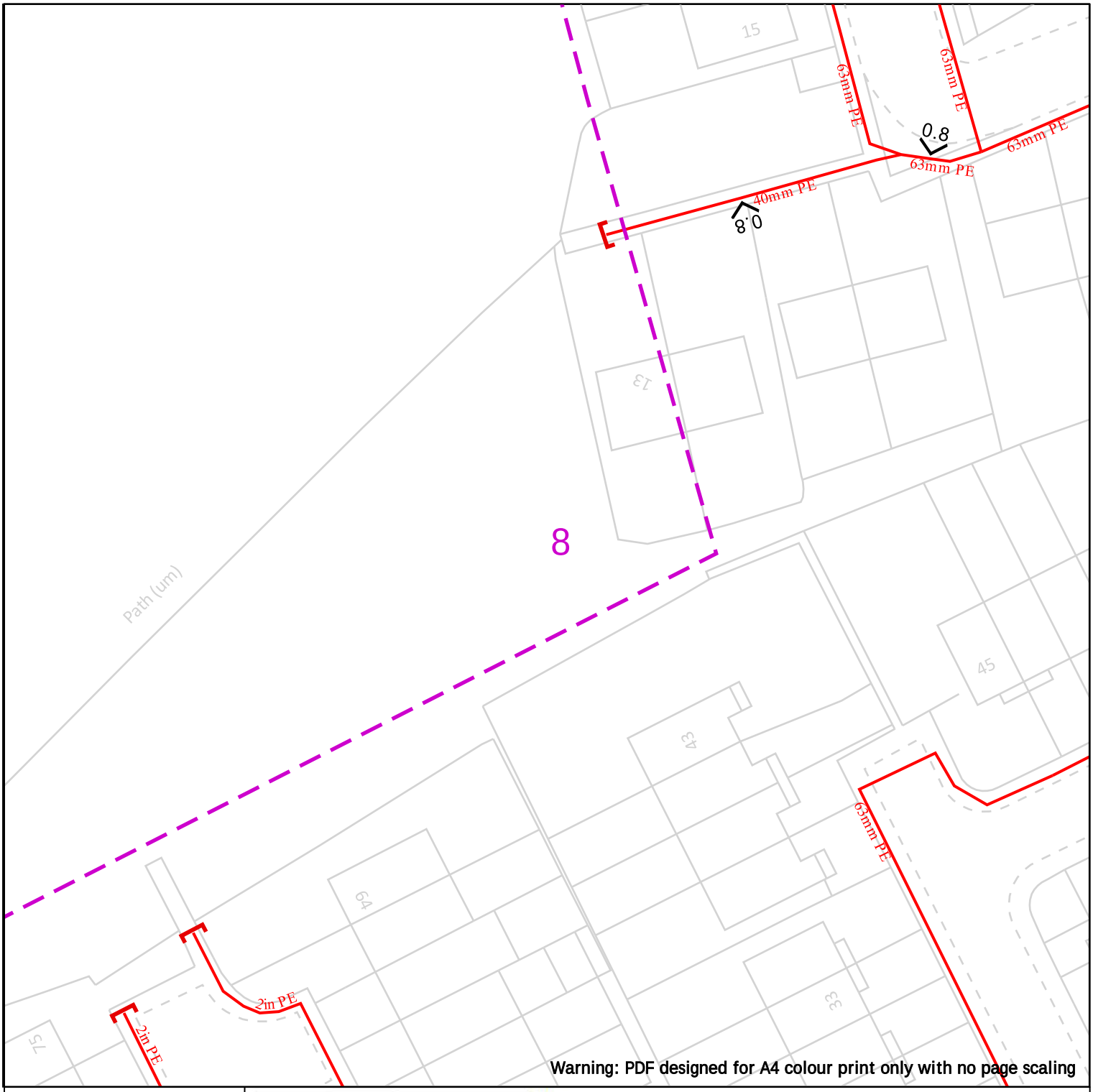
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MP Mains
IP Mains
LHP Mains

Valve
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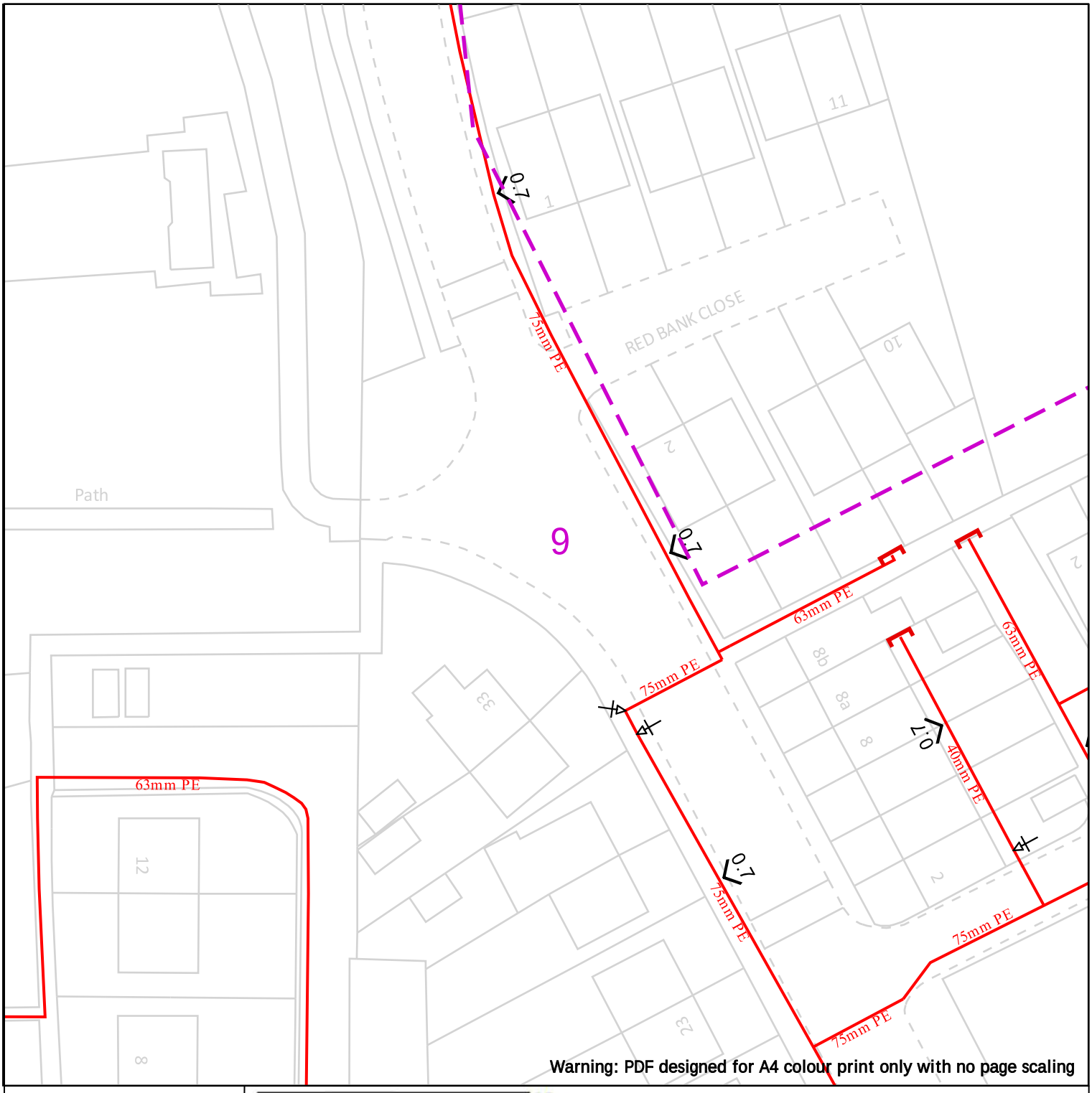
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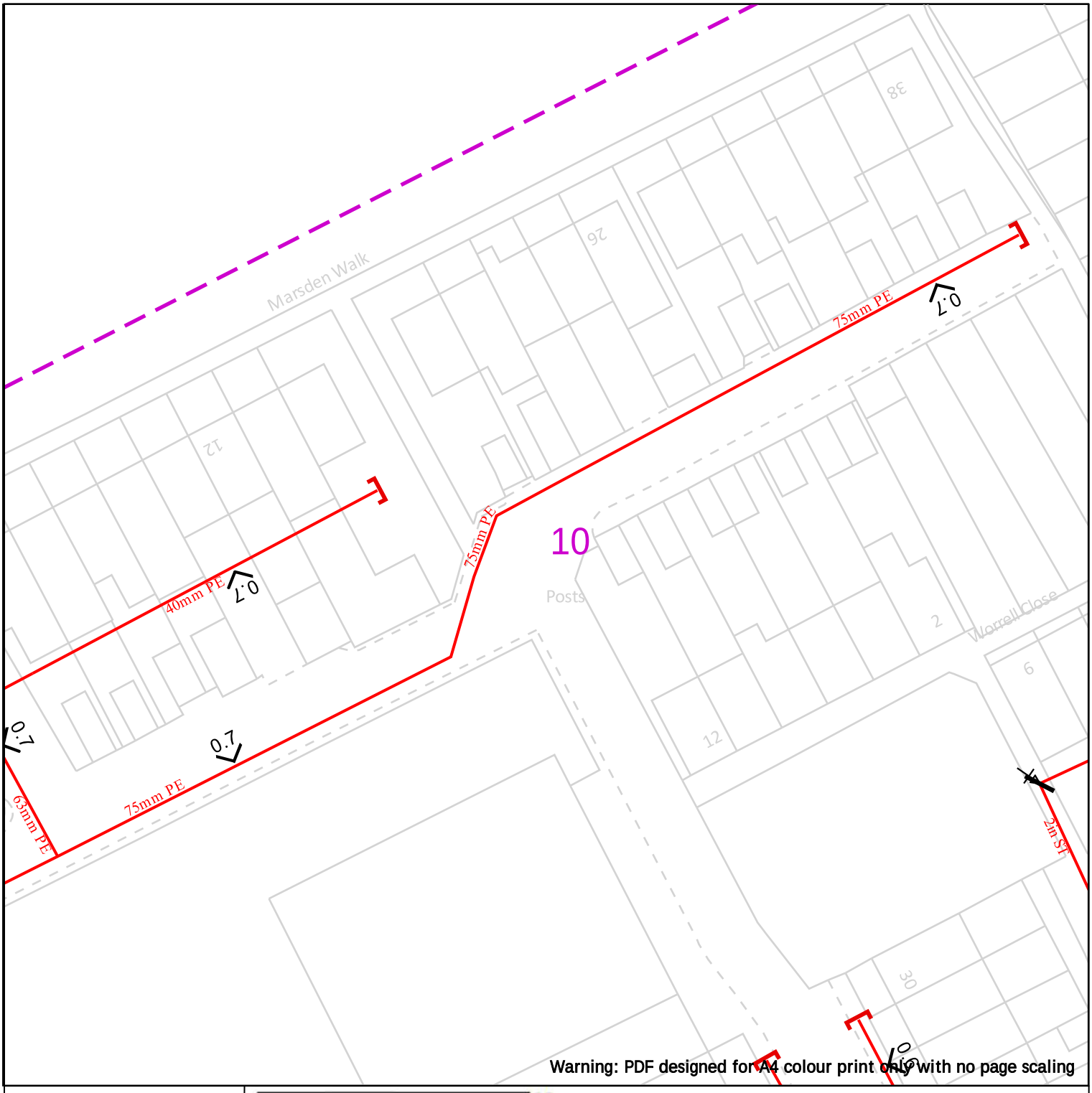
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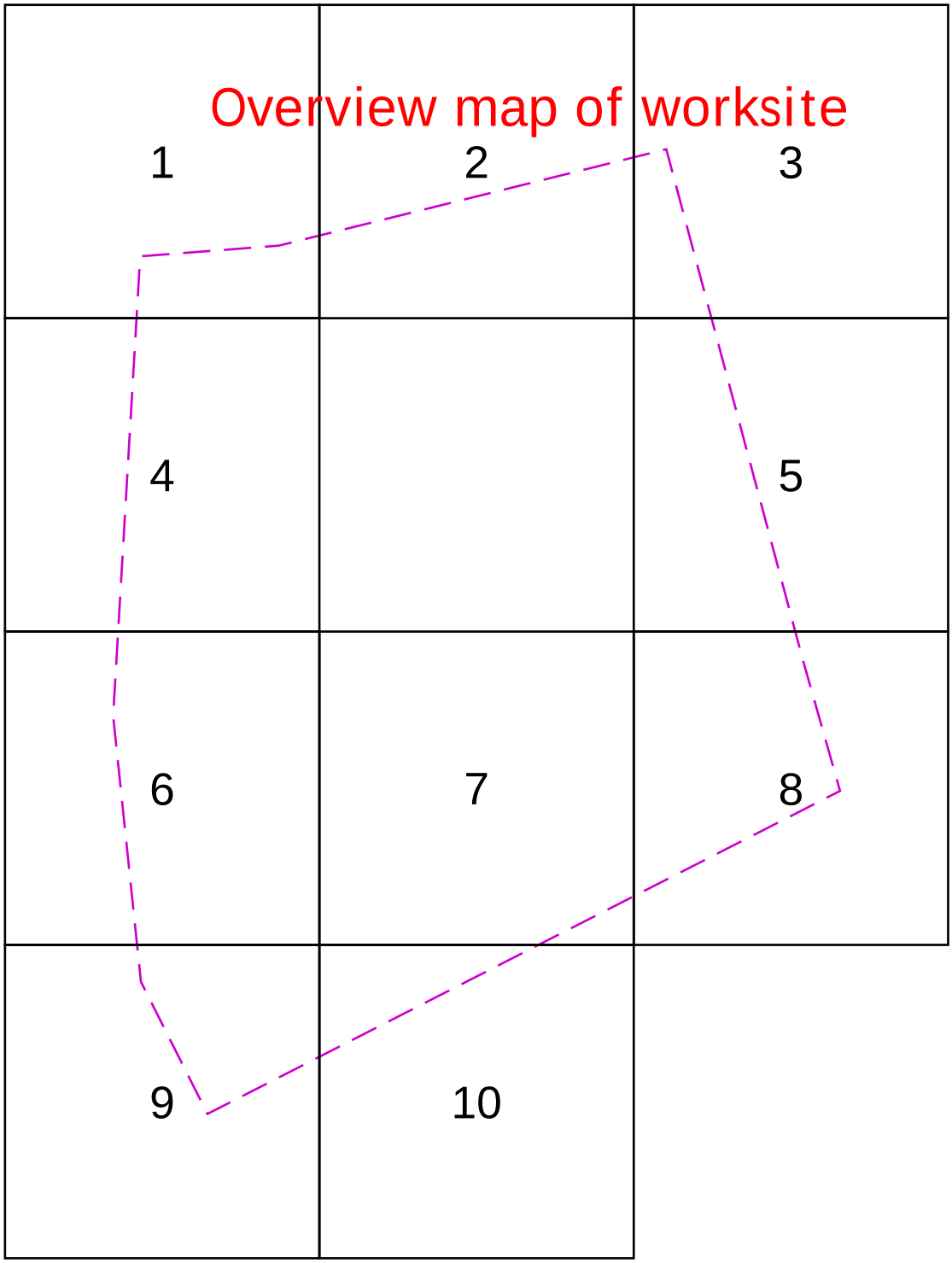
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Overview map of worksite



Last Mile Asset Management Limited
Fenick House, Lister Way
Hamilton International Technology Park
Glasgow G72 0FT
Telephone 03300 587 443

Date Requested: 11/05/2023
Job Reference: 29455640
Site Location: 377693 407829
Requested by: Miss Lauren Wenham

Your Scheme/Reference: STV6052

Scale: 1:2050 (When plotted at A4)

ELECTRIC KEY

- PROPOSED LV SERVICE
- PROPOSED LV
- PROPOSED HV
- PROPOSED EHV (UG)
- EXISTING/AS LAID LV SERVICE
- EXISTING/AS LAID LV (UG)
- EXISTING/AS LAID HV (UG)
- EXISTING/AS LAID EHV (UG)
- EXISTING LV OVERHEAD
- EXISTING HV OVERHEAD
- EXISTING EHV OVERHEAD
- PROPOSING DISCONNECTED
- LV STRAIGHT JOINT
- LV BREACH JOINT
- HV STRAIGHT JOINT
- HV BREACH JOINT
- STREET LIGHTING C.P
- MINI PILLAR
- LINK BOX
- EARTH SPIKE
- POT END
- SERVICE JOINT

Dig Sites

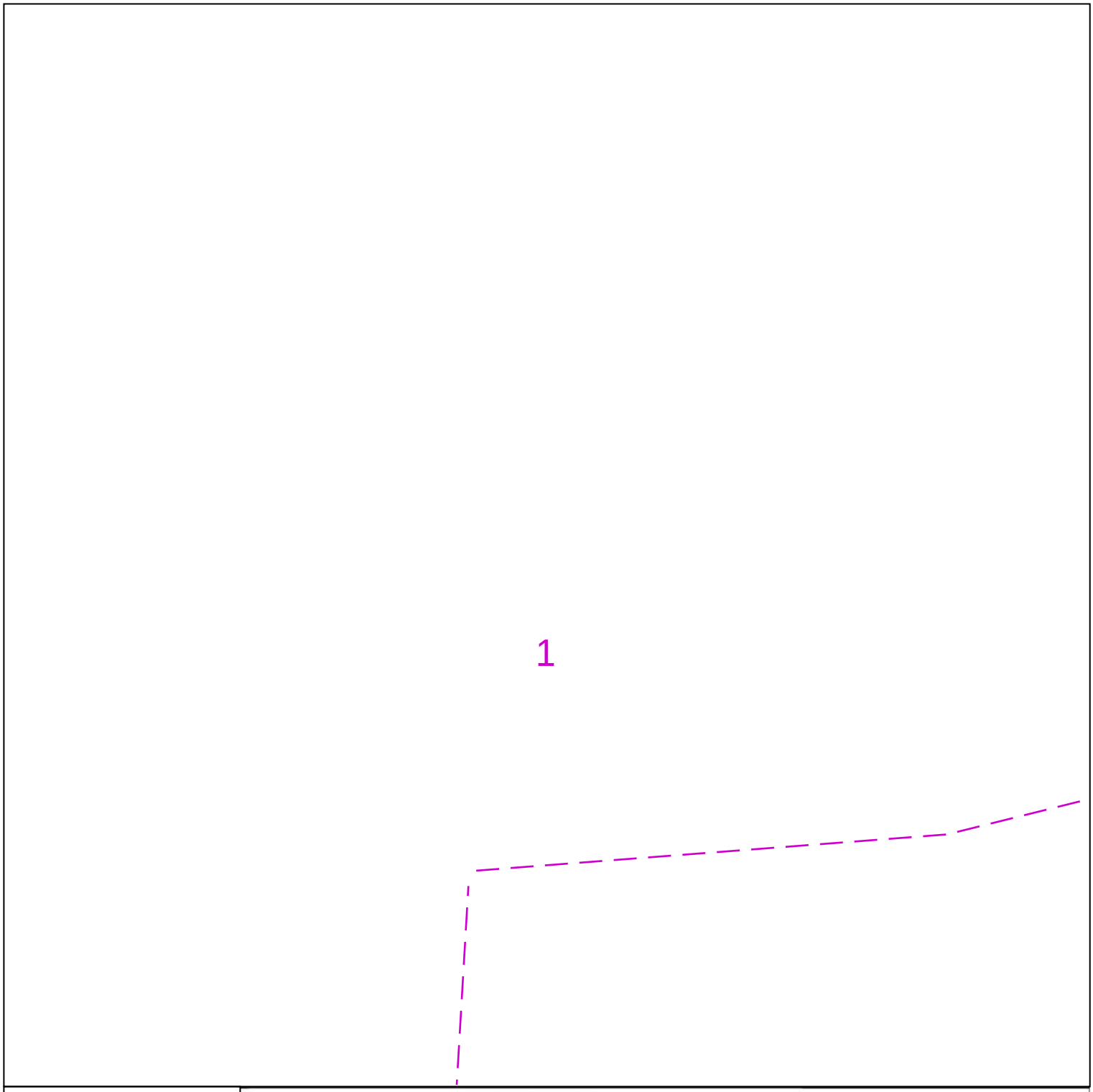
Line:

Area:

This plan shows cables owned by Last Mile Electricity Limited in their role as a Licensed Distributor (IDNO). Cables owned by other Distributors or privately owned cables (or, indeed, any other apparatus, equipment or infrastructure may also be present in the area. Information regarding such cables (or any such other apparatus, equipment, or infrastructure) should be obtained from the relevant owners.
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In an emergency call 105, 24 hours a day

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Last Mile Asset Management Limited
Fenick House, Lister Way
Hamilton International Technology Park
Glasgow G72 0FT
Telephone 03300 587 443

Date Requested: 11/05/2023
Job Reference: 29455640
Site Location: 377693 407829
Requested by: Miss Lauren Wenham

Your Scheme/Reference: STV6052

Scale: 1:500 (When plotted at A4)

ELECTRIC KEY

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- LV BREACH JOINT
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- HV BREACH JOINT
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- MINI PILLAR
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Dig Sites

Line:

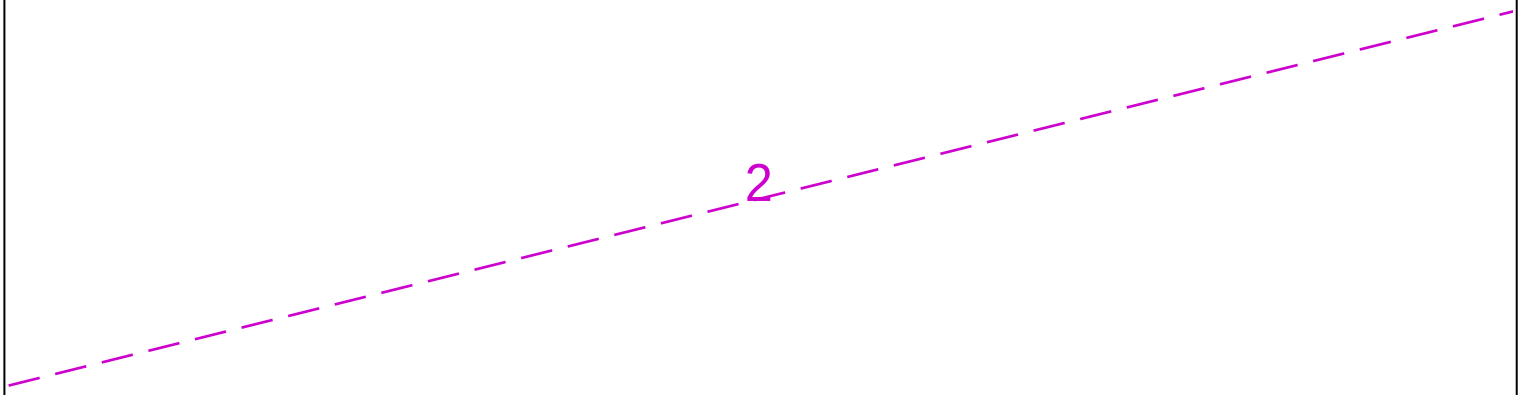
Area:

100m

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Telephone 03300 587 443

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- HV STRAIGHT JOINT
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Dig Sites

Line:

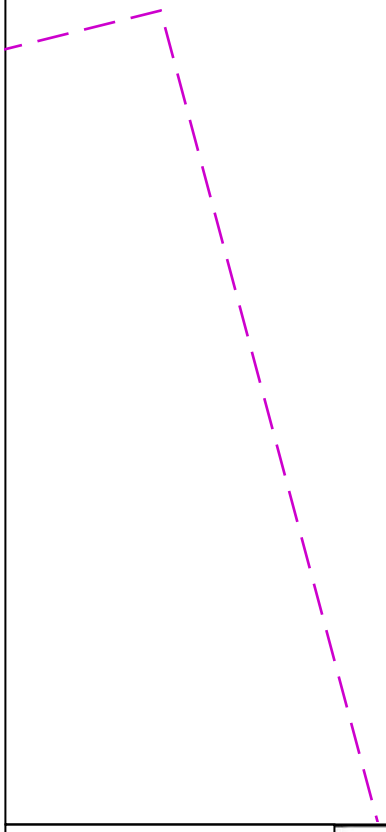
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In an emergency call 105, 24 hours a day

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Last Mile Asset Management Limited
Fenick House, Lister Way
Hamilton International Technology Park
Glasgow G72 0FT
Telephone 03300 587 443

Date Requested: 11/05/2023
Job Reference: 29455640
Site Location: 377693 407829
Requested by: Miss Lauren Wenham

Your Scheme/Reference: STV6052

Scale: 1:500 (When plotted at A4)

ELECTRIC KEY

- PROPOSED LV SERVICE
- PROPOSED LV
- PROPOSED HV
- PROPOSED EHV (UG)
- EXISTING/AS LAID LV SERVICE
- EXISTING/AS LAID LV (UG)
- EXISTING/AS LAID HV (UG)
- EXISTING/AS LAID EHV (UG)
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- EXISTING HV OVERHEAD
- EXISTING EHV OVERHEAD
- PROPOSING DISCONNECTED
- LV STRAIGHT JOINT
- LV BREACH JOINT
- HV STRAIGHT JOINT
- HV BREACH JOINT
- STREET LIGHTING C.P
- MINI PILLAR
- LINK BOX
- EARTH SPIKE
- POT END
- SERVICE JOINT

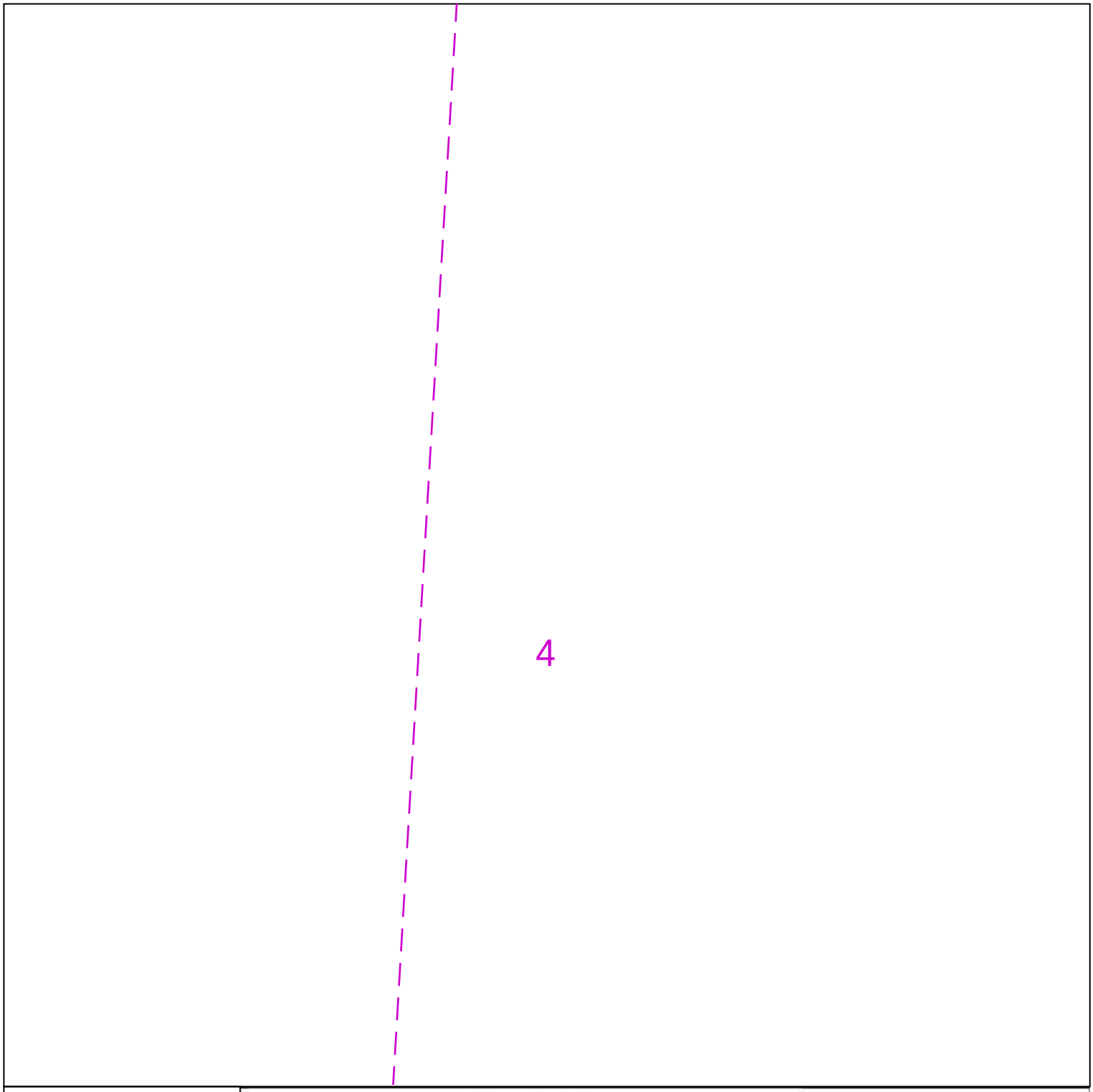
Dig Sites
Line:
Area:

100m

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Dig Sites

Line:

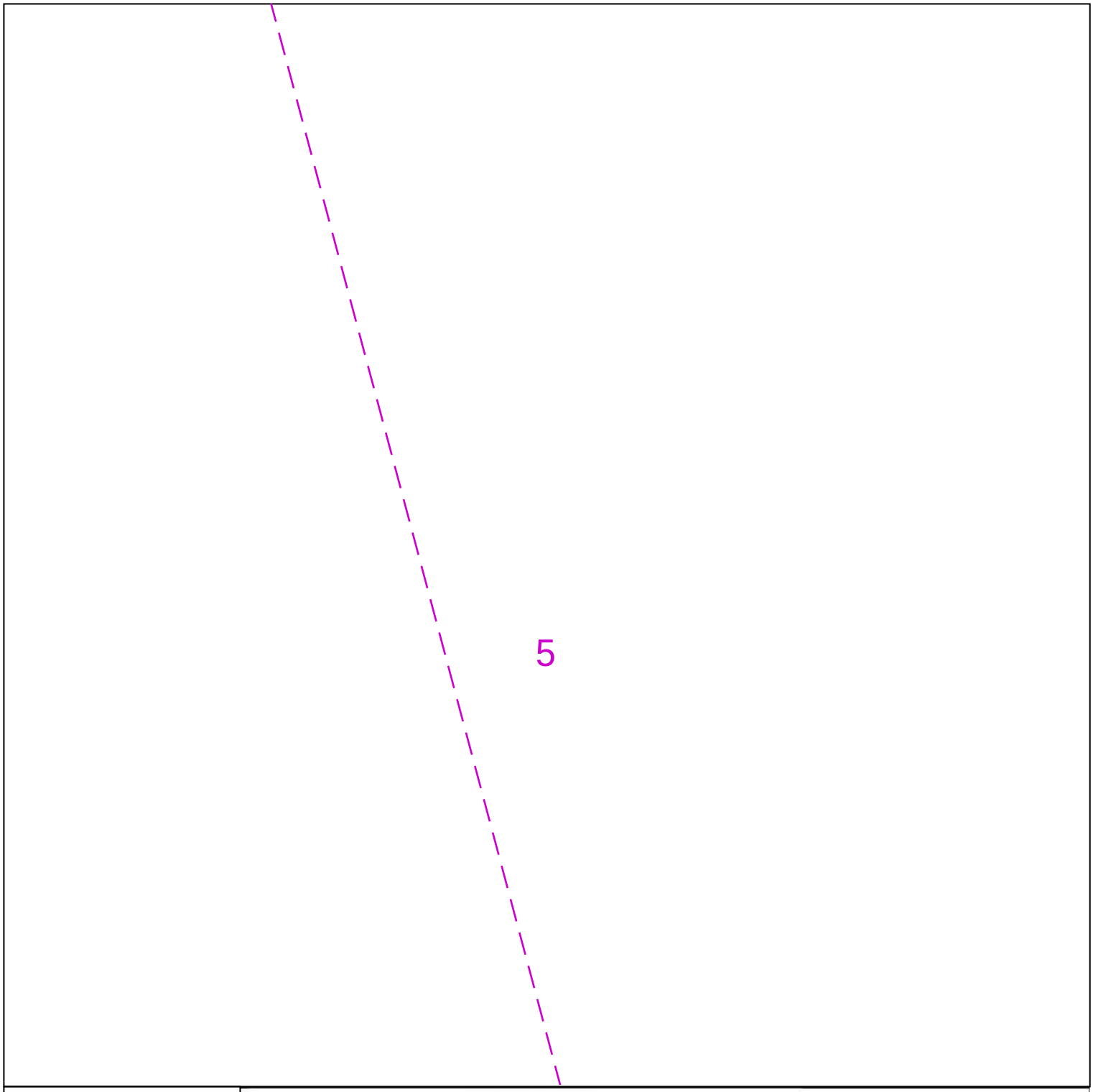
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Dig Sites

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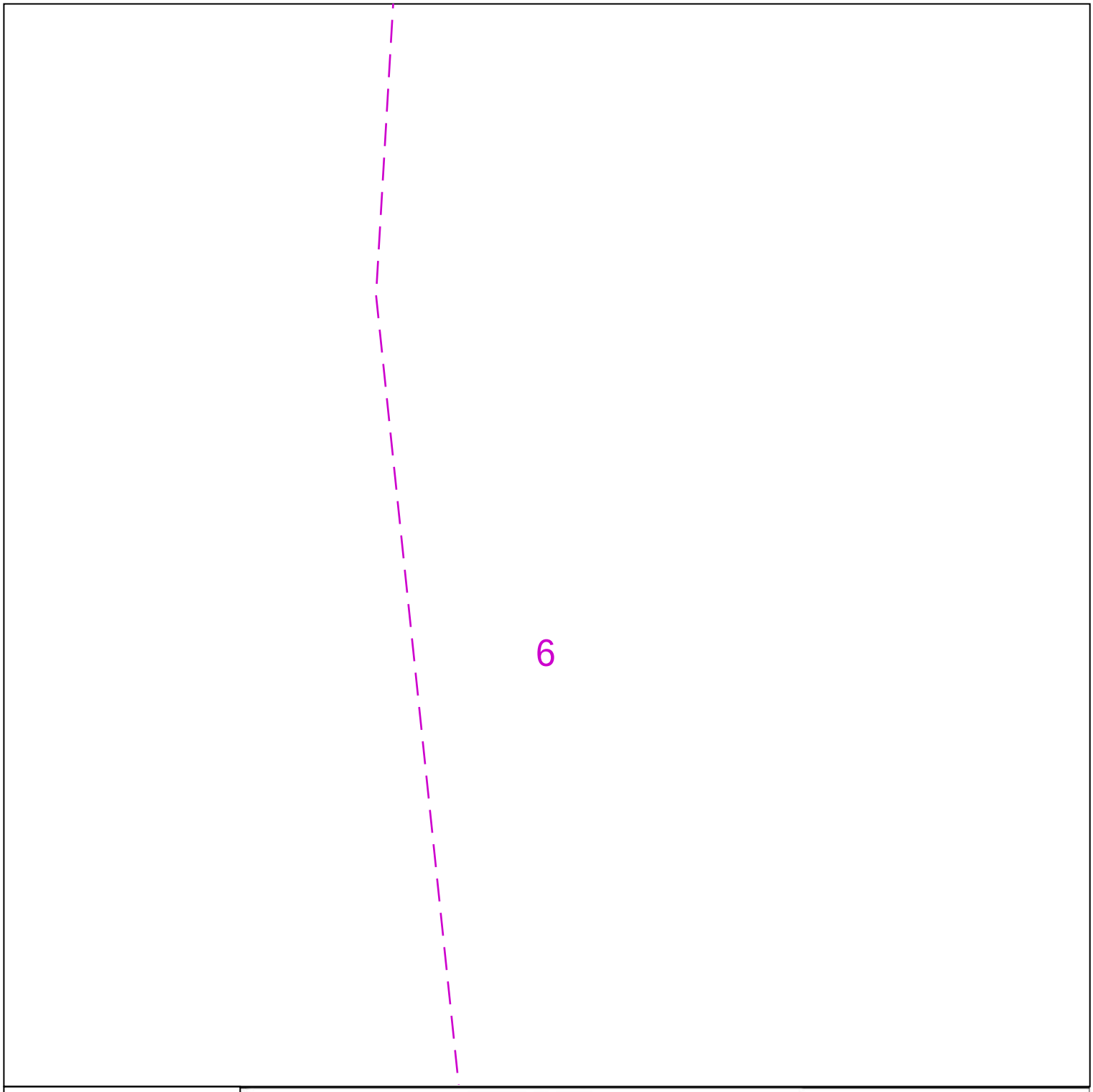
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Dig Sites

Line:

Area:

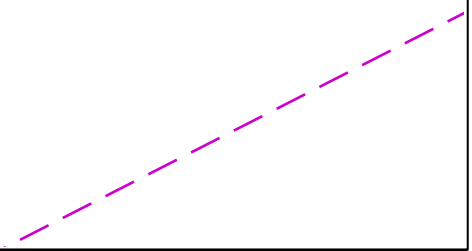
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EXISTING EHV OVERHEAD	
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Dig Sites

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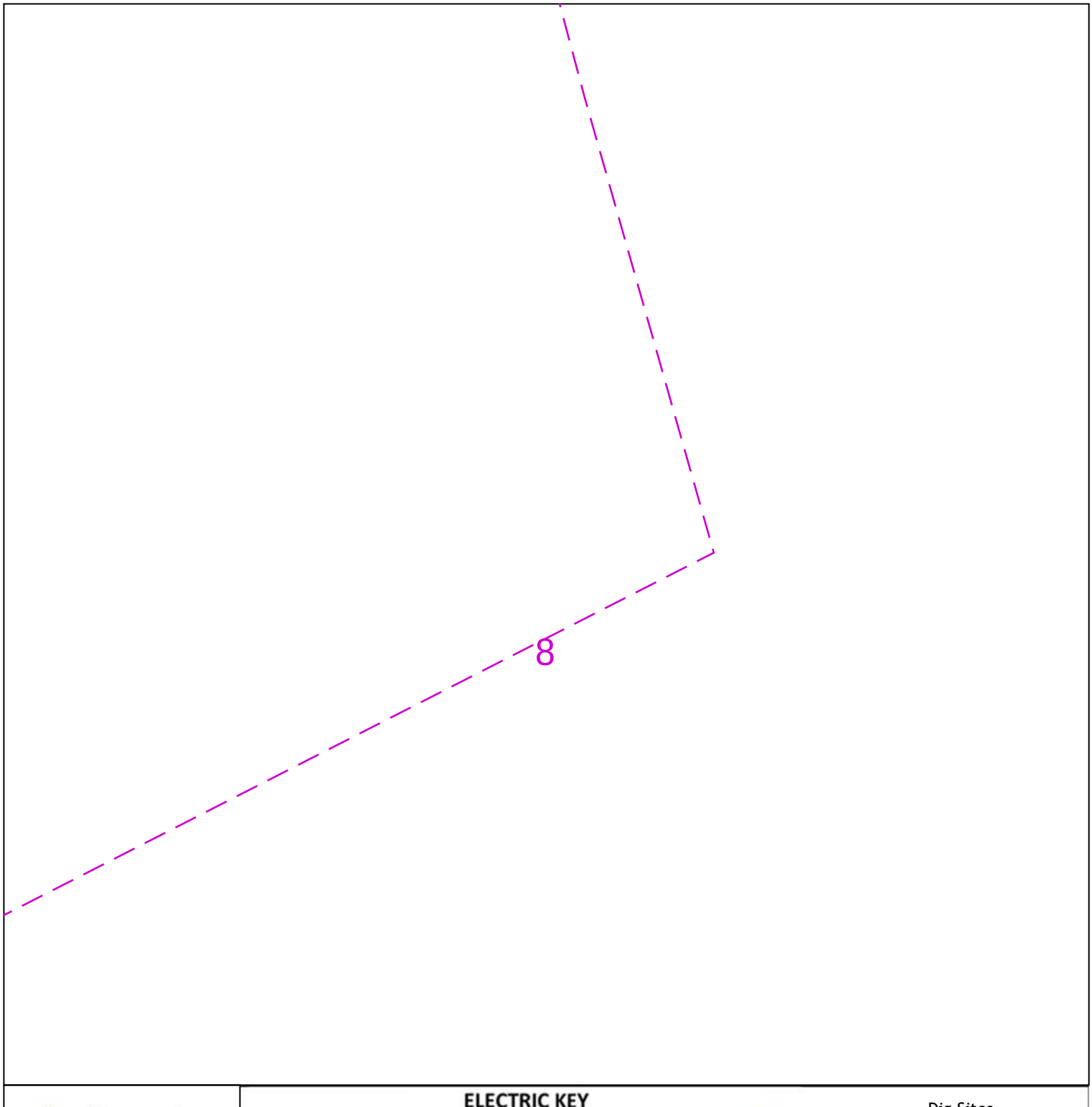
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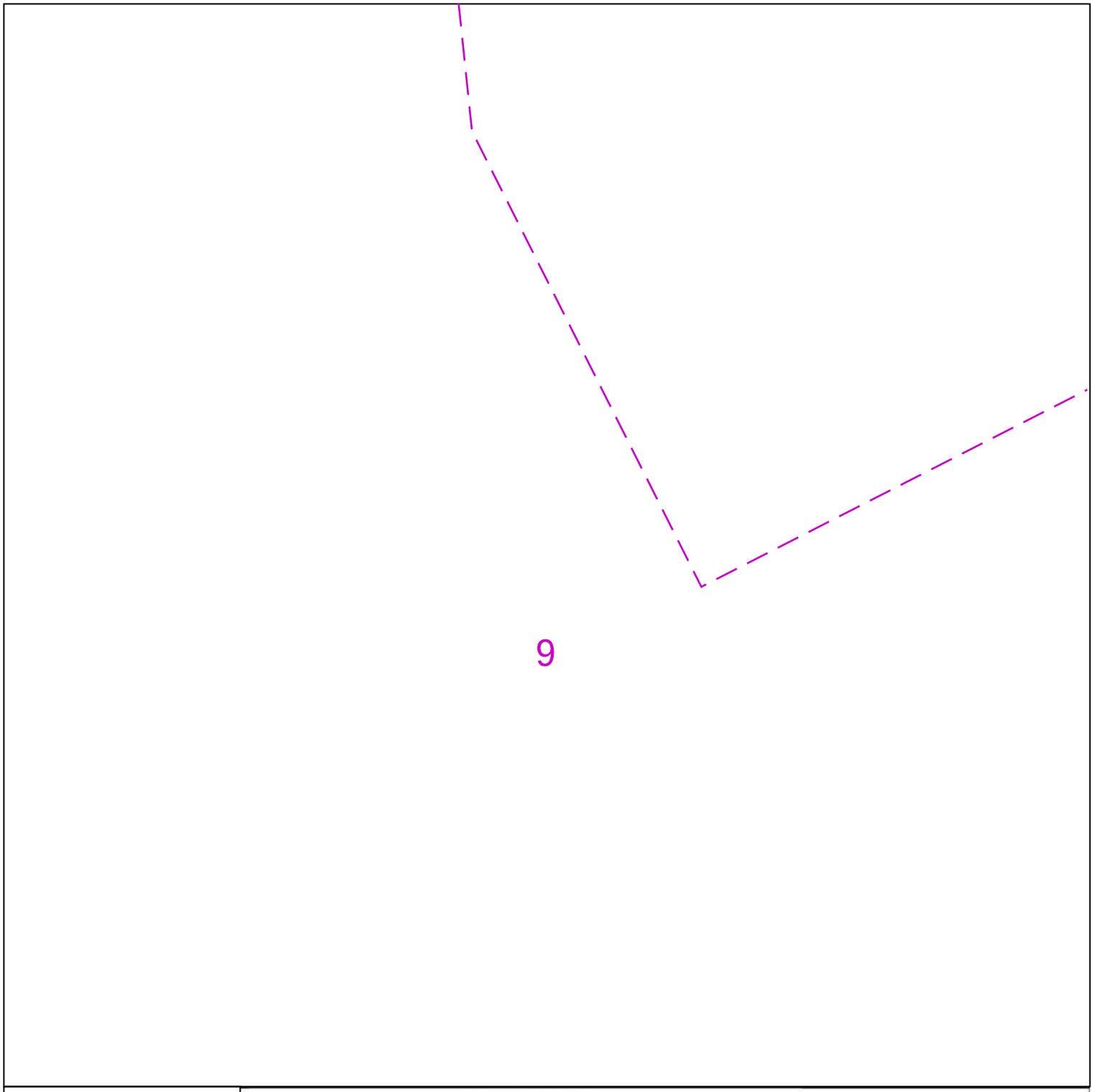
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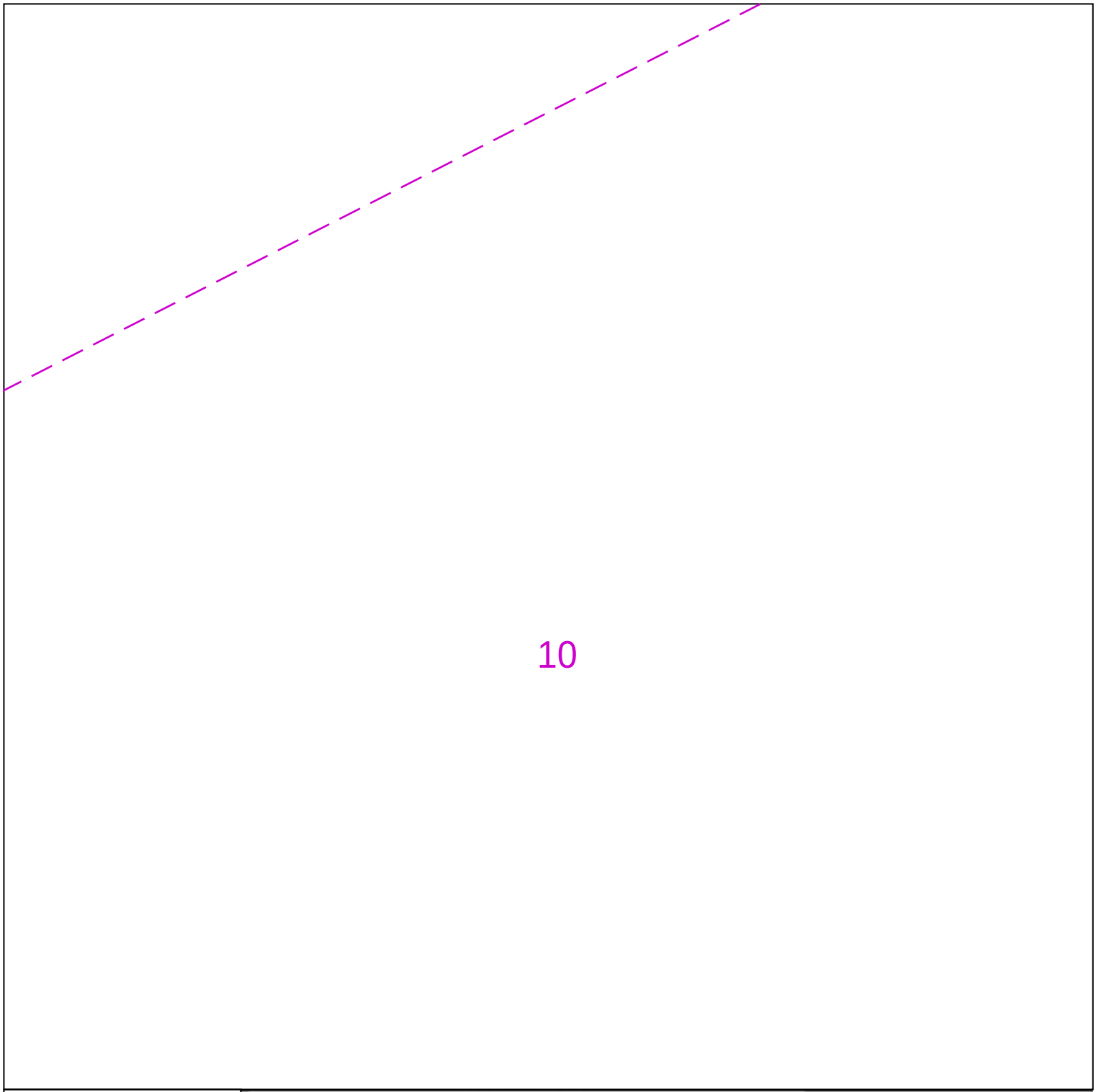
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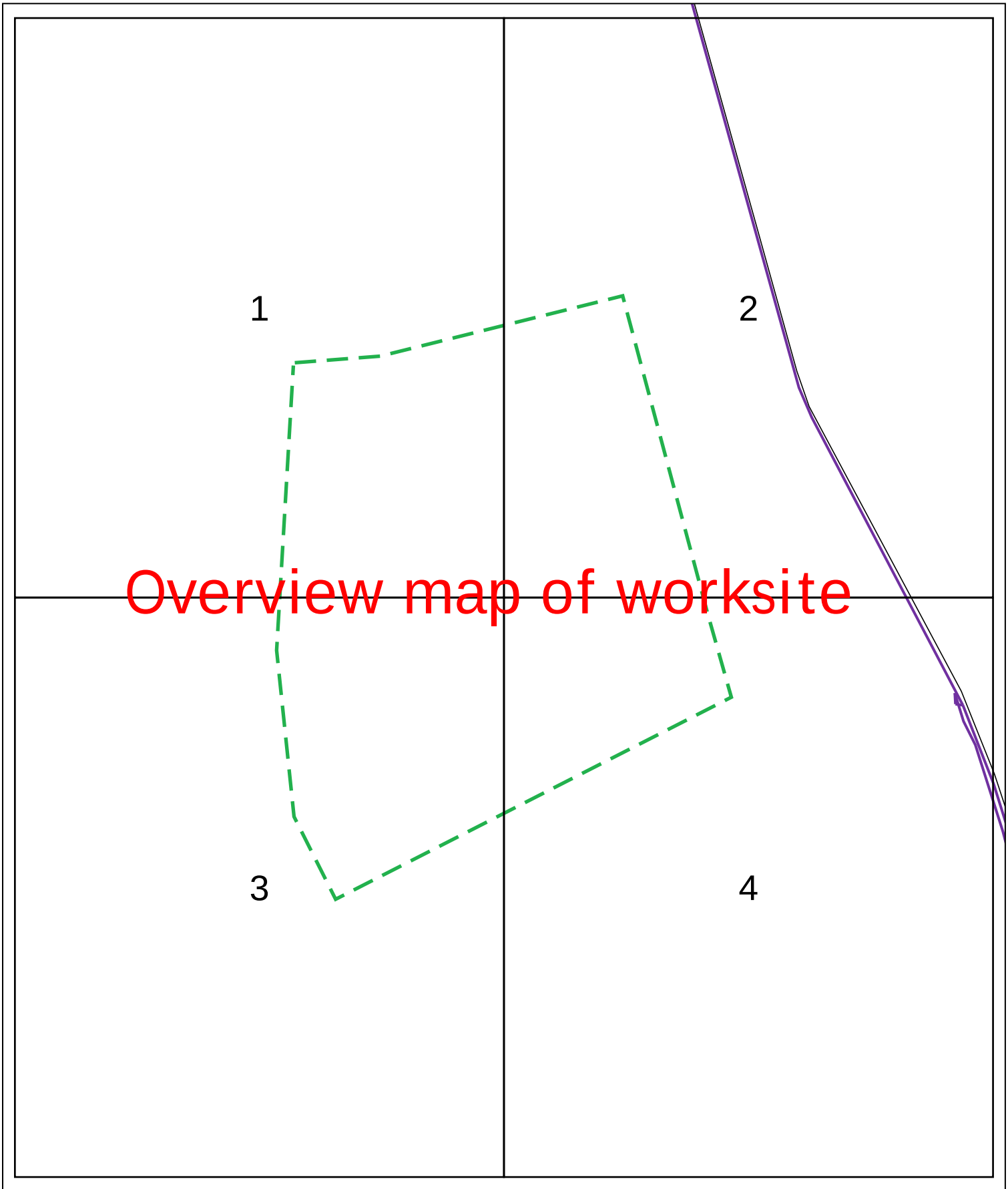
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Scale: 1:2562 (When plotted at A4)

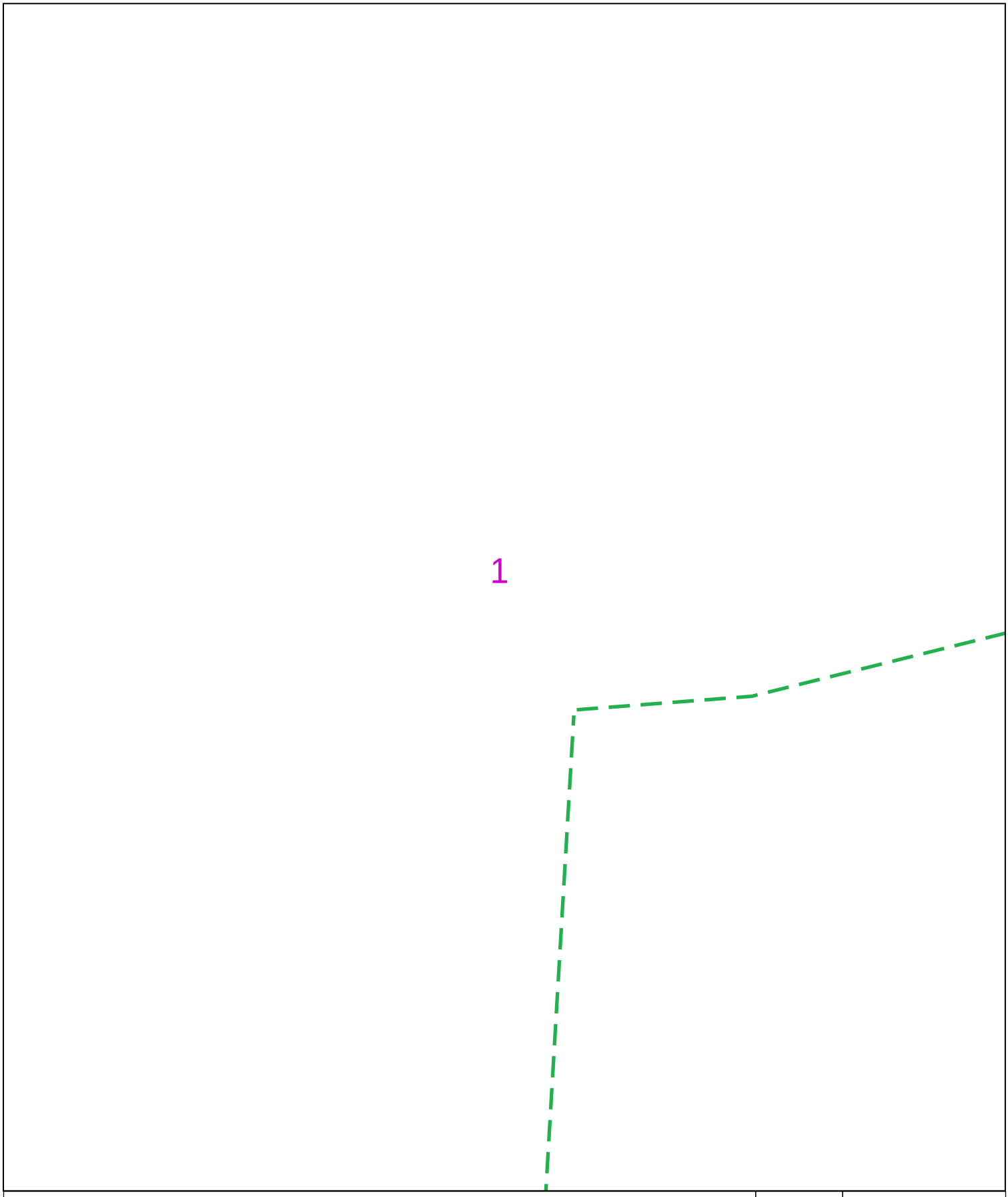
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Neos Networks Underground Route

Emergency Number: 0345 305 3337

Registered Office:
Inveralmond House,
200 Dunkeld Road,
Perth, PH1 3AQ

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0 50m Dig Sites Area: Line:

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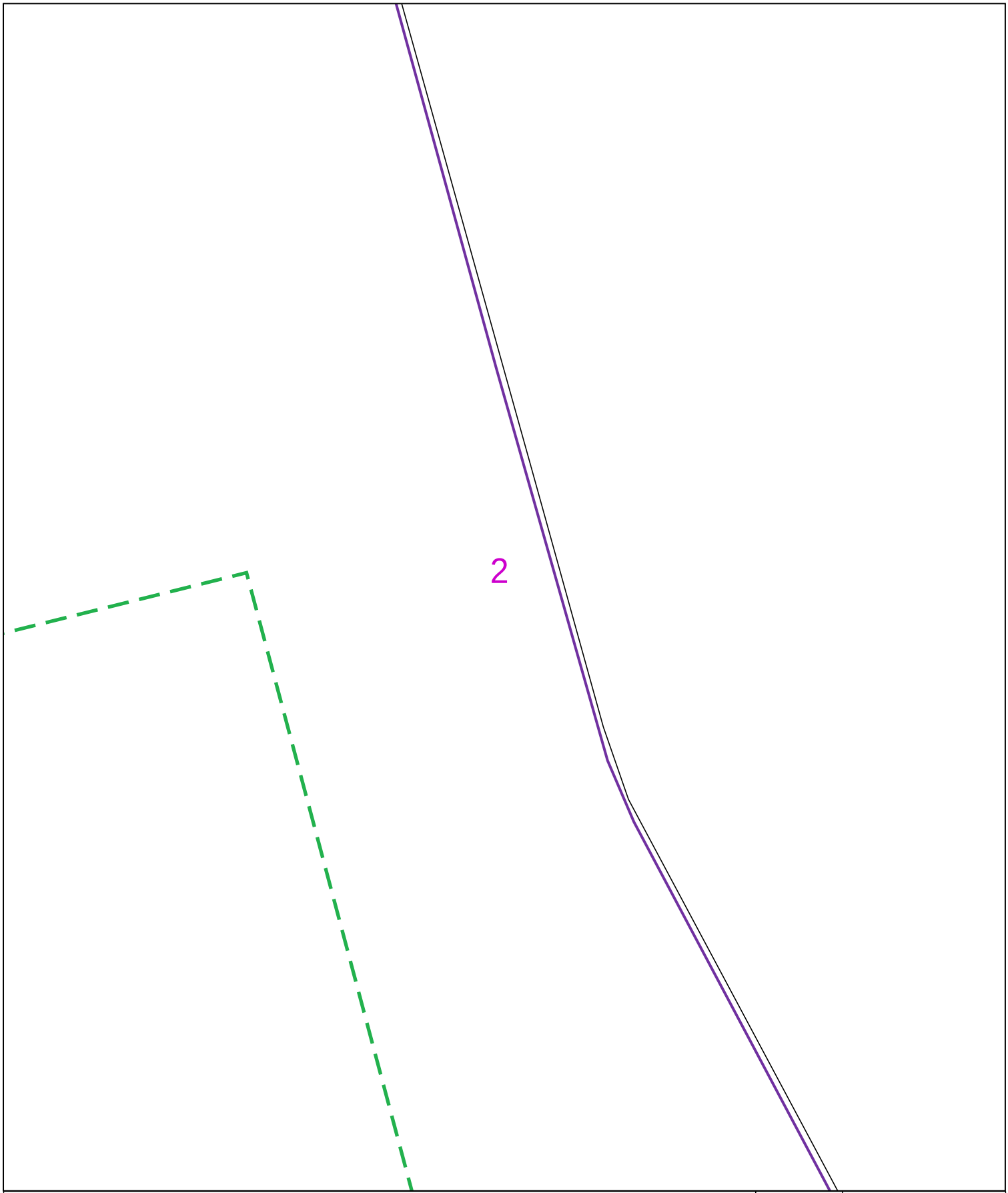
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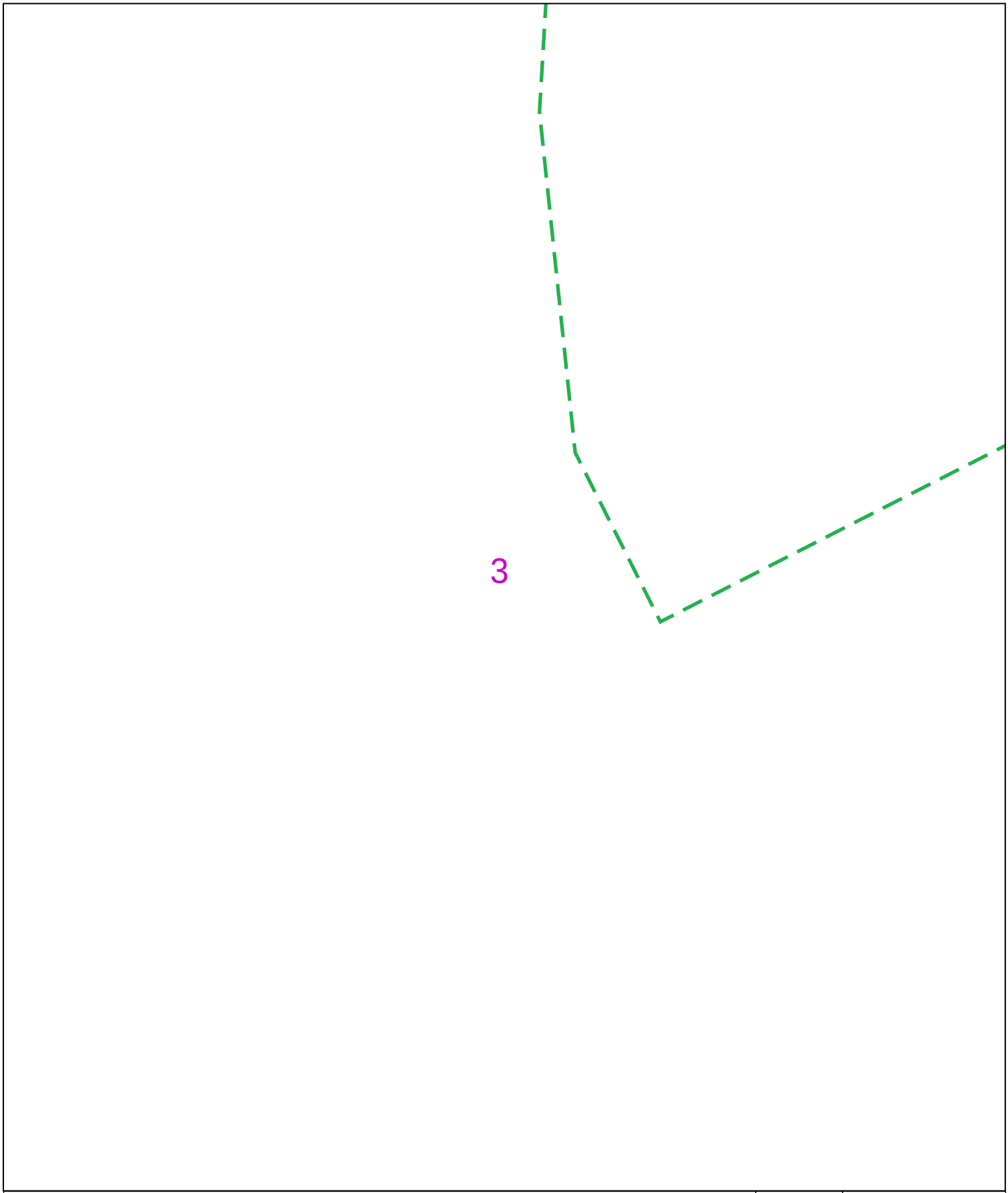
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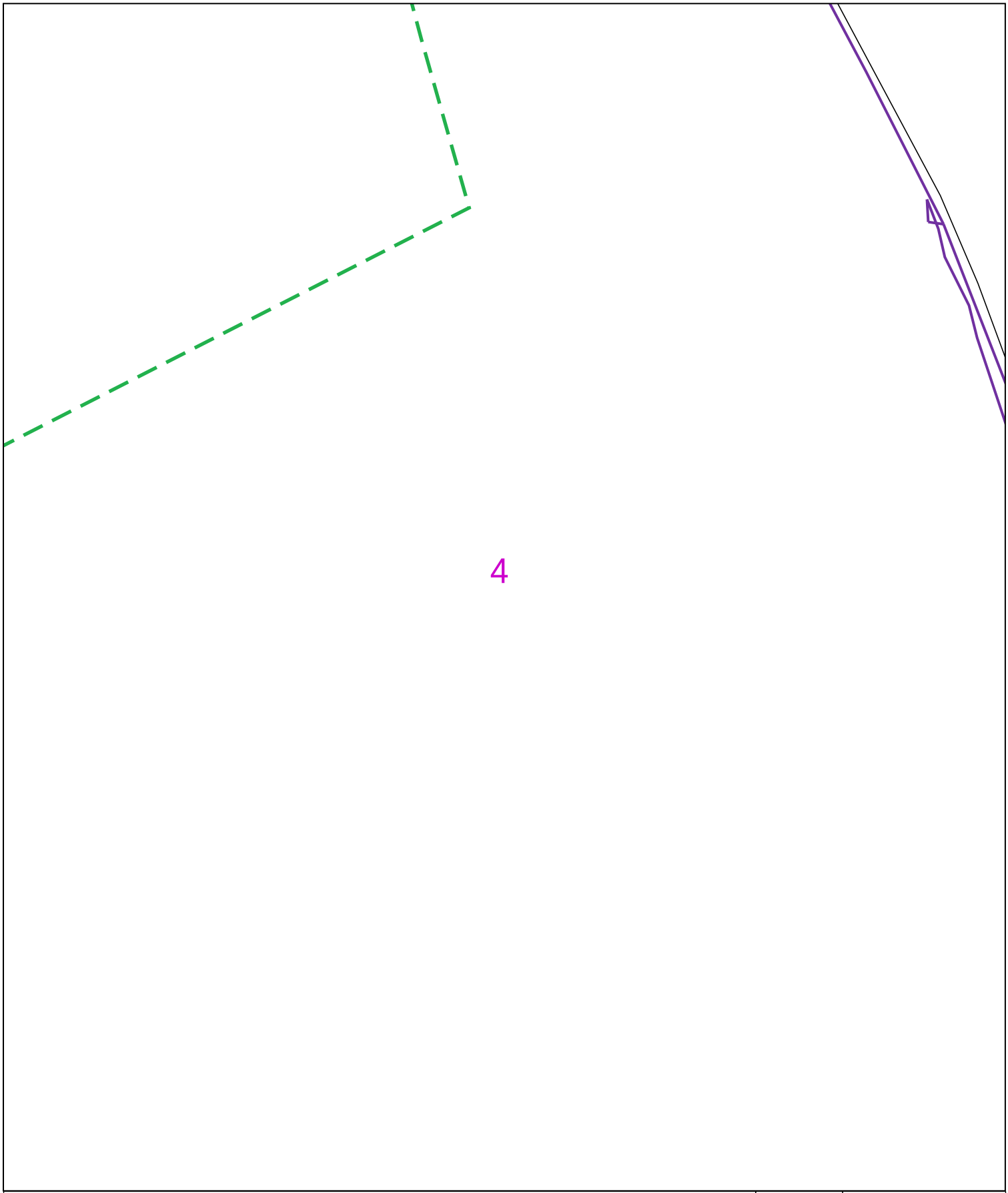
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Neos Networks Underground Route **Emergency Number: 0345 305 3337**

Registered Office:
Inveralmond House,
200 Dunkeld Road,
Perth, PH1 3AQ

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0 50m Dig Sites Area: Line:

The quality and accuracy of any print will depend on your printer, your computer and its print settings. Measurements scaled from this plan may not match measurements between the same points on the ground.

Date Requested: 11/05/2023
Job Reference: 29455640
Site Location: 377693 407829

Requested by: Miss Lauren Wenham

Your Scheme/Reference: STV6052

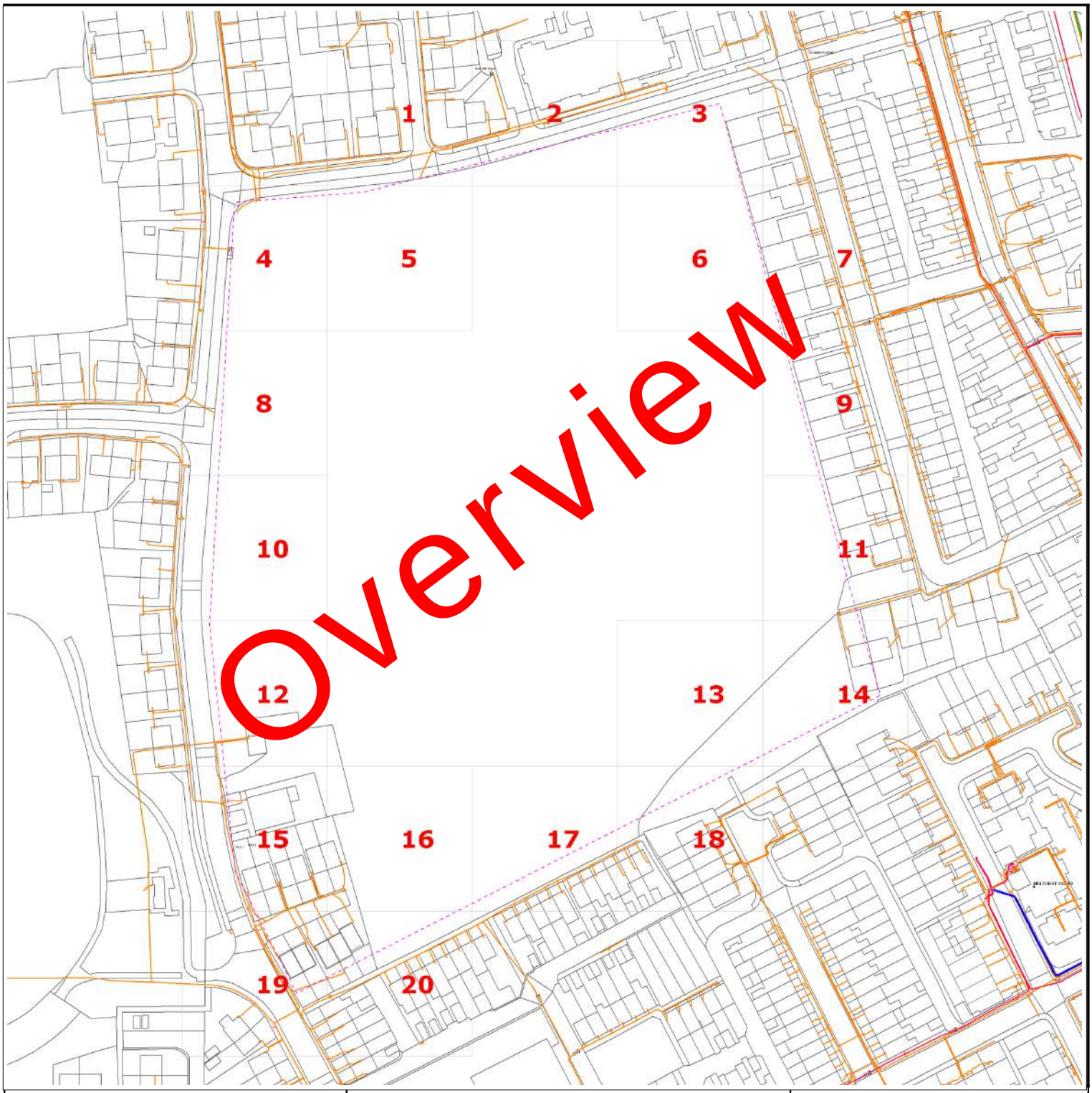
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Requested by: Lauren Wenham
Company: Soiltechnics Ltd
Date Requested: 11/05/2023
Job Reference: 29455640
Your Scheme/Reference: STV6052

Dig Sites:

Area Line

Operating Voltage	Colour Code	Line Colour
132kV	Black	
33kV	Green	
22kV-25kV	Yellow	
11kV	Red	
6kV-6.6kV	Blue	
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LV	Orange	
Unknown Voltage	Brown	

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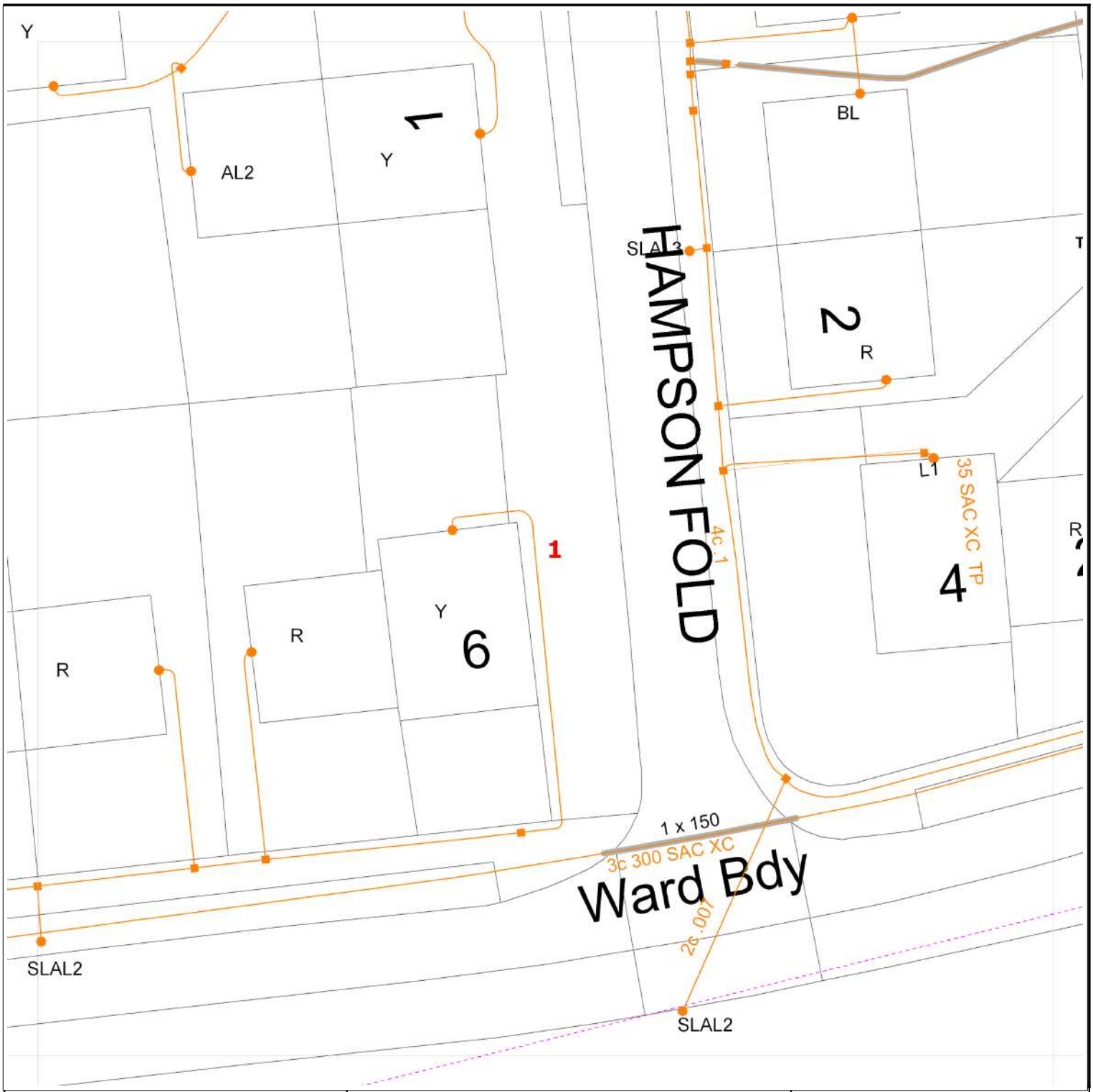
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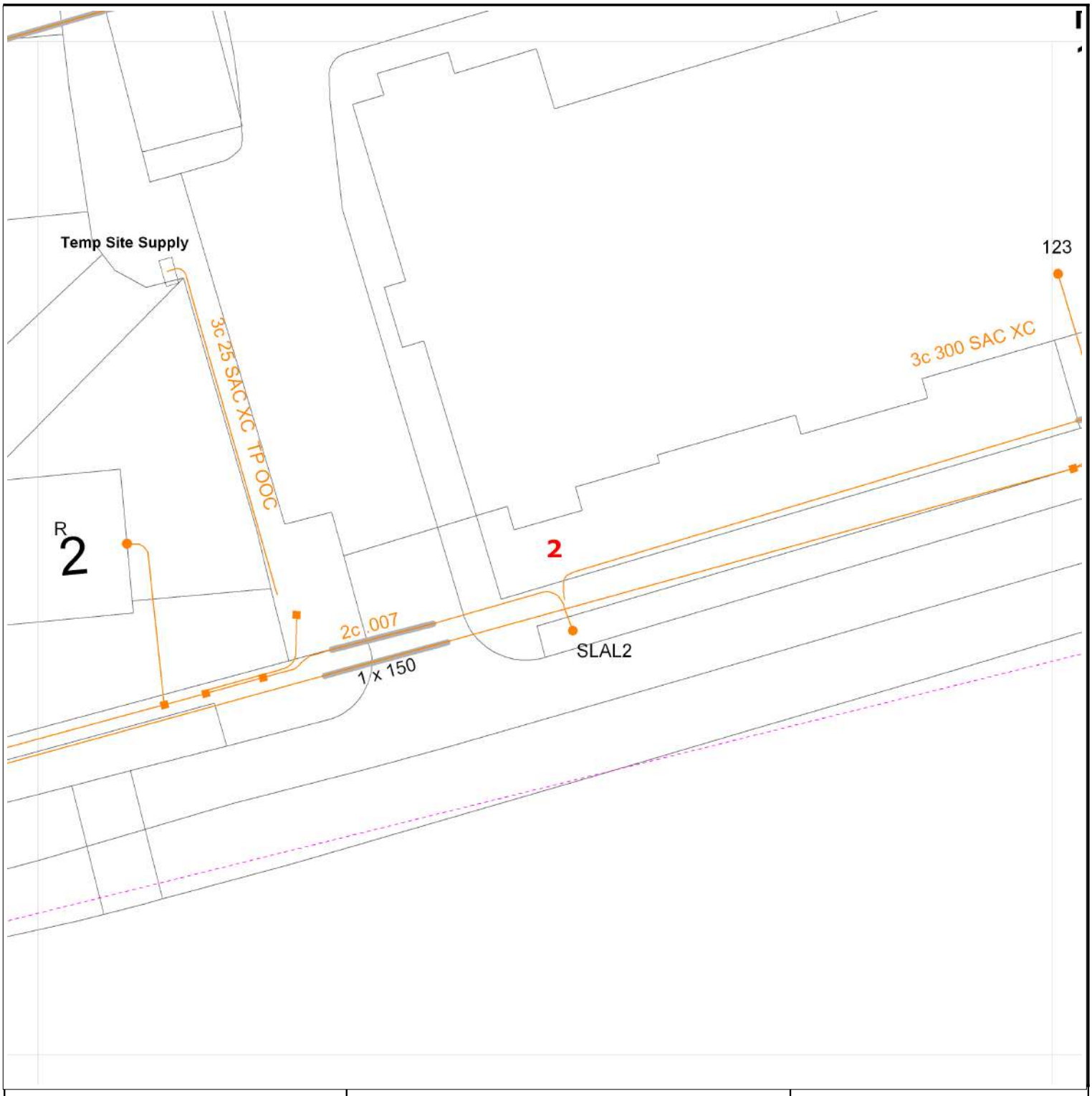
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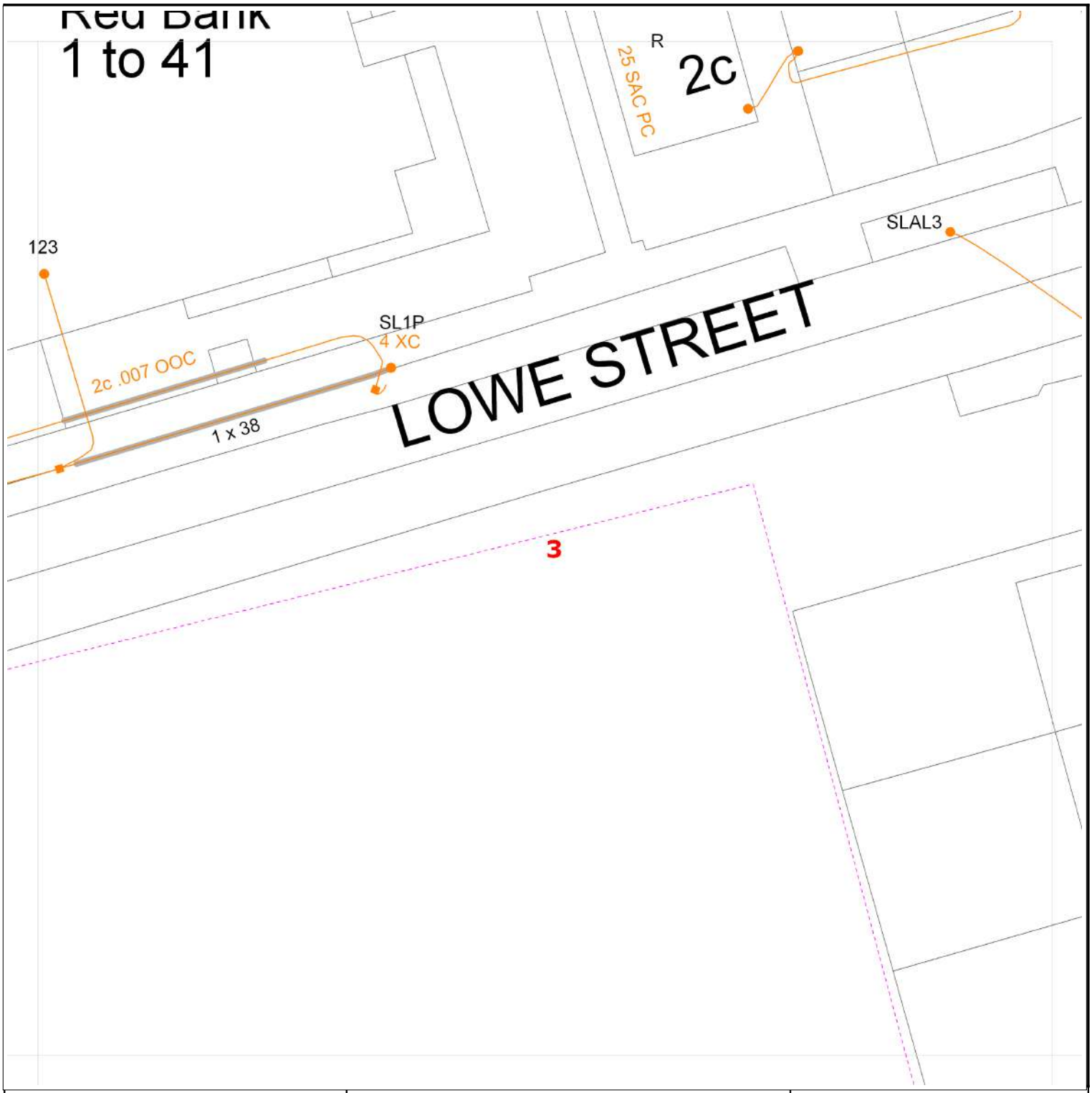
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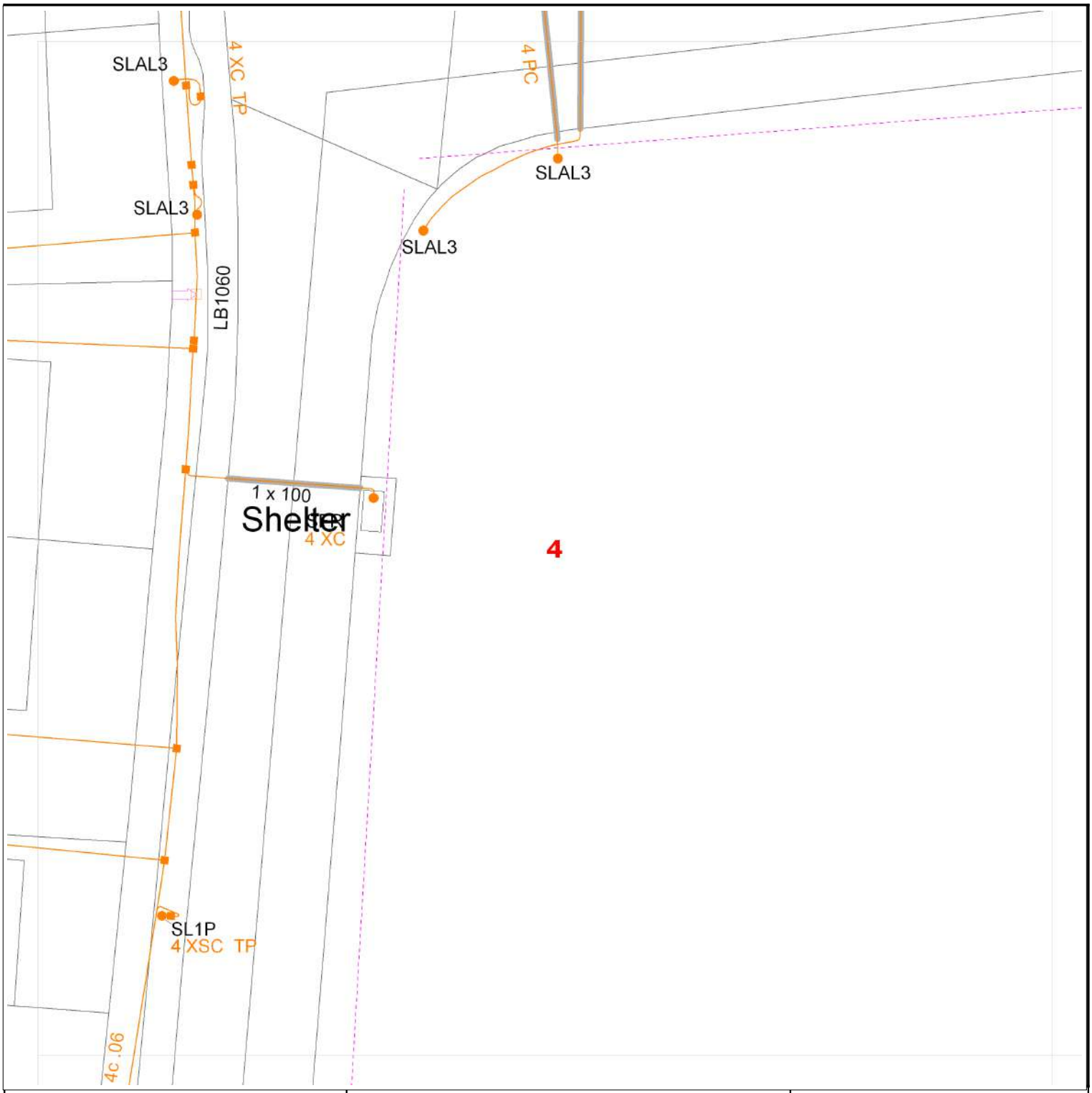
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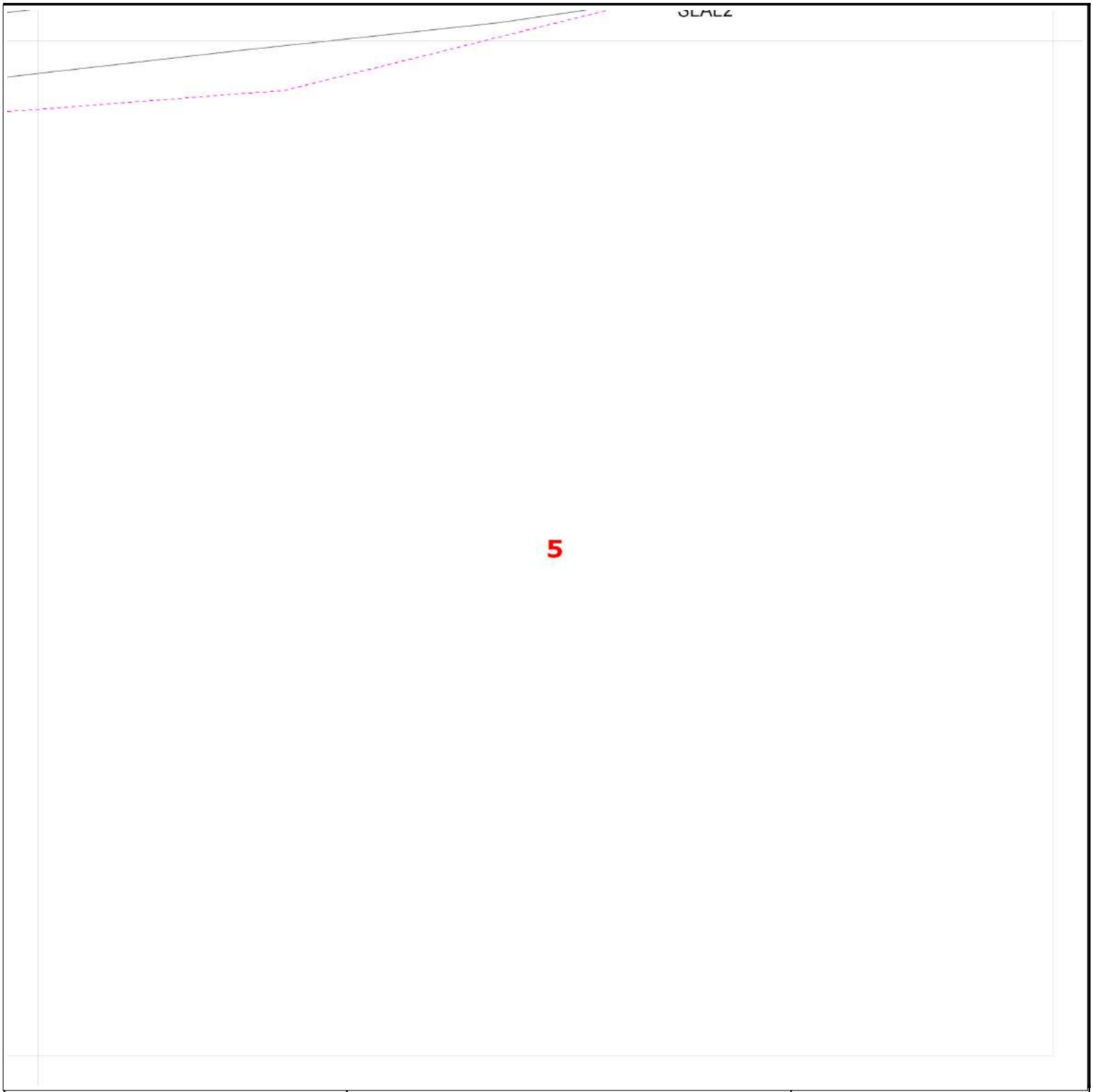
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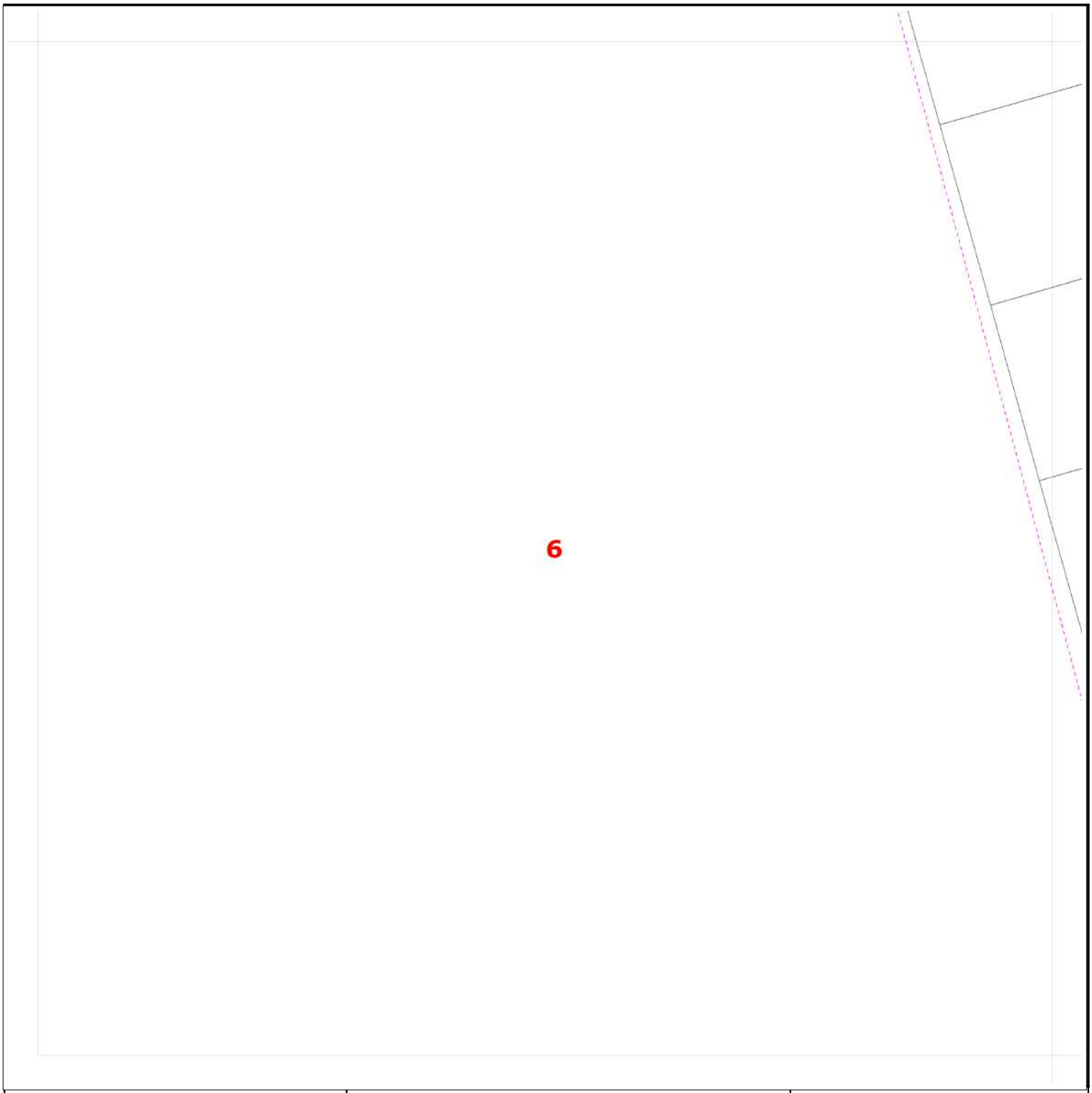
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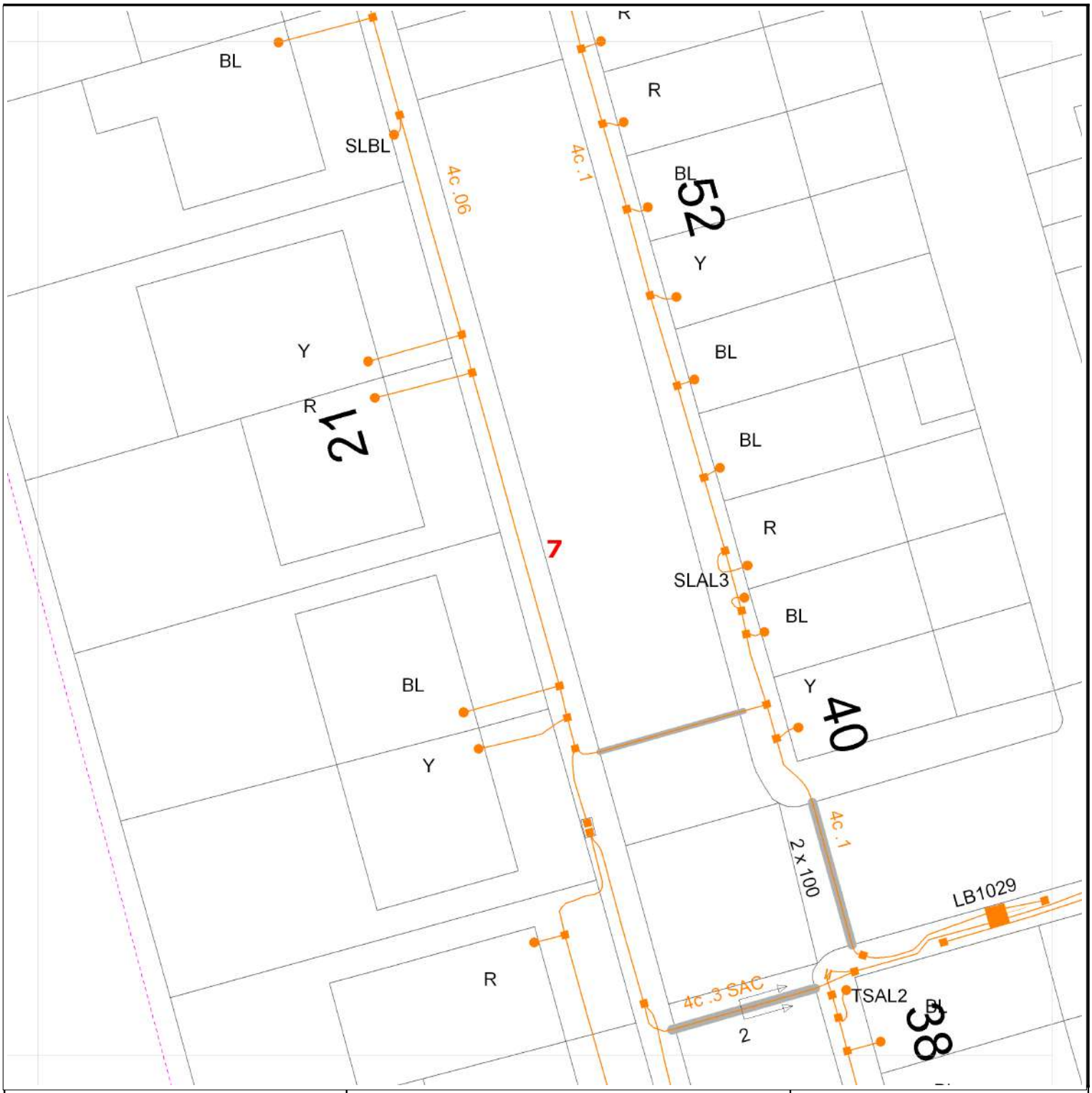
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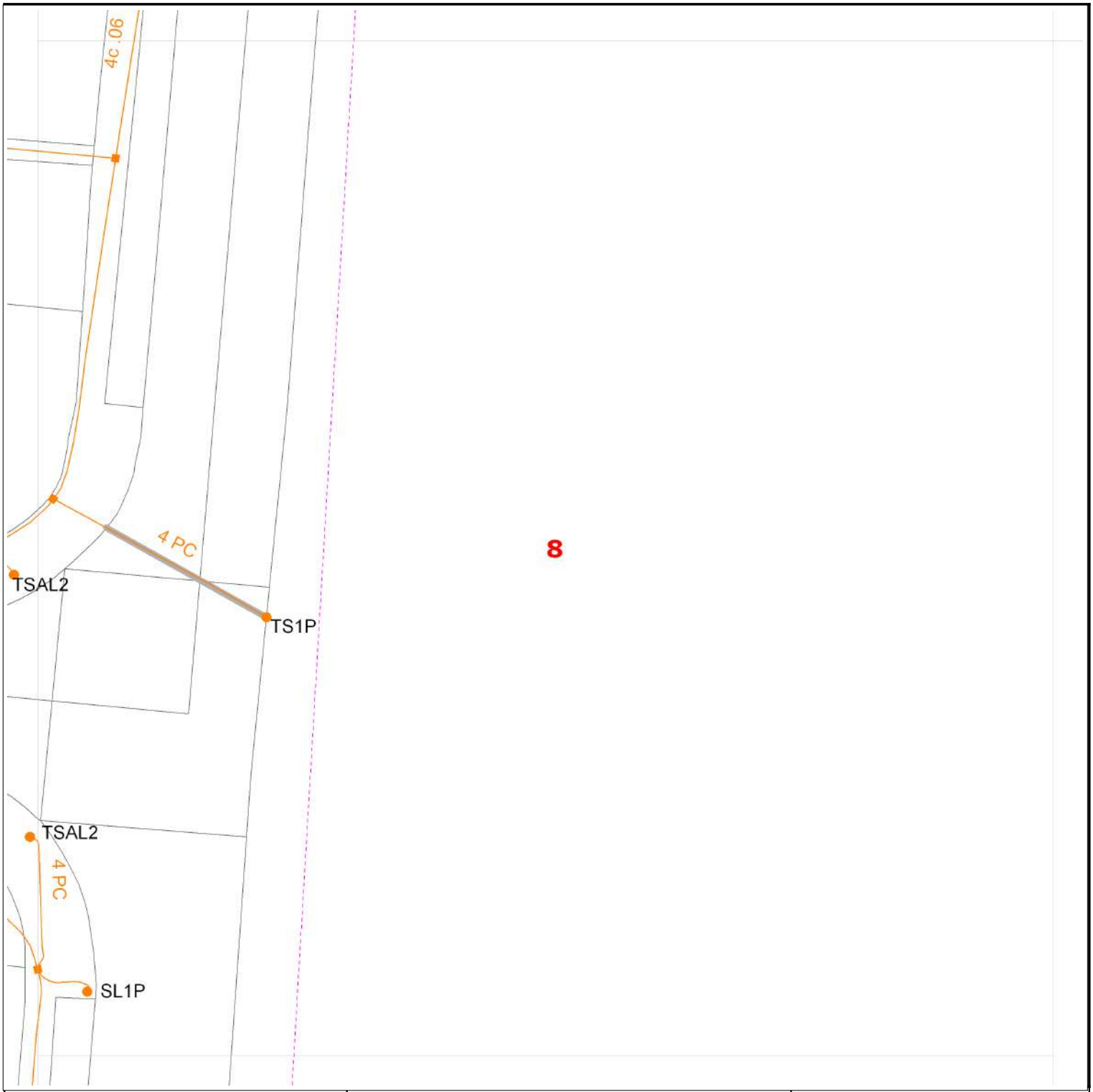
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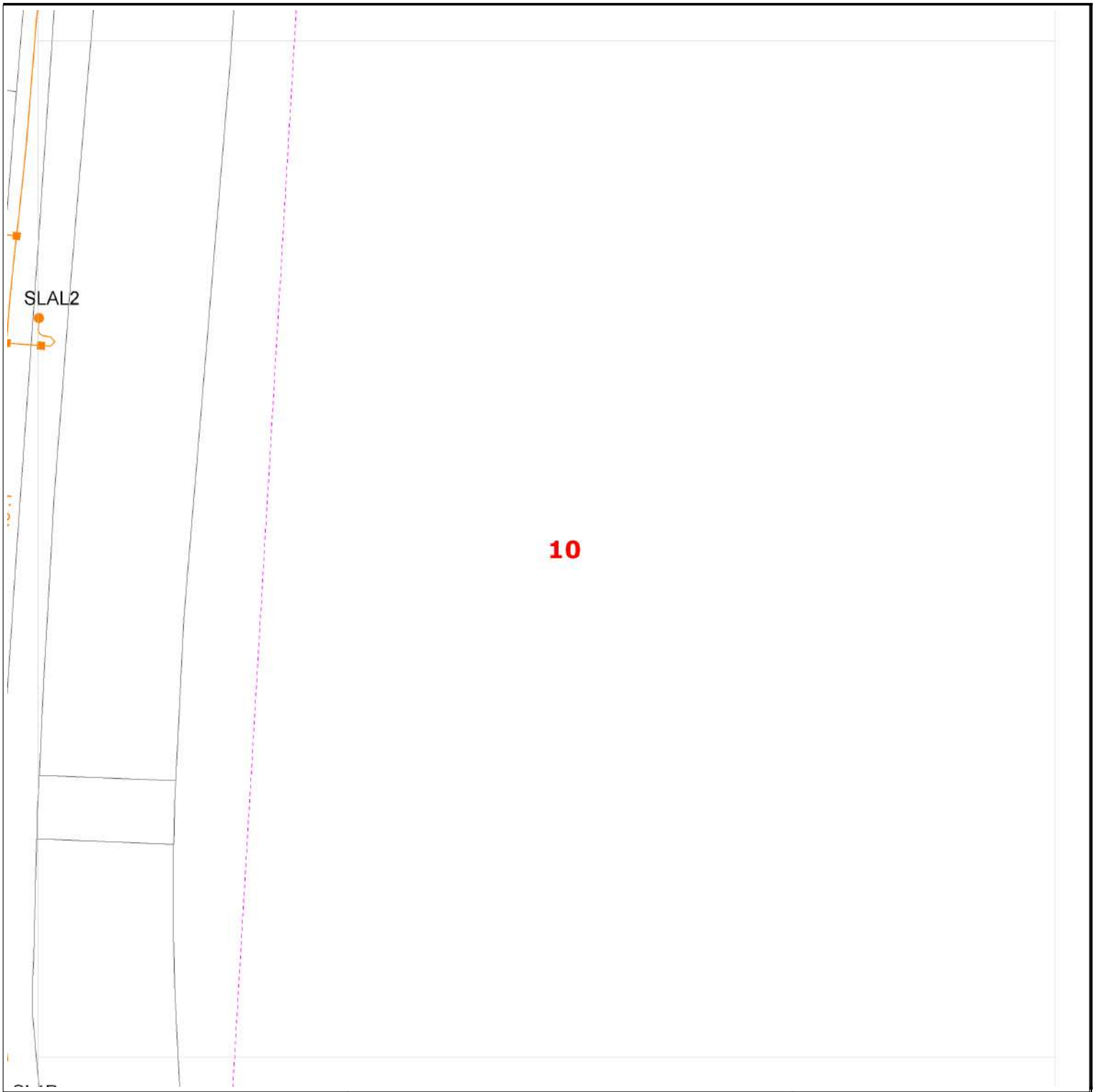
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Date Requested: 11/05/2023
Job Reference: 29455640
Your Scheme/Reference: STV6052

Dig Sites:

Area Line

Operating Voltage	Colour Code	Line Colour
132kV	Black	
33kV	Green	
22kV-25kV	Yellow	
11kV	Red	
6kV-6.6kV	Blue	
1kV-6kV	Violet	
LV	Orange	
Unknown Voltage	Brown	

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Manchester, M1 4LF
Phone: 0800 195 4141
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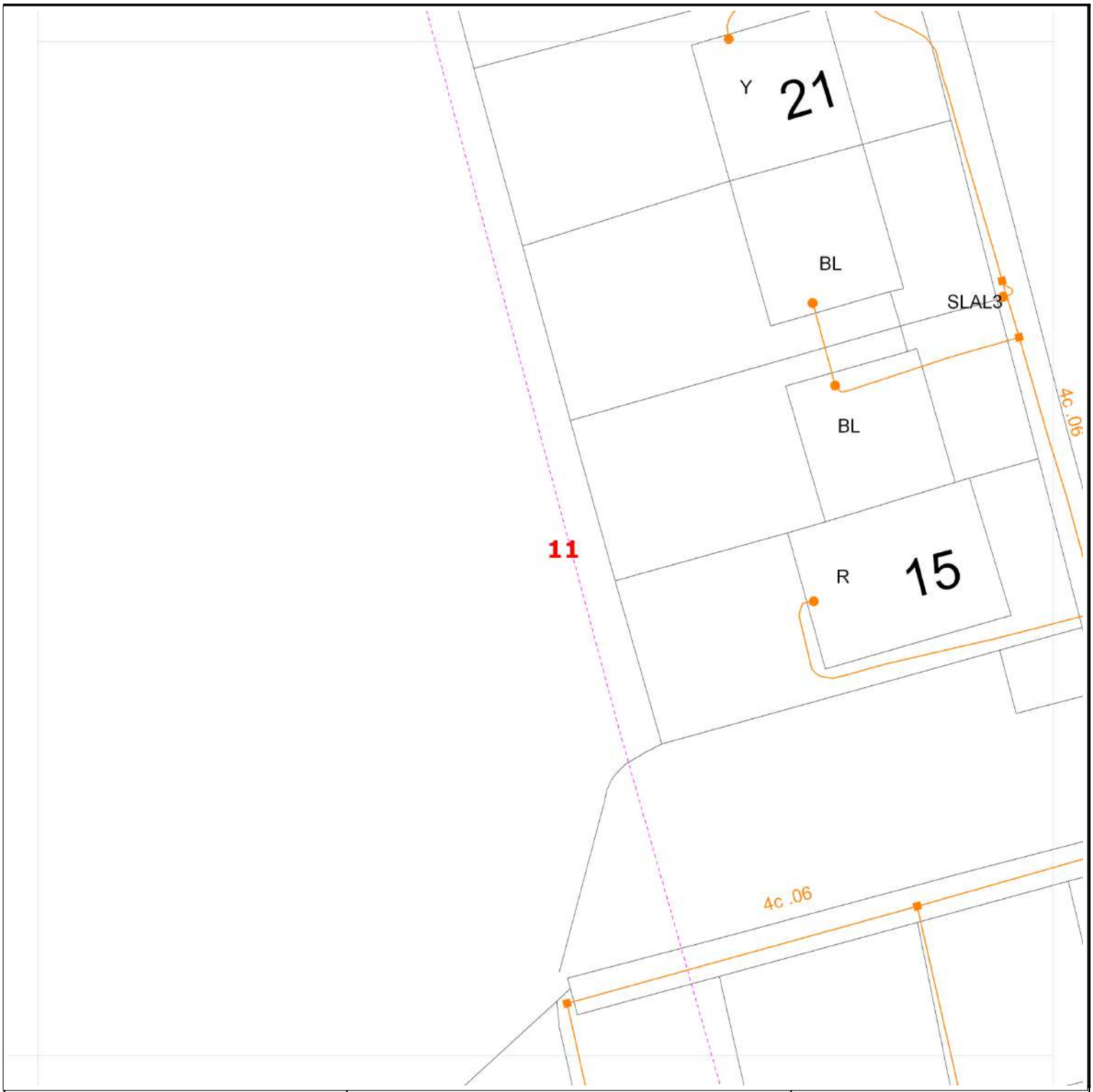
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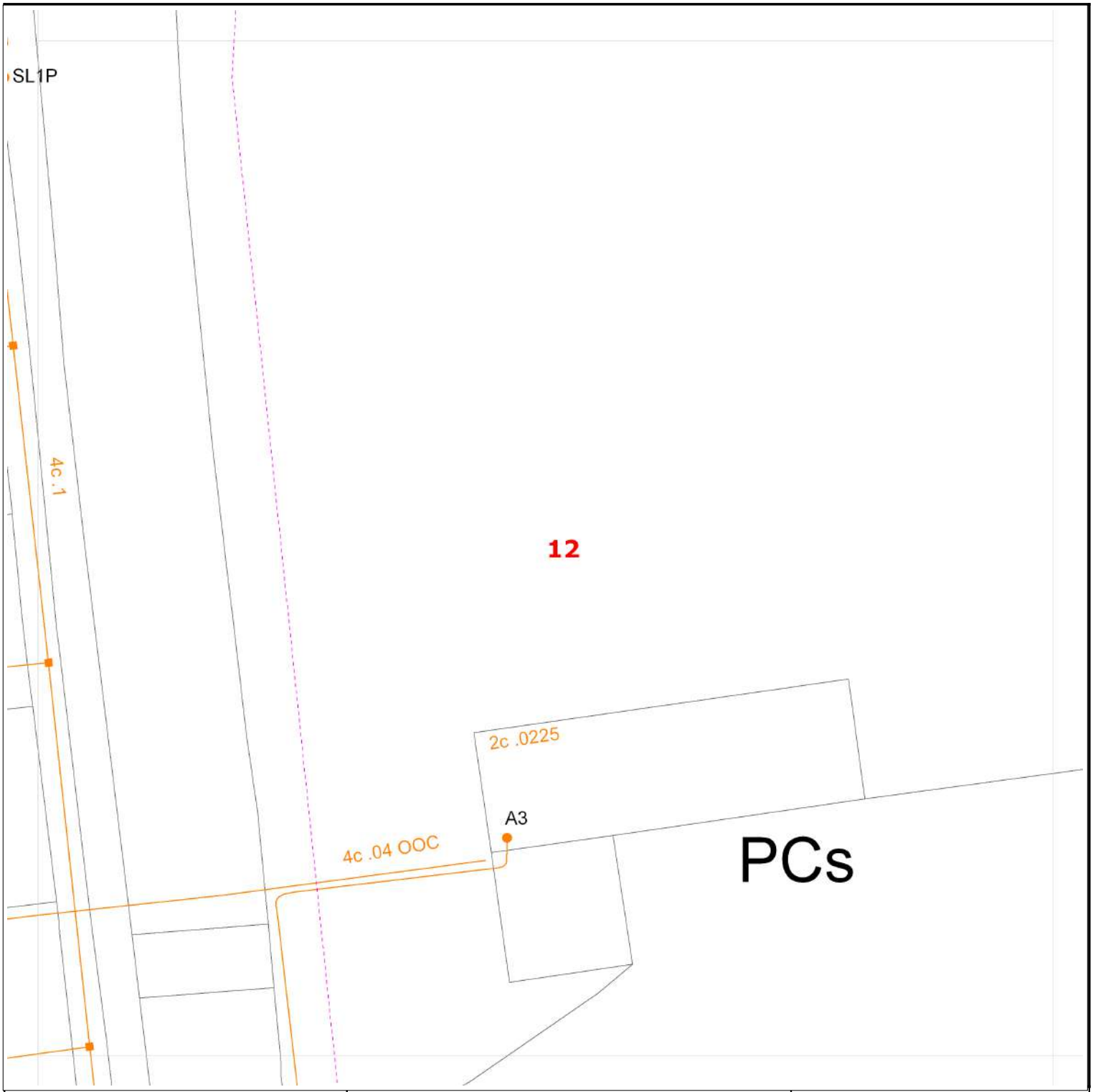
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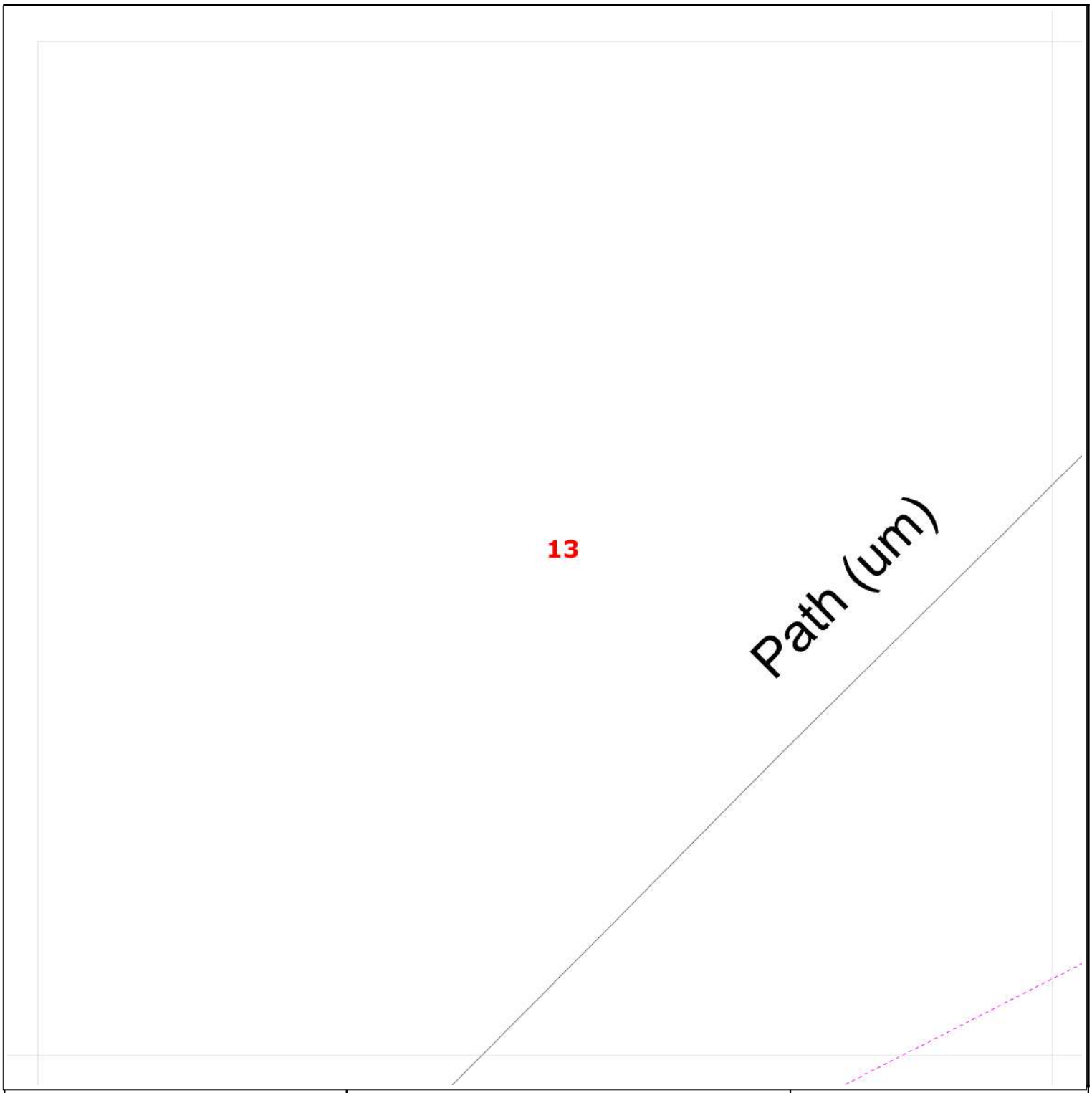
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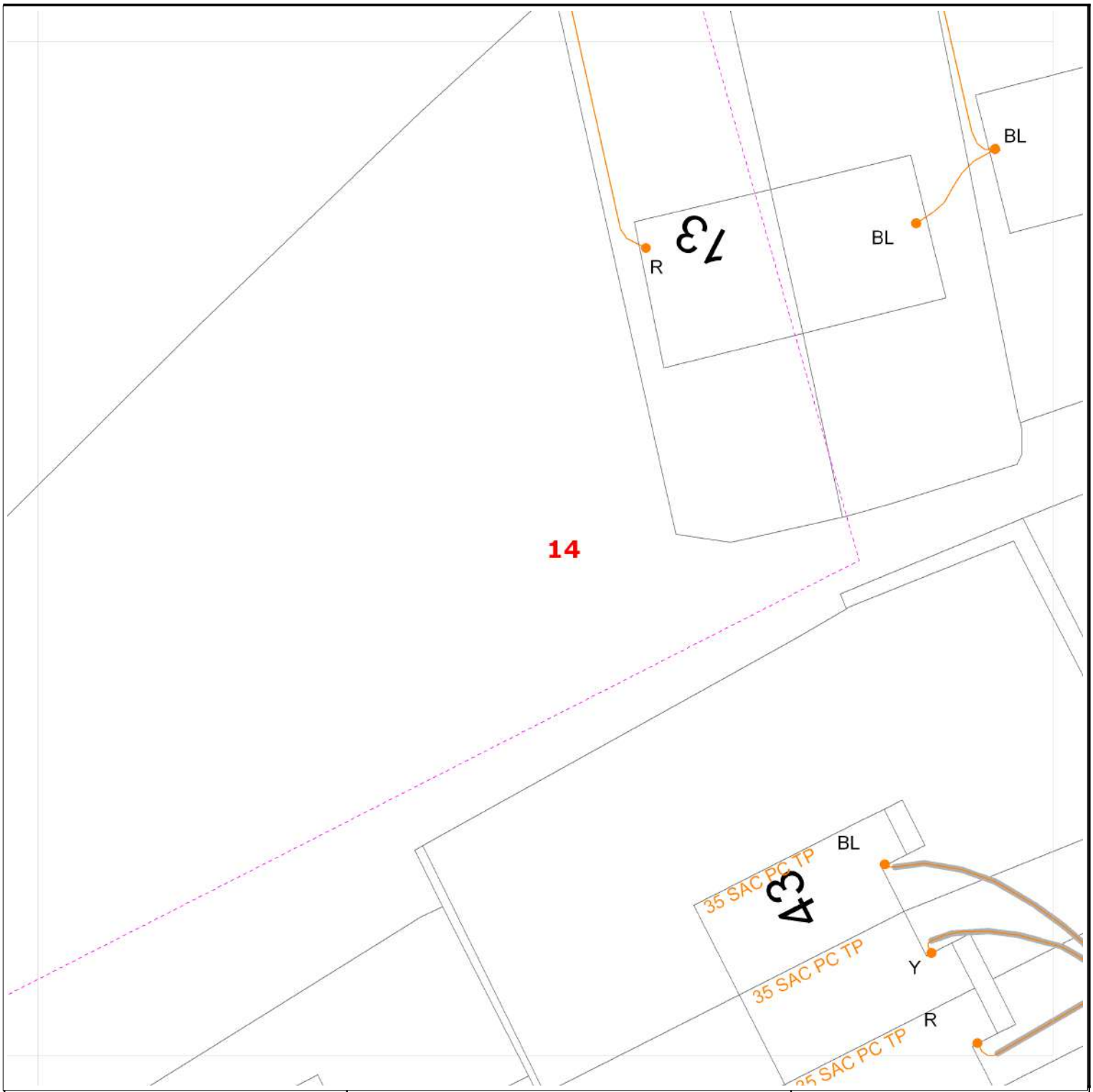
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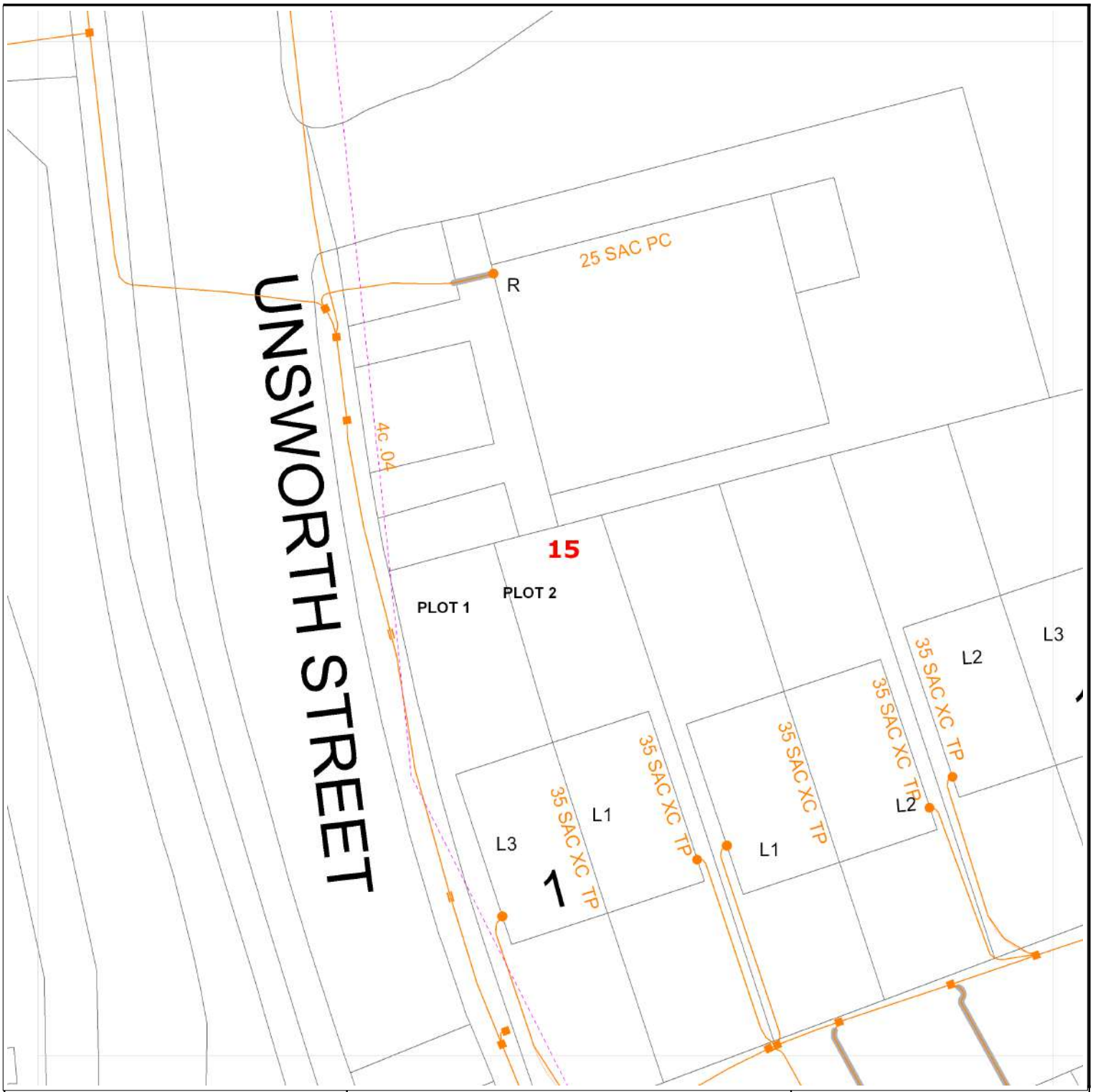
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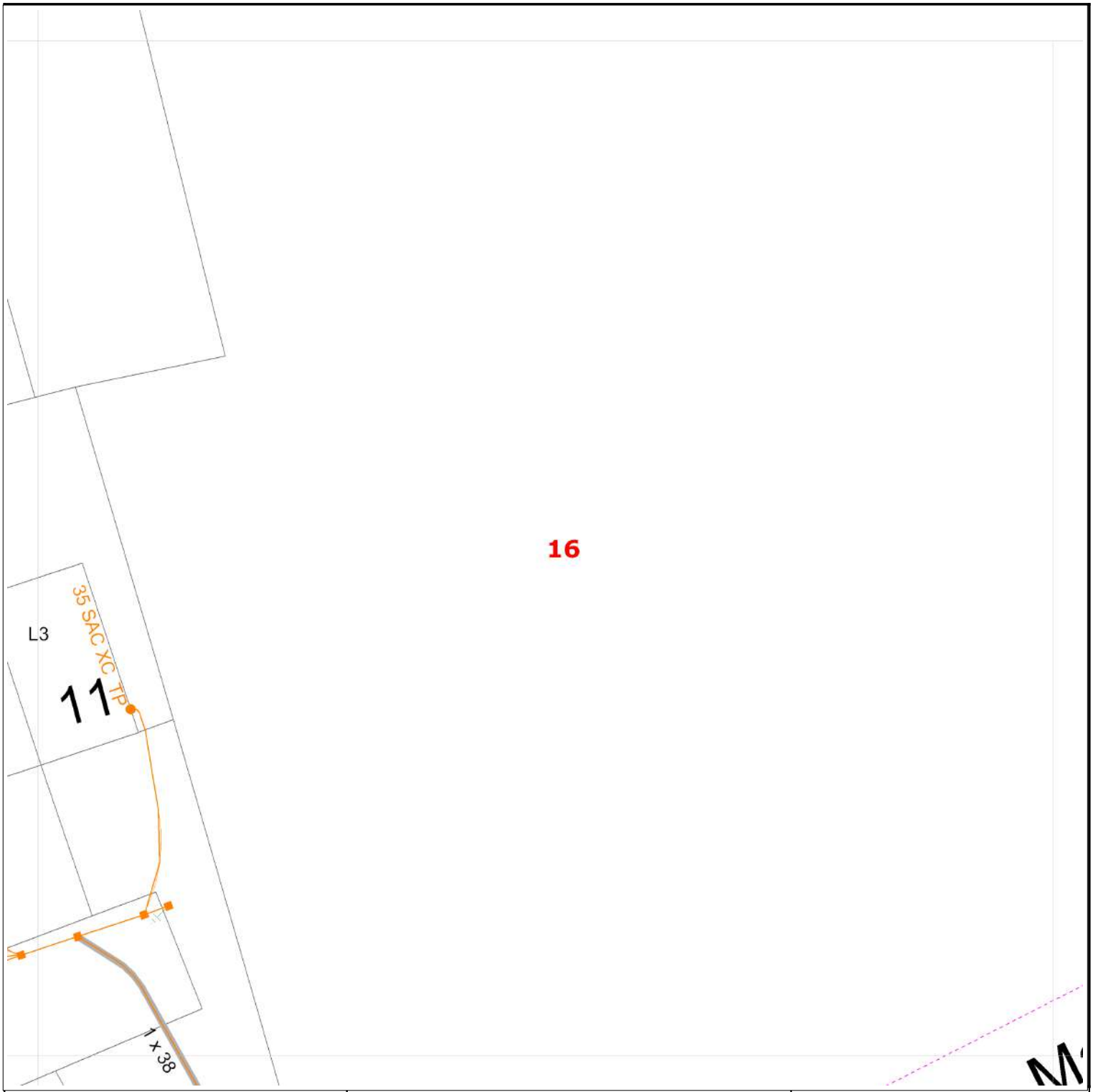
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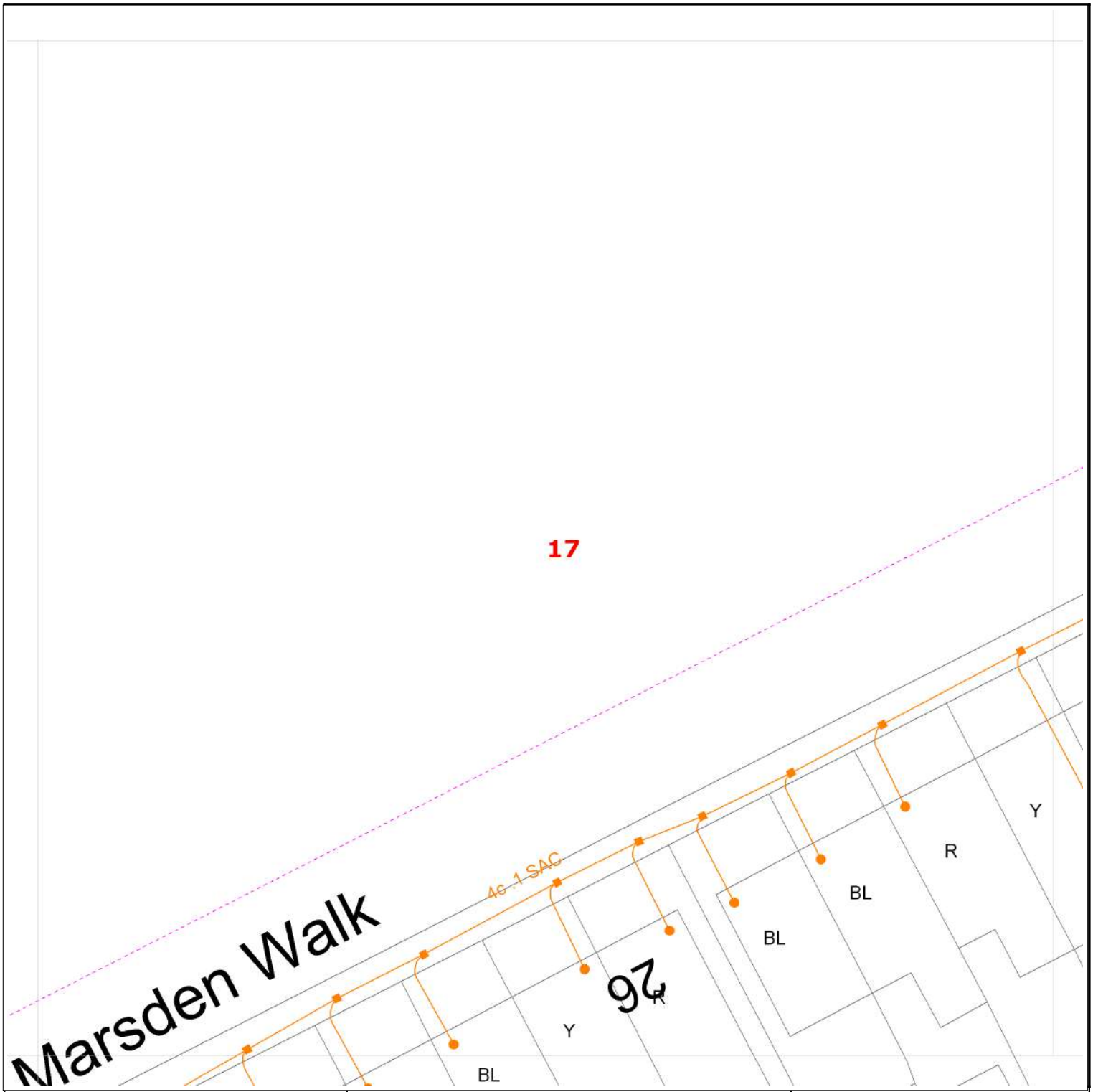
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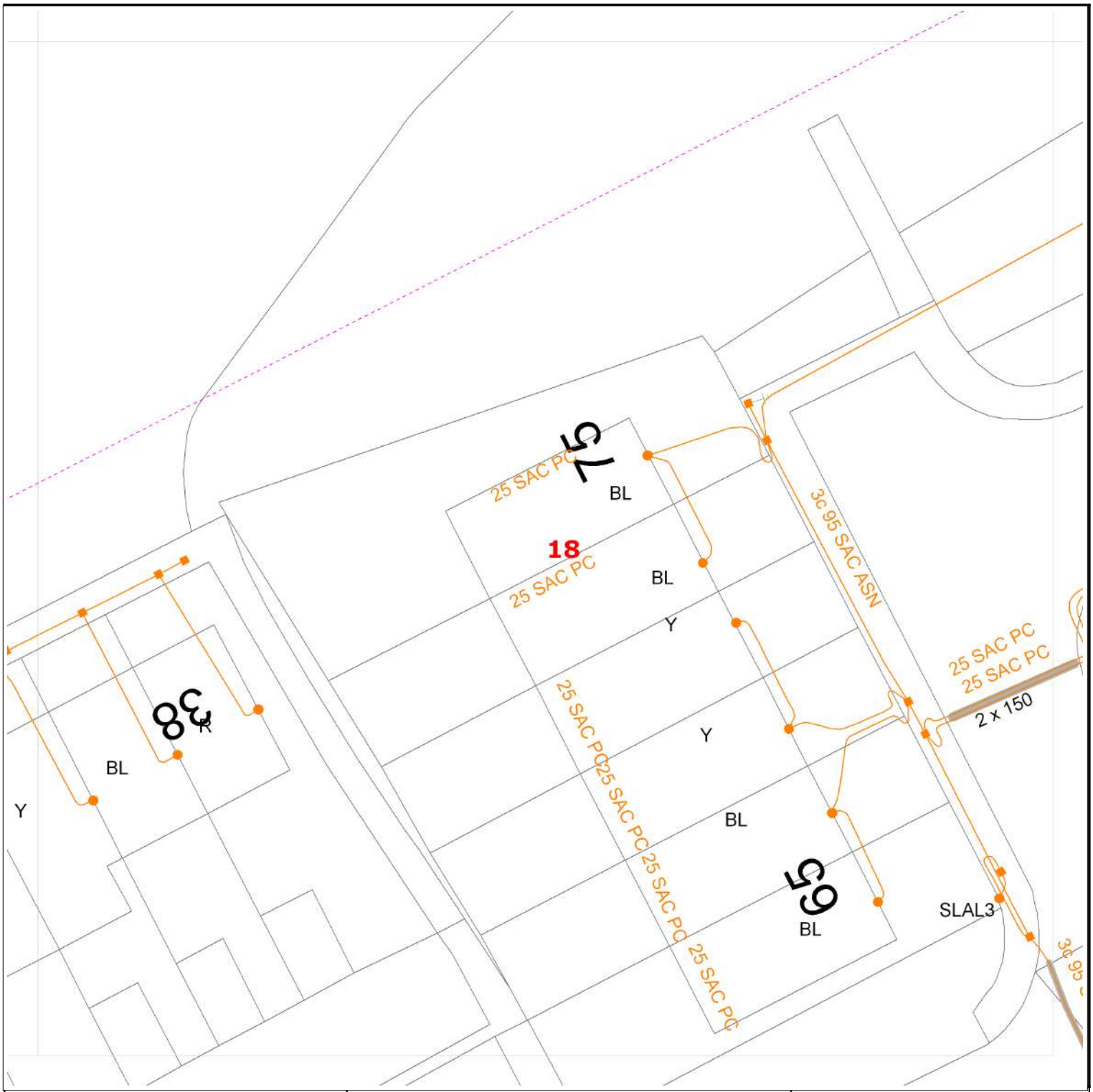
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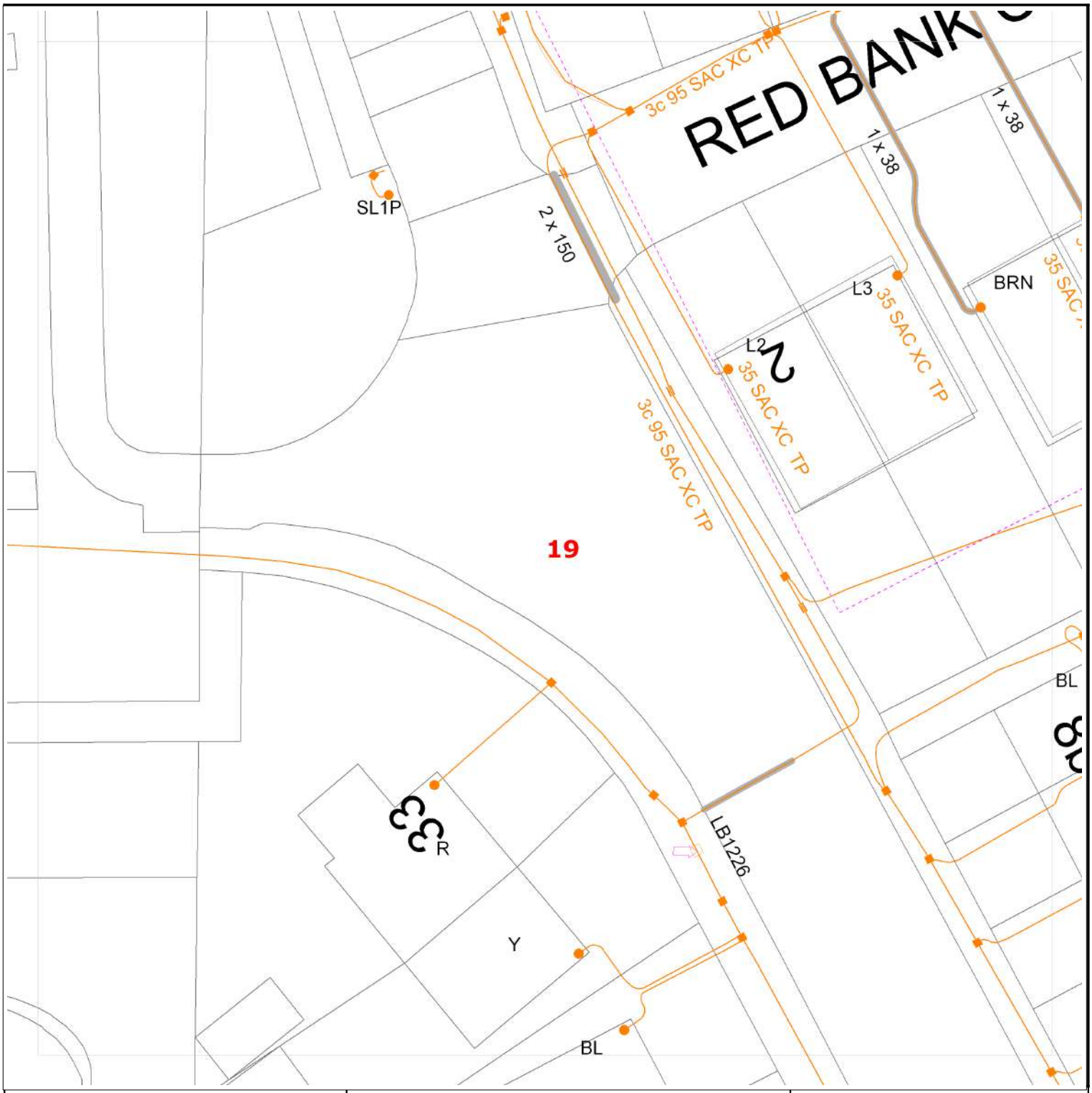
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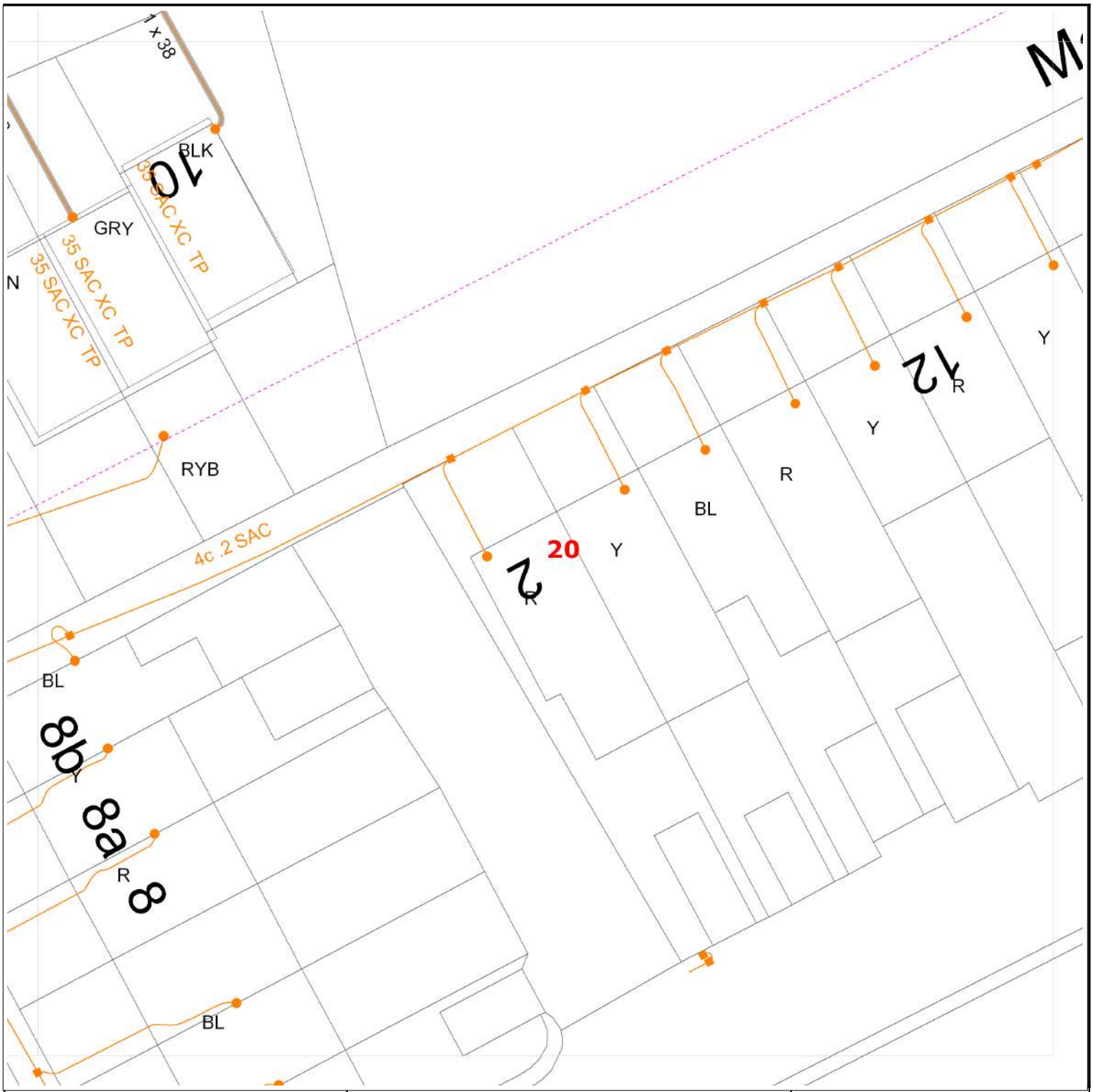
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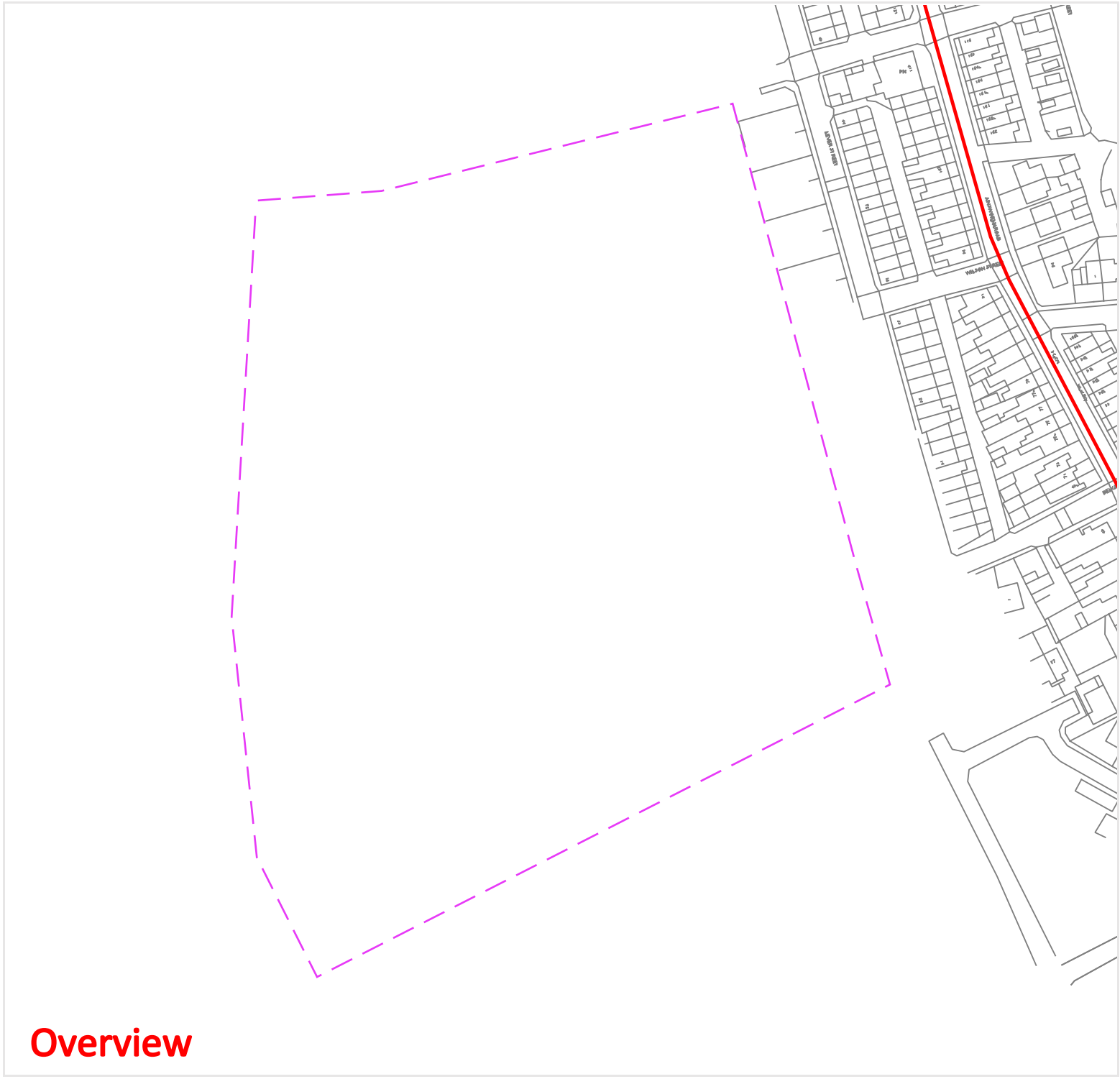
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1:1250 Area dig site
1:250 Line dig site

Unless otherwise indicated the depth of Electricity North West Limited cables are in accordance with NJUG (450mm for Low Voltage & 600mm for 11kV cables) 33kV and 132kV cables are laid at depths as marked. The depth and positions of Electricity North West Limited equipment was accurate as shown when the equipment was installed. However third parties may have altered the level & other reference data. Therefore Electricity North West Limited accept no responsibility for the position of Electricity North West Limited equipment being different from shown. No person, body or company, shall be relieved from liability for damage caused to Electricity North West Limited equipment by reason of being located differently to the indications on this drawing or from any regulatory loss of income or incentive, or expense, which may be suffered by Electricity North West Limited and which is caused or contributed to by any loss of supply as a result of any damage caused to Electricity North West Limited's equipment. Service cables are not necessarily shown but must be assumed to exist to all premises, streetlights and signs. There may be other Electricity North West Limited apparatus in the vicinity which is not indicated on the cable records. Other apparatus may also be present which is owned by a third party other than Electricity North West Limited.

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Reference should be made to HSE Guidance, HS(G)47 "Avoiding Danger from Underground Services" and GS6 "Avoidance of Danger from Overhead Power Lines".

Electricity North West Limited 304 Bridgewater Place, Birchwood Park, Warrington WA3 6XG. Registered in England and Wales. Registered No 02366949



Overview

Zayo Group UK Ltd
4th Floor Harmsworth House
13-15 Bouverie Street
London, EC4Y 8DP

JSM Group Ltd
Sterling House
Mutton Lane, Potters Bar
Hertfordshre, EN6 3AR
T: 01992 655 919
zayoplantenquiries@jsmgroup.com

Legend

- Zayo Duct
- Enquiry area

Date requested:	11 May 2023
Requested by:	Miss Lauren Wenham
Company:	Soiltechnics Ltd
Job reference:	29455640
Your reference:	STV6052

Scale on A4 paper: 1:1906

Warning: PDF designed for colour print only with no page scaling. This Information is given as a guide only and its accuracy cannot be guaranteed.

N

The information on this document is proprietary and shall not be used, copied, reporduced or disclosed in whole or in part without written consent of Zayo Group UK Ltd. Approximate location only is shown. To determine exact location a trial hole must be dug with a Zayo Group UK Ltd Supervisor present. Zayo Group UK Ltd accept no liability for any errors or omissions.

Linesearch before U dig

Protecting Lives, Cables & Pipes

In Emergency Only and if Zayo Plant or Cables damaged call: 0800 169 1646

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Enquiry Confirmation

LSBUD Ref: 29455640

Date of enquiry: 11/05/2023
Time of enquiry: 16:04

Enquirer

Name	Miss Lauren Wenham	Phone	01604 781877
Company	Soiltechnics Ltd	Mobile	Not Supplied
Address	Cedar Barn Walgrave Northamptonshire NN6 9PY		
Email	admin@soiltechnics.net		

Enquiry Details

Enquiry type	Planned Works
Work category	Development Projects
Work type	Commercial/industrial
Work type buffer*	75 metres
Start date	15/05/2023
End date	15/05/2023
Scheme/Reference	STV6052
Search location	M26 4PB
Confirmed location	377693 407829
Site size	0 metres square
Site Contact Name	Not Supplied
Site Phone No.	Not Supplied
Description of Works	

* The WORK TYPE BUFFER is a distance added to your search area based on the Work type you have chosen.

Site Map



Please note that the above map only displays the location of the proposed work site and will not display any of the Members' pipes and cables. It is imperative that this area accurately reflects the proposed work site.

Affected LSBUD members

(LSBUD Members who have assets registered on LSBUD within the vicinity of your search area.)

Asset Owner	Phone/Email	Emergency Only	Status
Cadent Gas	0800688588	0800111999	Await response
Electricity North West Limited	08001954141	08001954141	Await response
ESP Utilities Group	01372227560	01372227560	Await response
Last Mile	plantenquiries@lastmile-uk.com	0800111999	Await response
Neos Networks	03453053337	03453053337	Await response
Zayo Group UK Ltd c/o JSM Group Ltd	01992 655 919	0800 169 1646	Await response

Status explanation

Await Response means that the asset owner will contact you. This is typically by sending the plan response but they may ask for further information before being able to do so, particularly if any payments or authorisations are required.

Email Additional Info means that the asset owner needs further information about your works to assess your enquiry before providing a response. Please provide any details you have available including plans, method statements etc. if available.

Enquiry Confirmation
LSBUD Ref: 29455640

Date of enquiry: 11/05/2023
Time of enquiry: 16:04

Important notices

It is very important that you correctly understand what the service does and the procedures in order for you to work safely. Please refer to the LSBUD Support Page (www.lsbud.co.uk/linesearchbeforeudig-support) for further guidance.
This information includes how to provide additional information to the LSBUD Members who request it to provide a response to your enquiry.
Validity and search criteria. The results of this enquiry are based on the confirmed information you entered and are valid only as at the date and time of the enquiry. It is your responsibility to ensure that the Enquiry Details are correct, and LinesearchbeforeUdig (LSBUD) accepts no responsibility for any errors or omissions in the Enquiry Details or any consequences thereof. LSBUD Members update their asset information on a regular basis so you are advised to consider this when undertaking any works. It is your responsibility to choose the period of time after which you need to resubmit any enquiry but the maximum time (after which your enquiry will no longer be dealt with by the LSBUD Helpdesk and LSBUD Members) is 28 days. If any details of the enquiry change, particularly including, but not limited to, the location of the work, then a further enquiry must be made.
Terms and Conditions. Please note that this enquiry is subject always to our standard terms and conditions available at www.lsbud.co.uk ("Terms of Use") and the disclaimer at the end of this document. Please note that in the event of any conflict or ambiguity between the terms of this Enquiry Confirmation and the Terms of Use, the Terms of Use shall take precedence.

List of not affected LSBUD members
(LSBUD Members who do not have assets registered on the LSBUD service within the vicinity of your search area.)

Angus Energy	AWE Pipeline	B & D Energy Limited
Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)	Box Broadband
BP Exploration Operating Company Limited	BPA	Cambridgeshire County Council Climate Change and Energy Services
Carrington Gas Pipeline	CATS Pipeline c/o Wood Group PSN	Cemex
Centrica Storage Ltd	CNG Services Ltd	Concept Solutions People Ltd
ConocoPhillips (UK) Teesside Operator Ltd	D.S.Smith	Diamond Transmission Corporation
DIO (MOD Abandoned Pipelines)	DIO (MOD Live Pipelines)	E.ON UK CHP Limited
EDF Energy Renewables Ltd	EirGrid	Eleclink Limited
Energy Assets Networks	ENI & Himor c/o Penspen Ltd	EnQuest NNS Limited
EP Langage Limited	ESSAR	Esso Petroleum Company Limited
euNetworks Fiber UK Ltd	EXA Infrastructure	Exolum Pipeline System
Fulcrum Electricity Assets Limited	Fulcrum Pipelines Limited	Gamma
Gas Networks Ireland (UK)	Gateshead Energy Company	Gigaclear Ltd
Harbour Energy	Heathrow Airport LTD	Humbly Grove Energy
IGas Energy	INEOS FPS Pipelines	INEOS Manufacturing (Scotland and TSEP)
INOVYN ChlorVinyls Limited	INOVYN Enterprises Limited	Intergen (Coryton Energy or Spalding Energy)
Jurassic Fibre Ltd	Mainline Pipelines Limited	Manchester Jetline Limited
Manx Cable Company	Marchwood Power Ltd (Gas Pipeline)	Melbourn Solar Limited
Moray East Offshore Windfarm	MUA Group Limited	National Gas Transmission
National Grid Electricity Distribution	National Grid Electricity Transmission	Northern Gas Networks Limited
Northumbrian Water Group	NPower CHP Pipelines	NTT Global Data Centers EMEA UK Ltd
NYnet Ltd	Ogi	Oikos Storage Limited
Ørsted	Palm Paper Ltd	Perenco UK Limited (Purbeck Southampton Pipeline)
Petroineos	Phillips 66	Portsmouth Water
Premier Transmission Ltd (SNIP)	Redundant Pipelines - LPDA	RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)
RWEnpower (Little Barford and South Haven)	SABIC UK Petrochemicals	SAS Utility Services Ltd
Scottish and Southern Electricity Networks	Scottish Power Generation	Seabank Power Ltd
SES Water	SGN	Shell
Shell NOP	SP Energy Networks	Squire Energy Networks
SSE Generation Ltd	SSE Transmission	SSE Utility Solutions Limited
Storengy	Tata Communications (c/o JSM Construction Ltd)	Total Colnbrook Pipelines
Total Finaline Pipelines	Transmission Capital	UK Power Networks

Enquiry Confirmation
LSBUD Ref: 29455640

Date of enquiry: 11/05/2023
Time of enquiry: 16:04

Uniper UK Ltd	University of Cambridge Granta Backbone Network	Vattenfall
Veolia ES SELCHP Limited	Veolia ES Sheffield Ltd	Voneus Limited
VPI Power Limited	Wales and West Utilities	West of Duddon Sands Transmission Ltd
Westminster City Council		

Non-LSBUD members (Asset owners not registered on LSBUD)
(The following Non-LSBUD Members may have assets in your search area. It is YOUR RESPONSIBILITY to contact them before proceeding.
Please be aware this list is not exhaustive and it is your responsibility to identify and contact all asset owners within your search area.)

Asset Owner	Preferred contact method	Phone	Status
BT	https://www.swns.bt.com/pls/mbe/welcome.home	08000232023	Not Notified
CityFibre	asset.team@cityfibre.com	033 3150 7282	Not Notified
Colt	plantenquiries@catelecomuk.com	01227768427	Not Notified
Equans	nrswa.uk@equans.com	0800 130 3600	Not Notified
GTC	https://pe.gtc-uk.co.uk/PlantEnqMembership	01359240363	Not Notified
Lumen Technologies	plantenquiries@instalcom.co.uk	02087314613	Not Notified
Mobile Broadband Network Limited	mbnl.plant.enquiries@turntown.com	01212 621 100	Not Notified
Sky UK Limited	nrswa@sky.uk	02070323234	Not Notified
Sota	SOTA.plantenquiries@instalcom.co.uk		Not Notified
United Utilities	WastewaterDeveloperServices@uuplc.co.uk	08707510101	Not Notified
Utility assets Ltd	assetrecords@utilityassets.co.uk		Not Notified
Verizon Business	osp-team@uk.verizonbusiness.com	01293611736	Not Notified
Virgin Media	http://www.digdat.co.uk	08708883116	Not Notified
Vodafone	osm.enquiries@atkinsglobal.com	01454662881	Not Notified

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Appendix H Envirocheck Report

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
312867682_1_1

Customer Reference:
STV6052

National Grid Reference:
377740, 407720

Slice:
A

Site Area (Ha):
4.89

Search Buffer (m):
1000

Site Details:

Redbank Playing Fields
Radcliffe
MANCHESTER
M26 4PB

Client Details:

Ms S Ltd
Soiltechnics Limited
Cedar Barn
White Lodge
Walgrave
Northampton
NN6 9PY

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Contents

Report Section	Page Number
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Hazardous Substances	-
Geological	37
Industrial Land Use	47
Sensitive Land Use	75
Data Currency	76
Data Suppliers	82
Useful Contacts	83

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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Summary

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		1		12
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	pg 5			1	6
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 6		Yes		
Pollution Incidents to Controlled Waters	pg 6		2	2	14
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 9				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 9			4	2
Water Abstractions	pg 10			2	2 (*28)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 18	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 18	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 18	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 18			3	38

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites	pg 24		1		
Historical Landfill Sites	pg 24	1	1	3	6
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 26			4	1
Local Authority Landfill Coverage	pg 27	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 27		1	8	15
Potentially Infilled Land (Water)	pg 28		4	15	43
Registered Landfill Sites	pg 32				5
Registered Waste Transfer Sites	pg 34			1	1
Registered Waste Treatment or Disposal Sites	pg 35			2	
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					

Summary

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 37	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 37	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 45			1	3
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 46	Yes	n/a	n/a	n/a
Mining Instability	pg 46	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 46	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 46	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 46	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 46	Yes		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 47		26	36	117
Fuel Station Entries	pg 62				2
Points of Interest - Commercial Services	pg 63		5	10	33
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 67		11	19	41
Points of Interest - Public Infrastructure	pg 73			1	12
Points of Interest - Recreational and Environmental	pg 74			5	5
Gas Pipelines					
Underground Electrical Cables					

Summary

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 75		1		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					
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: Potential for Groundwater Flooding to Occur at Surface	A13NW (N)	0	1	377744 407716
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	0	1	377700 407700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	30	1	377850 407850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	57	1	377600 407850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	74	1	377650 407900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	97	1	377550 407600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	181	1	377450 407600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	188	1	378000 407900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	190	1	377450 407650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	238	1	377400 407700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	250	1	377400 407850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	251	1	378050 407950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	268	1	377450 408000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	292	1	377350 407750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	312	1	378050 407400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (SW)	315	1	377350 407500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	326	1	377350 407950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	349	1	377900 408200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A19SW (NE)	371	1	378100 408100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	396	1	378050 407300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SW)	412	1	377500 407200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A19SW (NE)	476	1	378150 408200

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 (NW)	484	1	377200 408000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	497	1	378050 408300
1	**Discharge Consents** Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Ainsworth Rd, Radcliffe, Bury, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01bry0028 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 25th October 1995 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Brook Culvert **Status:** **Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	246	2	378050 407490
2	**Discharge Consents** Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Bolton Rd Canute Street Cso 270 Bolton Rd Junc Canute Street, ., Radcliffe, Manchester, M26 3gw Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01BRY0027 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 30th September 2011 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Irwell **Status:** **Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A8SE (S)	764	2	377920 406830
2	**Discharge Consents** Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Bolton Rd Canute Street Cso 270 Bolton Rd Junc Canute Street, ., Radcliffe, Manchester, M26 3gw Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01bry0027 Permit Version: 4 Effective Date: 1st April 2018 Issued Date: 12th March 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Irwell **Status:** **Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A8SE (S)	767	2	377923 406828
2	**Discharge Consents** Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Bolton Rd Canute Street Cso 270 Bolton Rd Junc Canute Street, ., Radcliffe, Manchester, M26 3gw Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: Npswqd010704 Permit Version: 1 Effective Date: 1st April 2018 Issued Date: 12th March 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Irwell **Status:** **Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A8SE (S)	767	2	377923 406828

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Discharge Consents** Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Bolton Rd Canute Street Cso 270 Bolton Rd Junc Canute Street, ., Radcliffe, Manchester, M26 3gw Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01bry0027 Permit Version: 3 Effective Date: 1st October 2012 Issued Date: 21st August 2012 Revocation Date: 31st March 2018 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Irwell **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A8SE (S)	767	2	377923 406828
2	**Discharge Consents** Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Bolton Rd Canute Street Cso 270 Bolton Rd Junc Canute Street, ., Radcliffe, Manchester, M26 3gw Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01bry0027 Permit Version: 2 Effective Date: 1st October 2011 Issued Date: 25th March 2010 Revocation Date: 30th September 2012 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Irwell **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8SE (S)	767	2	377923 406828
2	**Discharge Consents** Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Sion Street Cso 09026 Opp Mason Arms Ph Sion Street, ., Radcliffe, Manchester, M26 3sb Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01bry0032 Permit Version: 2 Effective Date: 11th April 2018 Issued Date: 11th April 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Irwell **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A8SE (S)	782	2	377944 406819
2	**Discharge Consents** Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Sion Street Cso 09026 Opp Mason Arms Ph Sion Street, ., Radcliffe, Manchester, M26 3sb Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01BRY0032 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 10th April 2018 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Irwell **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A8SE (S)	783	2	377950 406820

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: St Andrews Rd Brooks Av Cso 09001 Junc St Andrews Rd Brooks Av, ., Radcliffe, Manchester, M26 4hu Authority: Environment Agency, North West Region Catchment Area: Irwell Reference: 016993585 Permit Version: 2 Effective Date: 1st April 2018 Issued Date: 26th March 2018 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Black Lane Brook **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A18NE (N)	840	2	377860 408700
3	**Discharge Consents** Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: St Andrews Rd Brooks Av Cso 09001 Junc St Andrews Rd Brooks Av, ., Radcliffe, Manchester, M26 4hu Authority: Environment Agency, North West Region Catchment Area: Irwell Reference: 016993585 Permit Version: 1 Effective Date: 31st May 2006 Issued Date: 31st May 2006 Revocation Date: 31st March 2018 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Black Lane Brook **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A18NE (N)	840	2	377860 408700
3	**Discharge Consents** Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: St Andrews Rd Brooks Av Cso 09001 Junc St Andrews Rd Brooks Av, ., Radcliffe, Manchester, M26 4hu Authority: Environment Agency, North West Region Catchment Area: Irwell Reference: 01BRY0025 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: 1st January 1995 Revocation Date: 30th May 2006 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Black Lane Brook **Status: Consent revoked or revised: New Consent issued (Section 37(1))** Positional Accuracy: Located by supplier to within 100m	A18NE (N)	850	2	377860 408710
4	**Discharge Consents** Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Radcliffe Central Cso River Court, 2 Blackburn Street, Radcliffe, Manchester, M26 1ww Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016982932 Permit Version: 5 Effective Date: 6th August 2018 Issued Date: 6th August 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Irwell **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	982	2	378664 407082

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Discharge Consents** Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Radcliffe Central Cso River Court, 2 Blackburn Street, Radcliffe, Manchester, M26 1ww Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016982932 Permit Version: 4 Effective Date: 1st April 2015 Issued Date: 27th November 2014 Revocation Date: 5th August 2018 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Irwell **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	982	2	378664 407082
5	**Local Authority Pollution Prevention and Controls** Name: F.A.M. Engineering Location: Holly Bank Mills, Bolton Street, Radcliffe, BURY, Lancashire, M26 3SY Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: Lappc03-08 Dated: 1st November 2000 Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status: Authorised** Positional Accuracy: Located by supplier to within 100m	A8NE (S)	375	3	377800 407200
6	**Local Authority Pollution Prevention and Controls** Name: Strebor Diecasting Location: School Street, Radcliffe, MANCHESTER, Lancashire, M26 3AR Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: 3 Dated: 1st August 1992 Process Type: Local Authority Air Pollution Control Description: PG2/4 Iron, steel and non-ferrous metal foundry processes **Status: Authorisation revoked** Positional Accuracy: Manually positioned to the road within the address or location	A8NE (S)	555	3	377949 407066
7	**Local Authority Pollution Prevention and Controls** Name: East Lancs Crematorium Location: Radcliffe Cemetery, Cemetery Road, Radcliffe, M26 0eu Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: LAPPC06-17 Dated: 1st May 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG5/2 Crematoria **Status: Authorised** Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	608	3	378257 408279
8	**Local Authority Pollution Prevention and Controls** Name: Radcliffe Auto Centre Location: Unit 9, Spring Lane, Radcliffe, M26 2ta Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: LAPPC04-15 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status: Authorisation revoked** Positional Accuracy: Manually positioned to the address or location	A14SE (E)	793	3	378620 407415
9	**Local Authority Pollution Prevention and Controls** Name: Asda Radcliffe Pfs Location: Pilkington Way, Radcliffe, BURY, Lancashire, M26 3DA Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: LAPPC05-19 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Authorised** Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	887	3	378267 406859
10	**Local Authority Pollution Prevention and Controls** Name: Johnsons The Cleaners Location: 24 Blackburn Street, Radcliffe, M26 9nq Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: LAPPC0610 Dated: 1st December 2006 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status: Authorisation revoked** Positional Accuracy: Manually positioned to the address or location	A9SE (SE)	912	3	378535 407033

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Local Authority Pollution Prevention and Controls** Name: K.C Motors Location: Back Barlow Street, Radcliffe, M26 2su Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: LAPPC06-03 Dated: 1st October 2006 Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status:** **Permitted** Positional Accuracy: Manually positioned to the road within the address or location	A9NE (E)	950	3	378754 407321
	Nearest Surface Water Feature	A13NW (NW)	192	-	377476 407904
12	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Natural Note: Bury Bolton Canal Incident Date: 27th July 1995 Incident Reference: 95621889 Catchment Area: Manchester; Bolton; Bury Canal Receiving Water: Not Given Cause of Incident: Algal Bloom Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (E)	139	2	378000 407695
12	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Natural Note: Bury Bolton Canal Incident Date: 24th July 1995 Incident Reference: 95621844 Catchment Area: Manchester; Bolton; Bury Canal Receiving Water: Not Given Cause of Incident: Algal Bloom Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (E)	139	2	378000 407700
13	**Pollution Incidents to Controlled Waters** Property Type: Garage Premises Location: Bolton Street , RADCLIFFE Authority: Environment Agency, North West Region Pollutant: Rubbish Note: Bury Bolton Canal; Rubbish Incident Date: 6th May 1997 Incident Reference: 97620800 Catchment Area: Manchester; Bolton; Bury Canal Receiving Water: Freshwater Stream/River Cause of Incident: Poor Operational Practice Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NE (S)	280	2	377800 407300
14	**Pollution Incidents to Controlled Waters** Property Type: No Premises Identified Location: Water Street, Greater Manchester Authority: Environment Agency, North West Region Pollutant: No Pollutant Note: Not Supplied Incident Date: 15th September 1999 Incident Reference: 32472 Catchment Area: Bolton Bury Canal (Lever) Receiving Water: Canal Cause of Incident: Other Cause Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	469	2	378305 407495
15	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Unknown Note: River Irwell; No Pollution Found Incident Date: 10th June 1995 Incident Reference: 95621384 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	616	2	377100 408100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Unknown Note: River Irwell; None Pollution Found Incident Date: 23rd November 1994 Incident Reference: 94622556 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	647	2	378500 407800
17	**Pollution Incidents to Controlled Waters** Property Type: WSC Sewage, Sewerage & Supply: Northumbrian Water Ltd Location: River Irwell, Mythan Road, Greater Manchester Authority: Environment Agency, North West Region Pollutant: Sewage and Sewerage Material Note: Not Supplied Incident Date: 11th September 1999 Incident Reference: 32372 Catchment Area: Irwell Receiving Water: River Stretch (Freshwater) Cause of Incident: Drainage Failures : Combined Sewer Failure Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	768	2	377800 406800
18	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 1st February 1995 Incident Reference: 95620197 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	780	2	378500 407200
19	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Unknown Note: None Affected; No Pollution Found Incident Date: 6th November 1995 Incident Reference: 95622720 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	807	2	376900 407300
20	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Chemicals - Unknown Note: River Irwell; Contaminatec Ground Incident Date: 1st August 1995 Incident Reference: 95621945 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Land Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	843	2	378400 407000
20	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Unknown Note: No Pollution Found Incident Date: 4th February 1996 Incident Reference: 96620206 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	847	2	378400 406995

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	**Pollution Incidents to Controlled Waters** Property Type: Road Location: 135 Outwood Road, RADCLIFFE Authority: Environment Agency, North West Region Pollutant: Oils - Petrol Note: Small Amount Petrol Entering Drains Incident Date: 16th January 1998 Incident Reference: SO980271 Catchment Area: Irwell Receiving Water: Freshwater Stream/River Cause of Incident: Burst/Leaking Stores Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NE (N)	859	2	378000 408700
22	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Storm Overflow Location: Irwell, Opposite Mason, RADCLIFFE Authority: Environment Agency, North West Region Pollutant: Sewage - Storm Overflow Note: Red Dye Incident Date: 11th October 1998 Incident Reference: SO981868 Catchment Area: Irwell Receiving Water: Freshwater Stream/River Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	861	2	377700 406700
22	**Pollution Incidents to Controlled Waters** Property Type: WSC Sewage, Sewerage & Supply: Northumbrian Water Ltd Location: River Irwell, Past Pub On Mount Sion Road, Greater Manchester Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 15th September 1999 Incident Reference: 32486 Catchment Area: Irwell Receiving Water: River Stretch (Freshwater) Cause of Incident: Other Cause Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A3NW (S)	866	2	377705 406695
22	**Pollution Incidents to Controlled Waters** Property Type: WSC Sewage, Sewerage & Supply: Northumbrian Water Ltd Location: Mount Sion Road, Radcliffe, RADCLIFFE, Greater Manchester Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 17th August 1999 Incident Reference: 31444 Catchment Area: Irwell Receiving Water: River Stretch (Freshwater) Cause of Incident: Drainage Failures : Combined Sewer Failure Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A3NW (S)	866	2	377700 406695
23	**Pollution Incidents to Controlled Waters** Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: River Irwell Incident Date: 10th February 1995 Incident Reference: 95620266 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Miscellaneous/Other Pollution Type Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	867	2	377800 406700
24	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Mount Sion Road, RADCLIFFE Authority: Environment Agency, North West Region Pollutant: Natural Foam Note: Foam; Irwell; Foam Incident Date: 11th June 1997 Incident Reference: 97621047 Catchment Area: Irwell Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A24SW (N)	981	2	378100 408800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	**Pollution Incidents to Controlled Waters** Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: River Irwell; Crude Sewage Incident Date: 21st August 1996 Incident Reference: 96621872 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A3NW (S)	982	2	377500 406600
	River Quality Name: Irwell GQA Grade: River Quality E Reach: Roch To Salford University Estimated Distance (km): 22.9 Flow Rate: Flow less than 20 cumecs Flow Type: River Year: 2000	A8SE (S)	818	2	377900 406768
26	**Substantiated Pollution Incident Register** Authority: Environment Agency - North West Region, South Area Incident Date: 4th July 2009 Incident Reference: 694682 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Pollutant Not Identified: Not Identified	A12NE (NW)	279	2	377389 407920
27	**Substantiated Pollution Incident Register** Authority: Environment Agency - North West Region, South Area Incident Date: 25th June 2001 Incident Reference: 11415 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Contaminated Water: Other Contaminated Water	A12NE (W)	280	2	377370 407849
28	**Substantiated Pollution Incident Register** Authority: Environment Agency - North West Region, South Area Incident Date: 25th June 2001 Incident Reference: 11420 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Other Pollutant: Natural Ochre	A12NE (NW)	331	2	377387 408023
29	**Substantiated Pollution Incident Register** Authority: Environment Agency - North West Region, South Area Incident Date: 3rd July 2001 Incident Reference: 13180 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A14SW (SE)	335	2	378148 407474
30	**Substantiated Pollution Incident Register** Authority: Environment Agency - North West Region, South Area Incident Date: 18th January 2004 Incident Reference: 211457 Water Impact: Category 3 - Minor Incident 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	A7NW (SW)	963	2	376842 407077
30	**Substantiated Pollution Incident Register** Authority: Environment Agency - North West Region, South Area Incident Date: 11th December 2003 Incident Reference: 206132 Water Impact: Category 3 - Minor Incident Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: General Biodegradable : Other	A7NW (SW)	975	2	376816 407095

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	**Water Abstractions** Operator: British Waterways Board Licence Number: 2569004037 Permit Version: Not Supplied Location: Bolton & Bury Canal Authority: Environment Agency, North West Region Abstraction: Not Supplied Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Bolton & Bury Canal 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	A14SW (E)	462	2	378300 407500
31	**Water Abstractions** Operator: British Waterways Board Licence Number: 2569004994 Permit Version: Not Supplied Location: Bolton & Bury Canal Authority: Environment Agency, North West Region Abstraction: Manufacturing Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 0 Yearly Rate (m3): 1136 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	A14SW (E)	464	2	378300 407495
32	**Water Abstractions** Operator: St Regis Paper Company U K Ltd Licence Number: 2569004004 Permit Version: 101 Location: Reservoir Fed By Surface Drainage Atradcliffe Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Church Street East, Radcliffe Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 5th May 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NW (E)	945	2	378800 407800
32	**Water Abstractions** Operator: The East Lancashire Paper Mill Co Licence Number: 2569004004 Permit Version: 100 Location: Reservoir Fed By Surface Drainage Atradcliffe Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 109 Yearly Rate (m3): 40005 Details: Church Street East, Radcliffe Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th January 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NW (E)	945	2	378800 407800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Bpb Radcliffe Licence Number: 2569004013 Permit Version: 100 Location: R Irwell At Radcliffe, Manchester Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 5000 Yearly Rate (m3): 1000000 Details: Premises At Johnson Street,Radcliffe Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th April 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A9SE (SE)	1143	2	378500 406700
	Water Abstractions Operator: St Regis Paper Company U K Ltd Licence Number: 2569004019 Permit Version: 102 Location: Withins Reservor Fed By Unnamed Tributary Of River Irwell Authority: Environment Agency, North West Region Abstraction: Paper and Printing: Boiler Feed 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 Church St East,Radcliffe Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 5th May 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19NE (NE)	1148	2	378600 408700
	Water Abstractions Operator: St Regis Paper Company U K Ltd Licence Number: 2569004019 Permit Version: 102 Location: Withins Reservor Fed By Unnamed Tributary Of River Irwell Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water 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 Church St East,Radcliffe Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 5th May 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19NE (NE)	1148	2	378600 408700
	Water Abstractions Operator: The East Lancashire Paper Mill Co Licence Number: 2569004019 Permit Version: 101 Location: Withins Reservoir, Fed By & O/Flow To Unnamed Trib Of R Irw Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water 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 Church St East,Radcliffe Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th May 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	1148	2	378600 408700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: The East Lancashire Paper Mill Co Licence Number: 2569004019 Permit Version: 101 Location: Withins Reservoir, Fed By & O/Flow To Unnamed Trib Of R Irw Authority: Environment Agency, North West Region Abstraction: Paper and Printing: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 8728 Yearly Rate (m3): 2705779 Details: Premises At Church St East,Radcliffe Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th May 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19NE (NE)	1148	2	378600 408700
	Water Abstractions Operator: Ahlstrom-Munksjö Chirnside Ltd Licence Number: 2569004024 Permit Version: 103 Location: River Irwell At Mount Sion Works Radcliffe Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water 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 Mount Sion Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th June 2021 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2NW (SW)	1314	2	376800 406600
	Water Abstractions Operator: Ahlstrom Chirnside Ltd Licence Number: 2569004024 Permit Version: 102 Location: River Irwell At Mount Sion Works Radcliffe Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water 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 Mount Sion Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st November 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2NW (SW)	1314	2	376800 406600
	Water Abstractions Operator: Ahlstrom Dexter Ltd Licence Number: 2569004024 Permit Version: 101 Location: R Irwell At Mount Sion Works, Radcliffe Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water 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 Mount Sion Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st September 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2NW (SW)	1314	2	376800 406600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Dexter Non Wovens Licence Number: 2569004024 Permit Version: 100 Location: R Irwell At Mount Sion Works, Radcliffe Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 8183 Yearly Rate (m3): 2127528 Details: Premises At Mount Sion Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th November 1990 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2NW (SW)	1314	2	376800 406600
	Water Abstractions Operator: Tarmac Building Products Limited Licence Number: 2569004051 Permit Version: 104 Location: Borehole At Stopes Rd, Little Lever, Bolton Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Stopes Road, Little Lever Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st November 2016 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SW (W)	1315	2	376330 407550
	Water Abstractions Operator: Tarmac Building Products Limited Licence Number: 2569004051 Permit Version: 104 Location: Borehole At Stopes Rd, Little Lever, Bolton Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Stopes Road, Little Lever Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st November 2016 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SW (W)	1315	2	376330 407550
	Water Abstractions Operator: Tarmac Building Products Limited Licence Number: 2569004051 Permit Version: 103 Location: Borehole At Stopes Rd, Little Lever, Bolton Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Stopes Road, Little Lever Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th December 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SW (W)	1315	2	376330 407550

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Tarmac Building Products Limited Licence Number: 2569004051 Permit Version: 103 Location: Borehole At Stopes Rd, Little Lever, Bolton Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Stopes Road, Little Lever Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th December 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SW (W)	1315	2	376330 407550
	Water Abstractions Operator: Tarmac Building Products Limited Licence Number: 2569004051 Permit Version: 102 Location: Borehole At Stopes Rd, Little Lever, Bolton Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Stopes Road, Little Lever Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th October 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SW (W)	1315	2	376330 407550
	Water Abstractions Operator: Tarmac Building Products Limited Licence Number: 2569004051 Permit Version: 102 Location: Borehole At Stopes Rd, Little Lever, Bolton Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Stopes Road, Little Lever Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th October 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SW (W)	1315	2	376330 407550
	Water Abstractions Operator: Tarmac Limited Licence Number: 2569004051 Permit Version: 101 Location: Borehole At Stopes Rd, Little Lever, Bolton Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Stopes Road, Little Lever Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 15th July 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SW (W)	1315	2	376330 407550

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Tarmac Limited Licence Number: 2569004051 Permit Version: 101 Location: Borehole At Stopes Rd, Little Lever, Bolton Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Stopes Road, Little Lever Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 15th July 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SW (W)	1315	2	376330 407550
	Water Abstractions Operator: Tarmac Topblock Ltd Licence Number: 2569004051 Permit Version: 100 Location: Borehole At Stopes Rd, Little Lever, Bolton Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Stopes Road, Little Lever Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th April 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SW (W)	1315	2	376330 407550
	Water Abstractions Operator: Tarmac Topblock Ltd Licence Number: 2569004051 Permit Version: 100 Location: Borehole At Stopes Rd, Little Lever, Bolton Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 168 Yearly Rate (m3): 30000 Details: Land At Stopes Road, Little Lever Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th April 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SW (W)	1315	2	376330 407550
	Water Abstractions Operator: Pioneer Dyers Ltd. Licence Number: 2569004041 Permit Version: Not Supplied Location: River Irwell At Premises, Pioneer Mills, Milltown Street, RADCLIFFE Authority: Environment Agency, North West Region Abstraction: Manufacturing Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 330 Yearly Rate (m3): 72600 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	A10NE (E)	1539	2	379300 407100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Ahlstrom-Munksjö Chirnside Ltd Licence Number: 2569004043 Permit Version: 102 Location: Shore Top Reservoir At Radcliffe Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water 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 Mount Sion Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th June 2021 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A1NE (SW)	1596	2	376600 406400
	Water Abstractions Operator: Ahlstrom Chirnside Ltd Licence Number: 2569004043 Permit Version: 101 Location: Shore Top Reservoir At Radcliffe Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water 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 Mount Sion Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st September 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1NE (SW)	1596	2	376600 406400
	Water Abstractions Operator: Dexter Non Wovens Licence Number: 2569004043 Permit Version: 100 Location: Shore Top Reservoir At Radcliffe Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 2273 Yearly Rate (m3): 454600 Details: Premises At Mount Sion Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th January 1992 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A1NE (SW)	1596	2	376600 406400
	Water Abstractions Operator: D & H Dyers Ltd Licence Number: 2569004005 Permit Version: Not Supplied Location: Radcliffe, RADCLIFFE Authority: Environment Agency, North West Region Abstraction: Manufacturing Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 486 Yearly Rate (m3): 113650 Details: Borehole And Well 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	(E)	1639	2	379500 407600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: British Waterways Board Licence Number: 2569004054 Permit Version: 100 Location: The Manchester, Bolton And Bury Canal At Bank Top, Bury Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 1200 Yearly Rate (m3): 200000 Details: Land At Intex Yarns, Bury Road, Radcliffe Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 4th December 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A25SE (NE)	1667	2	379200 408790
	Water Abstractions Operator: British Waterways Board Licence Number: 2569004998 Permit Version: Not Supplied Location: Bolton & Bury Canal, Intex Yarns Authority: Environment Agency, North West Region Abstraction: Manufacturing Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 0 Yearly Rate (m3): 149973 Details: Licence Status: Cancelled 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	A25SE (NE)	1670	2	379200 408795
	Water Abstractions Operator: British Waterways Board Licence Number: 2569004037 Permit Version: Not Supplied Location: Bolton & Bury Canal Authority: Environment Agency, North West Region Abstraction: Not Supplied Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Bolton & Bury Canal 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	A25SE (NE)	1673	2	379200 408800
	Water Abstractions Operator: Lorival Plastics Ltd Licence Number: 2569003027 Permit Version: 100 Location: Reservoir Fed By Surface Drainage Atpremises, Little Lever, 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): 1455 Yearly Rate (m3): 295490 Details: Premises At Little Lever, Bolton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th February 1991 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(W)	1957	2	375700 407400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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: 3-10m Superficial Recharge: Low	A13NE (NE)	0	4	377766 407734
	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: 3-10m Superficial Recharge: Low	A13NW (N)	0	4	377744 407716
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (N)	0	4	377744 407716
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13NE (NE)	0	4	377766 407734
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (N)	0	4	377744 407716
	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				
33	**OS Water Network Lines** Watercourse Form: Canal Watercourse Length: 1902.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Manchester, Bolton and Bury Canal Catchment Name: Mersey Primacy: 2	A13SE (SE)	293	5	377999 407389
34	**OS Water Network Lines** Watercourse Form: Canal Watercourse Length: 63.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Manchester, Bolton and Bury Canal Catchment Name: Mersey Primacy: 2	A14SW (SE)	344	5	378158 407473

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	**OS Water Network Lines** Watercourse Form: Canal Watercourse Length: 347.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Manchester, Bolton and Bury Canal Catchment Name: Mersey Primacy: 2	A14SW (SE)	383	5	378215 407500
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (NE)	576	5	378062 408382
37	**OS Water Network Lines** Watercourse Form: Canal Watercourse Length: 727.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Manchester, Bolton and Bury Canal Catchment Name: Mersey Primacy: 2	A14SE (E)	634	5	378495 407690
38	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 15.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SW (S)	636	5	377526 406949
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 23.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SE (S)	767	5	377923 406828
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 402.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A8SE (S)	774	5	377858 406804
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 245.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A8SE (S)	789	5	377923 406805
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SE (S)	789	5	377923 406805
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 312.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NE (N)	791	5	377924 408645

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 137.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7NW (SW)	819	5	377036 407060
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7SE (S)	819	5	377400 406799
46	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 16.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7SE (S)	823	5	377389 406799
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 32.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NE (N)	848	5	377867 408708
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 81.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NE (N)	859	5	377837 408721
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 63.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7NW (SW)	880	5	376916 407116
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A3NW (S)	881	5	377520 406698
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 19.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19NW (N)	903	5	378117 408712
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 51.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19NW (N)	903	5	378118 408712

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 243.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A23SE (N)	917	5	377788 408778
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 53.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7NW (SW)	925	5	376859 407120
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19NW (NE)	930	5	378176 408719
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 2	A19NW (NE)	931	5	378167 408723
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 102.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19NW (NE)	933	5	378184 408718
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 60.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7NW (SW)	940	5	376872 407073
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7SW (SW)	953	5	376917 406991
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 40.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A9SW (S)	959	5	378150 406715
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9SW (S)	959	5	378150 406715

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
62	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 46.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7SW (SW)	963	5	376906 406990
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 125.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9SW (S)	965	5	378140 406703
64	**OS Water Network Lines** Watercourse Form: Reservoir Watercourse Length: 69.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Withins Reservoir Catchment Name: Mersey Primacy: 1	A19NW (NE)	971	5	378282 408713
65	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 23.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19NW (NE)	973	5	378349 408675
66	**OS Water Network Lines** Watercourse Form: Reservoir Watercourse Length: 19.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19NW (NE)	992	5	378348 408698
67	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 45.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Dingle Reservoir Catchment Name: Mersey Primacy: 1	A7SW (SW)	992	5	376844 407022
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 210.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A4NW (SE)	993	5	378186 406695
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 60.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A4NW (SE)	993	5	378186 406695
70	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 45.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A3NW (S)	997	5	377698 406565

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 307.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A3NW (S)	997	5	377645 406565
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 19.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A3NW (S)	997	5	377645 406565
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 931.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A9NE (SE)	998	5	378662 407051

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
74	**BGS Recorded Landfill Sites** Site Name: DANO Plant Location: Cemetery Rd, Radcliffe, MANCHESTER, Gt Manchester Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Good	A13NE (NE)	218	-	378024 407925
75	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Lowe Street, Radcliffe, Bury, Greater Manchester Name: Red Bank Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15932 First Input Date: 31st December 1950 Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: C115	A13NW (N)	0	2	377744 407716
76	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Radcliffe, Greater Manchester Name: Cemetery Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15923 First Input Date: 1st April 1969 Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Commercial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: 1677 Other Ref: C029	A13NE (NE)	219	2	378025 407925
77	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Radcliffe, Bury, Greater Manchester Name: Land at Cemetery Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15915 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: C029	A18SE (NE)	353	2	378087 408088
78	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Radcliffe, Greater Manchester Name: Cemetery Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15908 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: C029	A18SE (NE)	358	2	378032 408146

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Ainsworth Road, Radcliffe, Bury, Greater Manchester Name: Land adjacent to Ainsworth Road - Coventry Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15902 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: C074	A18SE (N)	431	2	377885 408286
80	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Radcliffe, Bury, Greater Manchester Name: Land at Darbyshire Street Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15963 First Input Date: 31st December 1974 Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: C116	A9NW (SE)	659	2	378400 407268
81	**Historical Landfill Sites** Licence Holder: Bury Metropolitan Borough Council Location: Sion Street and Bradbury Street, Radcliffe, Bury, Greater Manchester Name: Land South West Of Sion Street Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16005 First Input Date: 31st March 1991 Last Input Date: 31st May 1991 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4200/9329 BGS Ref: Not Supplied Other Ref: GDO C092, RD/LIC/635/90	A9SW (SE)	803	2	378223 406931
82	**Historical Landfill Sites** Licence Holder: Progress Motors Limited Location: Black Lane Station, Ainsworth Road, Radcliffe, Greater Manchester Name: Railway Cutting Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15885 First Input Date: 1st August 1988 Last Input Date: 31st December 1994 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4200/9242 BGS Ref: Not Supplied Other Ref: RD/LIC/505/88, C067, 4200/9247, RD/LIC/553/89	A18NW (N)	887	2	377471 408693
83	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Lavender Street, Radcliffe, Bury, Greater Manchester Name: Land at Harper Fold Farm Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15987 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: C107	A7NW (SW)	924	2	376862 407117

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
84	**Historical Landfill Sites** Licence Holder: Greater Manchester Waste Disposal Authority Location: Sion Street, Radcliffe, Bury, Greater Manchester Name: Land at Mount Sion Street Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16024 First Input Date: 31st December 1965 Last Input Date: 31st December 1976 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4200/9648 BGS Ref: Not Supplied Other Ref: C062	A3NW (S)	936	2	377560 406635
85	**Historical Landfill Sites** Licence Holder: J B R Fox Location: Ainsworth Road, Radcliffe, Bury, Greater Manchester Name: Rear of Constellation Mill Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15877 First Input Date: 19th November 1982 Last Input Date: 31st December 1983 Specified Waste Type: Deposited Waste included Inert and Industrial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4200/9269 BGS Ref: Not Supplied Other Ref: C051,RD/LIC/249/82	A23SW (N)	961	2	377729 408818
86	**Licensed Waste Management Facilities (Locations)** Licence Number: 53476 Location: Cemetery Road, Radcliffe, Manchester, M26 4EU Operator Name: G M Waste Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Physical Treatment Facilities **Licence Status: Surrendered** Issued: 13th November 1998 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 26th November 2008 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	296	2	378070 408013
87	**Licensed Waste Management Facilities (Locations)** Licence Number: 100192 Location: Land/ Premises At, Cemetery Road, Radcliffe, Bury, Lancashire, M26 4EU Operator Name: S U E Z Recycling And Recovery U K Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Household Waste Amenity Sites **Licence Status: Transferred** Issued: 27th March 2008 Last Modified: 20th May 2009 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	317	2	378090 408020
87	**Licensed Waste Management Facilities (Locations)** Licence Number: 53683 Location: Cemetery Road, Radcliffe, Manchester, M26 4EU Operator Name: G M Waste Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Household, Commercial And Industrial Transfer Stations **Licence Status: Revoked** Issued: 1st February 1995 Last Modified: 25th May 2004 Expires: Not Supplied Suspended: Not Supplied Revoked: 7th August 2014 Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	333	2	378107 408023

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	**Licensed Waste Management Facilities (Locations)** Licence Number: 50229 Location: Land/premises At, Cemetry Road, Radcliffe, Manchester, M26 4EU Operator Name: Viridor Waste (Greater Manchester) Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Household Waste Amenity Sites **Licence Status: Revoked** Issued: 25th May 2004 Last Modified: 27th May 2009 Expires: Not Supplied Suspended: Not Supplied Revoked: 7th August 2014 Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	335	2	378120 408000
88	**Licensed Waste Management Facilities (Locations)** Licence Number: 50254 Location: Nursery Works, Sion Street, Radcliffe, Manchester, M26 3SJ Operator Name: Waters Colin Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: End of Life Vehicles **Licence Status: Expired** Issued: 5th August 2004 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3NW (S)	953	2	377630 406611
	Local Authority Landfill Coverage Name: Bury Metropolitan Borough Council - Has not been able to supply Landfill data		0	6	377744 407716
89	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A13SE (E)	220	-	378082 407654
90	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14SW (SE)	389	-	378220 407496
91	**Potentially Infilled Land (Non-Water)** Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A8NW (S)	397	-	377709 407165
92	**Potentially Infilled Land (Non-Water)** Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A8NW (S)	400	-	377596 407174
93	**Potentially Infilled Land (Non-Water)** Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A12SE (W)	426	-	377214 407645
94	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14NW (E)	437	-	378291 407780
95	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A19SW (NE)	452	-	378115 408201
96	**Potentially Infilled Land (Non-Water)** Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A8NW (S)	496	-	377749 407068
97	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A9NW (SE)	499	-	378132 407229

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
98	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A18NE (N)	530	-	377870 408388
99	**Potentially Infilled Land (Non-Water)** Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A8SW (S)	581	-	377476 407025
100	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A7NE (SW)	601	-	377381 407051
101	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A7NE (SW)	609	-	377138 407272
102	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A7SE (SW)	677	-	377380 406964
103	**Potentially Infilled Land (Non-Water)** Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A12SW (W)	705	-	376945 407537
104	**Potentially Infilled Land (Non-Water)** Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A12SW (W)	772	-	376868 407623
105	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A19NW (NE)	814	-	378365 408461
106	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A7SE (SW)	842	-	377133 406937
107	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A17SW (NW)	864	-	376881 408216
108	**Potentially Infilled Land (Non-Water)** Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A12NW (W)	921	-	376742 407983
109	**Potentially Infilled Land (Non-Water)** Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A11NE (W)	931	-	376722 407914
110	**Potentially Infilled Land (Non-Water)** Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A11NE (W)	937	-	376718 407935
111	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A9NE (SE)	943	-	378698 407212
112	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A17SW (NW)	990	-	376739 408209
113	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13SW (W)	158	-	377483 407653
114	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13SW (W)	159	-	377479 407675

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
115	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A12NE (W)	236	-	377404 407825
116	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1931	A18SE (N)	240	-	377774 408098
117	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A18SW (NW)	282	-	377506 408067
118	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A12NE (NW)	295	-	377386 407954
119	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A18SW (NW)	302	-	377528 408100
120	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A14SW (E)	333	-	378193 407612
121	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A18SE (N)	373	-	377939 408213
122	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A12SE (W)	373	-	377278 407547
123	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8NW (SW)	386	-	377417 407294
124	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1911	A17SE (NW)	399	-	377364 408100
125	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A19SW (NE)	417	-	378175 408073
126	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A18SW (N)	434	-	377567 408251
127	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A7NE (SW)	435	-	377308 407332
128	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1911	A19SW (NE)	449	-	378102 408207
129	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12NE (W)	476	-	377165 407742
130	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A7NE (SW)	477	-	377388 407199
131	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A12NE (W)	488	-	377152 407732
132	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A7NE (SW)	506	-	377303 407233
133	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A14SW (E)	511	-	378371 407596
134	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8NW (SW)	534	-	377456 407085
135	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12NE (W)	538	-	377107 407806

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
136	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A7NE (SW)	555	-	377283 407185
137	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A18NE (N)	558	-	377915 408410
138	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A18NE (N)	569	-	377815 408431
139	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A18NW (N)	573	-	377706 408424
140	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A18NE (NE)	576	-	378039 408392
141	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1911	A18NE (N)	576	-	377998 408408
142	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A19SW (NE)	587	-	378360 408080
143	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8SE (S)	595	-	377828 406981
144	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A18SW (NW)	596	-	377423 408375
145	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A12SW (W)	606	-	377044 407544
146	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A17SE (NW)	606	-	377101 408080
147	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A17SE (NW)	614	-	377087 408066
148	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A12NW (W)	636	-	377009 407803
149	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8SW (S)	639	-	377528 406945
150	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A7NE (SW)	692	-	377155 407119
151	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12SW (W)	701	-	376953 407508
152	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A9SW (SE)	718	-	378143 406983
153	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A17SW (NW)	727	-	376970 408079
154	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1911	A19NW (NE)	729	-	378192 408485
155	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A12SW (W)	748	-	376918 407435
156	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A12NW (W)	772	-	376874 407827

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
157	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A18NW (N)	773	-	377605 408605
158	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A18NE (N)	773	-	377994 408613
159	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A12SW (W)	806	-	376847 407511
160	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12NW (W)	809	-	376869 408033
161	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A7SE (SW)	813	-	377316 406844
162	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1930	A7NW (SW)	815	-	376961 407166
163	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A14NE (E)	818	-	378665 407850
164	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A17SW (NW)	818	-	376927 408205
165	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A7SE (S)	828	-	377374 406800
166	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A14NE (E)	838	-	378695 407787
167	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12NW (W)	840	-	376835 408029
168	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A7NW (SW)	878	-	376872 407193
169	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A14NE (E)	893	-	378744 407831
170	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A7SE (SW)	894	-	377259 406783
171	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A11NE (W)	944	-	376729 408031
172	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A19NW (NE)	946	-	378220 408717
173	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A24SW (N)	950	-	378104 408766
174	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A11SE (W)	956	-	376691 407547

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
175	**Registered Landfill Sites** Licence Holder: Progess Motors (Radcliffe) Ltd Licence Reference: 00553/89 Site Location: Railway Line adj. 311 Ainsworth Road, Radcliffe, MANCHESTER, Greater Manchester, M26 0HF Licence Easting: 377690 Licence Northing: 408430 Operator Location: 311 Ainsworth Road, Radcliffe, BURY, Lancashire, M26 0HF Authority: Environment Agency - North West Region, South Area Site Category: Landfill - Railway cutting Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st May 1990 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Ceramic,Slate,Glass,Plastic,Fibreglass Max.Waste Permitted By Licence-Stated Metals Similar Non Leachate Forming Waste Soil, Clay, Sand Stone, Brick, Concrete Prohibited Waste: Animal Flesh Chemical Wastes Of Any Nature Foodstuffs Leachate Forming Wastes Liquid/Sludge Wastes Paper/Cardboard Waste Plasterboard Sawdust Textiles Vegetable Matter Waste N.O.S.	A18NW (N)	582	2	377690 408430
176	**Registered Landfill Sites** Licence Holder: Progress Motors Ltd Licence Reference: 00553/89 Site Location: Railway Line, Ainsworth Road, Radcliffe, Manchester, Greater Manchester Licence Easting: 377300 Licence Northing: 408600 Operator Location: 311 Ainsworth Road, Radcliffe, BURY, Lancashire, M26 0HF Authority: Environment Agency - North West Region, South Area Site Category: Landfill Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st May 1990 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Brick,Concrete,Slate,Ceramic Mat'Ls Demol'N Waste If Conforming With Below Max.Waste Permitted By Licence-Stated Similar Non-Leachate Forming Waste Soil,Clay,Sand,Stone Prohibited Waste: Animal Flesh Chemical Waste Of Any Nature Fibreglass Foodstuffs Glass Mat'L Giving Rise To Polluting Leachat Metal Paper/Cardboard Waste Plasterboard Plastics Sawdust Textiles Vegetable Matter Waste In Liquid Or Sludge Form Waste In Skips Wood	A17NE (NW)	751	2	377344 408510

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
177	**Registered Landfill Sites** Licence Holder: Bury M.B.C. Licence Reference: 00635/90 Site Location: Sion Street / Bradbury Street, Radcliffe, Manchester, Greater Manchester Licence Easting: 377900 Licence Northing: 406650 Operator Location: Lester House, 21 Broad Street, BURY, Lancashire, BL9 0DA Authority: Environment Agency - North West Region, South Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st March 1991 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Ash, Clinker Gmwda Group 1 - Non Decomp.W -But Only Max.Waste Permitted By Licence-Stated Silica Stone, Clay, Sand Uncontam. Hardcore And Rubble Uncontam. Soil - Gmwda Class A Prohibited Waste: Liquid/Sludge Wastes Waste In Drums Waste In Skips Waste N.O.S.	A3NE (S)	933	2	377900 406650
178	**Registered Landfill Sites** Licence Holder: J B R Fox Licence Reference: 00249 Site Location: Constellation Mill, Ainsworth Road, Radcliffe, Manchester, Greater Manchester Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: Church Inn, Spring Street, Bury, Lancashire Authority: Environment Agency - North West Region, South Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 19th November 1982 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Positioned by the supplier Boundary Accuracy: Good Authorised Waste: Construction And Demolition Wastes Ind. Non-Haz. Waste	A23SW (N)	965	2	377727 408822

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
179	**Registered Landfill Sites** Licence Holder: Progress Motors Ltd Licence Reference: 00505/88/M1 Site Location: Black Lane Station, Ainsworth Road, Radcliffe, Manchester, Greater Manchester Licence Easting: 377580 Licence Northing: 408800 Operator Location: 371 Ainsworth Road, Radcliffe, MANCHESTER, Greater Manchester, M26 0HF Authority: Environment Agency - North West Region, South Area Site Category: Landfill - Railway cutting Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st July 1988 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Ceramic Materials Constr'N Ind. Wastes Containing Only Glass Similar Non Leachate Forming Materials Soil,Clay,Sand, Stone,Brick,Concrete,Slate Prohibited Waste: Animal Flesh Chemical Waste Of Any Nature Foodstuffs Paper/Cardboard Plasterboard Sawdust Textiles Vegetable Matter Waste Forming Polluting Leachate Waste In Liquid Or Sludge Form Waste N.O.S.	A23SW (N)	968	2	377580 408800
180	**Registered Waste Transfer Sites** Licence Holder: Greater Manchester Waste Ltd Licence Reference: 00882 Site Location: Cemetery Road C.A.Site, Radcliffe, Manchester, Greater Manchester Operator Location: PO Box 151, Higher Swan Lane, BOLTON, Lancashire, BL3 3WW Authority: Environment Agency - North West Region, South Area Site Category: Civic Amenity Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 1st February 1995 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Asbestos Gmwda Group 1 - Non/V.Slow Decomp.Wast Gmwda Group 2 - Slow Decomp./Slight So Gmwda Group 3 - Decomp./Sol.Waste = No Gmwda Group 5 - Chemical/Toxic Waste Max.Waste Permitted By Licence Prohibited Waste: Acid Tars Clinical - Grp A As In Hse '92 Distillation Residues Dyestuffs Waste Foundry Sand Incinerator Residues Industrial Effluent Treatment Sludge Interceptor Pit Wastes Laboratory Chemicals Pharmaceuticals Polymeric Material, Products/Scrap Printing Industry Wastes/Ink Prod'Ts Of Incomplete Polymerisation Sewage Tank Cleaning Sludge Used Filter Mat'Ls/Cake/Screenings	A14NW (NE)	317	2	378100 408000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
181	**Registered Waste Transfer Sites** Licence Holder: Progress Motors (Radcliffe) Ltd Licence Reference: 00743 Site Location: 371 Ainsworth Road, Radcliffe, MANCHESTER, Greater Manchester, M26 0HF Operator Location: As Site Address Authority: Environment Agency - North West Region, South Area Site Category: Transfer Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 1st September 1992 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Bonded Asbestos Sheet/Piping; Gmwda Group 1 - Non/V.Slow Decomp.Wast; Gmwda Group 2 - Slow Decomp./Slight So; Max.Storage; Max.Storage Of Reclaimed Mat'L; Max.Waste Permitted By Licence-Stated; Mildly Contaminated Waste/Soils; Plaster Prohibited Waste: Ash, Clinker, Sand; Boiler Scale, Slag; Clinical Wastes; Contaminated Waste/Soil; Cork, Ebonite, Kapok; Cosmetic Products; Explosive Waste; Foundry Sand; Incinerator Residues; Liquid/Sludge Wastes; Loose Cement; Malodorous Waste; Pressurised Waste; Pretreated Waste Not Permit By Lic; Sewage; Soap, Detergents; Special Wastes; Tanned Leather; Textiles; Veg. Food/Proc, Animal Carcass; Violently Reactive Waste; Waste In Drums; Waste N.O.S.	A18NW (N)	820	2	377655 408665
182	**Registered Waste Treatment or Disposal Sites** Licence Holder: Greater Manchester Waste Ltd Licence Reference: 01012 Site Location: Radcliffe Treatment (Dano) Plant, Cemetery Road, Radcliffe, Manchester, Greater Manchester Operator Location: PO Box 151, Higher Swan Lane, BOLTON, Lancashire, BL3 3WW Authority: Environment Agency - North West Region, South Area Site Category: Pulverization Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 1st November 1998 Preceded By Licence: 01012 (R/043/80) Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Max.Waste Permitted By Licence; Non-Haz. H'Hold/Ind./Com.Waste Prohibited Waste: Spec.Waste (Epa'90:S62/1996 Regs); Waste N.O.S.	A14NW (NE)	317	2	378100 408000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Registered Waste Treatment or Disposal Sites				
182	Licence Holder: G.M.W.D.A. Licence Reference: 01012 (R/043/80) Site Location: Dano Treatment Plant, Cemetery Road, Radcliffe, Manchester, Greater Manchester Operator Location: Blackfriars House, Parsonage, MANCHESTER, Greater Manchester, M3 2JA Authority: Environment Agency - North West Region, South Area Site Category: Pulverization Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Record supersededSuperseded Dated: 29th May 1980 Preceded By Licence: Not Given Superseded By Licence: 01012 Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Amines And Amides Fuels, Oils, Greases Halogenated Cleaning Cmpds House. + Com. Untreated Waste Household Waste Hydrocarbons (Not Fuels/Oils/Greases) Ind. Non-Haz. Potentially Combustible Interceptor Waste, Tar, Paint Etc $ Nitro Compounds Oxygen Containing Organic Compounds Phenols, Analogues/Derivatives Polymeric Material, Products/Scrap Prod'Ts Of Incomplete Polymerisation $ Prohibited Waste: Acid Tars Chlorinated Phenols/Analogues	A14NW (NE)	317	2	378100 408000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Middle Coal Measures Formation And South Wales Middle Coal Measures Formation (Undifferentiated)	A13NW (N)	0	1	377744 407716
	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: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NW (N)	0	1	377744 407716
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (NE)	0	1	377766 407734
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (W)	0	1	377677 407690
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (NE)	31	1	377827 407891
	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 (S)	61	1	377716 407500
	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: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SW (S)	64	1	377744 407500

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	72	1	377648 407898
	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: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	85	1	377548 407798
	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: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	232	1	377500 408000
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NE (W)	267	1	377376 407849
	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: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	274	1	377483 408040
	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: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (NW)	354	1	377500 408145

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 Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (N)	356	1	377629 408186
	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: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (NW)	359	1	377500 408149
	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: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SW (NE)	422	1	378193 408050
	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: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (N)	433	1	377595 408259
	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: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (NW)	436	1	377500 408234
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NW (N)	582	1	377618 408416

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 Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NW (N)	591	1	377500 408396
	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: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8SE (S)	626	1	377867 406958
	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: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NW (W)	638	1	377000 407716
	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: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14NE (E)	642	1	378500 407762
	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: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NW (N)	661	1	377577 408485
	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: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NW (N)	661	1	377500 408469

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 Concentration: 15 - 25 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	A8SW (S)	759	1	377507 406827
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SW (NW)	759	1	377000 408213
	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: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	762	1	378036 408591
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SE (S)	765	1	377873 406814
	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: 40 - 60 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	767	1	377907 408623
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	773	1	377948 408623

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 Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NW (N)	782	1	377527 408597
	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: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NE (SE)	789	1	378457 407130
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NW (N)	813	1	377499 408624
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SW (S)	814	1	377654 406748
	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: 40 - 60 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	815	1	378023 408650
	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: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	824	1	377886 408682

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: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SW (NW)	837	1	377000 408349
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	849	1	377843 408710
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SW (SW)	886	1	377000 407000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17NW (NW)	903	1	377000 408450
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19NE (NE)	923	1	378481 408501
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17NW (NW)	939	1	377000 408500

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A3NE (S)	945	1	377947 406650
	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: 40 - 60 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A23SW (N)	957	1	377711 408812
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A23SE (N)	957	1	377767 408817
	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: 40 - 60 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19NE (NE)	962	1	378527 408508
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19NE (NE)	975	1	378542 408511
	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: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A22SE (N)	982	1	377375 408767

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15NW (E)	984	1	378844 407733
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17NW (NW)	987	1	377000 408565
183	**BGS Recorded Mineral Sites** Site Name: Black Cat Colliery Location: Radcliffe, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96828 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A8NW (S)	457	1	377555 407127
184	**BGS Recorded Mineral Sites** Site Name: Marsden Croft Brick Works Location: Radcliffe, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96852 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	A12NE (W)	558	1	377081 407717
185	**BGS Recorded Mineral Sites** Site Name: Black Moss Brick Works Location: Radcliffe, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96847 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	649	1	377059 407330
186	**BGS Recorded Mineral Sites** Site Name: Scar Top Location: Radcliffe, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96824 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	984	1	378722 407171
	BGS Measured Urban Soil Chemistry No data available				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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.	A13NW (N)	0	7	377744 407716
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (N)	0	-	377744 407716
	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	A13NW (N)	0	1	377744 407716
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	377744 407716
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	377744 407716
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	377744 407716
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	377744 407716
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	377744 407716
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	377742 407717
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	76	1	377675 407905
	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	A13NW (N)	0	1	377744 407716
	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	A13NW (N)	0	1	377744 407716

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
187	**Contemporary Trade Directory Entries** Name: Universal Doors Location: 48, Shire Gardens, Radcliffe, Manchester, M26 4EW Classification: Door Manufacturers - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	53	-	377909 407623
188	**Contemporary Trade Directory Entries** Name: Motordrive Location: Ebury St, Radcliffe, Manchester, Lancashire, M26 4BL Classification: Seating Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SE (S)	94	-	377786 407501
188	**Contemporary Trade Directory Entries** Name: Fireplace Workshop Location: Moslo Mill,Ebury St, Radcliffe, Manchester, Lancs, M26 4BL Classification: Fireplaces & Mantelpieces **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SE (S)	95	-	377786 407500
188	**Contemporary Trade Directory Entries** Name: Secure Aluminium Ltd Location: Moslo Mill,Ebury Street, Radcliffe, Manchester, Greater Manchester, M26 4BL Classification: Aluminium Fabricators **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A13SE (S)	103	-	377802 407499
188	**Contemporary Trade Directory Entries** Name: Uk First Joinery Location: Ebury St, Radcliffe, Manchester, M26 4BL Classification: Joinery Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SE (S)	122	-	377798 407476
188	**Contemporary Trade Directory Entries** Name: Car & Commercial Services Location: Unsworth Street, Radcliffe, Manchester, M26 3FN Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (S)	127	-	377762 407452
188	**Contemporary Trade Directory Entries** Name: Systems 7 Racewear Ltd Location: Moslo Mill Ebury st, Radcliffe, Manchester, Greater Manchester, M26 4BL Classification: Footwear - Manufacturers and Suppliers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SE (S)	134	-	377804 407465
188	**Contemporary Trade Directory Entries** Name: Joinery Solutions Location: Castlefield Works, Ebury Street, Radcliffe, Manchester, M26 4BL Classification: Joinery Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (S)	142	-	377797 407453
188	**Contemporary Trade Directory Entries** Name: Secure Aluminium Ltd Location: EBURY STREET, RADCLIFFE, M26 4BL Classification: Door Manufacturers - Industrial **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (S)	157	-	377797 407435
189	**Contemporary Trade Directory Entries** Name: Lex Business Equipment Ltd Location: Systems House, Smyrna Street, Radcliffe, MANCHESTER, M26 4BN Classification: Office Furniture & Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	98	-	377908 407562
189	**Contemporary Trade Directory Entries** Name: P D S Steam Cleaner Repairs Location: 2, Melton Street, Radcliffe, Manchester, M26 4BR Classification: Janitorial Equipment - Servicing & Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	133	-	377927 407533
190	**Contemporary Trade Directory Entries** Name: Japanese Knotweed Solutions Location: Itadori House, Melton Street, Radcliffe, Manchester, M26 4BR Classification: Chemicals & Allied Products **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	150	-	377962 407536

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
191	**Contemporary Trade Directory Entries** Name: Fires & Surrounds Location: Ebury St, Radcliffe, Manchester, Lancashire, M26 4BL Classification: Fireplaces & Mantelpieces **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SE (S)	151	-	377812 407450
191	**Contemporary Trade Directory Entries** Name: A Bradwell Ltd Location: Water Lane Street, Radcliffe, Manchester, M26 4BD Classification: Vending Machine Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (S)	183	-	377851 407434
192	**Contemporary Trade Directory Entries** Name: J T S Location: Chapel House, Smyrna Street, Radcliffe, Manchester, M26 4BN Classification: Door Manufacturers - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	155	-	377998 407574
192	**Contemporary Trade Directory Entries** Name: Radcliffe Gas Centre Location: 22, Ainsworth Road, Radcliffe, Manchester, M26 4EA Classification: Gas Appliances - Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	179	-	378029 407584
192	**Contemporary Trade Directory Entries** Name: Lancashire Granulations Plastic Recycling Location: 10-14, Ainsworth Road, Radcliffe, Manchester, M26 4EA Classification: Recycling Centres **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	197	-	378038 407559
193	**Contemporary Trade Directory Entries** Name: Ironxpress Location: 34-36, Ainsworth Road, Radcliffe, Manchester, Lancashire, M26 4EA Classification: Ironing & Home Laundry Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (E)	156	-	378016 407624
193	**Contemporary Trade Directory Entries** Name: Goldin Motor Services Location: Siddall Street, Radcliffe, Manchester, M26 4AX Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (E)	160	-	378021 407663
194	**Contemporary Trade Directory Entries** Name: Radcliffe Washers Location: 34, Osborne Walk, Radcliffe, Manchester, M26 3RR Classification: Washing Machines - Servicing & Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	176	-	377535 407470
195	**Contemporary Trade Directory Entries** Name: Knowles Street Garage Location: 128, Knowles Street, Radcliffe, Manchester, M26 4DR Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	186	-	378011 407853
196	**Contemporary Trade Directory Entries** Name: P P S Commercials Ltd Location: Cemetery Road, Radcliffe, Manchester, Lancashire, M26 4FT Classification: Commercial Vehicle Bodybuilders & Repairers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	195	-	377995 407936
197	**Contemporary Trade Directory Entries** Name: Howarth (1985) Ltd Location: Alma St Work,Meadow Croft,Alma St, Radcliffe, Manchester, Lancashire, M26 4FU Classification: Sheet Metal Work **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13NE (NE)	199	-	377890 408046

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
198	**Contemporary Trade Directory Entries** Name: Prestwich Hosiery Co Location: 129, Water Street, Radcliffe, Manchester, Lancashire, M26 3BJ Classification: Hosiery Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (S)	200	-	377800 407389
199	**Contemporary Trade Directory Entries** Name: East Lancashire Window Co Location: 88, Water Street, Radcliffe, Manchester, M26 4BE Classification: Window Frames - Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	236	-	378029 407482
199	**Contemporary Trade Directory Entries** Name: A D Uk Group Ltd Location: 86, WATER STREET, RADCLIFFE, MANCHESTER, M26 4BE Classification: Roller Shutter Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	237	-	378033 407484
200	**Contemporary Trade Directory Entries** Name: Inline Services Location: 22, Meadowcroft, Radcliffe, Manchester, Lancashire, M26 4JQ Classification: Telecommunications Equipment & Systems **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	262	-	378005 408042
201	**Contemporary Trade Directory Entries** Name: Press To Impress Location: 40, Lowton Street, Radcliffe, Manchester, M26 4DP Classification: Ironing & Home Laundry Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	263	-	378118 407752
202	**Contemporary Trade Directory Entries** Name: Ainsworth Road Garage Location: 4, Ainsworth Road, Radcliffe, Manchester, M26 4DJ Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	265	-	378087 407508
202	**Contemporary Trade Directory Entries** Name: Ainsworth Road Garage Location: 4, Ainsworth Road, Radcliffe, Manchester, M26 4DJ Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	265	-	378087 407508
203	**Contemporary Trade Directory Entries** Name: Spanners Motor Services Location: Apex Works, Water Street, Radcliffe, Manchester, Lancashire, M26 3DE Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	265	-	377996 407420
204	**Contemporary Trade Directory Entries** Name: Dgs Engineering Location: Alma St, Radcliffe, Manchester, M26 4FU Classification: Engineers - General **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A18SE (NE)	267	-	377928 408103
205	**Contemporary Trade Directory Entries** Name: M M Engineering Location: unit 3 Ainsworth Rd, Radcliffe, Manchester, Lancashire, M26 4HD Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A18SE (N)	267	-	377818 408128
205	**Contemporary Trade Directory Entries** Name: Combifix Ltd Location: 227, Ainsworth Road, Radcliffe, Manchester, M26 4EE Classification: Boilers - Servicing, Replacements & Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	281	-	377799 408142

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
206	**Contemporary Trade Directory Entries** Name: A D-Uk Shutter Maintenance Ltd Location: Unit 16 Apex House,Bolton Street, Radcliffe, Manchester, Greater Manchester, M26 3SS Classification: Roller Shutter Manufacturers **Status: Active** Positional Accuracy: Manually positioned to the address or location	A8NE (S)	280	-	377892 407346
206	**Contemporary Trade Directory Entries** Name: Claddassist Ltd Location: APEX HOUSE, BOLTON STREET, RADCLIFFE, M26 3SS Classification: Cladding Suppliers & Installers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8NE (S)	280	-	377892 407346
206	**Contemporary Trade Directory Entries** Name: Ad-Uk Industrial Doors & Security Shutters Ltd Location: APEX HOUSE, BOLTON STREET, RADCLIFFE, M26 3SS Classification: Roller Shutter Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8NE (S)	280	-	377892 407346
206	**Contemporary Trade Directory Entries** Name: The Printer Guru Location: Unit 703,Apex House,Bolton St, Radcliffe, Manchester, Lancashire, M26 3SS Classification: Printers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A8NE (S)	282	-	377892 407344
207	**Contemporary Trade Directory Entries** Name: Simpson'S Of Radcliffe Location: 51, Water Street, Radcliffe, Manchester, M26 3DE Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	287	-	378073 407455
208	**Contemporary Trade Directory Entries** Name: Greater Manchester Waste Disposal Authority Location: Cemetery Road, Radcliffe, Manchester, M26 4EU Classification: Waste Disposal Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	293	-	378069 408008
209	**Contemporary Trade Directory Entries** Name: John H Blakey Ltd Location: New Bridge Mills, Lord Street, Radcliffe, Manchester, M26 3BZ Classification: Ropes & Hawsers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (SE)	326	-	378014 407361
209	**Contemporary Trade Directory Entries** Name: Radcliffe Building Supplies Ltd Location: Lord Street, Radcliffe, Manchester, M26 3BA Classification: Builders' Merchants **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (SE)	354	-	378005 407324
210	**Contemporary Trade Directory Entries** Name: Balmoral Carpets Location: 255, Bolton Road, Radcliffe, Manchester, M26 3QP Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (SW)	338	-	377386 407390
211	**Contemporary Trade Directory Entries** Name: Original Carpet Cleaning Location: 200, Lever Street, Radcliffe, Manchester, M26 4PT Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	345	-	377764 408203
212	**Contemporary Trade Directory Entries** Name: Meltilicious Location: 37, Clyde Road, Radcliffe, MANCHESTER, M26 4PZ Classification: Candle Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	350	-	377685 408188

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
213	**Contemporary Trade Directory Entries** Name: Vehicles 2 Lease Location: 52b Water St, Radcliffe, Manchester, Lancashire, M26 4DF Classification: Commercial Vehicle Dealers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14SW (SE)	353	-	378179 407494
214	**Contemporary Trade Directory Entries** Name: F A M Engineering & Recovery Location: HOLLY BANK MILL, HOLLY BANK INDUSTRIAL ESTATE, HOLLY BANK STREET, RADCLIFFE, MANCHESTER, M26 3SY Classification: Car Breakdown & Recovery Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A8NE (S)	362	-	377829 407224
215	**Contemporary Trade Directory Entries** Name: J & M Scrap Cars Location: 312, Bolton Road, Radcliffe, Manchester, M26 3GP Classification: Scrap Metal Merchants **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (SW)	370	-	377327 407420
216	**Contemporary Trade Directory Entries** Name: Valley Blinds Location: 16, Turks Road, Radcliffe, Manchester, M26 4PU Classification: Blinds, Awnings & Canopies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	400	-	377695 408242
217	**Contemporary Trade Directory Entries** Name: Get It Maid Location: 66, Alma Street, Radcliffe, Manchester, M26 4FU Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	404	-	377847 408264
218	**Contemporary Trade Directory Entries** Name: Scorpion Motosport Location: Unit 2 Albert Works,Water Street, Radcliffe, Manchester, Greater Manchester, M26 4DF Classification: Mot Testing Centres **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SW (E)	409	-	378263 407565
218	**Contemporary Trade Directory Entries** Name: P J Products (Uk) Ltd Location: Albert Works, Water Street, Radcliffe, Manchester, Lancashire, M26 4DF Classification: Ceramic Manufacturers, Supplies & Services **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A14SW (E)	410	-	378263 407565
218	**Contemporary Trade Directory Entries** Name: Securex Location: Unit 1,Albert Works,Water St, Radcliffe, Manchester, Lancashire, M26 4DF Classification: Door Manufacturers - Domestic **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A14SW (E)	429	-	378283 407563
219	**Contemporary Trade Directory Entries** Name: Laurance Higginson Location: 22, Coronation Gardens, Radcliffe, Manchester, M26 3XS Classification: Coal & Smokeless Fuel Merchants & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (NW)	427	-	377242 407950
220	**Contemporary Trade Directory Entries** Name: Pest Evictors Location: 15, Lord Street, Radcliffe, Manchester, M26 3BA Classification: Pest & Vermin Control **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	439	-	378171 407337
221	**Contemporary Trade Directory Entries** Name: Planet Advantage Ltd Location: Water St, Radcliffe, Manchester, Lancashire, M26 3DE Classification: Waste Processing Machinery **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14SW (SE)	457	-	378276 407454

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
221	**Contemporary Trade Directory Entries** Name: Nfr Racewear Location: 15, Water Street, Radcliffe, Manchester, M26 3DE Classification: Car Accessories Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (SE)	462	-	378272 407434
221	**Contemporary Trade Directory Entries** Name: Mel'S Cleaning Services Location: Seddon House, Seddon Street, Radcliffe, Manchester, M26 4TF Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (SE)	479	-	378306 407468
221	**Contemporary Trade Directory Entries** Name: Seddon Street Autos Location: Seddon House, Seddon Street, Radcliffe, Manchester, M26 4TF Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SW (SE)	483	-	378305 407455
222	**Contemporary Trade Directory Entries** Name: R M S Location: Greenbank Rd, Radcliffe, Manchester, M26 4FR Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A18SE (N)	463	-	377911 408314
223	**Contemporary Trade Directory Entries** Name: Rose Counties Location: 299a, Ainsworth Road, Radcliffe, Manchester, M26 4HA Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	473	-	377746 408329
224	**Contemporary Trade Directory Entries** Name: Stockk Ltd Location: VICTORIA WORKS, 3, LORD STREET, RADCLIFFE, M26 3BA Classification: Distribution Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	476	-	378239 407358
225	**Contemporary Trade Directory Entries** Name: Big Art & Banners Location: 31a, Hampson Street, Radcliffe, Manchester, M26 4TN Classification: Digital Printing **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (E)	508	-	378356 407530
226	**Contemporary Trade Directory Entries** Name: E & H Hardware Location: 135, Coronation Road, Radcliffe, Manchester, M26 3LP Classification: Hardware **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (NW)	520	-	377158 407992
227	**Contemporary Trade Directory Entries** Name: L M T Engineering Ltd Location: 47, Shetland Way, Radcliffe, Manchester, M26 4UH Classification: Mechanical Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	521	-	378334 407941
228	**Contemporary Trade Directory Entries** Name: Global Windows Location: Seddon House, Seddon Street, Radcliffe, Manchester, M26 4TF Classification: Fasteners & Fixing Devices **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (E)	521	-	378353 407474
229	**Contemporary Trade Directory Entries** Name: The Gas Works Location: 41, Victoria Street, Radcliffe, Manchester, M26 3AZ Classification: Boilers - Servicing, Replacements & Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	545	-	378163 407194
230	**Contemporary Trade Directory Entries** Name: Hilbar Plastics Location: Windley Works, Wolsey Street, Radcliffe, Manchester, Lancashire, M26 3BB Classification: Plastics - Injection Moulding **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	589	-	378239 407196

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
230	**Contemporary Trade Directory Entries** Name: Louis Taylor Location: Windley Works, Wolsey Street, Radcliffe, Manchester, M26 3BB Classification: Soft Furnishings - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	589	-	378238 407195
231	**Contemporary Trade Directory Entries** Name: Eton Garage Location: School Street, Radcliffe, Manchester, M26 3BP Classification: Car Breakers & Dismantlers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	599	-	378180 407142
232	**Contemporary Trade Directory Entries** Name: Bolton & Bury Blinds Location: 8, Wolsey Close, Radcliffe, Manchester, M26 3AG Classification: Blinds, Awnings & Canopies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	603	-	378293 407226
232	**Contemporary Trade Directory Entries** Name: Bolton & Bury Blinds Location: 8, Wolsey Close, Radcliffe, Manchester, M26 3AG Classification: Blinds, Awnings & Canopies **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	603	-	378293 407226
233	**Contemporary Trade Directory Entries** Name: East Lancashire Crematorium Location: Cemetery Road, Radcliffe, Manchester, M26 4EU Classification: Cemeteries & Crematoria **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	608	-	378257 408279
234	**Contemporary Trade Directory Entries** Name: Ohm Electrics Location: 115, Blackburn Street, Radcliffe, Manchester, Lancashire, M26 3WQ Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	610	-	378356 407292
234	**Contemporary Trade Directory Entries** Name: Farnworth Express Location: 109-111, Blackburn Street, Radcliffe, Manchester, M26 3WQ Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	624	-	378366 407280
234	**Contemporary Trade Directory Entries** Name: Ascot Design Location: 109, Blackburn Street, Radcliffe, Manchester, M26 3WQ Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	624	-	378366 407280
234	**Contemporary Trade Directory Entries** Name: C F C Sales Location: Lancaster House 70-76, Blackburn Street, Radcliffe, Manchester, M26 2JW Classification: Car Dealers - Used **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	628	-	378395 407316
234	**Contemporary Trade Directory Entries** Name: Renwood Ltd Location: Radcliffe, M26 2JS Classification: Boilers - Servicing, Replacements & Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	651	-	378401 407284
235	**Contemporary Trade Directory Entries** Name: Ratcliffe Service & Tuning Location: Radcliffe, Manchester, Greater Manchester, M26 2TQ Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A14SE (E)	615	-	378439 407435
236	**Contemporary Trade Directory Entries** Name: G D P Ltd Location: 6a, Heber Street, Radcliffe, Manchester, Lancashire, M26 2TG Classification: Damp & Dry Rot Control **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A9NW (SE)	616	-	378390 407332

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
237	**Contemporary Trade Directory Entries** Name: Johnson House Cleaners Location: 19, Salisbury Road, Radcliffe, Manchester, M26 4GD Classification: Cleaning Services - Domestic **Status: Active** Positional Accuracy: Automatically positioned to the address	A18NW (N)	630	-	377452 408423
238	**Contemporary Trade Directory Entries** Name: J B Ashworth Location: 13, Ulundi Street, Radcliffe, Manchester, M26 3AN Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	652	-	378164 407071
239	**Contemporary Trade Directory Entries** Name: C M Cleaning & Maintenance Location: 1, Winston Close, Radcliffe, Manchester, M26 4WS Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	686	-	377199 408340
239	**Contemporary Trade Directory Entries** Name: C M Cleaning & Maintenance Location: 1, Winston Close, Radcliffe, Manchester, M26 4WS Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	686	-	377199 408340
240	**Contemporary Trade Directory Entries** Name: V F M Promotions Location: 124, Harper Fold Road, Radcliffe, Manchester, M26 3RG Classification: Hot Foil Stamping **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SW (SW)	705	-	376975 407394
241	**Contemporary Trade Directory Entries** Name: Iron Art Fabrications Location: Unit 1, Dingle Vale Works, Sion Street, Radcliffe, Manchester, M26 3SB Classification: Gate Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SE (S)	721	-	377796 406847
241	**Contemporary Trade Directory Entries** Name: Matt-A-Door Location: Unit 2,Dingle Vale Works,Sion St, Radcliffe, Manchester, Lancashire, M26 3SB Classification: Door Manufacturers - Domestic **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A8SE (S)	722	-	377796 406846
242	**Contemporary Trade Directory Entries** Name: Rk Property Maintenance Location: 25, Mulberry Close, Radcliffe, Manchester, M26 3AR Classification: Gas Companies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	736	-	378173 406980
243	**Contemporary Trade Directory Entries** Name: Biomass Energy Co-Operative Location: Unit 1, Globe Industrial Estate, Darbyshire Street, Radcliffe, Manchester, M26 2TA Classification: Boiler Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (SE)	737	-	378548 407379
243	**Contemporary Trade Directory Entries** Name: Matchbrook Ltd Location: Unit 1, Globe Industrial Estate, Darbyshire Street, Radcliffe, Manchester, M26 2TA Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (SE)	737	-	378548 407379
243	**Contemporary Trade Directory Entries** Name: Radcliffe Tyre Bay Location: Unit 7, Globe Industrial Estate, Darbyshire Street, Radcliffe, Manchester, M26 2TA Classification: Tyre Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SE (E)	754	-	378573 407396

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
243	**Contemporary Trade Directory Entries** Name: Advantage Auto Bodies Location: Unit 2, Globe Industrial Estate, Darbyshire Street, Radcliffe, Manchester, M26 2TA Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	755	-	378561 407363
243	**Contemporary Trade Directory Entries** Name: K G B Engineering Supplies Location: Unit 3, Globe Industrial Estate, Darbyshire Street, Radcliffe, Manchester, M26 2TA Classification: Engineering Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	761	-	378565 407355
243	**Contemporary Trade Directory Entries** Name: Darbyshire St Garages Location: Unit 5, Globe Industrial Estate, Darbyshire Street, Radcliffe, Manchester, M26 2TA Classification: Car Breakdown & Recovery Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	786	-	378594 407362
243	**Contemporary Trade Directory Entries** Name: Nrc Motor Services Location: Unit 5, Globe Industrial Estate, Darbyshire Street, Radcliffe, Manchester, Lancashire, M26 2TA Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A9NE (SE)	786	-	378594 407362
244	**Contemporary Trade Directory Entries** Name: P Hamer Location: Sion St, Radcliffe, Manchester, M26 3SB Classification: Steam Cleaning Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A8SE (S)	739	-	377854 406839
245	**Contemporary Trade Directory Entries** Name: Strebor Diecasting Co Ltd Location: P O Box 6 Allens Green Works,Hutchinson Way, Radcliffe, Manchester, M26 3AR Classification: Die-Casting Equipment & Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A9SW (SE)	750	-	378249 407006
246	**Contemporary Trade Directory Entries** Name: Nu-Foam Location: 166-188, Sion Street, Radcliffe, Manchester, M26 3SB Classification: Soft Furnishings - Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SE (S)	752	-	377978 406863
246	**Contemporary Trade Directory Entries** Name: Nu-Foam Location: 166-188, Sion Street, Radcliffe, Manchester, M26 3SB Classification: Soft Furnishings - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SE (S)	752	-	377978 406863
246	**Contemporary Trade Directory Entries** Name: Dotty Brown Location: 166-188, Sion Street, Radcliffe, Manchester, M26 3SB Classification: Soft Furnishings - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SE (S)	752	-	377978 406863
246	**Contemporary Trade Directory Entries** Name: Auto Craft Location: Unit 2 Sion St, Radcliffe, Manchester, M26 3SB Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A8SE (S)	759	-	377952 406846
247	**Contemporary Trade Directory Entries** Name: Awld Bent Sausages Co Location: 67, Warwick Road, Radcliffe, Manchester, M26 4HL Classification: Food Products - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	766	-	377961 408614

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
248	**Contemporary Trade Directory Entries** Name: Powder Coatings (Radcliffe) Ltd Location: Heap Street, Radcliffe, Manchester, M26 2SS Classification: Powder Coatings **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (E)	766	-	378611 407485
249	**Contemporary Trade Directory Entries** Name: R C A Logistics Location: Unit 9, Globe Industrial Estate, Darbyshire Street, Radcliffe, Manchester, M26 2TA Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (E)	770	-	378597 407419
249	**Contemporary Trade Directory Entries** Name: Radcliffe Auto Centre Location: Unit 9, Globe Industrial Estate, Darbyshire Street, Radcliffe, Manchester, Lancashire, M26 2TA Classification: Mot Testing Centres **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (E)	793	-	378620 407415
249	**Contemporary Trade Directory Entries** Name: Van Dealers Ltd Location: Unit 10 Globe Industrial Estate,Darbyshire Street, Radcliffe, Manchester, Greater Manchester, M26 2TA Classification: Commercial Vehicle Dealers **Status: Active** Positional Accuracy: Manually positioned to the address or location	A14SE (E)	804	-	378627 407402
250	**Contemporary Trade Directory Entries** Name: Cleaner Please Location: 36, Mulberry Close, Radcliffe, Manchester, M26 3AR Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	776	-	378181 406938
250	**Contemporary Trade Directory Entries** Name: The Car Clinic Manchester Ltd Location: 136, Sion Street, Radcliffe, Manchester, Lancashire, M26 3SB Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	808	-	378208 406917
251	**Contemporary Trade Directory Entries** Name: James Hesketh & Co Ltd Location: Sion Street, Radcliffe, Manchester, M26 3SB Classification: Engineers - General **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SE (S)	797	-	378022 406833
252	**Contemporary Trade Directory Entries** Name: Deva Composites Location: Sion st, Radcliffe, Manchester, Lancashire, M26 3SF Classification: Glass Fibre Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A9SW (SE)	806	-	378113 406868
252	**Contemporary Trade Directory Entries** Name: Deva Composites Location: Sion Street, Radcliffe, Manchester, M26 3SF Classification: Glass Fibre Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	833	-	378128 406846
252	**Contemporary Trade Directory Entries** Name: B Y C Rollmakers Location: Sion Street, Radcliffe, Manchester, Greater Manchester, M26 3SF Classification: Engineers - General **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A9SW (SE)	833	-	378128 406846
252	**Contemporary Trade Directory Entries** Name: Duo Engineering Services Location: Sion Street, Radcliffe, Manchester, Greater Manchester, M26 3SF Classification: Precision Engineers **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	A9SW (SE)	833	-	378132 406848

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
252	**Contemporary Trade Directory Entries** Name: Cope Engineering Radcliffe Ltd Location: Sion Street, Radcliffe, Manchester, M26 3SF Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	833	-	378128 406846
253	**Contemporary Trade Directory Entries** Name: Progress Motors Location: 369-371, Ainsworth Road, Radcliffe, Manchester, M26 4HF Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NW (N)	812	-	377654 408657
254	**Contemporary Trade Directory Entries** Name: Raymat Quilts & Textiles Location: Bridgefield Street, Radcliffe, Manchester, M26 2SG Classification: Bed & Mattress Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (E)	826	-	378637 407362
254	**Contemporary Trade Directory Entries** Name: Raymat Quilts & Textiles Location: Bridgefield Street, Radcliffe, Manchester, M26 2SG Classification: Textile Manufacturing **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (E)	826	-	378637 407362
254	**Contemporary Trade Directory Entries** Name: Raymat Quilts & Textiles Location: Building Directly North of Albert Iron Works, Bridgefield Street, Radcliffe, M26 2SG Classification: Distribution Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (E)	834	-	378648 407371
255	**Contemporary Trade Directory Entries** Name: K Door Aliminium Ltd Location: Mount Sion Road, Radcliffe, Manchester, M26 3SJ Classification: Aluminium Fabricators **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A8SW (S)	838	-	377668 406724
255	**Contemporary Trade Directory Entries** Name: Decramace Ltd Location: Mount Sion Road, Radcliffe, Manchester, M26 3SJ Classification: Plaster Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A8SW (S)	838	-	377668 406724
256	**Contemporary Trade Directory Entries** Name: D & K Tool Precision Engineers Location: Cobden Street, Radcliffe, MANCHESTER, M26 4HR Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NW (N)	853	-	377616 408690
257	**Contemporary Trade Directory Entries** Name: Optical Glazing Services Location: 42, Blackburn Street, Radcliffe, Manchester, M26 1NQ Classification: Optical Goods - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	867	-	378511 407074
258	**Contemporary Trade Directory Entries** Name: G B Lighting Manufactuer Location: Sion Street, Radcliffe, Manchester, M26 3SB Classification: Lighting Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SW (S)	893	-	378122 406775
259	**Contemporary Trade Directory Entries** Name: County Plastics Ltd Location: 74, Countess Lane, Radcliffe, Manchester, M26 3NH Classification: Recycling Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NW (W)	898	-	376758 407940

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
260	**Contemporary Trade Directory Entries** Name: Electronic Service Centre Location: 31, Blackburn Street, Radcliffe, Manchester, M26 1NR Classification: Electrical goods - servicing & repairs **Status: Active** Positional Accuracy: Automatically positioned to the address	A9SE (SE)	899	-	378504 407019
260	**Contemporary Trade Directory Entries** Name: Brightside Brewing Company Location: Unit 10, Dale Street Industrial Estate, Radcliffe, Manchester, M26 1AD Classification: Brewers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SE (SE)	904	-	378483 406992
260	**Contemporary Trade Directory Entries** Name: Johnson Cleaners (Uk) Ltd Location: 24, Blackburn Street, Radcliffe, Manchester, M26 1NQ Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SE (SE)	911	-	378537 407036
260	**Contemporary Trade Directory Entries** Name: Smile Photo Location: 2, Dale Street, Radcliffe, Manchester, M26 1AB Classification: Photographic Processors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SE (SE)	912	-	378507 407003
260	**Contemporary Trade Directory Entries** Name: Gas & Fireplace Centre Location: 1, Dale Street, Radcliffe, Manchester, M26 1AB Classification: Fireplaces & Mantelpieces **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SE (SE)	946	-	378516 406965
260	**Contemporary Trade Directory Entries** Name: Advanced Motorcare Ltd Location: Unit 5, Dale Street Industrial Estate, Radcliffe, Manchester, M26 1AD Classification: Mot Testing Centres **Status: Active** Positional Accuracy: Automatically positioned to the address	A9SE (SE)	948	-	378510 406957
261	**Contemporary Trade Directory Entries** Name: Building Chemical Research Location: Mount Sion Road, Radcliffe, Manchester, M26 3SJ Classification: Chemicals - Distributors & Wholesalers **Status: Active** Positional Accuracy: Automatically positioned to the address	A3NW (S)	900	-	377621 406664
261	**Contemporary Trade Directory Entries** Name: Radcliffe Breakers Location: Nursery Works, Mount Sion Road, Radcliffe, M26 3SJ Classification: Car Breakers & Dismantlers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A3NW (S)	919	-	377599 406648
261	**Contemporary Trade Directory Entries** Name: A & S Motors Location: Garage, Nursery Works, Mount Sion Road, Radcliffe, M26 3SJ Classification: Mechanical Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A3NW (S)	919	-	377599 406648
261	**Contemporary Trade Directory Entries** Name: V A S S North West Ltd Location: Mount Sion Road, Radcliffe, Manchester, M26 3SJ Classification: Car Breakers & Dismantlers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A3NW (S)	934	-	377616 406631
262	**Contemporary Trade Directory Entries** Name: G & G Products Ltd Location: Sunnybank Mill, Cams Lane, Radcliffe, Manchester, M26 3SW Classification: Plastics - Vacuum Forming **Status: Active** Positional Accuracy: Automatically positioned to the address	A7SE (S)	907	-	377372 406715
263	**Contemporary Trade Directory Entries** Name: Must Have Ltd Location: Unit 14, Dale Street Industrial Estate, Radcliffe, Manchester, M26 1AD Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	909	-	378235 406816

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
263	**Contemporary Trade Directory Entries** Name: The Hire Business Location: Unit 14-16, Dale Street Industrial Estate, Radcliffe, Manchester, M26 1AD Classification: Office Furniture & Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	909	-	378235 406816
263	**Contemporary Trade Directory Entries** Name: Fleet Controller Installations Location: Unit 14/16, Dale Street Industrial Estate, Radcliffe, Manchester, Lancashire, M26 1AD Classification: Commercial Vehicle Component Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	922	-	378223 406795
264	**Contemporary Trade Directory Entries** Name: Globe Motor Services Location: 7 Bridgefield St, Radcliffe, Manchester, Lancashire, M26 2SG Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A9NE (SE)	914	-	378694 407270
264	**Contemporary Trade Directory Entries** Name: Nigel Crompton Vehicle Repairs Location: Unit 7 Globe House,Bridgefield Street, Radcliffe, Manchester, Greater Manchester, M26 2SG Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A9NE (SE)	939	-	378712 407250
265	**Contemporary Trade Directory Entries** Name: F G E Distribution Location: Unit 1,Mount Sion Rd, Radcliffe, Manchester, Lancashire, M26 3SJ Classification: Distribution Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A3NW (S)	921	-	377565 406650
265	**Contemporary Trade Directory Entries** Name: Radcliffe Car Breakers Location: Sion Street, Radcliffe, Manchester, M26 3SB Classification: Car Breakers & Dismantlers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A3NW (S)	937	-	377569 406634
266	**Contemporary Trade Directory Entries** Name: Steelow (Uk) Ltd Location: Bridgefield Street, Radcliffe, Manchester, M26 2SG Classification: Wrought Ironwork **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	924	-	378677 407212
266	**Contemporary Trade Directory Entries** Name: Raptech Location: Bridgefield Street, Radcliffe, Manchester, M26 2SG Classification: Engineers - General **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	924	-	378678 407213
267	**Contemporary Trade Directory Entries** Name: L H Cassidy Sewing Machine Engineers Ltd Location: Ainsworth Road, Radcliffe, Manchester, M26 4AD Classification: Sewing Machines - Industrial **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	A23SW (N)	941	-	377636 408785
267	**Contemporary Trade Directory Entries** Name: Lk Industrial Covers Location: Constellation Mill, Ainsworth Road, Radcliffe, Manchester, M26 4AD Classification: Tarpaulins **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A23SW (N)	950	-	377650 408797
267	**Contemporary Trade Directory Entries** Name: Hamer & Perks Location: Constellation Mill, Ainsworth Road, Radcliffe, Manchester, M26 4AD Classification: Road Haulage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A23SW (N)	950	-	377650 408797

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
267	**Contemporary Trade Directory Entries** Name: L H Cassidy Sewing Machinery Engineers Location: Constellation Mill, Ainsworth Road, Radcliffe, Manchester, M26 4AD Classification: Sewing Machines - Industrial **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A23SW (N)	950	-	377650 408797
267	**Contemporary Trade Directory Entries** Name: Leather Suite Designs Location: Constellation Mill, Ainsworth Road, Radcliffe, Manchester, Lancashire, M26 4AD Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A23SW (N)	950	-	377650 408797
267	**Contemporary Trade Directory Entries** Name: P & T Auto Services Location: Constellation Mill, Ainsworth Road, Radcliffe, Manchester, Lancashire, M26 4AD Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A23SW (N)	950	-	377650 408797
267	**Contemporary Trade Directory Entries** Name: Ainsworth Paint Stripping Location: Constellation Mill, Ainsworth Road, Radcliffe, Manchester, M26 4AD Classification: Paint & Varnish Stripping **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A23SW (N)	950	-	377650 408797
267	**Contemporary Trade Directory Entries** Name: Cassidy Sewing Machine Engineers Location: Constellation Mill,Ainsworth Rd, Radcliffe, Manchester, Lancashire, M26 4AD Classification: Sewing Machines - Industrial **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A23SW (N)	950	-	377650 408797
268	**Contemporary Trade Directory Entries** Name: Distinctive Kitchens & Bedrooms Location: Unit 11,Dale St Ind Est, Radcliffe, Manchester, Lancashire, M26 1AD Classification: Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	943	-	378202 406760
268	**Contemporary Trade Directory Entries** Name: Highgrove Fine Furniture Location: Unit 10, Dale Street Industrial Estate, Radcliffe, Manchester, M26 1AD Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	949	-	378196 406750
268	**Contemporary Trade Directory Entries** Name: Shaheen Foods Location: Unit 9, Dale Street Industrial Estate, Radcliffe, Manchester, M26 1AD Classification: Food Products - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	958	-	378190 406737
269	**Contemporary Trade Directory Entries** Name: Harper Fold Fencing Location: Harper Fold Farm, Harper Fold, Radcliffe, Manchester, M26 3TJ Classification: Gate Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NW (SW)	943	-	376811 407168
270	**Contemporary Trade Directory Entries** Name: Rose Marketing Location: 17, Deansgate, Radcliffe, Manchester, M26 2SH Classification: Bottle Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	944	-	378593 407051
270	**Contemporary Trade Directory Entries** Name: L & T Electrical Discount Stores Location: 11, Church Street West, Radcliffe, Manchester, M26 2SP Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	953	-	378616 407065

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
270	**Contemporary Trade Directory Entries** Name: The Paint Shop Location: 8, Church Street West, Radcliffe, Manchester, M26 2SQ Classification: Wallpapers & Wall Coverings **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SE (SE)	989	-	378615 407008
271	**Contemporary Trade Directory Entries** Name: B & C Motors Location: 2 Quarry St, Radcliffe, Manchester, M26 2SN Classification: Car Dealers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A9NE (SE)	951	-	378655 407123
272	**Contemporary Trade Directory Entries** Name: K C Motors Location: Barlow Street, Radcliffe, Manchester, M26 2SU Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NE (E)	953	-	378760 407330
272	**Contemporary Trade Directory Entries** Name: Harrison Sheet Metal Location: 101, Church Street West, Radcliffe, MANCHESTER, M26 2SX Classification: Sheet Metal Work **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NW (E)	962	-	378765 407318
272	**Contemporary Trade Directory Entries** Name: Radcliffe Engineering Services Location: 101, Church Street West, Radcliffe, Manchester, Lancashire, M26 2SX Classification: Engineering Services **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A10NW (E)	962	-	378765 407318
272	**Contemporary Trade Directory Entries** Name: M B M Garage Services Location: 101, CHURCH STREET WEST, RADCLIFFE, M26 2SX Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A10NW (E)	973	-	378769 407296
272	**Contemporary Trade Directory Entries** Name: Radcliffe Enginnering Services Location: 101, Church Street West, Radcliffe, Manchester, M26 2SX Classification: Mechanical Engineers **Status: Active** Positional Accuracy: Automatically positioned to the address	A10NW (SE)	977	-	378770 407288
272	**Contemporary Trade Directory Entries** Name: Radcliffe Engineering Services Location: 101, Church Street West, Radcliffe, Manchester, Lancashire, M26 2SX Classification: Materials Handling Equipment **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A10NW (SE)	977	-	378770 407288
272	**Contemporary Trade Directory Entries** Name: Radcliffe Engineering Services Location: 101, Church Street West, Radcliffe, Manchester, M26 2SX Classification: Materials Handling Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NW (SE)	977	-	378770 407288
273	**Contemporary Trade Directory Entries** Name: Hallmark Foods Location: Blackburn st, Radcliffe, Manchester, Lancashire, M26 1NN Classification: Meat - Wholesale **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A9SE (SE)	969	-	378536 406952
274	**Contemporary Trade Directory Entries** Name: Asda Petrol Location: Pilkington Way, Radcliffe, Manchester, M26 3DA Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	972	-	378323 406794
275	**Contemporary Trade Directory Entries** Name: Gmv (North West) Ltd Location: Unit 14,Hardman St, Radcliffe, Manchester, Lancashire, M26 4GY Classification: Trailers & Towing Equipment **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A23SE (N)	974	-	377766 408834

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
276	**Contemporary Trade Directory Entries** Name: O & E S Interiors Location: 48, Stopes Road, Radcliffe, Manchester, M26 3WP Classification: Office Furniture & Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11SE (W)	975	-	376668 407593
277	**Contemporary Trade Directory Entries** Name: M B W Doors Ltd Location: Unit 8,Dale St Ind Est, Radcliffe, Manchester, Lancashire, M26 1AD Classification: Door & Gate Operating Equipment **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	991	-	378284 406750
277	**Contemporary Trade Directory Entries** Name: M B W Doors Location: Unit 8, Dale Street Industrial Estate, Radcliffe, Manchester, Lancashire, M26 1AD Classification: Door Manufacturers - Industrial **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	991	-	378284 406750
277	**Contemporary Trade Directory Entries** Name: Dcp Racing Location: Dale St Ind Est, Radcliffe, Manchester, Lancashire, M26 1AD Classification: Car Engine Tuning & Diagnostic Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A9SW (SE)	999	-	378266 406730
278	**Contemporary Trade Directory Entries** Name: Boss Prestige & Performance Location: Senator House, 7-11, Bury Road, Radcliffe, Manchester, Lancashire, M26 2UG Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (E)	993	-	378849 407539
278	**Contemporary Trade Directory Entries** Name: Kwik Fit - Radcliffe Location: Bury Road, Radcliffe, Manchester, M26 2UG Classification: Tyre Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A15SW (E)	1000	-	378854 407521
278	**Contemporary Trade Directory Entries** Name: Dean Smith Car Sales Location: Pine Street Garage, 6, Pine Street, Radcliffe, Manchester, M26 2UW Classification: Car Dealers - Used **Status: Active** Positional Accuracy: Automatically positioned to the address	A15SW (E)	1000	-	378849 407488
278	**Contemporary Trade Directory Entries** Name: Radcliffe Service Station Location: Bury Road, Radcliffe, Manchester, M26 2UG Classification: Petrol Filling Stations - 24 Hour **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (E)	1000	-	378854 407521
279	**Contemporary Trade Directory Entries** Name: J H & A Unsworth Ltd Location: Sheet Metal Works, 49, Bury Road, Radcliffe, Manchester, M26 2UG Classification: Sheet Metal Work **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (E)	999	-	378860 407698
280	**Fuel Station Entries** Name: Asda Radcliffe Location: Sion Street , Radcliffe , Manchester, Greater Manchester, M26 3 Brand: Asda Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	887	-	378267 406859
280	**Fuel Station Entries** Name: Asda Radcliffe Location: Sion Street , Radcliffe , Manchester, Greater Manchester, M26 3DA Brand: ASDA Premises Type: Hypermarket **Status: Open** Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	887	-	378267 406859

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
281	**Points of Interest - Commercial Services** Name: Car & Commercial Services Location: Unsworth Street, Radcliffe, M26 3FN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (S)	127	8	377761 407451
282	**Points of Interest - Commercial Services** Name: Goldin Motor Services Location: David Goldin, Siddall Street, Radcliffe, M26 4AX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (E)	159	8	378021 407662
282	**Points of Interest - Commercial Services** Name: Goldin David Motor Engineers Location: 10 Siddall Street, Radcliffe, Manchester, M26 4AX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (E)	194	8	378056 407646
283	**Points of Interest - Commercial Services** Name: Knowles Street Garage Location: 128 Knowles Street, Radcliffe, Manchester, M26 4DR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (NE)	186	8	378011 407853
283	**Points of Interest - Commercial Services** Name: Knowles Street Garage Location: 128 Knowles Street, Radcliffe, M26 4DR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (NE)	186	8	378011 407853
284	**Points of Interest - Commercial Services** Name: Ainsworth Road Garage Location: 4 Ainsworth Road, Radcliffe, M26 4DJ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	265	8	378087 407508
285	**Points of Interest - Commercial Services** Name: Spanners Motor Services Location: Apex Works, Water Street, Radcliffe, Manchester, M26 3DE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	265	8	377996 407420
285	**Points of Interest - Commercial Services** Name: Spanners Motor Services Location: Apex Works, Water Street, Radcliffe, Manchester, M26 3DE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	265	8	377996 407420
286	**Points of Interest - Commercial Services** Name: Vale Park Towbars Location: 221 Ainsworth Road, Radcliffe, Manchester, M26 4EE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SE (N)	265	8	377804 408126
287	**Points of Interest - Commercial Services** Name: Scorpion Motosport Location: Albert Works, Water Street, Radcliffe, M26 4DF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (E)	409	8	378263 407565
287	**Points of Interest - Commercial Services** Name: Merc Star Location: Albert Works, Water Street, Radcliffe, Manchester, M26 4DF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (E)	410	8	378263 407565
288	**Points of Interest - Commercial Services** Name: Pest Evictors Location: 15 Lord Street, Radcliffe, Manchester, M26 3BA Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A9NW (SE)	439	8	378171 407337

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
288	**Points of Interest - Commercial Services** Name: Stockk Ltd Location: Victoria Works 3, Lord Street, Radcliffe, M26 3BA Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A9NW (SE)	476	8	378239 407358
289	**Points of Interest - Commercial Services** Name: Seddon Street Autos Location: Seddon Street, Radcliffe, Manchester, M26 4TF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (SE)	479	8	378306 407468
289	**Points of Interest - Commercial Services** Name: Seddon Street Autos Location: Seddon Street Autos, Seddon Street, Radcliffe, M26 4TF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (SE)	479	8	378306 407468
289	**Points of Interest - Commercial Services** Name: Ratcliffe Service & Tuning Location: 5 Spring Lane, Radcliffe, Manchester, M26 2TQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (SE)	550	8	378356 407406
290	**Points of Interest - Commercial Services** Name: Phil Swire Woodworking Machines Ltd Location: 2 Northlands, Radcliffe, Manchester, M26 4GB Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A17SE (NW)	515	8	377351 408243
291	**Points of Interest - Commercial Services** Name: A M Auto Location: Unit 2 Windley Works, Wolsey Street, Radcliffe, M26 3BB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NW (SE)	589	8	378238 407195
292	**Points of Interest - Commercial Services** Name: Scrap Yard Location: Not Supplied Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	610	8	377828 406965
293	**Points of Interest - Commercial Services** Name: J B Ashworth Location: 13 Ulundi Street, Radcliffe, Manchester, M26 3AN Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A9NW (SE)	652	8	378163 407070
293	**Points of Interest - Commercial Services** Name: Q V S Mobile Valeting Services Location: 3 Hindle Street, Radcliffe, M26 3AH Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A9NW (SE)	663	8	378238 407103
294	**Points of Interest - Commercial Services** Name: R C A Logistics Location: 9 Darbyshire Street, Radcliffe, M26 2TT Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A9NE (SE)	717	8	378473 407274
295	**Points of Interest - Commercial Services** Name: Nigel Crompton Vehicle Repairs Location: Unit 7 Globe House, Bridgefield Street, Radcliffe, Manchester, M26 2SG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SE (E)	752	8	378574 407405
295	**Points of Interest - Commercial Services** Name: Nrc Motor Services Location: Unit 5 Globe Industrial Estate, Darbyshire Street, Radcliffe, Manchester, M26 2TA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	786	8	378594 407362

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
295	**Points of Interest - Commercial Services** Name: Nrc Motor Services Location: Unit 5 Globe Industrial Estate, Darbyshire Street, Radcliffe, Manchester, M26 2TA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	786	8	378594 407362
295	**Points of Interest - Commercial Services** Name: N Jones Auto Bodies Location: Unit 5 Globe Industrial Estate, Darbyshire Street, Radcliffe, Manchester, M26 2TA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	786	8	378594 407362
295	**Points of Interest - Commercial Services** Name: Raymat Quilts & Textiles Location: Building Directly North of Albert Iron Works, Bridgefield Street, Radcliffe, M26 2SG Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A9NE (E)	834	8	378648 407370
296	**Points of Interest - Commercial Services** Name: Extreme Car Care Location: Unit 2 136a, Sion Street, Radcliffe, M26 3SB Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A9SW (SE)	802	8	378150 406892
296	**Points of Interest - Commercial Services** Name: The Car Clinic Manchester Ltd Location: Andre Dunlop, Sion Street, Radcliffe, M26 3SB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9SW (SE)	808	8	378208 406917
297	**Points of Interest - Commercial Services** Name: Avs MOT Location: 1 Hall Street, Radcliffe, Manchester, M26 4FE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A23SW (N)	884	8	377666 408733
297	**Points of Interest - Commercial Services** Name: Hamer & Perks Location: Unit D Constellation Mill, Ainsworth Road, Radcliffe, Manchester, M26 4AD Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A23SW (N)	950	8	377661 408799
298	**Points of Interest - Commercial Services** Name: County Plastics Ltd Location: 74 Countess Lane, Radcliffe, Manchester, M26 3NH Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A12NW (W)	903	8	376754 407941
298	**Points of Interest - Commercial Services** Name: Auto Keys North Manchester Location: 39 Countess Lane, Radcliffe, M26 3NH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A11NE (W)	926	8	376724 407881
299	**Points of Interest - Commercial Services** Name: Radcliffe Breakers Location: Garage Nursery Works, Mount Sion Road, Radcliffe, M26 3SJ Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A3NW (S)	920	8	377598 406647
299	**Points of Interest - Commercial Services** Name: Radcliffe Motor Bodies Location: Nursery Works, Mount Sion Road, Radcliffe, M26 3SJ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A3NW (S)	935	8	377581 406634

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
299	**Points of Interest - Commercial Services** Name: Radcliffe Car Breakers Location: Sion Street, Radcliffe, Manchester, M26 3SB Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A3NW (S)	937	8	377569 406633
299	**Points of Interest - Commercial Services** Name: Scrap Yard Location: M26 Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A3NW (S)	970	8	377623 406594
299	**Points of Interest - Commercial Services** Name: Scrap Yard Location: Not Supplied Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to an adjacent address or location	A3NW (S)	974	8	377621 406590
300	**Points of Interest - Commercial Services** Name: R Pickford Export & Transport Services Location: 11 Brown Street, Radcliffe, Manchester, M26 4HW Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A23SW (N)	937	8	377568 408765
301	**Points of Interest - Commercial Services** Name: M A D Location: Unit 11, Dale Street Industrial Estate, Radcliffe, Manchester, M26 1AD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9SW (SE)	943	8	378203 406760
301	**Points of Interest - Commercial Services** Name: Dcp Racing Ltd Location: Unit 8, Dale Street Industrial Estate, Radcliffe, Manchester, M26 1AD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9SW (SE)	991	8	378284 406750
302	**Points of Interest - Commercial Services** Name: K C Motors Location: Crook Street, Radcliffe, M26 2SU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (E)	946	8	378755 407336
302	**Points of Interest - Commercial Services** Name: M B M Garage Services Location: M B M Garage Services 101, Church Street West, Radcliffe, M26 2SX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A10NW (E)	972	8	378768 407296
303	**Points of Interest - Commercial Services** Name: J H & A Unsworth Ltd Location: Sheet Metal Works 49, Bury Road, Radcliffe, Manchester, M26 2UG Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A15SW (E)	999	8	378860 407698
303	**Points of Interest - Commercial Services** Name: J H & A Unsworth Ltd Location: 49 Bury Road, Radcliffe, M26 2UG Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A15SW (E)	999	8	378860 407698
304	**Points of Interest - Commercial Services** Name: Kwik-Fit (GB) Limited Location: Kwik Fit Tyres and Exhausts Plc, Pine Street, Radcliffe, M26 2UG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15SW (E)	999	8	378853 407521
304	**Points of Interest - Commercial Services** Name: Kwik-Fit (GB) Limited Location: Bury Road, Radcliffe, Manchester, M26 2UG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15SW (E)	1000	8	378854 407521

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
304	**Points of Interest - Commercial Services** Name: Kwik-Fit (GB) Limited Location: Bury Road, Radcliffe, Manchester, M26 2UG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15SW (E)	1000	8	378854 407521
305	**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	A13SE (SE)	101	8	377906 407558
305	**Points of Interest - Manufacturing and Production** Name: Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	101	8	377906 407558
306	**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	A13SE (S)	110	8	377776 407478
306	**Points of Interest - Manufacturing and Production** Name: Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (S)	110	8	377776 407478
307	**Points of Interest - Manufacturing and Production** Name: Tanks Location: M26 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	177	8	377988 407901
307	**Points of Interest - Manufacturing and Production** Name: Tank Location: M26 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13NE (NE)	179	8	377989 407906
307	**Points of Interest - Manufacturing and Production** Name: Tank Location: M26 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13NE (NE)	185	8	377997 407900
307	**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	A13NE (NE)	218	8	378011 407958
307	**Points of Interest - Manufacturing and Production** Name: Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	219	8	378012 407958
308	**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	A8NE (S)	234	8	377773 407340
308	**Points of Interest - Manufacturing and Production** Name: Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	234	8	377773 407340

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
309	**Points of Interest - Manufacturing and Production** Name: Apex Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	254	8	377990 407429
309	**Points of Interest - Manufacturing and Production** Name: Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	255	8	377990 407428
309	**Points of Interest - Manufacturing and Production** Name: New Fairfield Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NE (SE)	271	8	377923 407373
310	**Points of Interest - Manufacturing and Production** Name: Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	254	8	378025 408004
310	**Points of Interest - Manufacturing and Production** Name: Tank Location: M26 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13NE (NE)	287	8	378069 407995
310	**Points of Interest - Manufacturing and Production** Name: Tanks Location: M26 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	287	8	378069 407995
310	**Points of Interest - Manufacturing and Production** Name: Tank Location: M26 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14NW (NE)	334	8	378114 408011
311	**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	A18SE (NE)	259	8	377920 408098
311	**Points of Interest - Manufacturing and Production** Name: Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18SE (NE)	259	8	377920 408098
312	**Points of Interest - Manufacturing and Production** Name: Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	314	8	377854 407288
312	**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	A8NE (S)	316	8	377859 407289
313	**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	A8NE (SE)	363	8	378015 407319

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
313	**Points of Interest - Manufacturing and Production** Name: Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NE (SE)	363	8	378015 407319
314	**Points of Interest - Manufacturing and Production** Name: Albert Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	429	8	378283 407564
314	**Points of Interest - Manufacturing and Production** Name: Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	430	8	378283 407562
315	**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	A12SE (SW)	467	8	377235 407384
315	**Points of Interest - Manufacturing and Production** Name: Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SE (SW)	467	8	377235 407384
316	**Points of Interest - Manufacturing and Production** Name: Victoria Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	475	8	378246 407368
316	**Points of Interest - Manufacturing and Production** Name: Victoria Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	475	8	378246 407368
317	**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	A8SE (S)	603	8	377953 407015
317	**Points of Interest - Manufacturing and Production** Name: Tank Location: M26 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	607	8	377918 406996
317	**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	A8SE (S)	662	8	377964 406955
318	**Points of Interest - Manufacturing and Production** Name: Windley Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	617	8	378259 407176
318	**Points of Interest - Manufacturing and Production** Name: Windley Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	617	8	378259 407176

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
319	**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	A7NE (SW)	621	8	377180 407195
320	**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	A12SW (SW)	626	8	377052 407410
321	**Points of Interest - Manufacturing and Production** Name: A Stott Location: Coney Green, Radcliffe, Manchester, M26 4ER Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A14NE (NE)	639	8	378429 408037
321	**Points of Interest - Manufacturing and Production** Name: A Stott Location: Coney Green, Radcliffe, Manchester, M26 4ER Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A14NE (NE)	639	8	378429 408037
322	**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	A8SE (S)	710	8	378055 406946
323	**Points of Interest - Manufacturing and Production** Name: Dingle Vale Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	721	8	377828 406852
323	**Points of Interest - Manufacturing and Production** Name: Dingle Vale Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	723	8	377845 406853
324	**Points of Interest - Manufacturing and Production** Name: Globe Industrial Estate Location: M26 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	770	8	378583 407379
324	**Points of Interest - Manufacturing and Production** Name: Globe Industrial Estate Location: M26 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	779	8	378596 407387
324	**Points of Interest - Manufacturing and Production** Name: Albert Iron Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NE (E)	836	8	378642 407346
324	**Points of Interest - Manufacturing and Production** Name: Albert Iron Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A9NE (E)	840	8	378646 407347
325	**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)	773	8	378620 407494

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
326	**Points of Interest - Manufacturing and Production** Name: Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	801	8	378016 406826
326	**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	A8SE (S)	802	8	378023 406828
326	**Points of Interest - Manufacturing and Production** Name: Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	823	8	378053 406819
326	**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	A8SE (S)	824	8	378060 406821
327	**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	A18NW (N)	830	8	377632 408671
327	**Points of Interest - Manufacturing and Production** Name: Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	830	8	377632 408671
328	**Points of Interest - Manufacturing and Production** Name: Air Shaft Location: M26 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	834	8	377137 406945
329	**Points of Interest - Manufacturing and Production** Name: Tank Location: M26 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18NE (N)	836	8	377991 408679
330	**Points of Interest - Manufacturing and Production** Name: Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	837	8	378163 406859
330	**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	A9SW (SE)	838	8	378163 406858
331	**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	A7SE (S)	845	8	377410 406767
331	**Points of Interest - Manufacturing and Production** Name: Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SE (S)	848	8	377405 406766

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
332	**Points of Interest - Manufacturing and Production** Name: Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	845	8	378384 406984
332	**Points of Interest - Manufacturing and Production** Name: Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	849	8	378414 407003
333	**Points of Interest - Manufacturing and Production** Name: Tank Location: M26 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	891	8	377097 408522
333	**Points of Interest - Manufacturing and Production** Name: Tank Location: M26 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	902	8	377087 408528
334	**Points of Interest - Manufacturing and Production** Name: Victoria Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9SW (S)	896	8	378117 406769
334	**Points of Interest - Manufacturing and Production** Name: Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9SW (S)	900	8	378118 406765
335	**Points of Interest - Manufacturing and Production** Name: Willow Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	910	8	378668 407226
336	**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	A3NW (S)	917	8	377606 406649
336	**Points of Interest - Manufacturing and Production** Name: Works Location: M26 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A3NW (S)	917	8	377606 406649
337	**Points of Interest - Manufacturing and Production** Name: Tank Location: M26 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A23SW (N)	954	8	377699 408808
338	**Points of Interest - Manufacturing and Production** Name: Tank Location: M26 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	972	8	378285 406772
338	**Points of Interest - Manufacturing and Production** Name: Dale Industrial Estate Location: M26 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	986	8	378247 406735

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
339	**Points of Interest - Public Infrastructure** Name: Household Waste Recycling Centre Location: M26 Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	315	8	378078 408036
340	**Points of Interest - Public Infrastructure** Name: East Lancashire Crematorium Location: Cemetery Road, Radcliffe, Manchester, M26 4EU Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to address or location	A19SW (NE)	608	8	378257 408279
340	**Points of Interest - Public Infrastructure** Name: Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	693	8	378281 408374
340	**Points of Interest - Public Infrastructure** Name: Cemetery Location: M26 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	699	8	378291 408374
341	**Points of Interest - Public Infrastructure** Name: Chapel of Rest Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	675	8	378494 407412
342	**Points of Interest - Public Infrastructure** Name: East Lancashire Crematorium Location: M26 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to address or location	A19NW (NE)	864	8	378398 408500
343	**Points of Interest - Public Infrastructure** Name: Radcliffe Police Station Location: Police Station, Railway Street, Radcliffe, Manchester, M26 3AA Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A9SE (SE)	879	8	378462 407006
343	**Points of Interest - Public Infrastructure** Name: Bus Station Location: M26 Category: Public Transport, Stations and Infrastructure Class Code: Bus and Coach Stations, Depots and Companies Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	901	8	378410 406933
343	**Points of Interest - Public Infrastructure** Name: Bus Station Location: M26 Category: Public Transport, Stations and Infrastructure Class Code: Bus and Coach Stations, Depots and Companies Positional Accuracy: Positioned to address or location	A9SE (SE)	969	8	378491 406911
344	**Points of Interest - Public Infrastructure** Name: Asda Petrol Location: Riverside Retail Park, Radcliffe, Manchester, M26 3DA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A9SW (SE)	883	8	378265 406862
344	**Points of Interest - Public Infrastructure** Name: Radcliffe Location: Pilkington Way, Radcliffe, Manchester, M26 3DA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A9SW (SE)	887	8	378268 406860
344	**Points of Interest - Public Infrastructure** Name: Asda Radcliffe Location: Sion Street, Radcliffe, Manchester, M26 3DA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A9SW (SE)	887	8	378267 406859

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
345	**Points of Interest - Public Infrastructure** Name: County Plastics Ltd Location: 74 Countess Lane, Radcliffe, Manchester, M26 3NH Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to address or location	A12NW (W)	898	8	376758 407940
346	**Points of Interest - Recreational and Environmental** Name: Playground Location: Nr Allen Street, M26 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13SW (SW)	251	8	377421 407496
346	**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	A12SE (SW)	253	8	377412 407511
346	**Points of Interest - Recreational and Environmental** Name: Playground Location: Nr Allen Street, M26 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13SW (SW)	253	8	377419 407495
347	**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	A18SW (NW)	334	8	377540 408139
347	**Points of Interest - Recreational and Environmental** Name: Play Area Location: Pilkington Road, M26 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18SW (NW)	334	8	377540 408139
348	**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	A9NW (SE)	538	8	378280 407309
348	**Points of Interest - Recreational and Environmental** Name: Playground Location: Abden Street, M26 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	538	8	378280 407310
349	**Points of Interest - Recreational and Environmental** Name: Play Area Location: M26 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	623	8	377662 408465
350	**Points of Interest - Recreational and Environmental** Name: Skateboard Park Location: Mulberry Close, M26 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A9SW (SE)	751	8	378221 406989
351	**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	A9NE (SE)	879	8	378607 407181

Sensitive Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
352	**Areas of Adopted Green Belt** Authority: Bury Metropolitan Borough Council Plan Name: Bury Unitary Development Plan **Status: Adopted** Plan Date: 29th August 1997	A8NW (S)	234	6	377619 407341
353	**Areas of Adopted Green Belt** Authority: Bury Metropolitan Borough Council Plan Name: Bury Unitary Development Plan **Status: Adopted** Plan Date: 29th August 1997	A14NE (E)	589	6	378426 407893

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Environment Agency - Head Office	June 2020	Annually
Salford City Council - Environmental Health Department	October 2017	Annual Rolling Update
Rochdale Metropolitan Borough Council - Environmental Health Department	October 2017	Annually
Bolton Metropolitan Borough Council - Environmental Health Department	September 2017	Annual Rolling Update
Bury Metropolitan Borough Council - Environmental Health Department	September 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - North West Region	April 2023	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - North West Region	March 2013	
Integrated Pollution Controls		
Environment Agency - North West Region	January 2009	
Integrated Pollution Prevention And Control		
Environment Agency - North West Region	January 2023	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Bury Metropolitan Borough Council - Environmental Health Department	February 2015	Variable
Bolton Metropolitan Borough Council - Environmental Health Department	July 2014	Variable
Rochdale Metropolitan Borough Council - Environmental Health Department	July 2014	Variable
Salford City Council - Environmental Health Department	March 2015	Variable
Local Authority Pollution Prevention and Controls		
Bury Metropolitan Borough Council - Environmental Health Department	February 2015	Not Applicable
Rochdale Metropolitan Borough Council - Environmental Health Department	July 2014	Annual Rolling Update
Bolton Metropolitan Borough Council - Environmental Health Department	July 2014	Not Applicable
Salford City Council - Environmental Health Department	March 2015	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Bury Metropolitan Borough Council - Environmental Health Department	February 2015	Variable
Bolton Metropolitan Borough Council - Environmental Health Department	July 2014	Variable
Rochdale Metropolitan Borough Council - Environmental Health Department	July 2014	Variable
Salford City Council - Environmental Health Department	March 2015	Variable
Nearest Surface Water Feature		
Ordnance Survey	April 2023	
Pollution Incidents to Controlled Waters		
Environment Agency - North West Region	January 2000	
Prosecutions Relating to Authorised Processes		
Environment Agency - North West Region	July 2015	
Prosecutions Relating to Controlled Waters		
Environment Agency - North West Region	March 2013	
Registered Radioactive Substances		
Environment Agency - North West Region	June 2016	As notified
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	April 2012	
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	April 2012	
Substantiated Pollution Incident Register		
Environment Agency - North West Region - South Area	April 2023	Quarterly
Water Abstractions		
Environment Agency - North West Region	April 2023	Quarterly
Water Industry Act Referrals		
Environment Agency - North West Region	October 2017	

Data Currency

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	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2023	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2023	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2023	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	February 2023	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	Quarterly
OS Water Network Lines Ordnance Survey	April 2023	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

Data Currency

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites		
Environment Agency - Head Office	March 2023	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - North West Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - North West Region - South Area	January 2023	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - North West Region - South Area	January 2023	Quarterly
Local Authority Landfill Coverage		
Bolton Metropolitan Borough Council	February 2003	Not Applicable
Bury Metropolitan Borough Council	February 2003	Not Applicable
Rochdale Metropolitan Borough Council - Environmental Health Department	February 2003	Not Applicable
Salford City Council - Environmental Health Department	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
Bolton Metropolitan Borough Council	October 2018	
Bury Metropolitan Borough Council	October 2018	
Rochdale Metropolitan Borough Council - Environmental Health Department	October 2018	
Salford City Council - Environmental Health Department	October 2018	
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	
Registered Landfill Sites		
Environment Agency - North West Region - South Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - North West Region - South Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency - North West Region - South Area	June 2015	
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	March 2023	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements		
Bolton Metropolitan Borough Council - Planning Department	February 2016	Variable
Bury Metropolitan Borough Council	February 2016	Variable
Salford City Council	June 2016	Variable
Rochdale Metropolitan Borough Council	May 2023	Variable
Planning Hazardous Substance Consents		
Bolton Metropolitan Borough Council - Planning Department	February 2016	Variable
Bury Metropolitan Borough Council	February 2016	Variable
Rochdale Metropolitan Borough Council	February 2016	Variable
Salford City Council	June 2016	Variable

Data Currency

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	June 2023	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	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	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	September 2022	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	September 2022	Annually

Data Currency

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	April 2023	Quarterly
Fuel Station Entries Catalist Ltd - Experian	June 2023	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	June 2023	Quarterly
Points of Interest - Education and Health PointX	June 2023	Quarterly
Points of Interest - Manufacturing and Production PointX	June 2023	Quarterly
Points of Interest - Public Infrastructure PointX	June 2023	Quarterly
Points of Interest - Recreational and Environmental PointX	June 2023	Quarterly
Underground Electrical Cables National Grid	February 2023	Bi-Annually

Data Currency

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural England	April 2023	Bi-Annually
Areas of Adopted Green Belt		
Bolton Metropolitan Borough Council	July 2022	Quarterly
Bury Metropolitan Borough Council	July 2022	Quarterly
Rochdale Metropolitan Borough Council	July 2022	Quarterly
Salford City Council	July 2022	Quarterly
Areas of Unadopted Green Belt		
Bolton Metropolitan Borough Council	July 2022	Quarterly
Bury Metropolitan Borough Council	July 2022	Quarterly
Rochdale Metropolitan Borough Council	July 2022	Quarterly
Salford City Council	July 2022	Quarterly
Areas of Outstanding Natural Beauty		
Natural England	April 2023	Bi-Annually
Environmentally Sensitive Areas		
Natural England	January 2017	
Forest Parks		
Forestry Commission	May 2023	Not Applicable
Local Nature Reserves		
Natural England	March 2023	Bi-Annually
Marine Nature Reserves		
Natural England	April 2023	Bi-Annually
National Nature Reserves		
Natural England	February 2023	Bi-Annually
National Parks		
Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas		
Natural England	April 2023	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	April 2016	
Environment Agency - Head Office	March 2023	Bi-Annually
Ramsar Sites		
Natural England	March 2023	Bi-Annually
Sites of Special Scientific Interest		
Natural England	March 2023	Bi-Annually
Special Areas of Conservation		
Natural England	April 2023	Bi-Annually
Special Protection Areas		
Natural England	April 2023	Bi-Annually

Data Suppliers

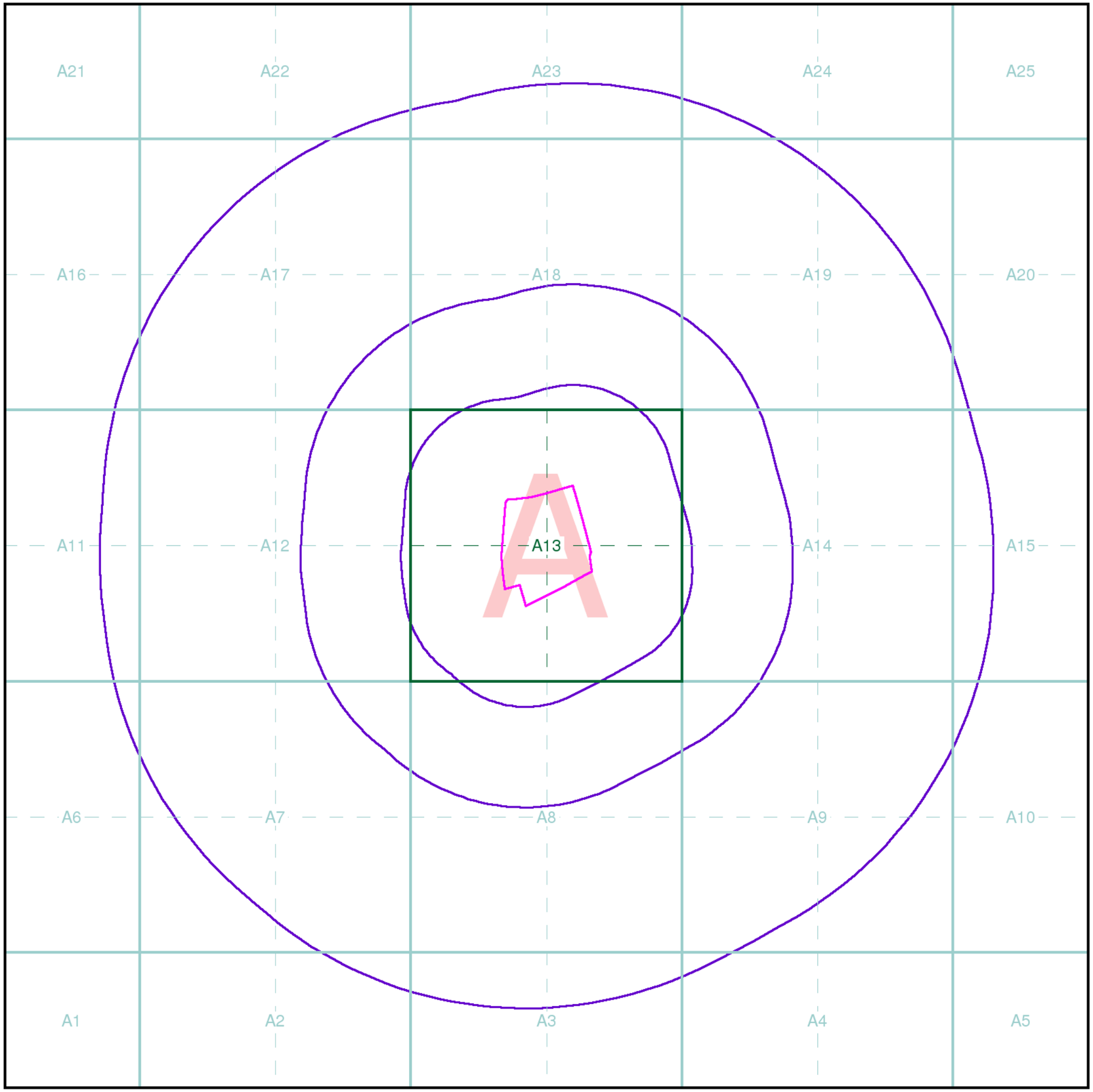
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
Environment Agency	Environment Agency
Scottish Environment Protection Agency	SEPA Scottish Environment Protection Agency
The Coal Authority	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	Cyfoeth Naturiol Cymru Natural Resources Wales
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE
Natural England	NATURAL ENGLAND
Public Health England	Public Health England
Ove Arup	ARUP
Stantec UK Ltd	Stantec

Useful Contacts

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	**Bury Metropolitan Borough Council - Environmental Health Department** 3 Knowsley Place, Duke Street, Bury, Lancashire, BL9 0EJ	Telephone: 0161 253 5000 Fax: 0161 253 5563 Website: www.bury.gov.uk
4	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	**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
7	**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
8	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
10	**Bolton Metropolitan Borough Council** Town Hall, The Wellsprings, Bolton, Lancashire, BL1 1US	Telephone: 01204 522311 Fax: 01204 392808 Website: www.bolton.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.



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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:

Map data

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Environment Agency

NATURAL ENGLAND

Envirocheck reports are compiled from 136 different sources of data.

Client Details

Ms S Ltd, Soiltechnics Limited, Cedar Barn, White Lodge, Walgrave, Northampton, NN6 9PY

Order Details

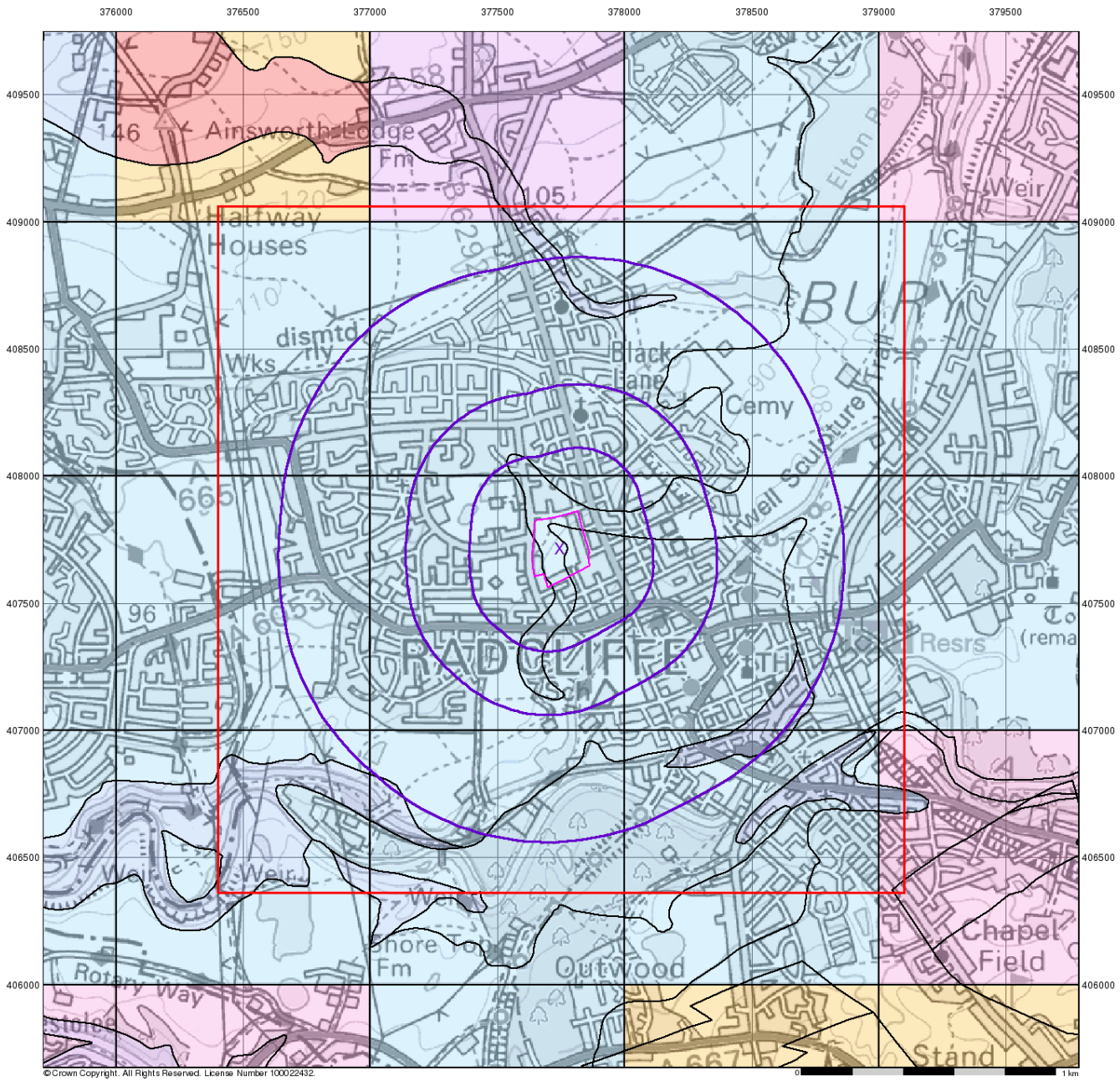
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National Grid Reference:	377740, 407720
Site Area (Ha):	4.89
Search Buffer (m):	1000

Site Details

Redbank Playing Fields, Radcliffe, MANCHESTER, M26 4PB

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

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



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Groundwater Vulnerability

General

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

Slice | Map ID

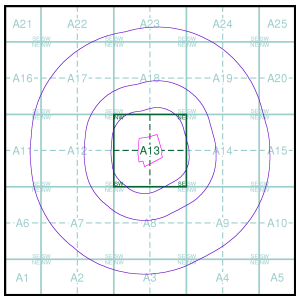
Agency and Hydrological

Bedrock Aquifers	Superficial Aquifers
High Vulnerability, Principal Aquifer	High Vulnerability, Principal Aquifer
High Vulnerability, Secondary Aquifer	High Vulnerability, Secondary Aquifer
Medium Vulnerability, Principal Aquifer	Medium Vulnerability, Principal Aquifer
Medium Vulnerability, Secondary Aquifer	Medium Vulnerability, Secondary Aquifer
Low Vulnerability, Principal Aquifer	Low Vulnerability, Principal Aquifer
Low Vulnerability, Secondary Aquifer	Low Vulnerability, Secondary Aquifer

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

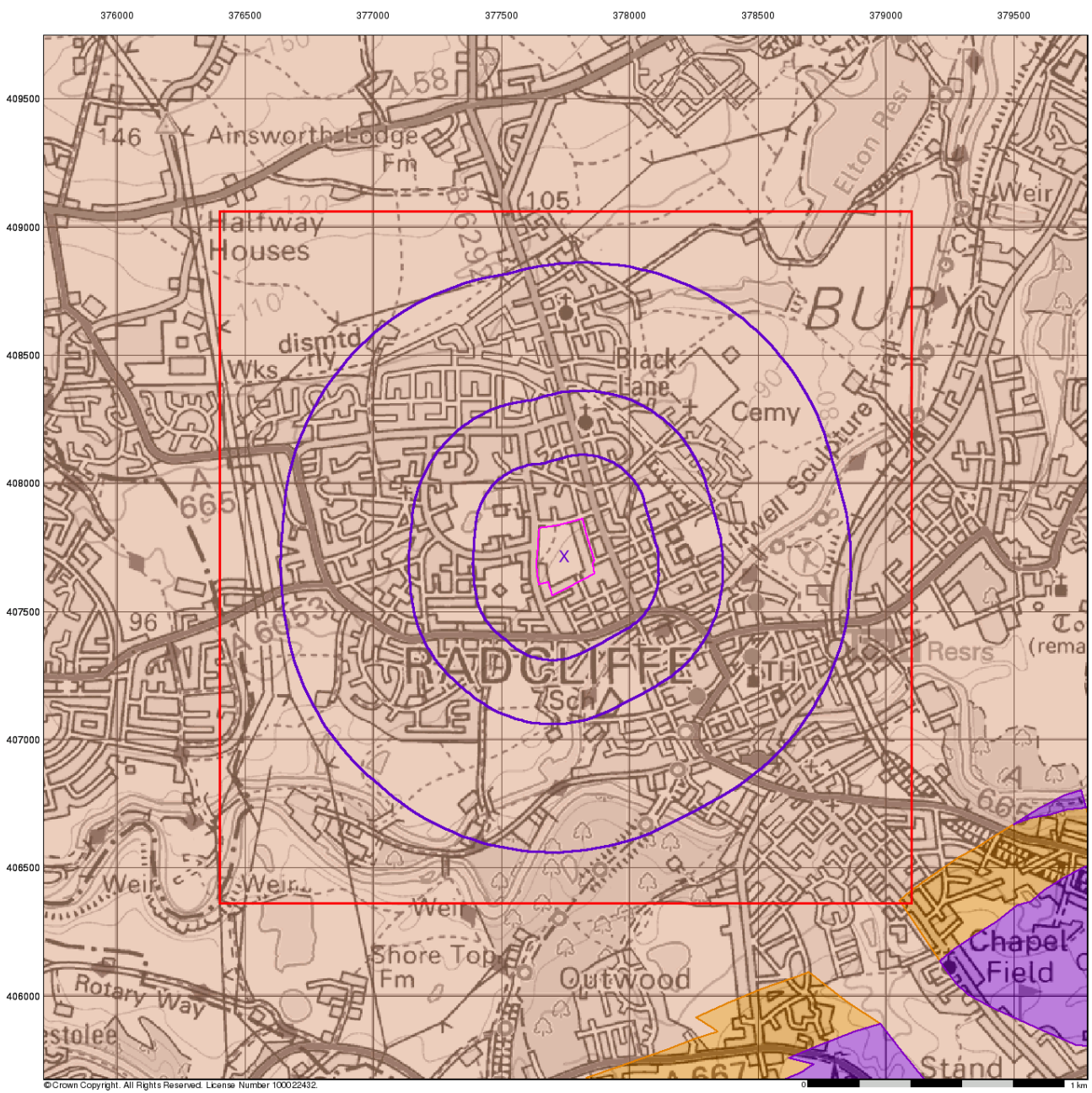
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National Grid Reference:	377740, 407720
Slice:	A
Site Area (Ha):	4.89
Search Buffer (m):	1000

Site Details

Redbank Playing Fields, Radcliffe, MANCHESTER, M26 4PB

Landmark INFORMATION GROUP

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



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Bedrock Aquifer Designation

General

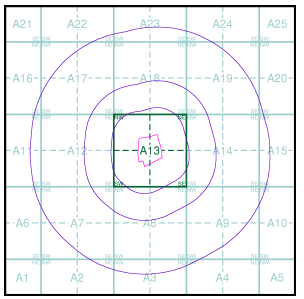
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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

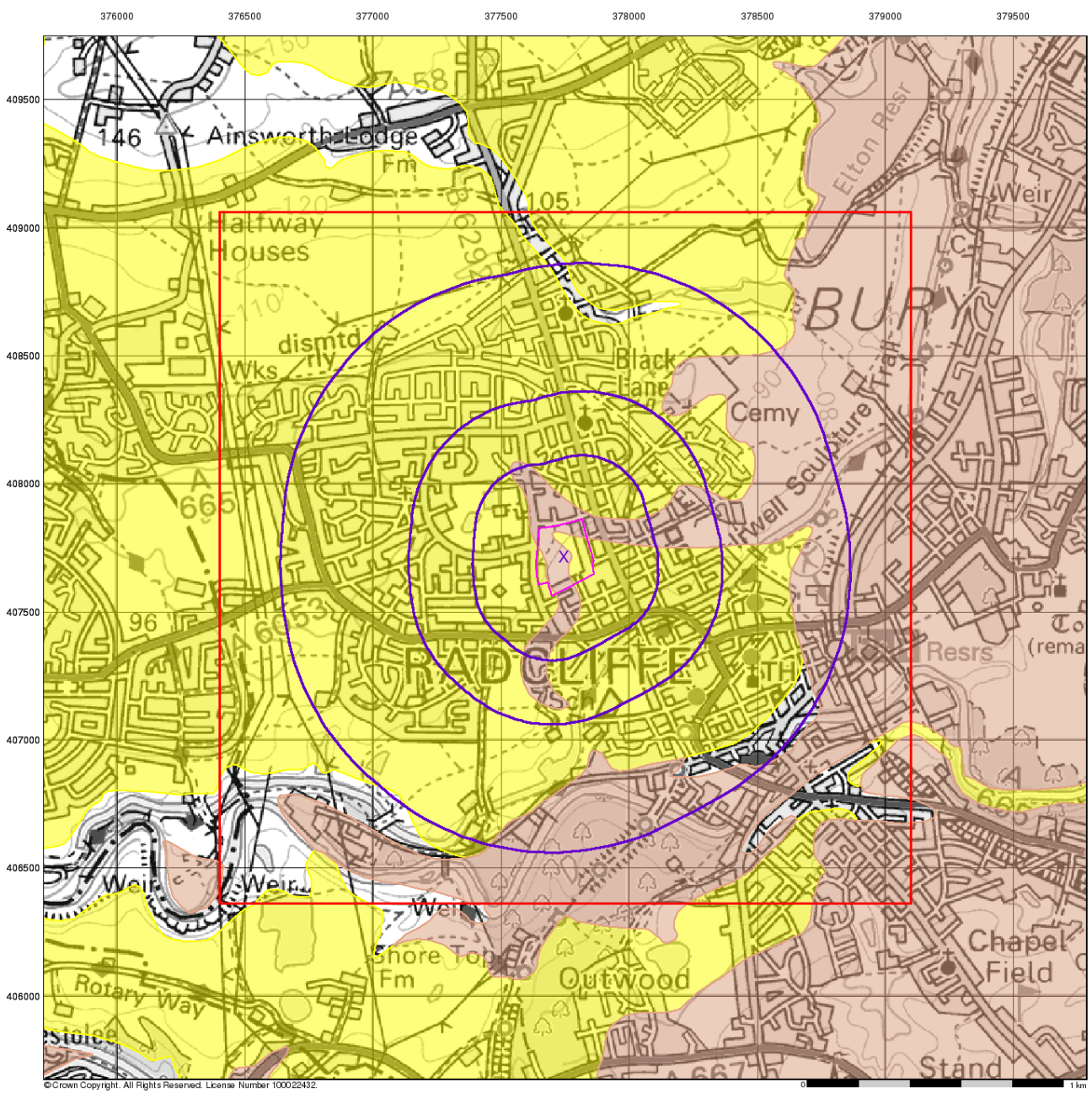
Order Number:	312867682_1_1
Customer Ref:	STV6052
National Grid Reference:	377740, 407720
Slice:	A
Site Area (Ha):	4.89
Search Buffer (m):	1000

Site Details

Redbank Playing Fields, Radcliffe, MANCHESTER, M26 4PB

Landmark INFORMATION GROUP

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Fax: 0844 844 9951
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Superficial Aquifer Designation

General

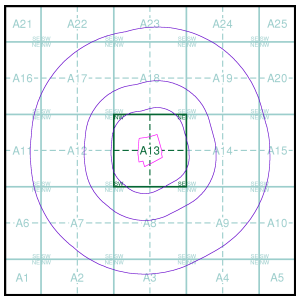
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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

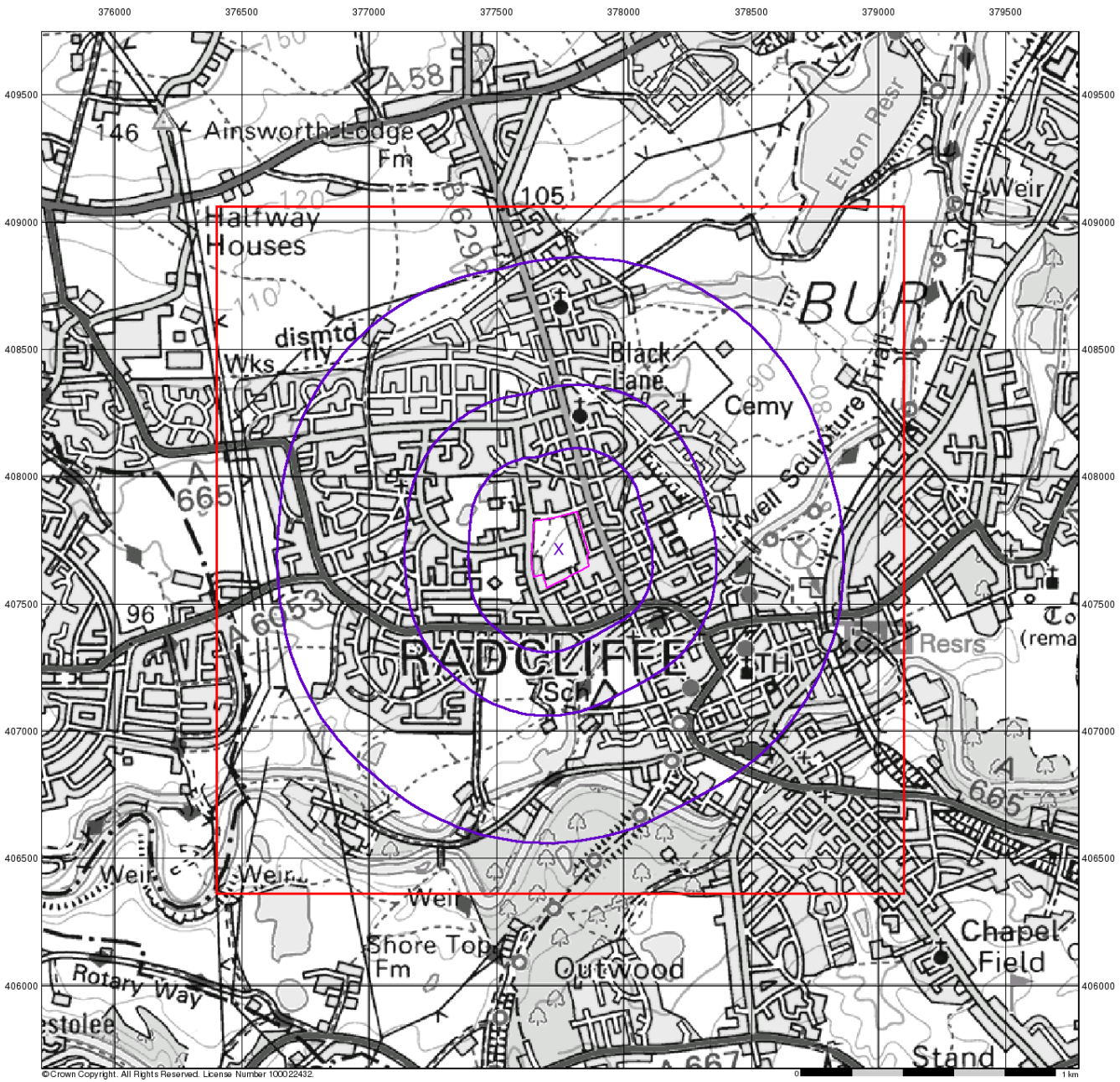


Order Details

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Source Protection Zones

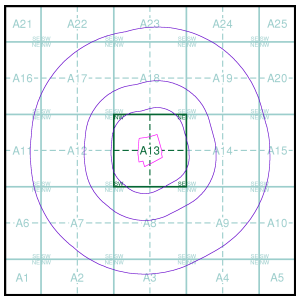
General

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



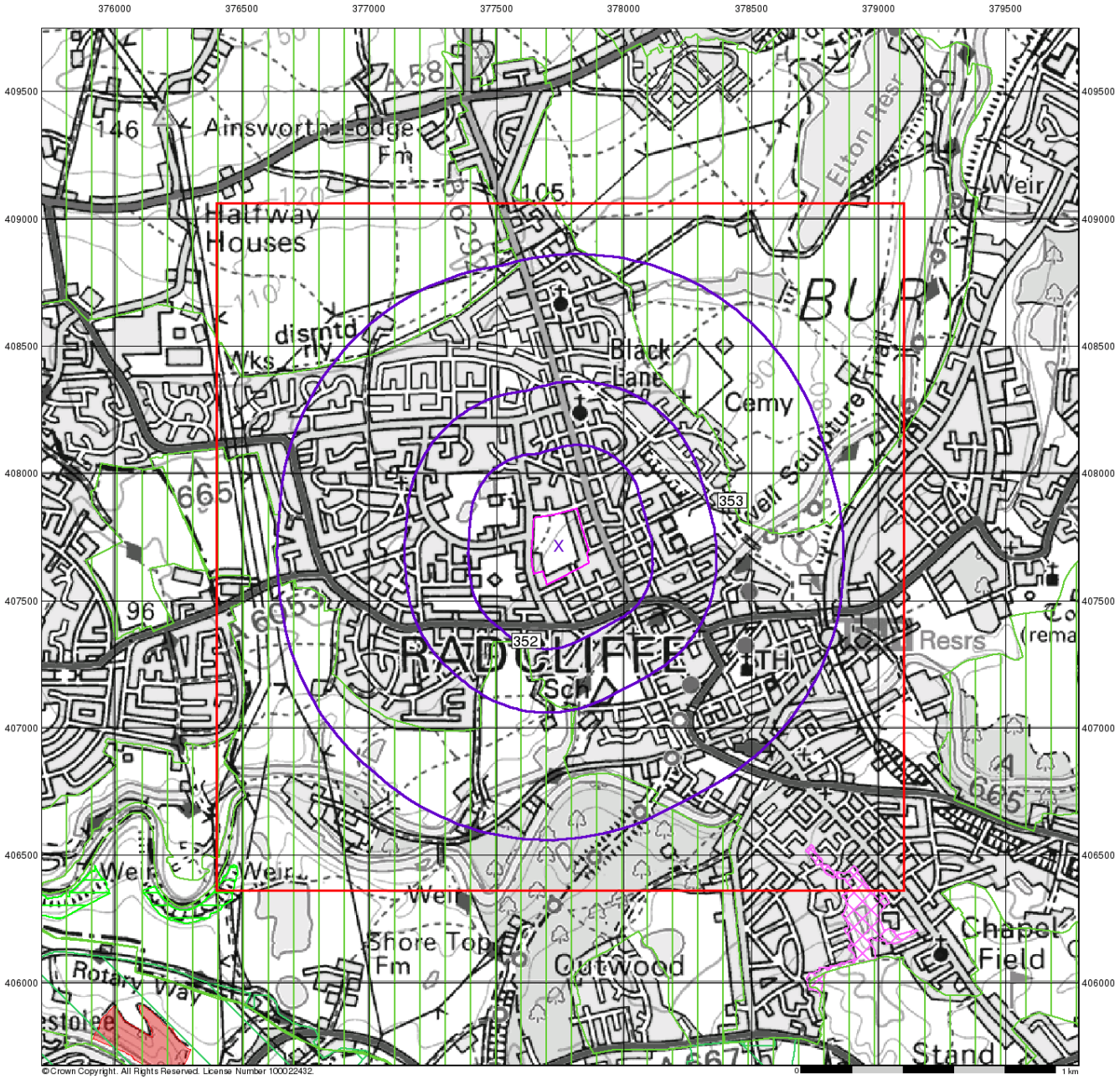
Order Details

Order Number:	312867682_1_1
Customer Ref:	STV6052
National Grid Reference:	377740, 407720
Slice:	A
Site Area (Ha):	4.89
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Sensitive Land Uses

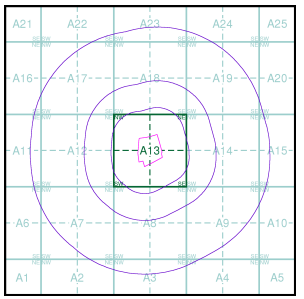
General

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



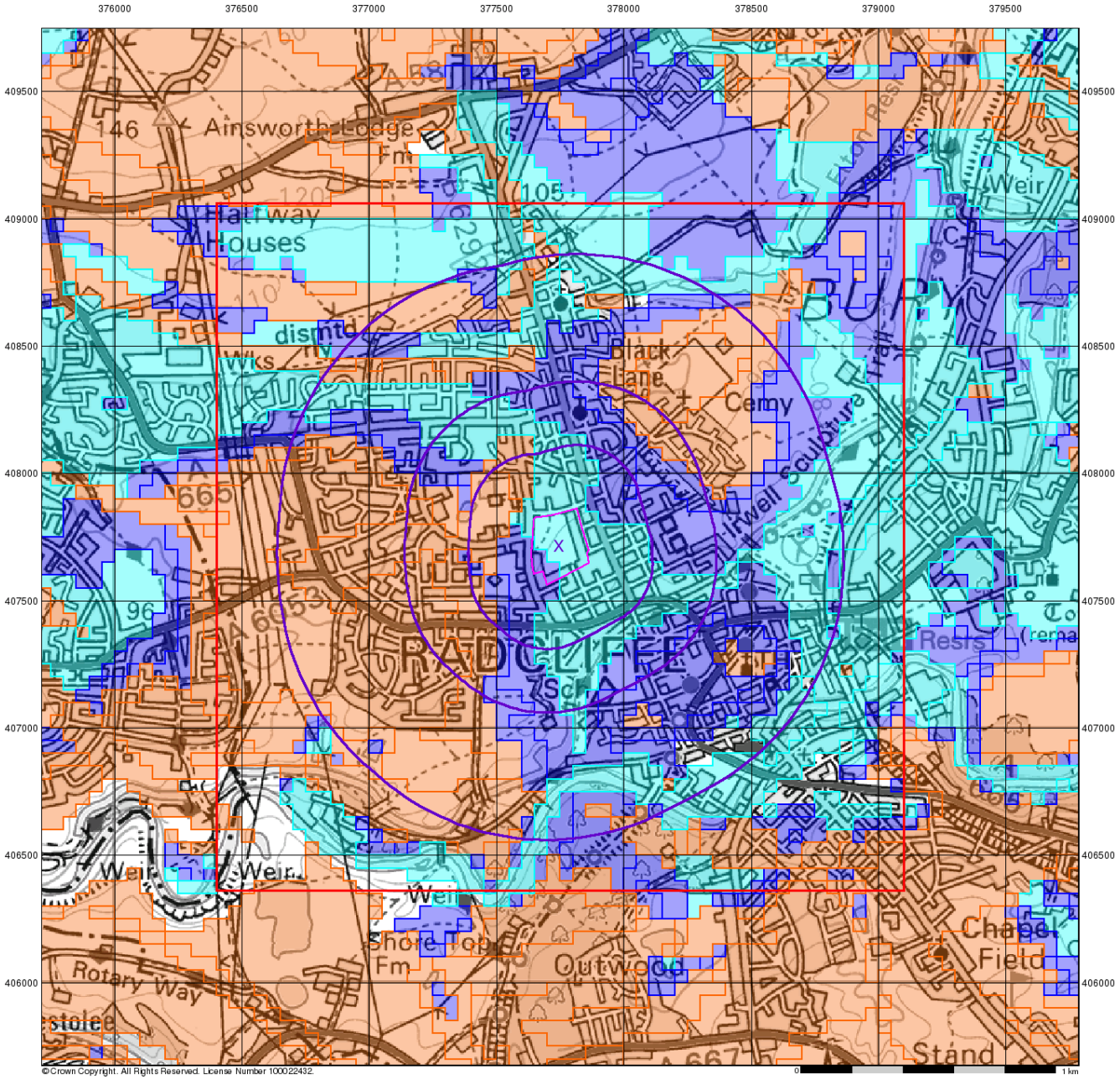
Order Details

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BGS Flood GFS Data

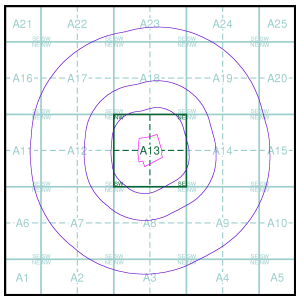
General

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



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Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WGR	Worked Ground (Undivided)	Void	Not Supplied - Holocene
	WMGR	Infilled Ground	Artificial Deposit	Not Supplied - Holocene
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene
	SLIP	Landslide Deposit	Unknown/Unclassified Entry	Not Supplied - Quaternary

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	GLLDD	Glaciolacustrine Deposits, Devensian	Clay and Silt	Not Supplied - Devensian
	GFSDD	Glaciofluvial Sheet Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	RTD1	River Terrace Deposits, 1	Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	CHES	Chester Formation	Sandstone	Not Supplied - Olenekian
	MM	Manchester Marls Formation	Mudstone	Not Supplied - GUADALUPIAN
	CS	Collyhurst Sandstone Formation	Sandstone	Not Supplied - Cisuralian
	NR	Nob End Rock	Sandstone	Not Supplied - Westphalian
	NHSS	Newton Heath Sandstone	Sandstone	Not Supplied - Westphalian
	PUCM	Pennine Upper Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	WDR	Worsley Delf Rock	Sandstone	Not Supplied - Westphalian
	PMCM	Pennine Middle Coal Measures Formation	Mudstone, Siltstone and	Not Supplied - Westphalian
			Sandstone	
	PR	Peel Hall Rock	Sandstone	Not Supplied - Westphalian
	PMCM	Pennine Middle Coal Measures Formation	Sandstone	Not Supplied - Westphalian
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	TRBR	Trencherbone Rock	Sandstone	Not Supplied - Westphalian
	CAR	Cannel Rock (South Lancashire)	Sandstone	Not Supplied - Westphalian
	PLCM	Pennine Lower Coal Measures Formation	Sandstone	Not Supplied - Westphalian
		Faults		
		Rock Segments		

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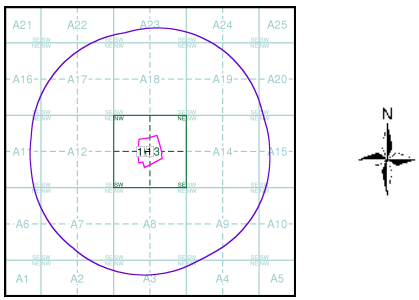
Geology 1:50,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	**1**
Map Sheet No:	**085**
Map Name:	**Manchester**
Map Date:	**2010**
Bedrock Geology:	**Available**
Superficial Geology:	**Not Available**
Artificial Geology:	**Not Available**
Faults:	**Not Supplied**
Landslip:	**Not Available**
Rock Segments:	**Not Supplied**

Geology 1:50,000 Maps - Slice A



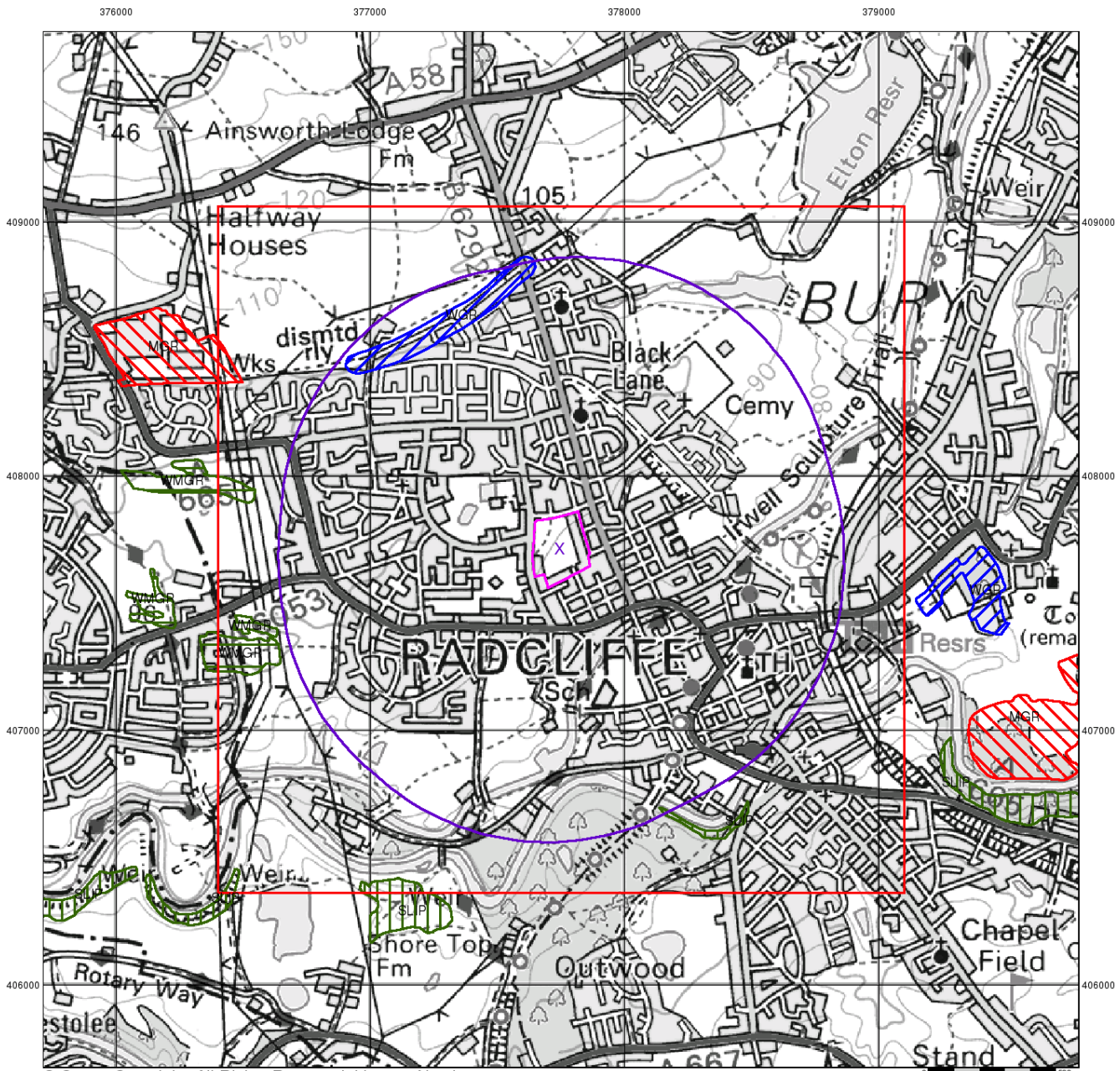
Order Details:

Order Number:	312867682_1_1
Customer Reference:	STV6052
National Grid Reference:	377740, 407720
Slice:	A
Site Area (Ha):	4.89
Search Buffer (m):	1000

Site Details:

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Artificial Ground and Landslip

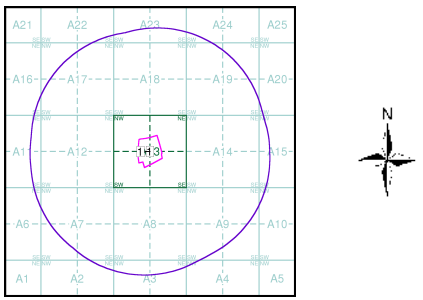
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



Order Details:

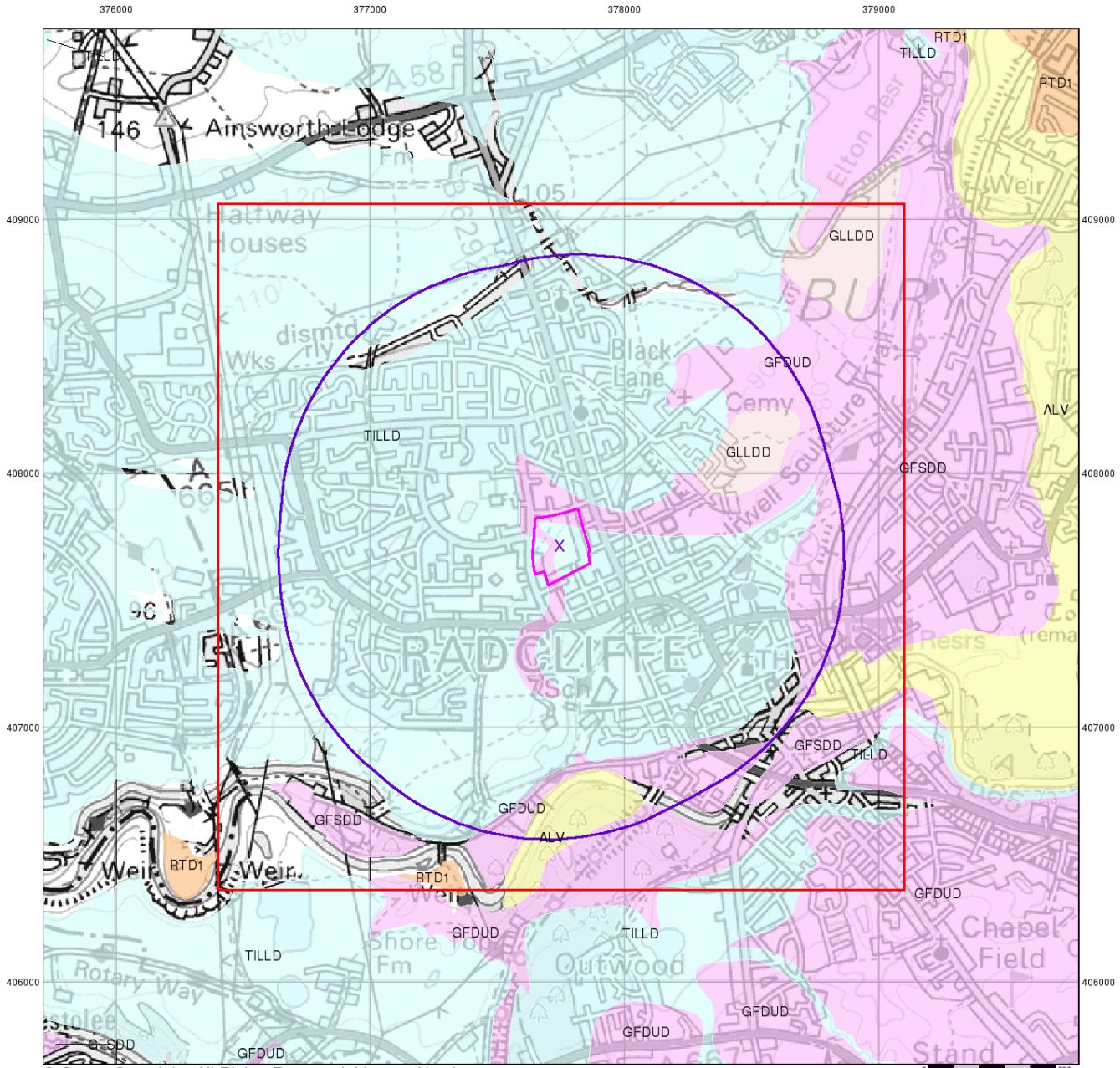
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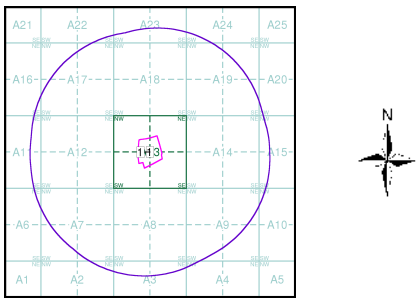
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A



Order Details:

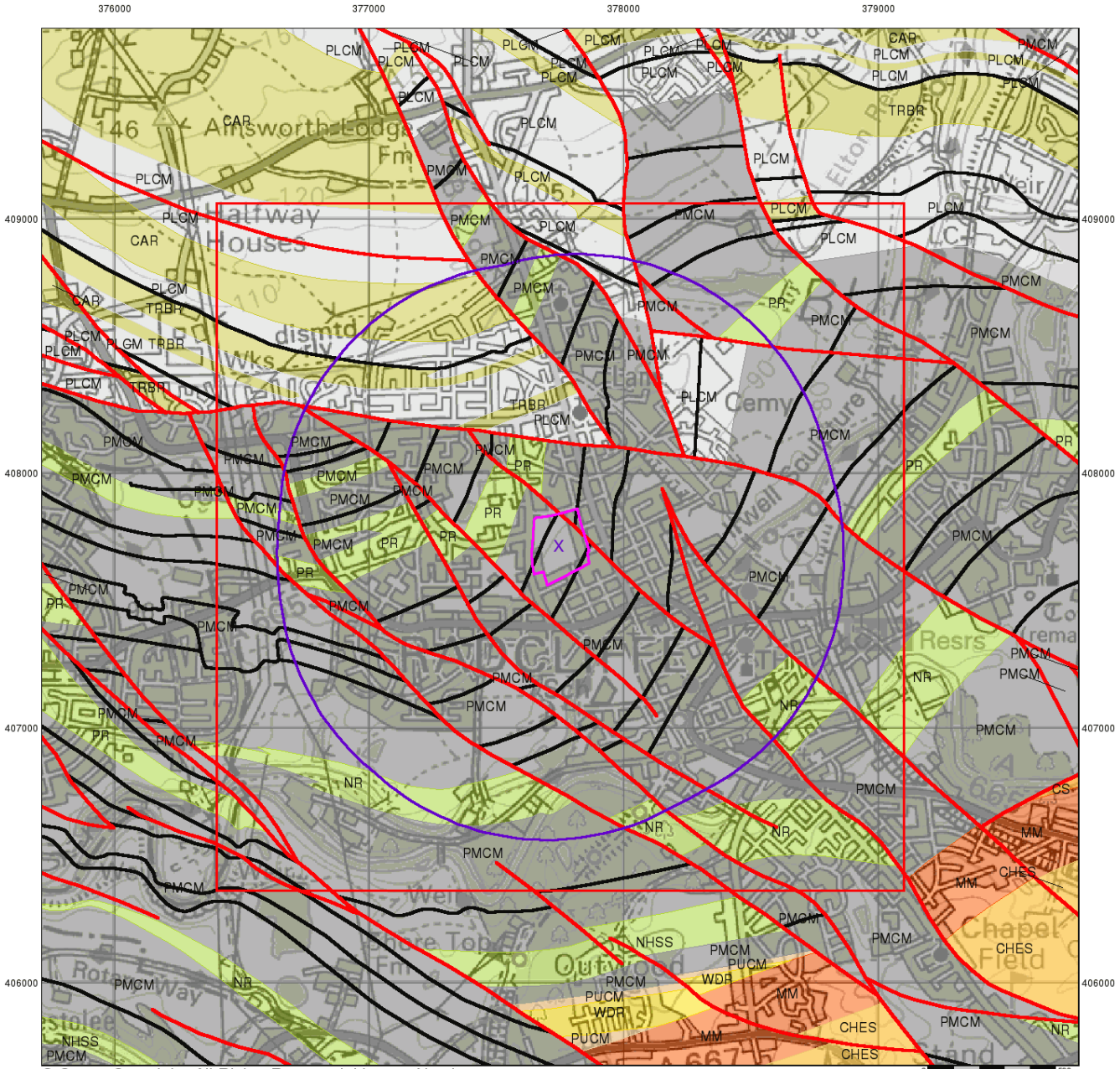
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Customer Reference:	STV6052
National Grid Reference:	377740, 407720
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Bedrock and Faults

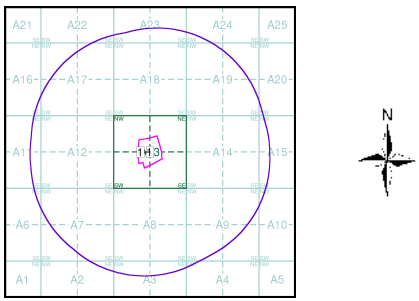
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A



Order Details:

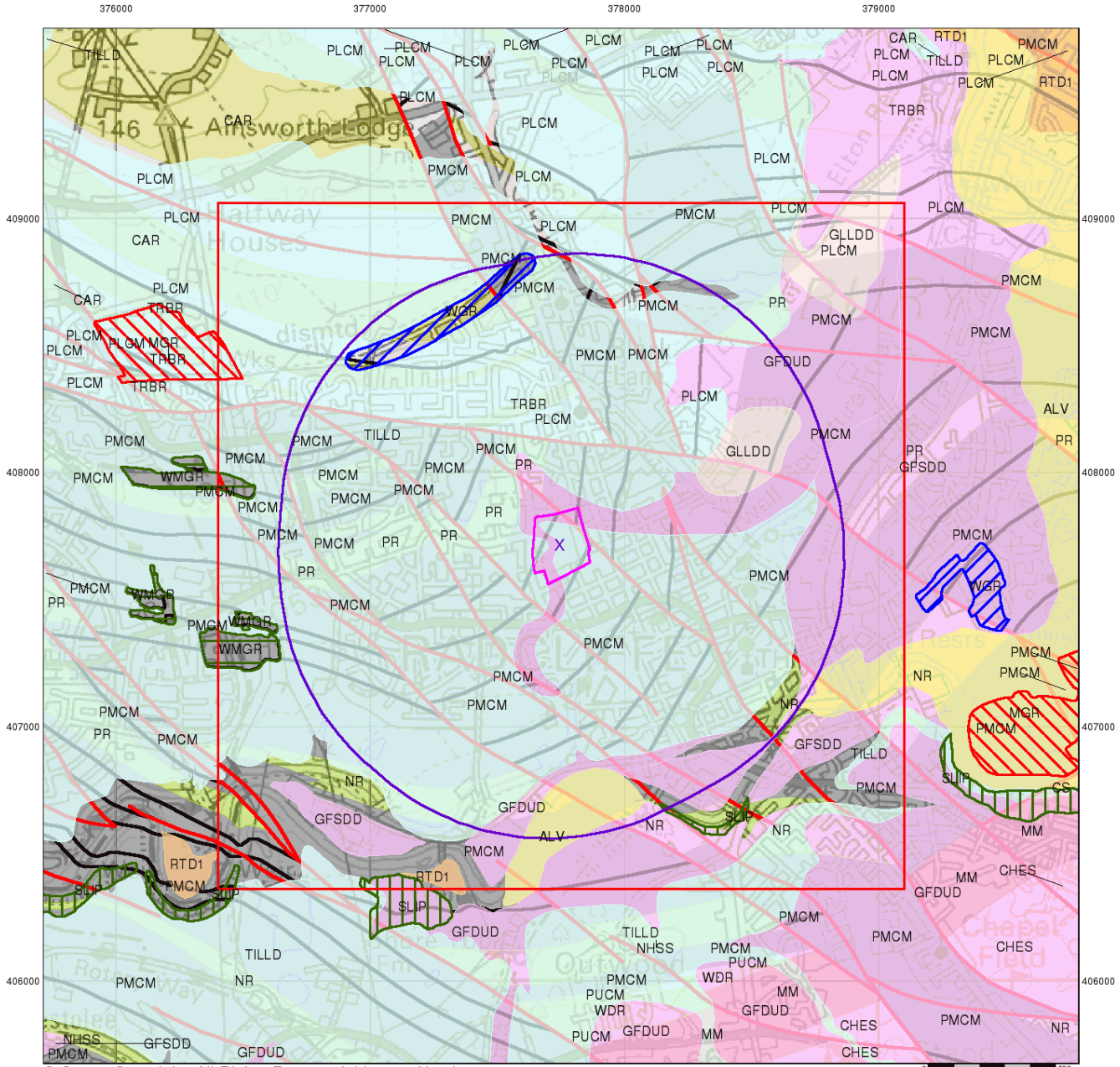
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Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

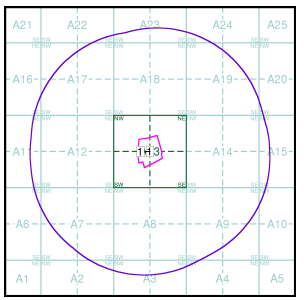
Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

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Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A



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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
·285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Pylon
Electricity Transmission Line
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

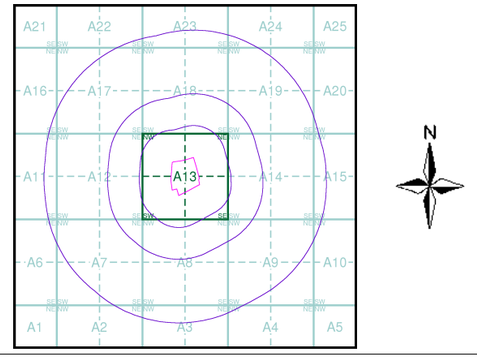
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1850	3
Lancashire And Furness	1:10,560	1894 - 1895	4
Lancashire And Furness	1:10,560	1910 - 1911	5
Lancashire And Furness	1:10,560	1930 - 1931	6
Lancashire And Furness	1:10,560	1938	7
Ordnance Survey Plan	1:10,000	1955	8
Ordnance Survey Plan	1:10,000	1965	9
Manchester	1:25,000	1975	10
Ordnance Survey Plan	1:10,000	1980	11
Ordnance Survey Plan	1:10,000	1989	12
Ordnance Survey Plan	1:10,000	1992	13
10K Raster Mapping	1:10,000	1999	14
10K Raster Mapping	1:10,000	2006	15
VectorMap Local	1:10,000	2023	16

Historical Map - Slice A



Order Details

Order Number: 312867682_1_1
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Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping

a. Not drawn to scale b. Drawn to scale

- Government and Administrative Buildings
- Military and Industrial Buildings
- Military and Communication Areas
- Subway Entrance
- Fireproof Building
- Prominent Fireproof Building
- Non-fireproof Building
- Non-fireproof Building (non-dwelling)
- Factory, mill, and flour mill, with chimneys
- Factory, mill, and flour mill, without chimneys
- Power Station, drawn to scale
- Hydroelectric Power Station
- Radio Station, drawn to scale
- Telephone Station, drawn to scale
- Abandoned Open-pit Mine or Quarry
- Open-pit Salt Mine
- Pit
- Oil Deposit or Well
- Oil Seepage
- Tailings Pile
- Fuel Storage Tanks
- Natural Gas Tank
- Bench Mark
- Drill Hole
- Burial Mound
- Triangulation Point on Burial Mound
- Single-track Railroad
- Double-track Railroad and Station Building
- Coniferous Forest
- Deciduous Forest
- Mixed Forest
- Lawns
- Citrus Orchard
- Wet Ground
- Scattered Vegetation

243,8 Values for prominent elevations

186.0 Numbers for spot elevations, depth soundings, contour lines, etc.

0,2 Velocity of the current, width of river bed, depth of river

Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

Russian Alphabet (For reference and phonetic interpretation of map text)

А а (A)	З з (Z)	П п (P)	Ч ч (CH)
Б б (B)	И и (I)	Р р (R)	Ш ш (SH)
В в (V)	Й й (Y)	С с (S)	Щ щ (SHCH)
Г г (G)	К к (K)	Т т (T)	ъ (–)
Д д (D)	Л л (L)	У у (U)	ы (Y)
Е е (E)	М м (M)	Ф ф (F)	ь (')
Ё ё (YO)	Н н (N)	Х х (KH)	Э э (E)
Ж ж (ZH)	О о (O)	Ц ц (TS)	Ю ю (YU or IU)
			Я я (YA or IA)

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

- Government and Administrative Buildings
- Military and Industrial Buildings
- Military and Communication Areas
- Subway Entrance
- Partly Demolished Buildings
- Demolished Buildings
- Built-Up Area with Fireproof Buildings Predominant
- Built-Up Area with Non-Fireproof Buildings Predominant
- Individual Fireproof Building
- Prominent Industrial Building
- Individual Dwelling, Fireproof
- Ruins of an Individual Dwelling
- Factory or Mill Chimney
- Factory or Mill with Chimney
- Factory or Mill without Chimney
- Mine or Open Pit Mine
- Operating Shaft or Mine
- Non-Operating Shaft or Mine
- Salt Mine
- Tailings Pile
- Pit
- Stone Quarry
- Gas Pump or Service Station
- Fuel Storage or Natural Gas Tank
- Oil or Natural Gas Derrick
- Small Hydroelectric Power Station
- Power Station
- Transformer Station
- Cemetery
- Burial Mound (height in metres)
- Triangulation Point on Burial Mound
- Triangulation Point
- Bench Mark
- Bench Mark (monumented)
- Telegraph Office
- Telephone Station
- Radio Station
- Radio Tower
- Airfield or Seaplane Base
- Landing Strip
- Main Highway
- Highway under Construction
- Improved Dirt Road (former truck road)
- Double-track Railroad with First Class Station
- Dismantled Railroad
- Railroad Under Construction
- Shore Embankment
- River or Ditch with Embankment
- Direction and velocity of current
- Well
- Water Reservoir or Rain Water Pit
- Spring
- Isobath with value
- Heavy (Index) Contour Line
- Contour Line and Value
- Half Contour Line
- Spot Elevation Value
- Coniferous
- Deciduous
- Mixed
- Scrub

Key to Numbers on Mapping

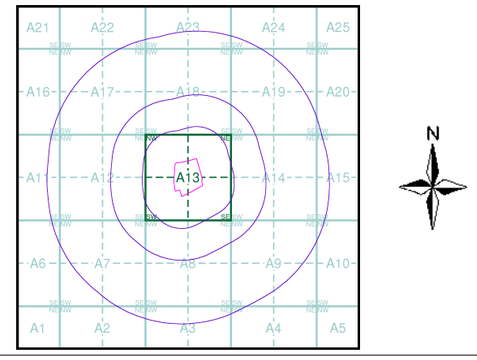
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1850	3
Lancashire And Furness	1:10,560	1894 - 1895	4
Lancashire And Furness	1:10,560	1910 - 1911	5
Lancashire And Furness	1:10,560	1930 - 1931	6
Lancashire And Furness	1:10,560	1938	7
Ordnance Survey Plan	1:10,000	1955	8
Ordnance Survey Plan	1:10,000	1965	9
Manchester	1:25,000	1975	10
Ordnance Survey Plan	1:10,000	1980	11
Ordnance Survey Plan	1:10,000	1989	12
Ordnance Survey Plan	1:10,000	1992	13
10K Raster Mapping	1:10,000	1999	14
10K Raster Mapping	1:10,000	2006	15
VectorMap Local	1:10,000	2023	16

Russian Map - Slice A



Order Details

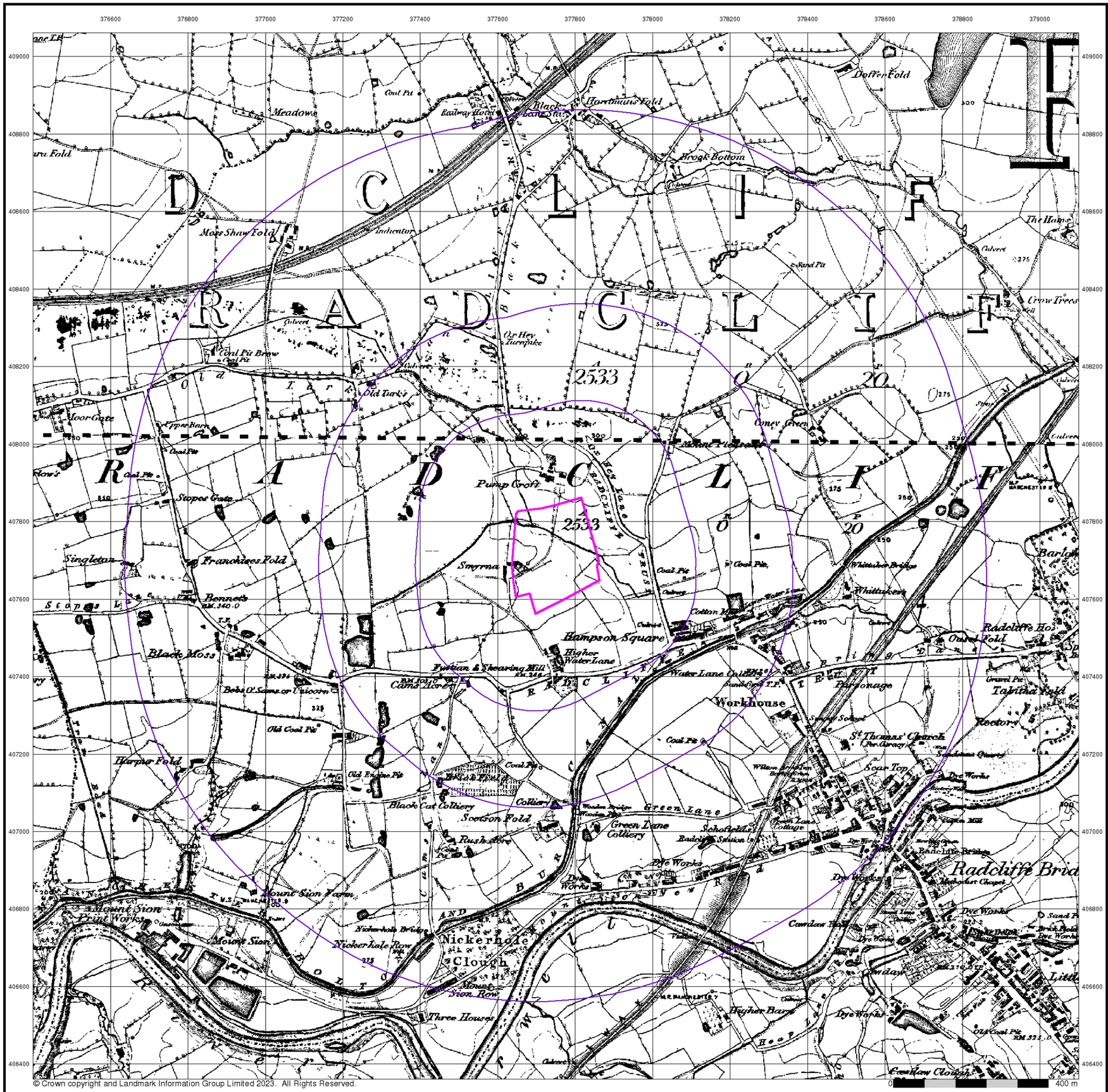
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Search Buffer (m):	1000

Site Details

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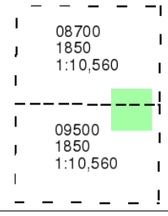
Lancashire And Furness

Published 1850

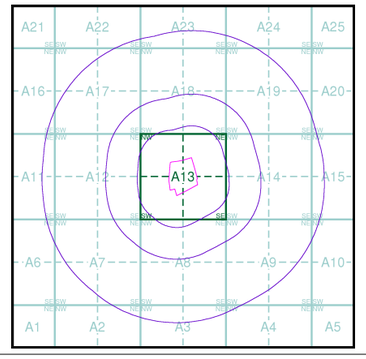
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

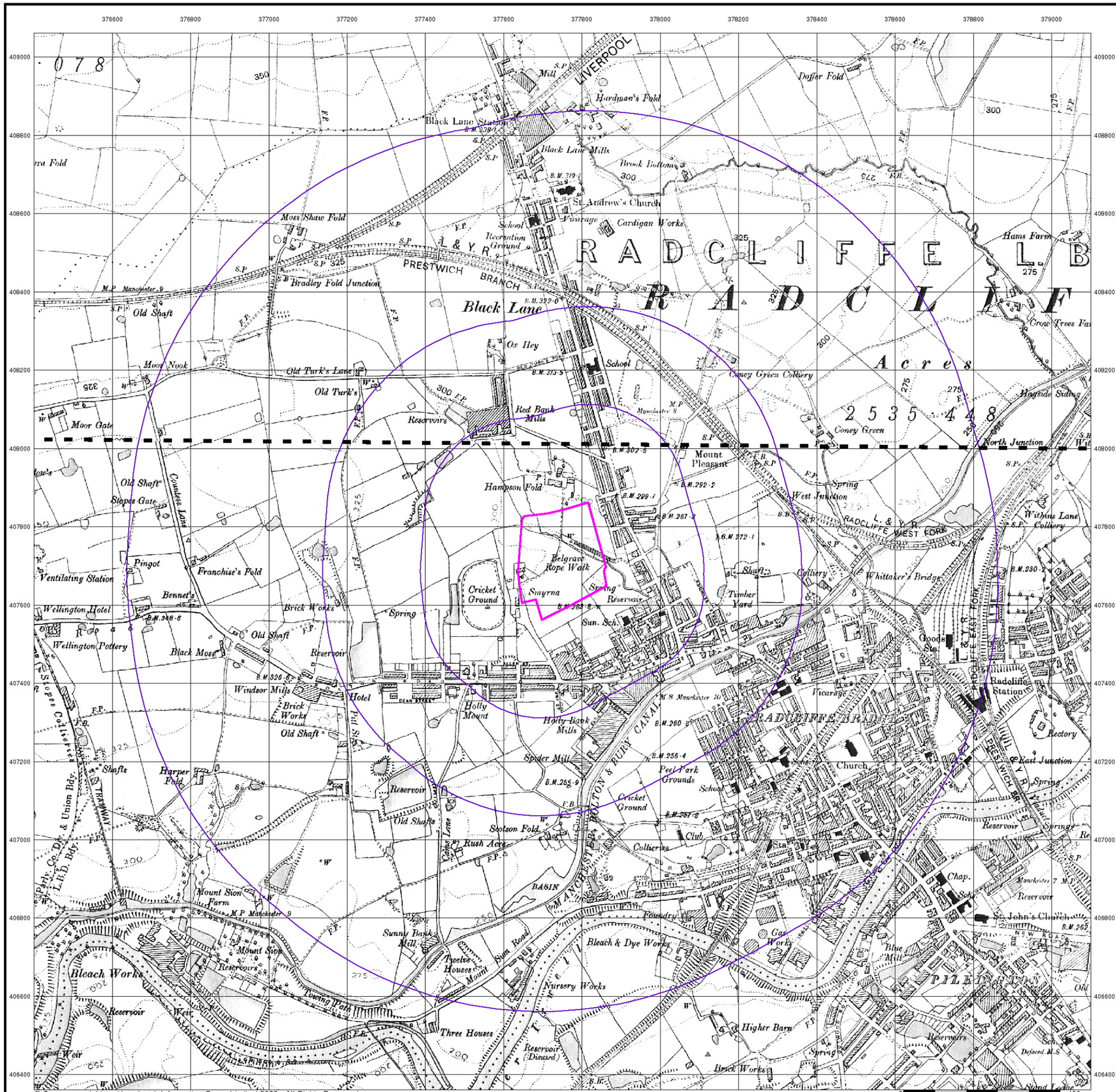
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Lancashire And Furness

Published 1894 - 1895

Source map scale - 1:10,560

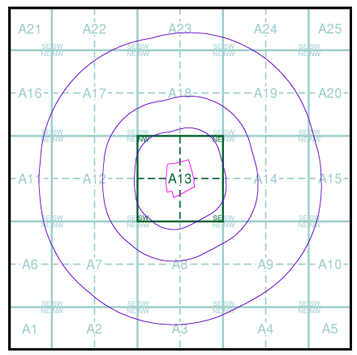
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

087SE
1894
1:10,560

095NE
1895
1:10,560

Historical Map - Slice A



Order Details

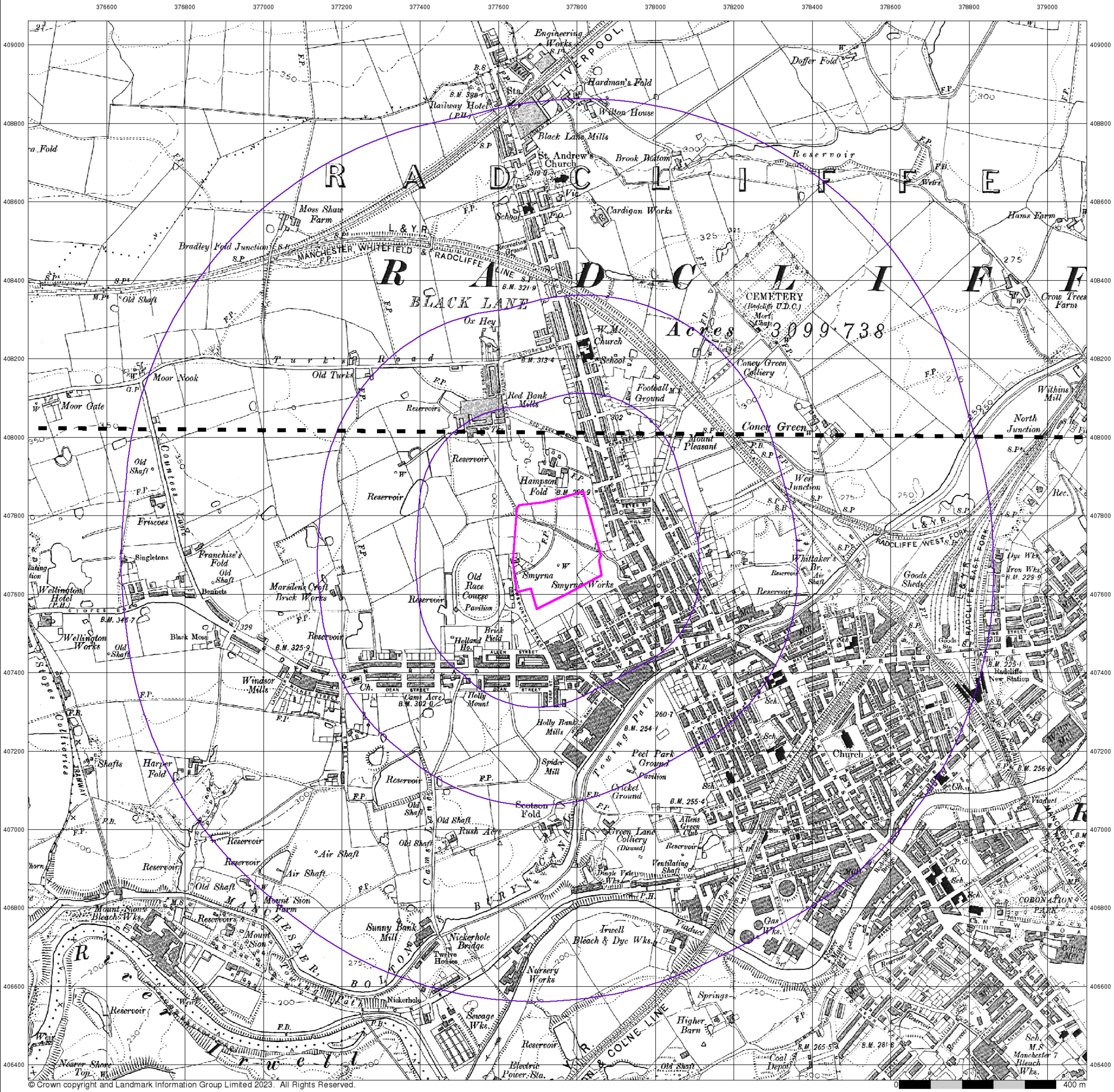
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Slice:	A
Site Area (Ha):	4.89
Search Buffer (m):	1000

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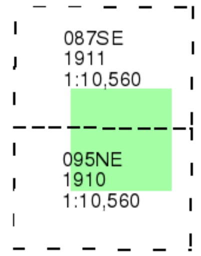
Lancashire And Furness

Published 1910 - 1911

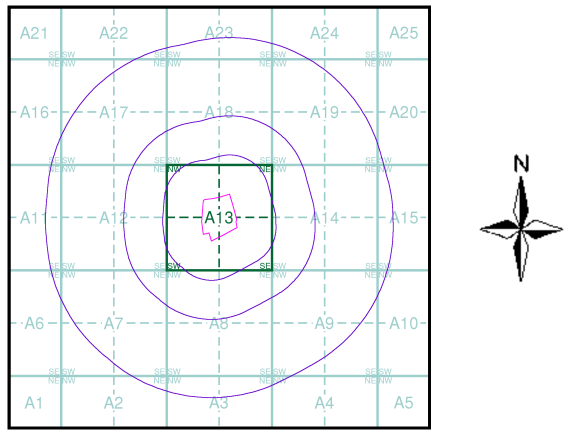
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

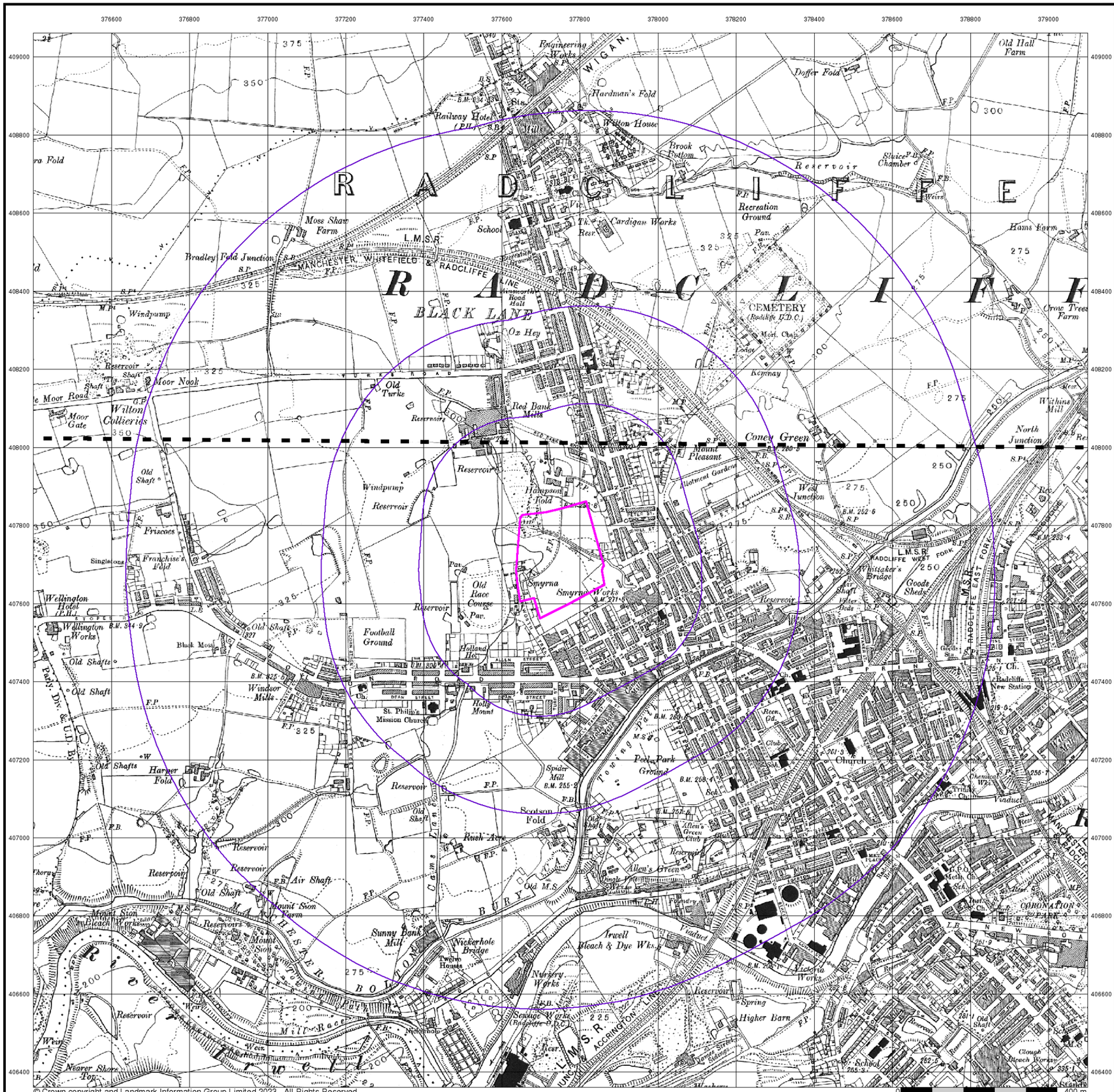
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Lancashire And Furness

Published 1930 - 1931

Source map scale - 1:10,560

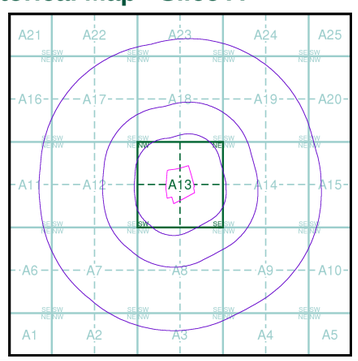
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

087SE
1931
1:10,560

095NE
1930
1:10,560

Historical Map - Slice A



Order Details

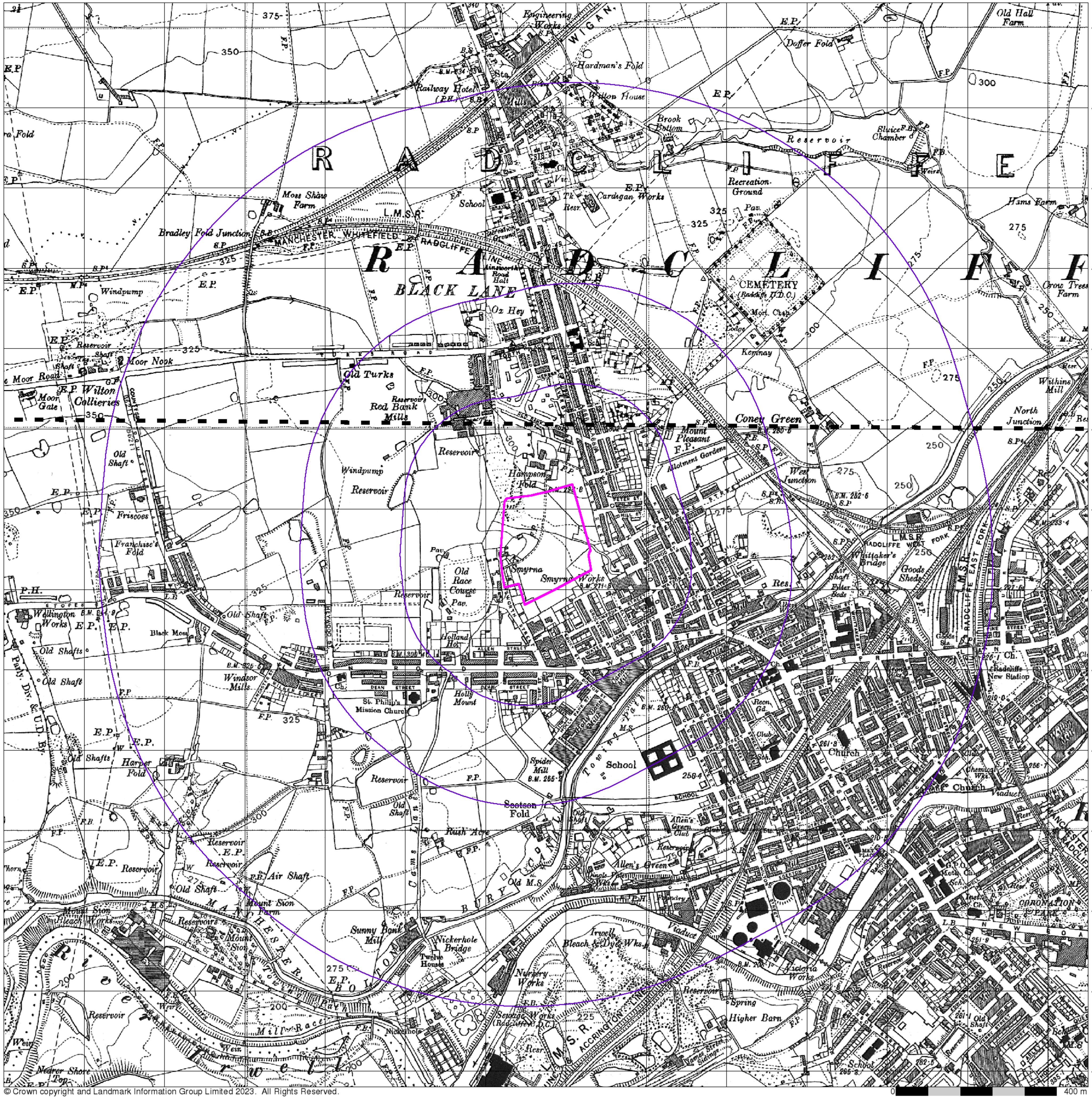
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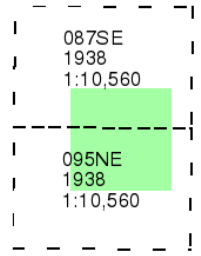
Lancashire And Furness

Published 1938

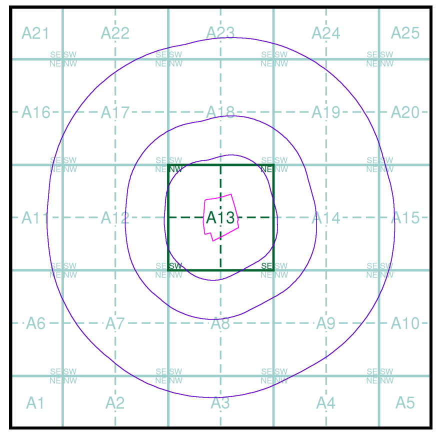
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



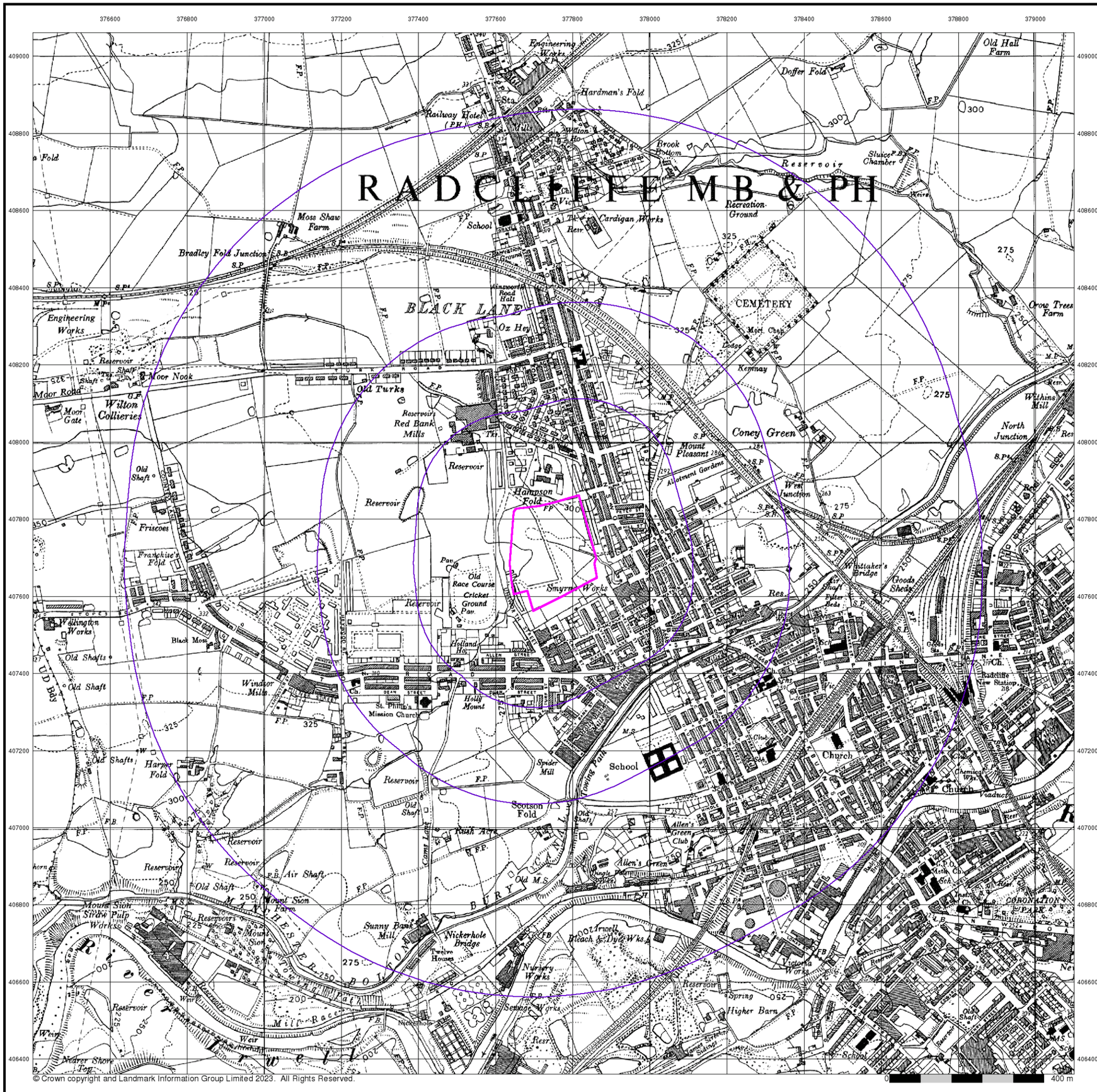
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Ordnance Survey Plan

Published 1955

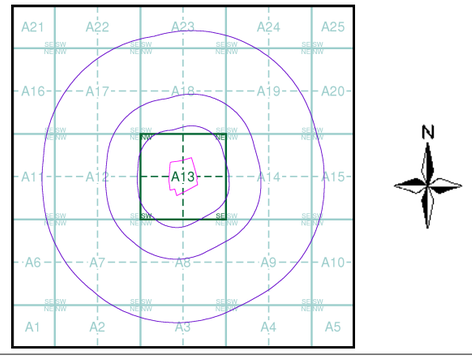
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SD70NE
1955
1:10,560

Historical Map - Slice A



Order Details

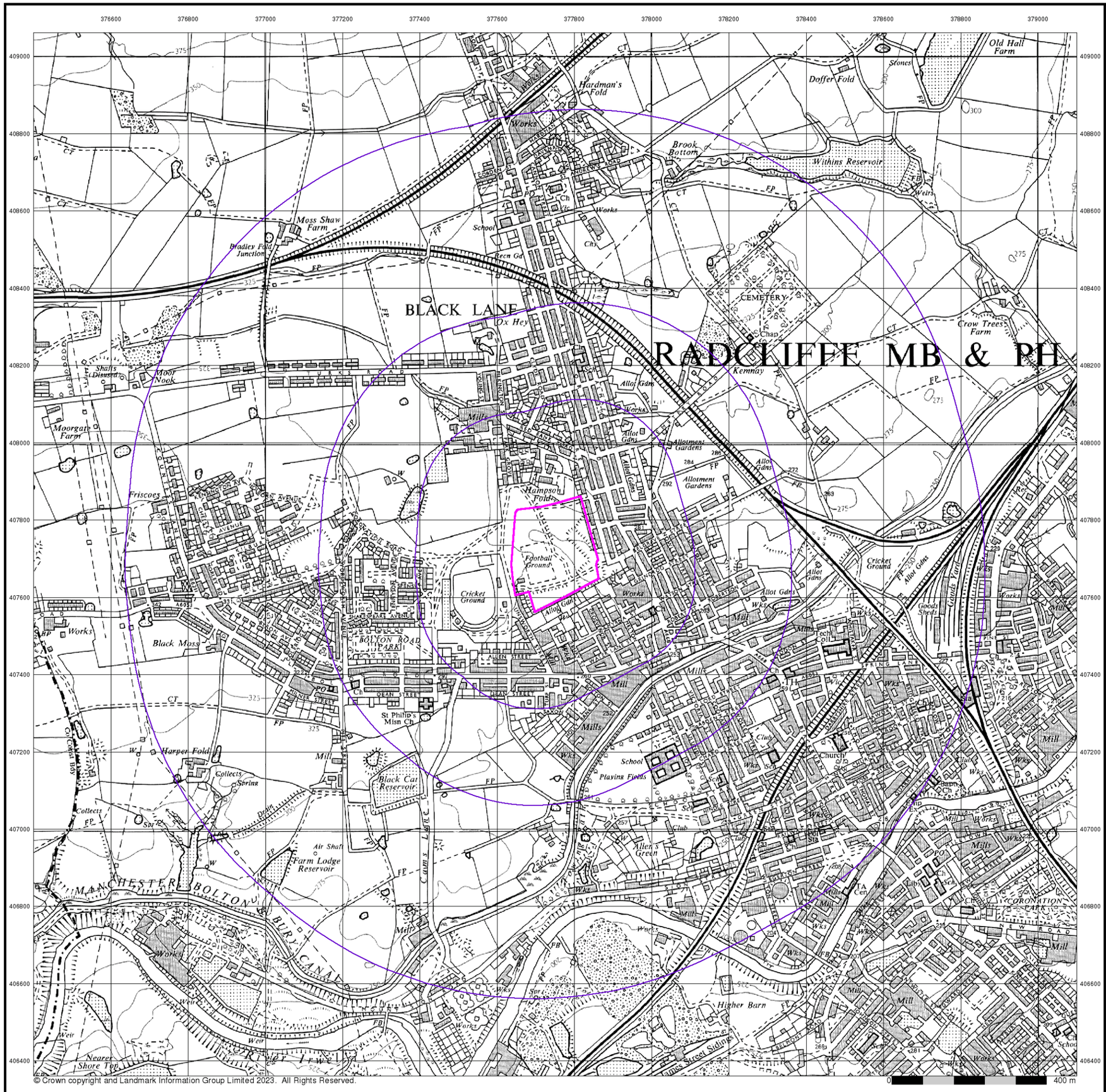
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Ordnance Survey Plan

Published 1965

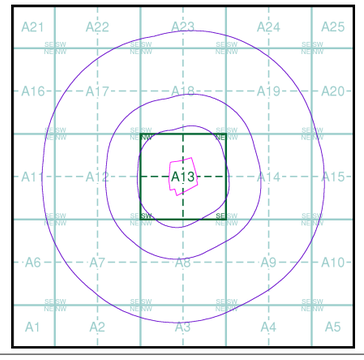
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Map Name(s) and Date(s)

SD70NE
1965
1:10,560

Historical Map - Slice A



Order Details

Order Number:	312867682_1_1
Customer Ref:	STV6052
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Site Area (Ha):	4.89
Search Buffer (m):	1000

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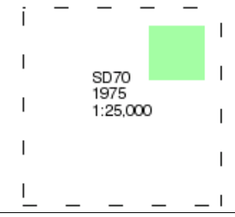
Manchester

Published 1975

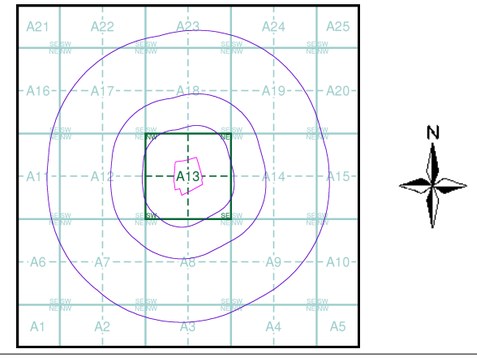
Source map scale - 1:25,000

These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use.
They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

Map Name(s) and Date(s)



Russian Map - Slice A



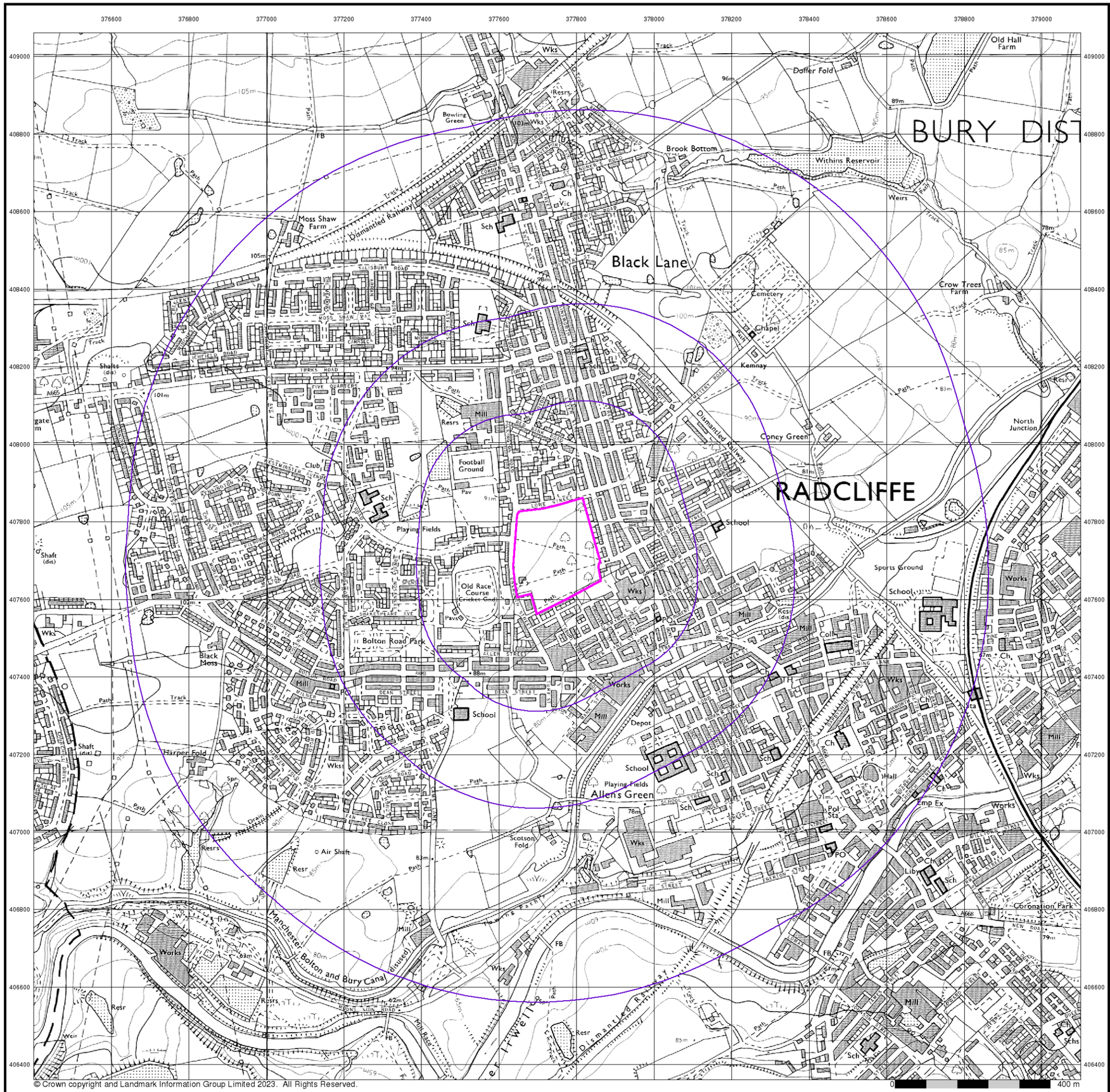
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Ordnance Survey Plan

Published 1980

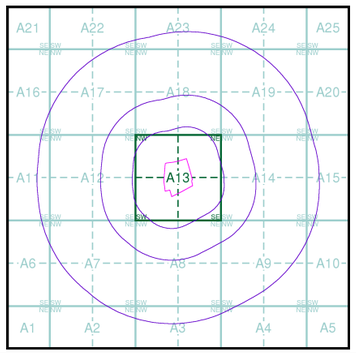
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SD70NE
1980
1:10,000

Historical Map - Slice A



Order Details

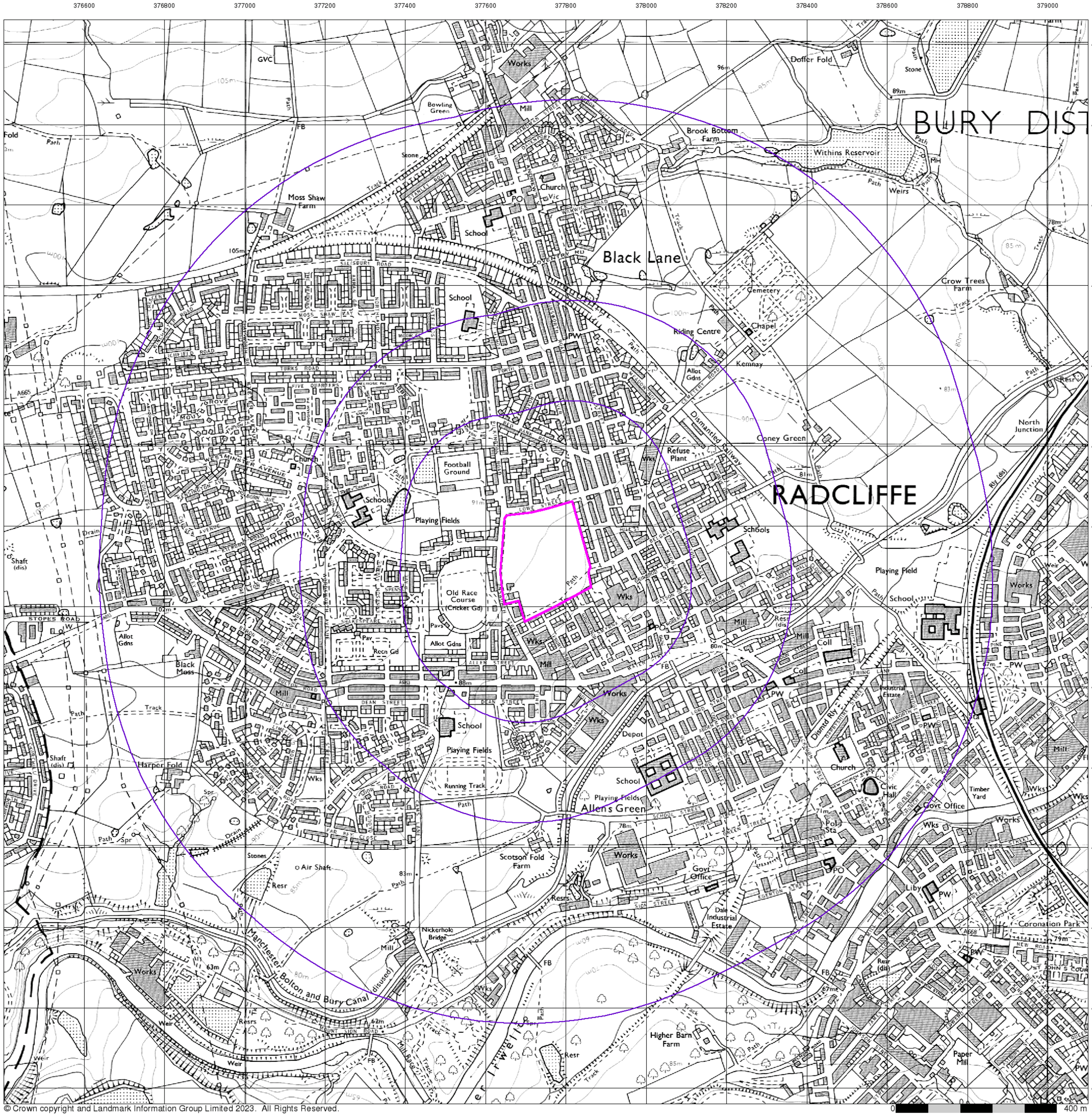
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Slice:	A
Site Area (Ha):	4.89
Search Buffer (m):	1000

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Ordnance Survey Plan

Published 1989

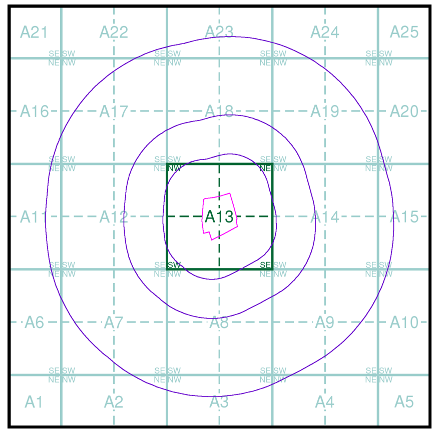
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SD70NE
1989
1:10,000

Historical Map - Slice A



N

Order Details

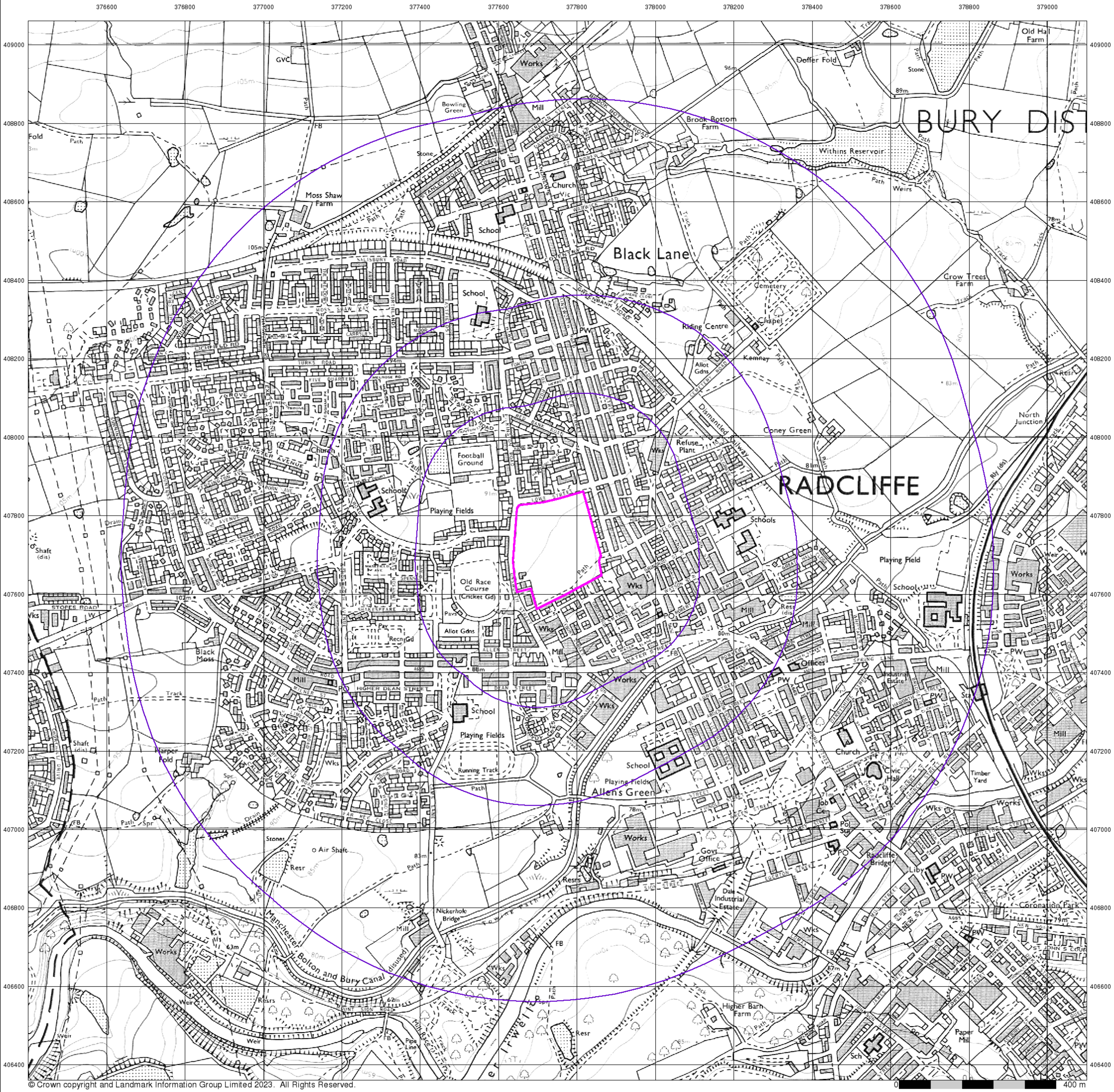
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Customer Ref:	STV6052
National Grid Reference:	377740, 407720
Slice:	A
Site Area (Ha):	4.89
Search Buffer (m):	1000

Site Details

Redbank Playing Fields, Radcliffe, MANCHESTER, M26 4PB

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Ordnance Survey Plan

Published 1992

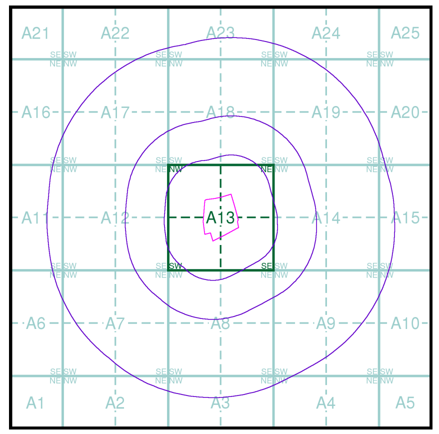
Source map scale - 1:10,000

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SD70NE
1992
1:10,000

Historical Map - Slice A



N

Order Details

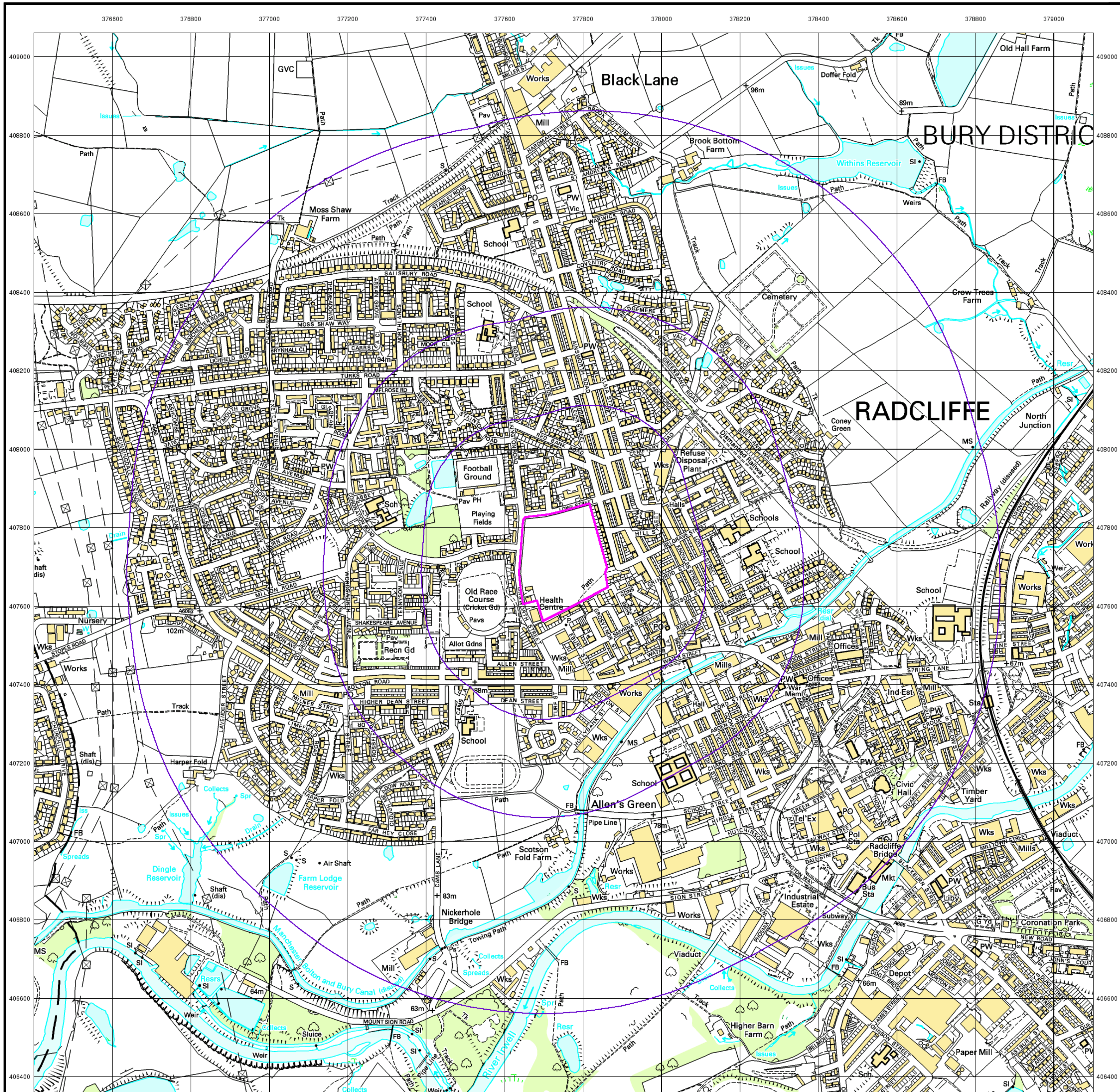
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10k Raster Mapping

Published 1999

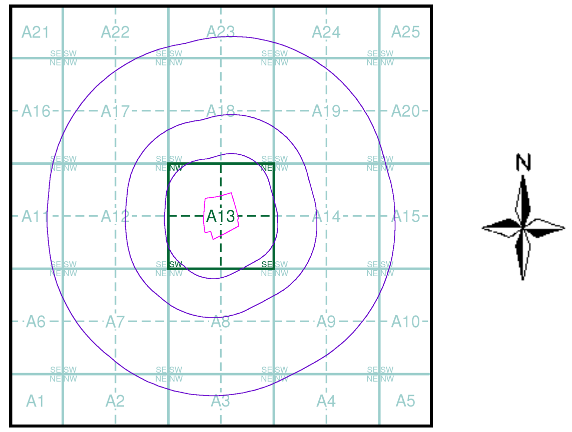
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SD70NE
1999
1:10,000

Historical Map - Slice A



Order Details

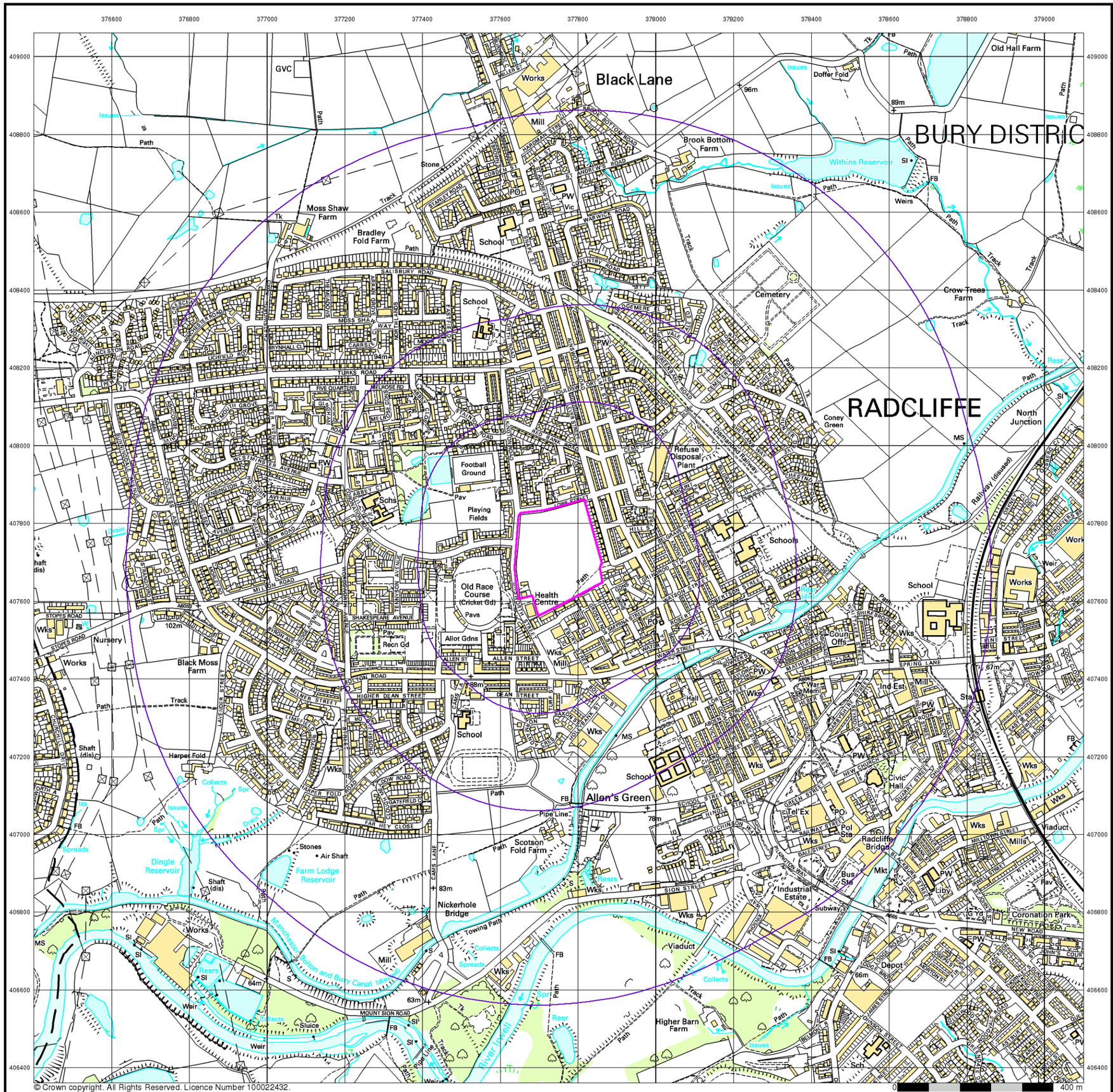
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10k Raster Mapping

Published 2006

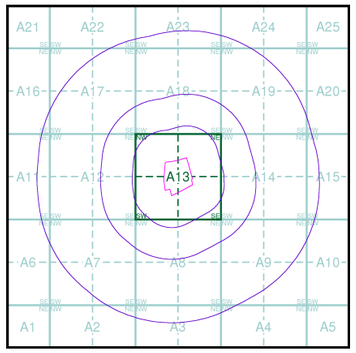
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SD70NE
2006
1:10,000

Historical Map - Slice A



Order Details

Order Number:	312867682_1_1
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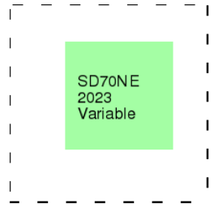
VectorMap Local

Published 2023

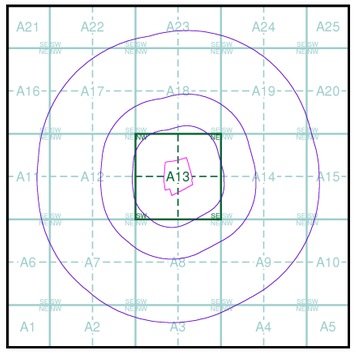
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities),1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	312867682_1_1
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Site Details

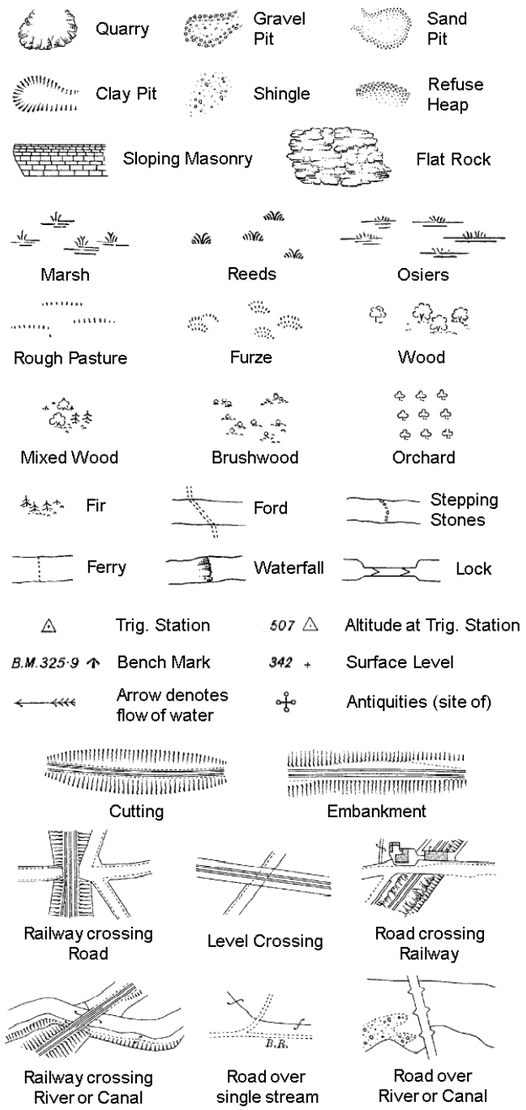
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Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)

County & Civil Parish Boundary

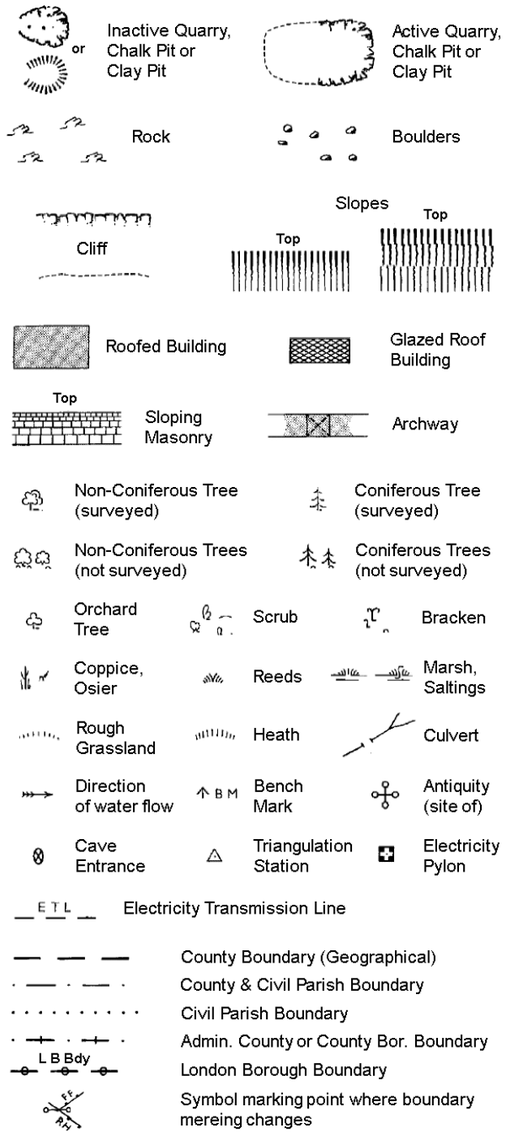
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

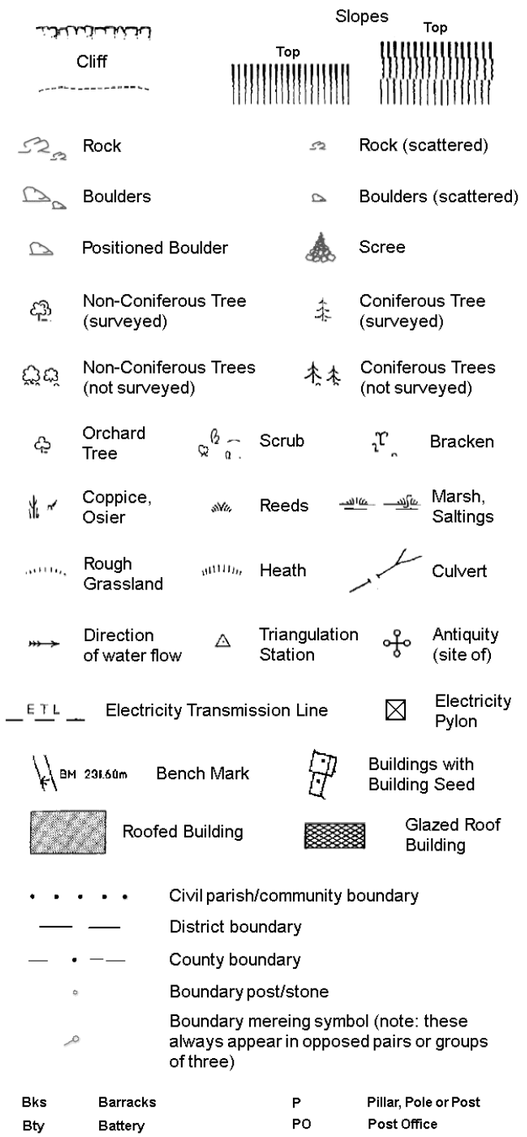
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

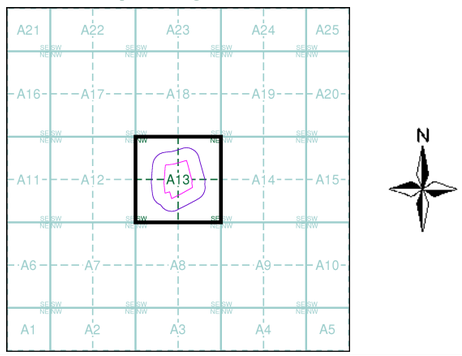
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1889 - 1893	2
Lancashire And Furness	1:2,500	1909 - 1910	3
Lancashire And Furness	1:2,500	1929 - 1930	4
Lancashire And Furness	1:2,500	1937	5
Ordnance Survey Plan	1:1,250	1956 - 1957	6
Ordnance Survey Plan	1:2,500	1956 - 1957	7
Additional SIMs	1:1,250	1956 - 1987	8
Ordnance Survey Plan	1:1,250	1964 - 1976	9
Ordnance Survey Plan	1:2,500	1970	10
Ordnance Survey Plan	1:1,250	1971 - 1989	11
Supply of Unpublished Survey Information	1:1,250	1975	12
Additional SIMs	1:1,250	1981 - 1992	13
Additional SIMs	1:1,250	1986 - 1988	14
Additional SIMs	1:1,250	1987 - 1992	15
Large-Scale National Grid Data	1:1,250	1992	16
Large-Scale National Grid Data	1:1,250	1993 - 1995	17
Large-Scale National Grid Data	1:1,250	1994	18
Large-Scale National Grid Data	1:1,250	1995	19
Large-Scale National Grid Data	1:1,250	1996	20
Historical Aerial Photography	1:2,500	2000	21

Historical Map - Segment A13



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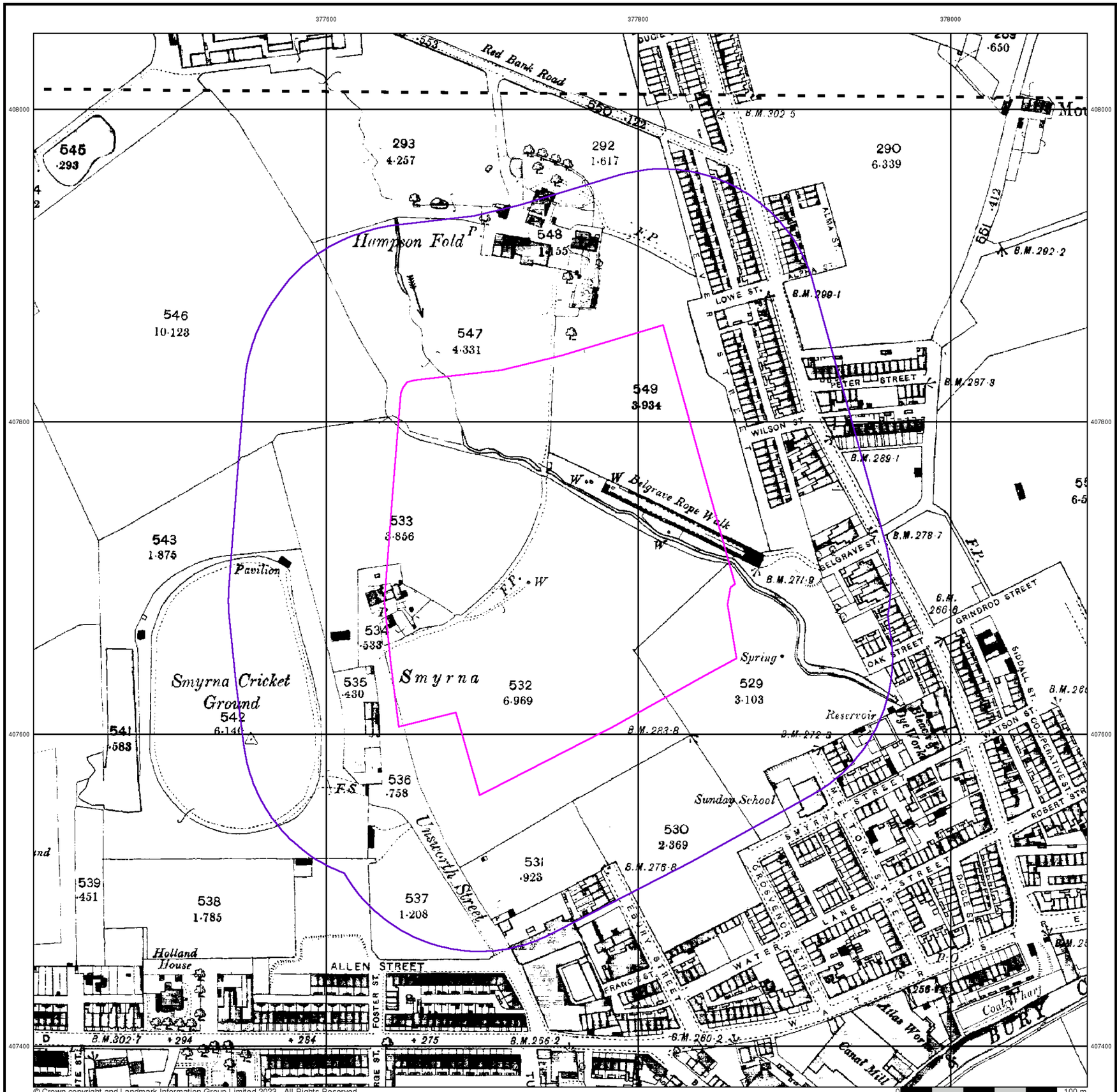
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National Grid Reference:	377740, 407720
Slice:	A
Site Area (Ha):	4.89
Search Buffer (m):	100

Site Details

Redbank Playing Fields, Radcliffe, MANCHESTER, M26 4PB

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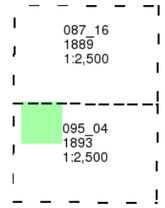
Lancashire And Furness

Published 1889 - 1893

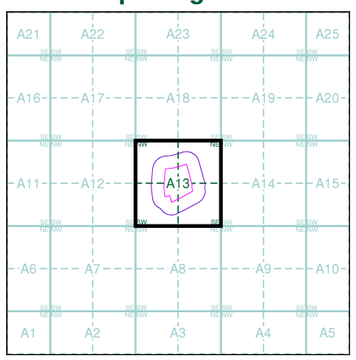
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

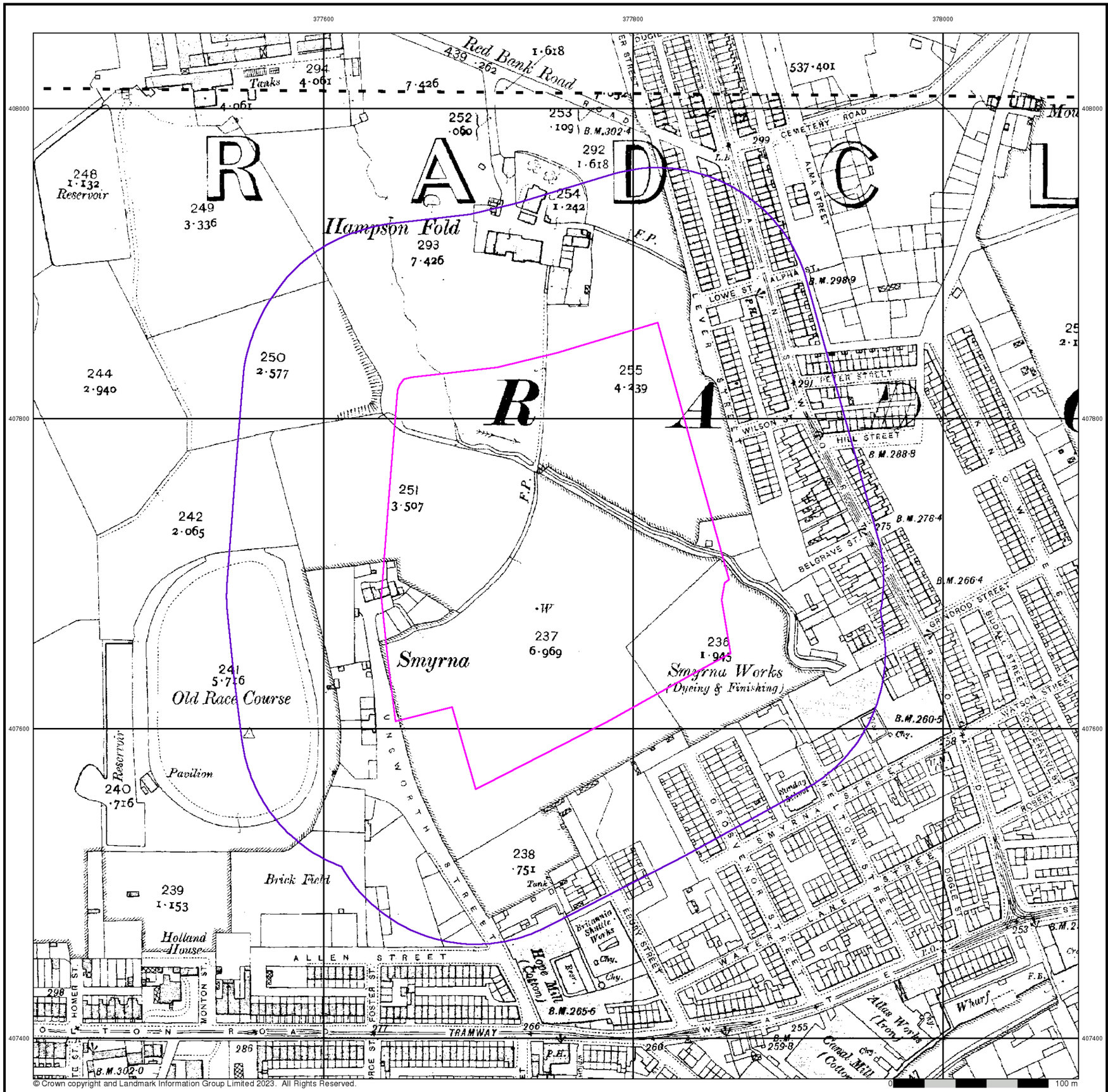
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Lancashire And Furness

Published 1909 - 1910

Source map scale - 1:2,500

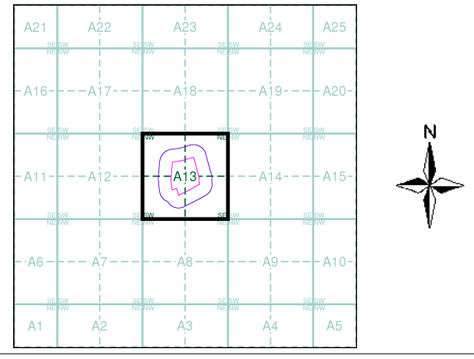
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Map Name(s) and Date(s)

087_16
1910
1:2,500

095_04
1909
1:2,500

Historical Map - Segment A13



Order Details

Order Number:	312867682_1_1
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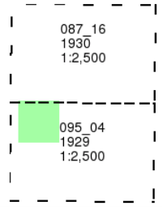
Lancashire And Furness

Published 1929 - 1930

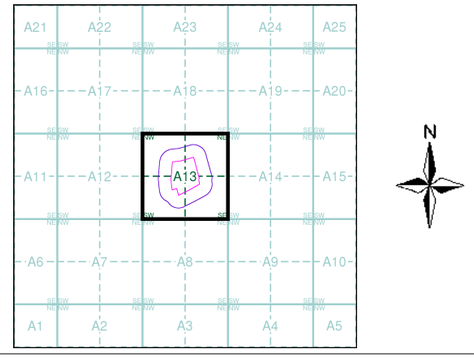
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

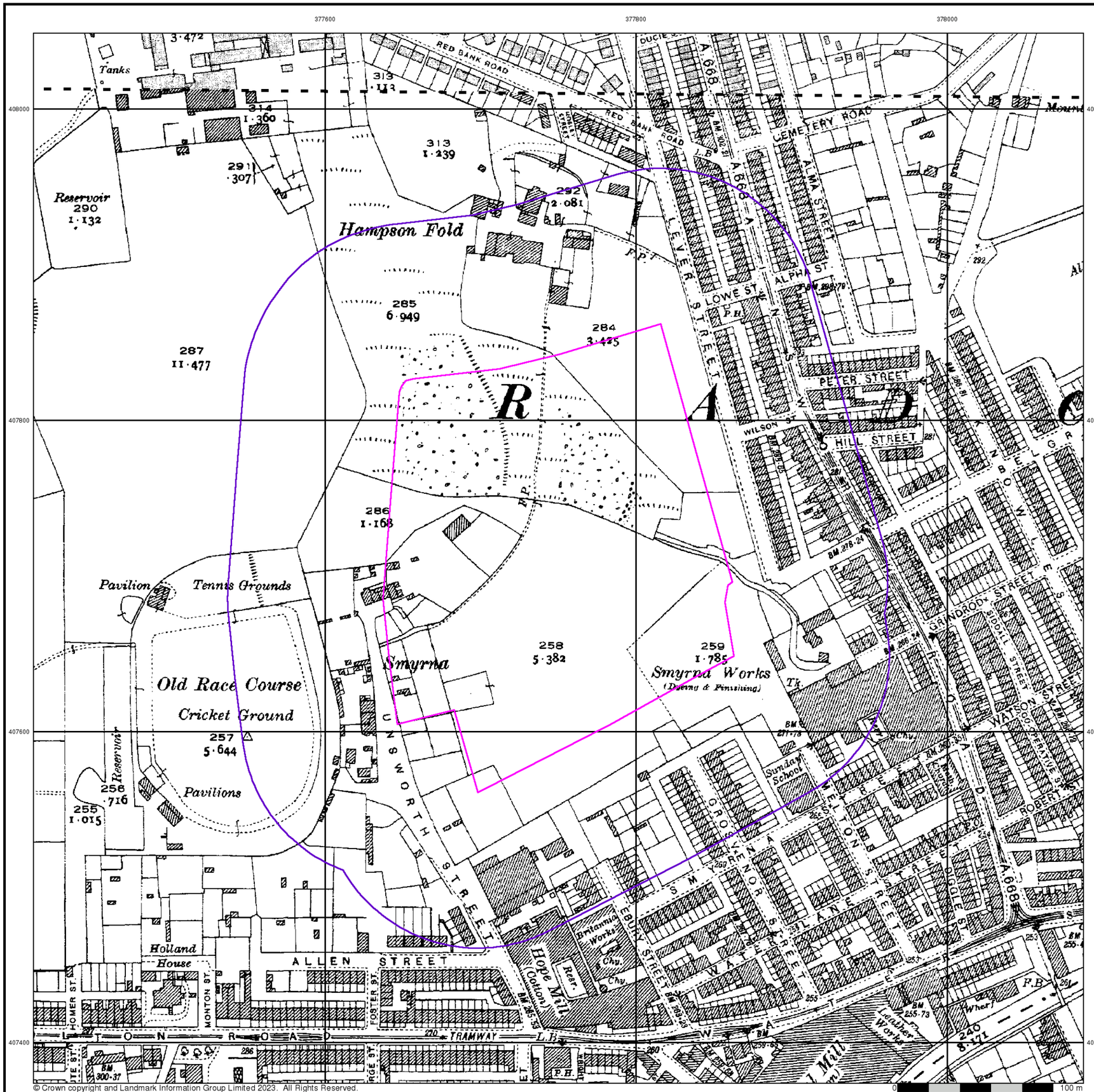
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Lancashire And Furness

Published 1937

Source map scale - 1:2,500

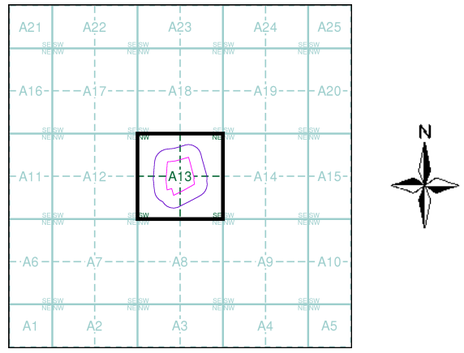
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Map Name(s) and Date(s)

087_16
1937
1:2,500

095_04
1937
1:2,500

Historical Map - Segment A13



Order Details

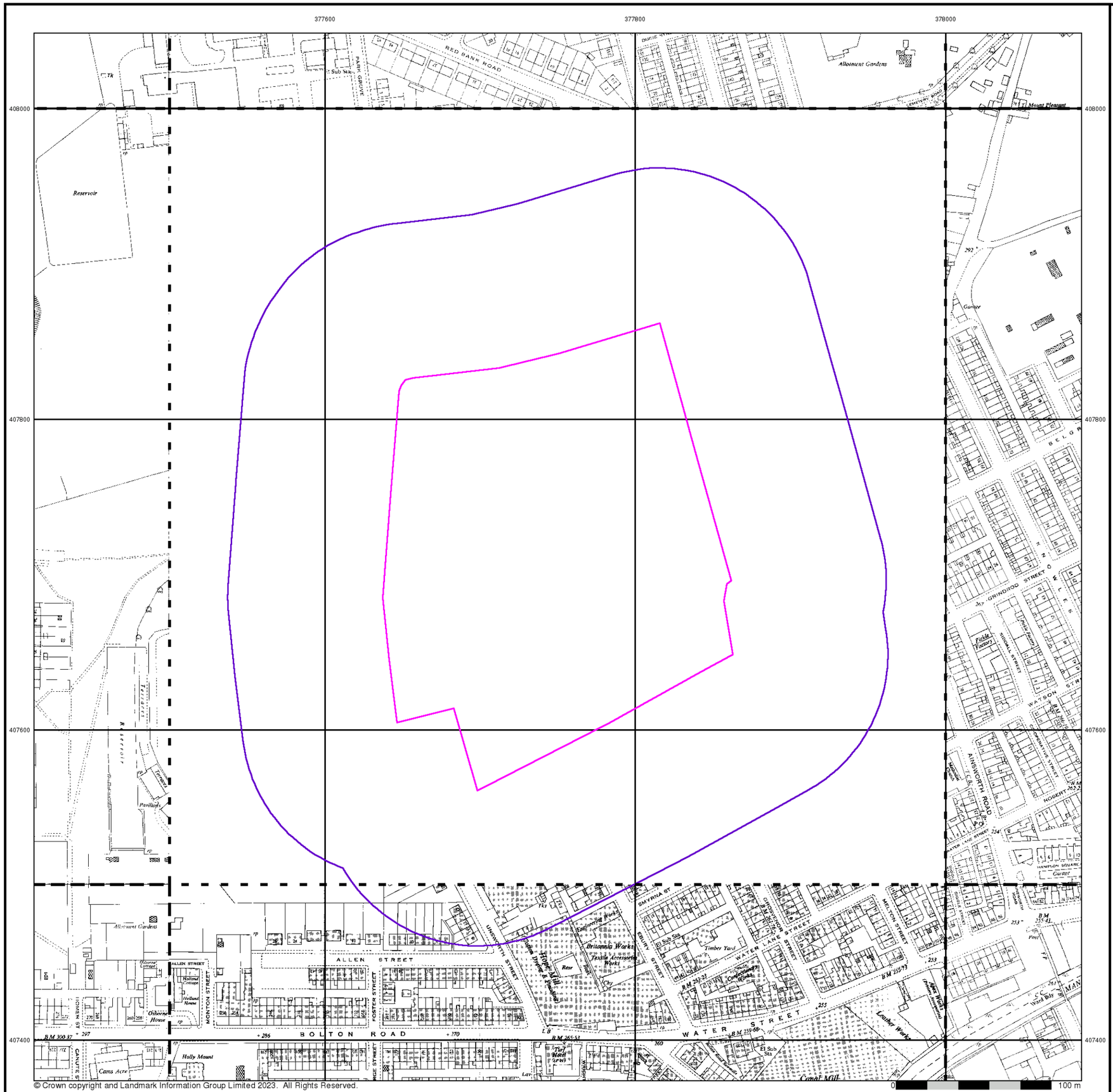
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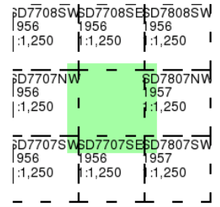
Ordnance Survey Plan

Published 1956 - 1957

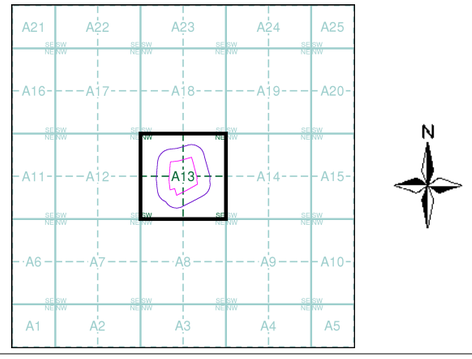
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

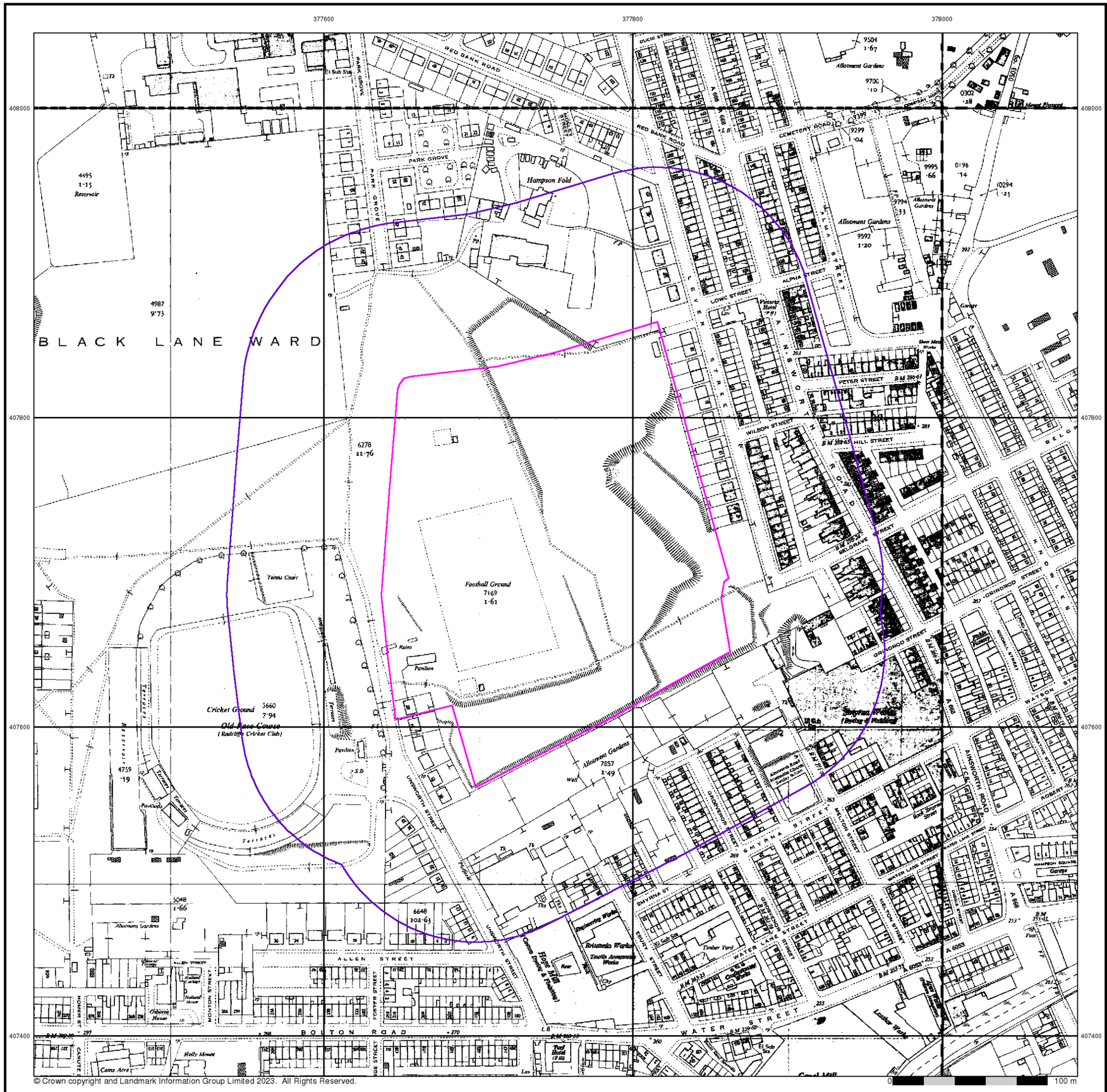
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Search Buffer (m):	100

Site Details

Redbank Playing Fields, Radcliffe, MANCHESTER, M26 4PB

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Ordnance Survey Plan

Published 1956 - 1957

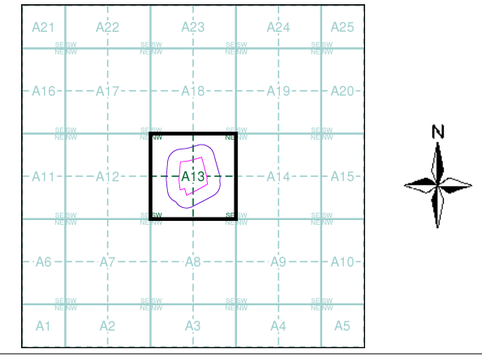
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SD7708 1956 1:2,500	SD7808 1957 1:2,500
SD7707 1957 1:2,500	SD7807 1957 1:2,500

Historical Map - Segment A13



Order Details

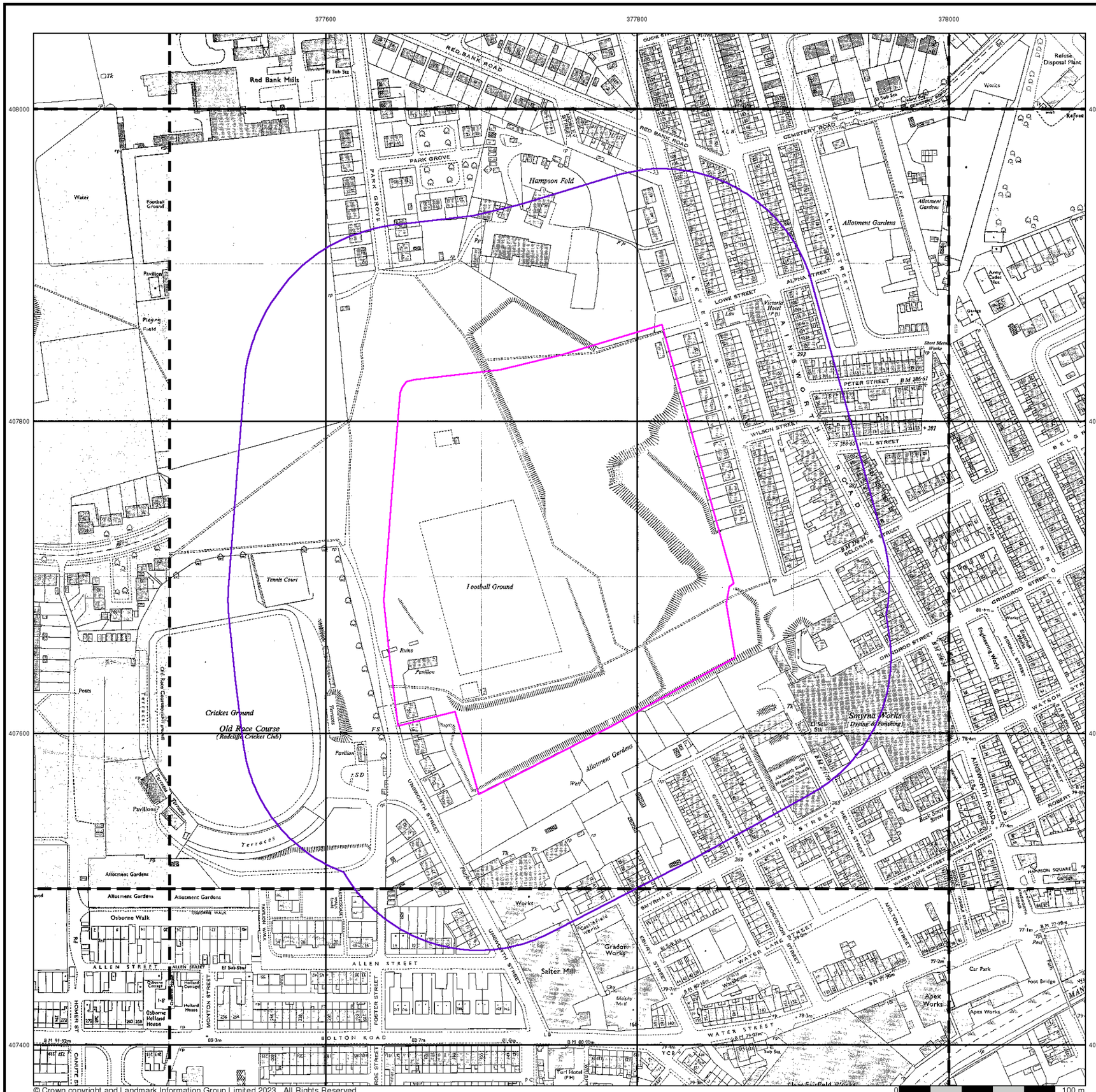
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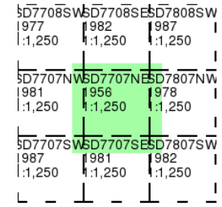
Additional SIMs

Published 1956 - 1987

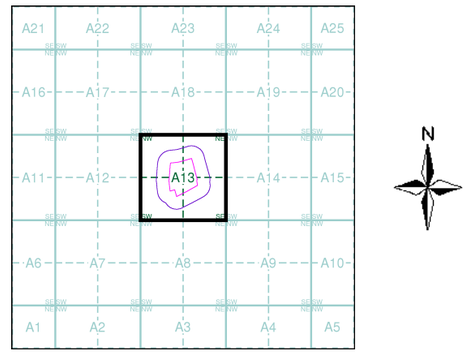
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	312867682_1_1
Customer Ref:	STV6052
National Grid Reference:	377740, 407720
Slice:	A
Site Area (Ha):	4.89
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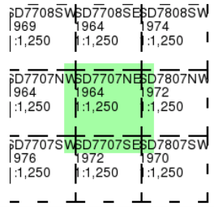
Ordnance Survey Plan

Published 1964 - 1976

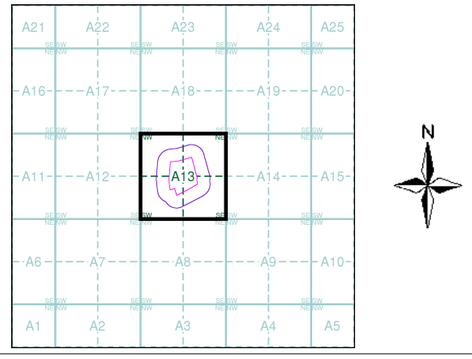
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



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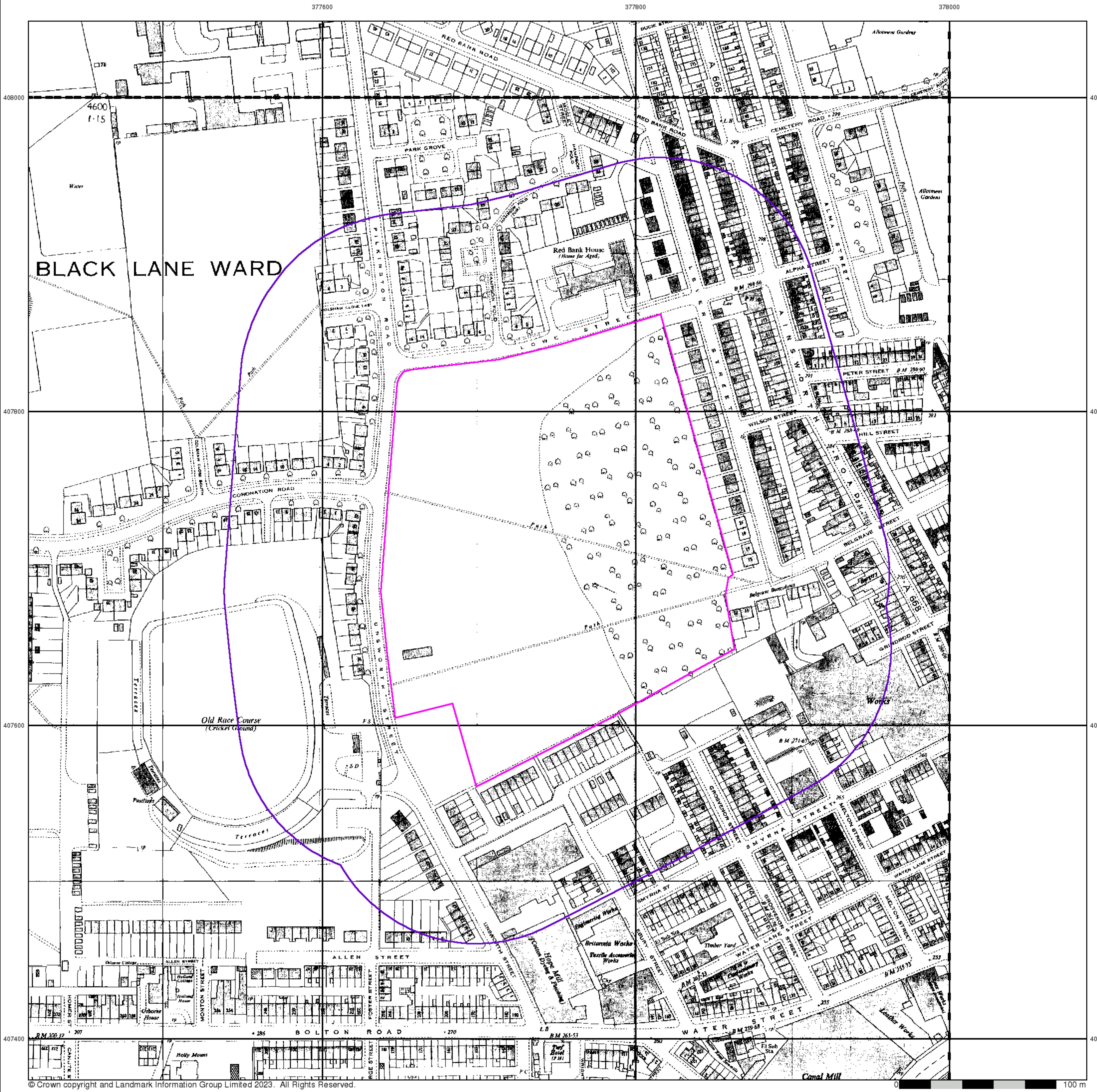
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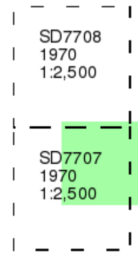
Ordnance Survey Plan

Published 1970

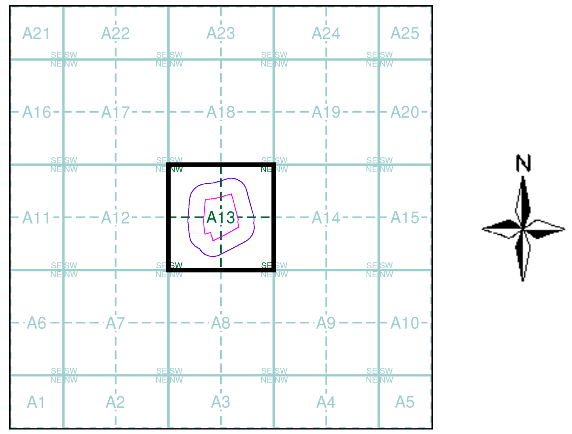
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

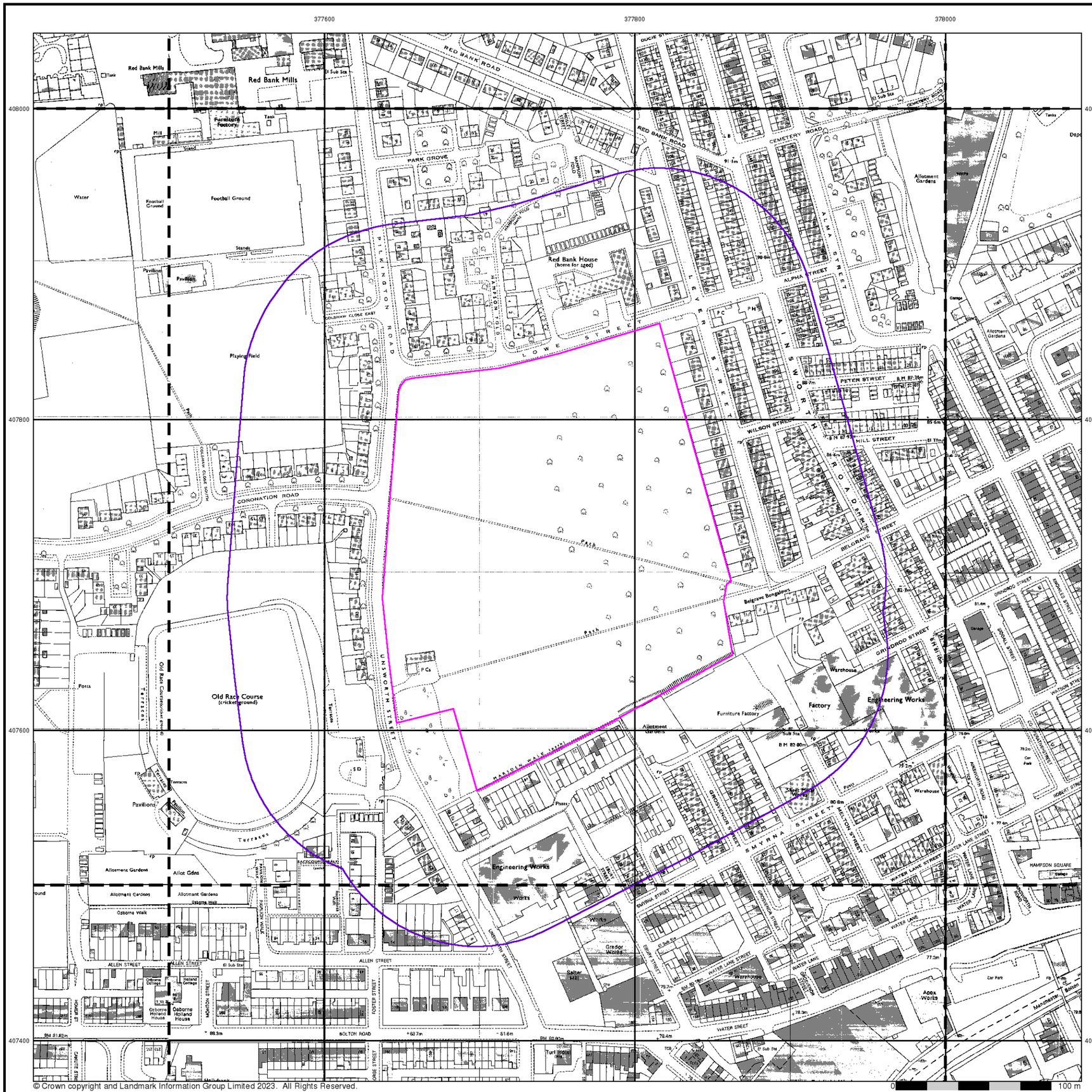
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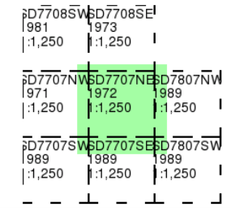
Ordnance Survey Plan

Published 1971 - 1989

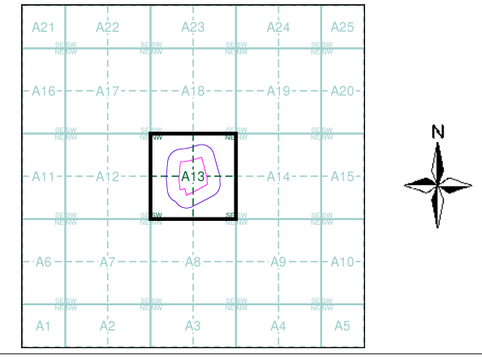
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	312867682_1_1
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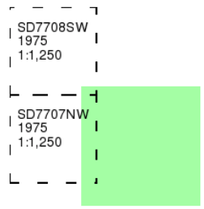
Supply of Unpublished Survey Information

Published 1975

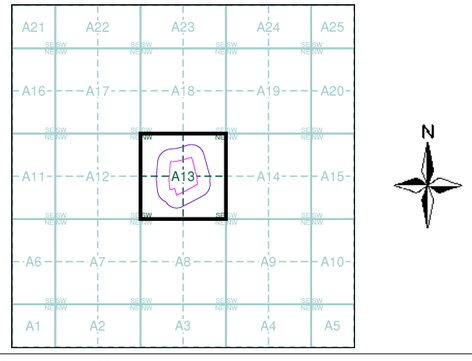
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

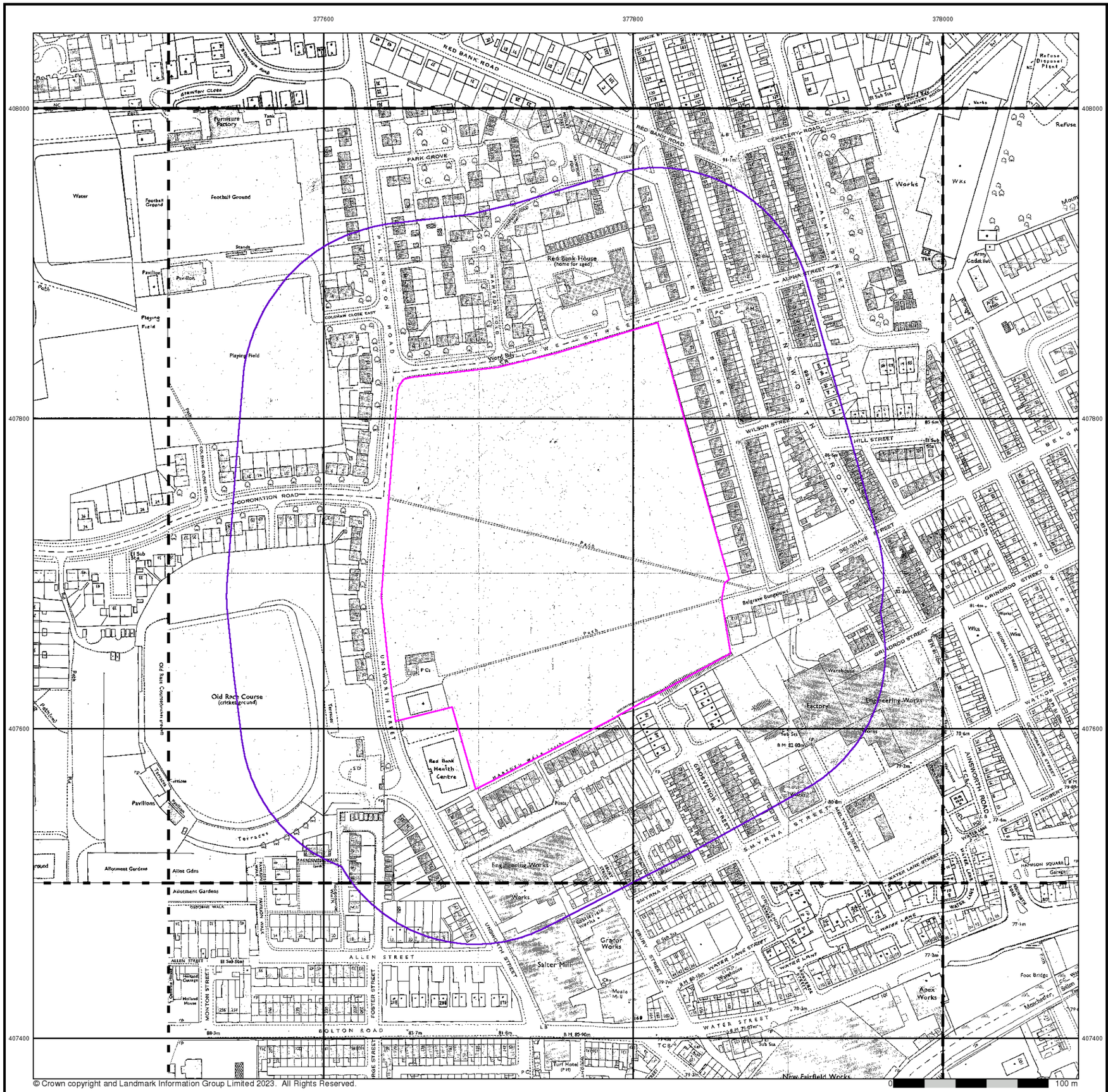
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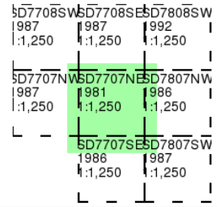
Additional SIMs

Published 1981 - 1992

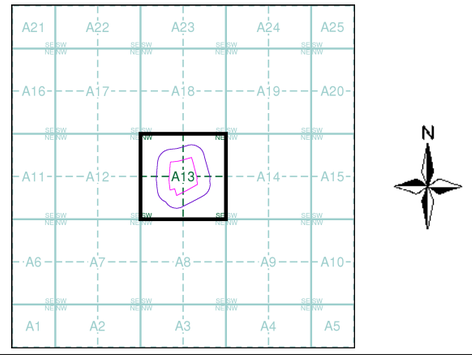
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

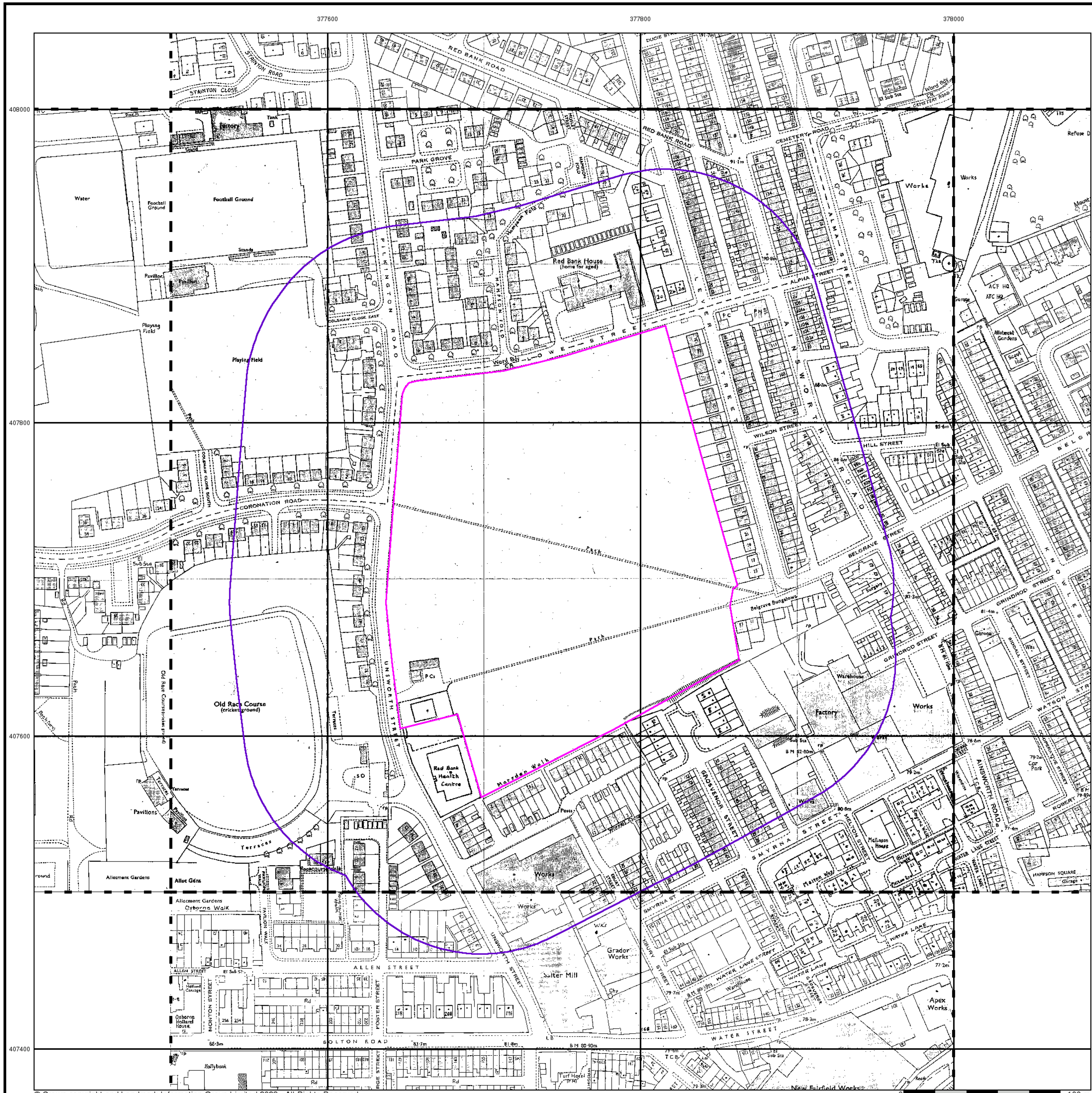
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Search Buffer (m):	100

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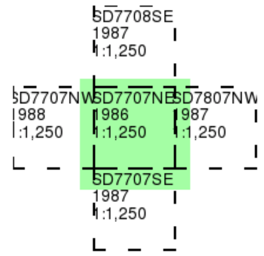
Additional SIMs

Published 1986 - 1988

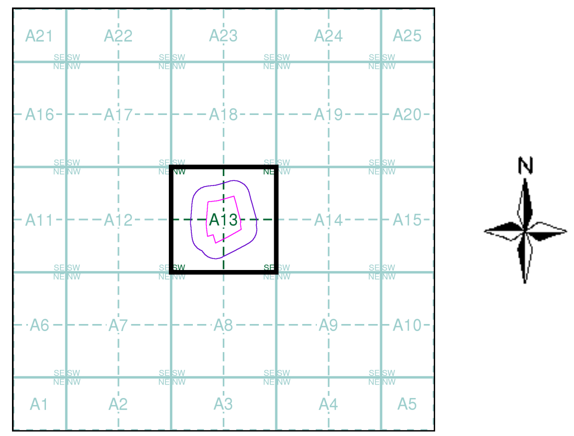
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



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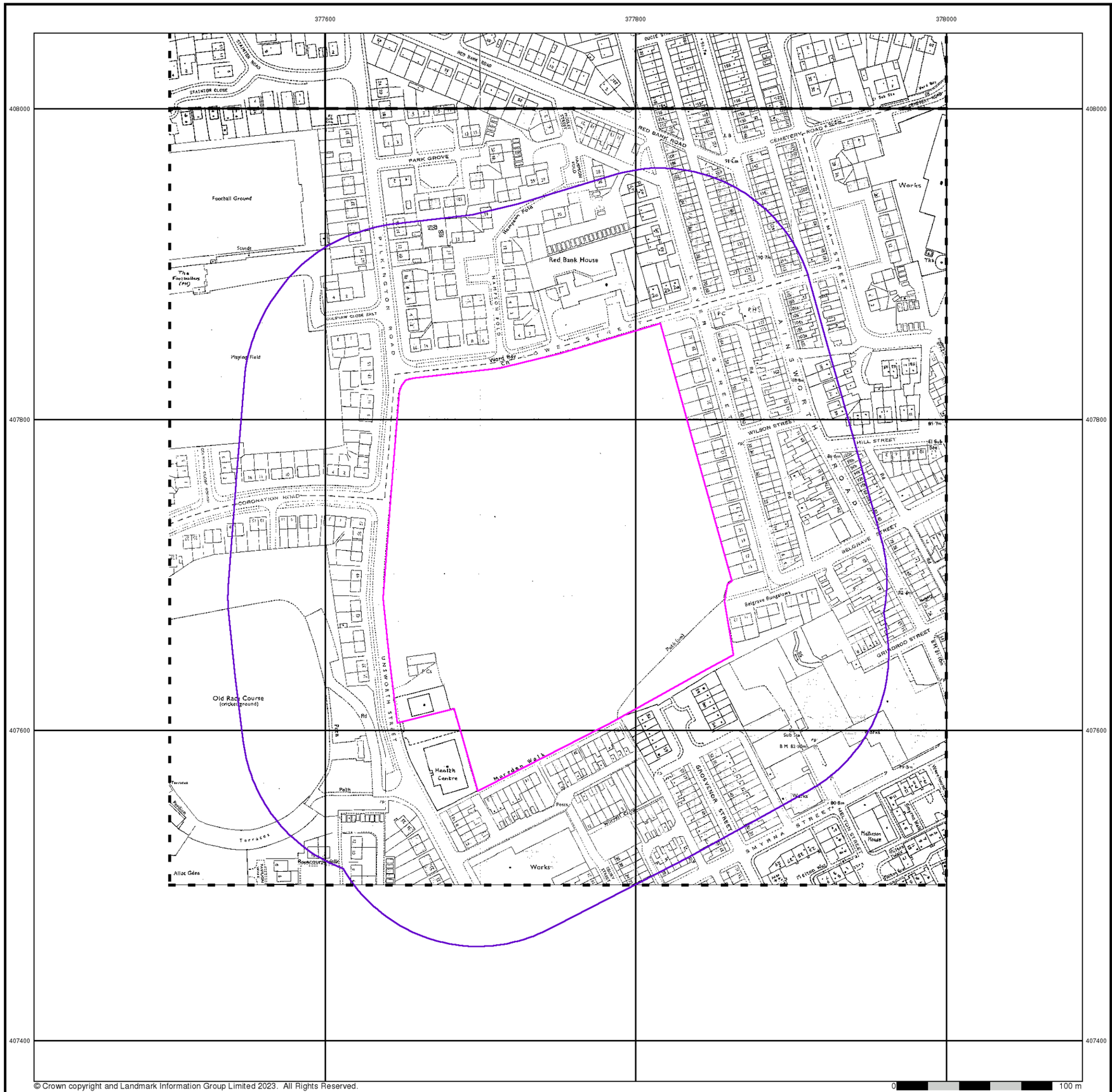
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Additional SIMs

Published 1987 - 1992

Source map scale - 1:1,250

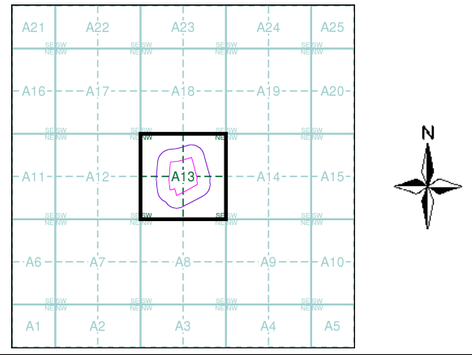
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Map Name(s) and Date(s)

SD7708SE
1992
1:1,250

SD7707NE
1987
1:1,250

Historical Map - Segment A13



Order Details

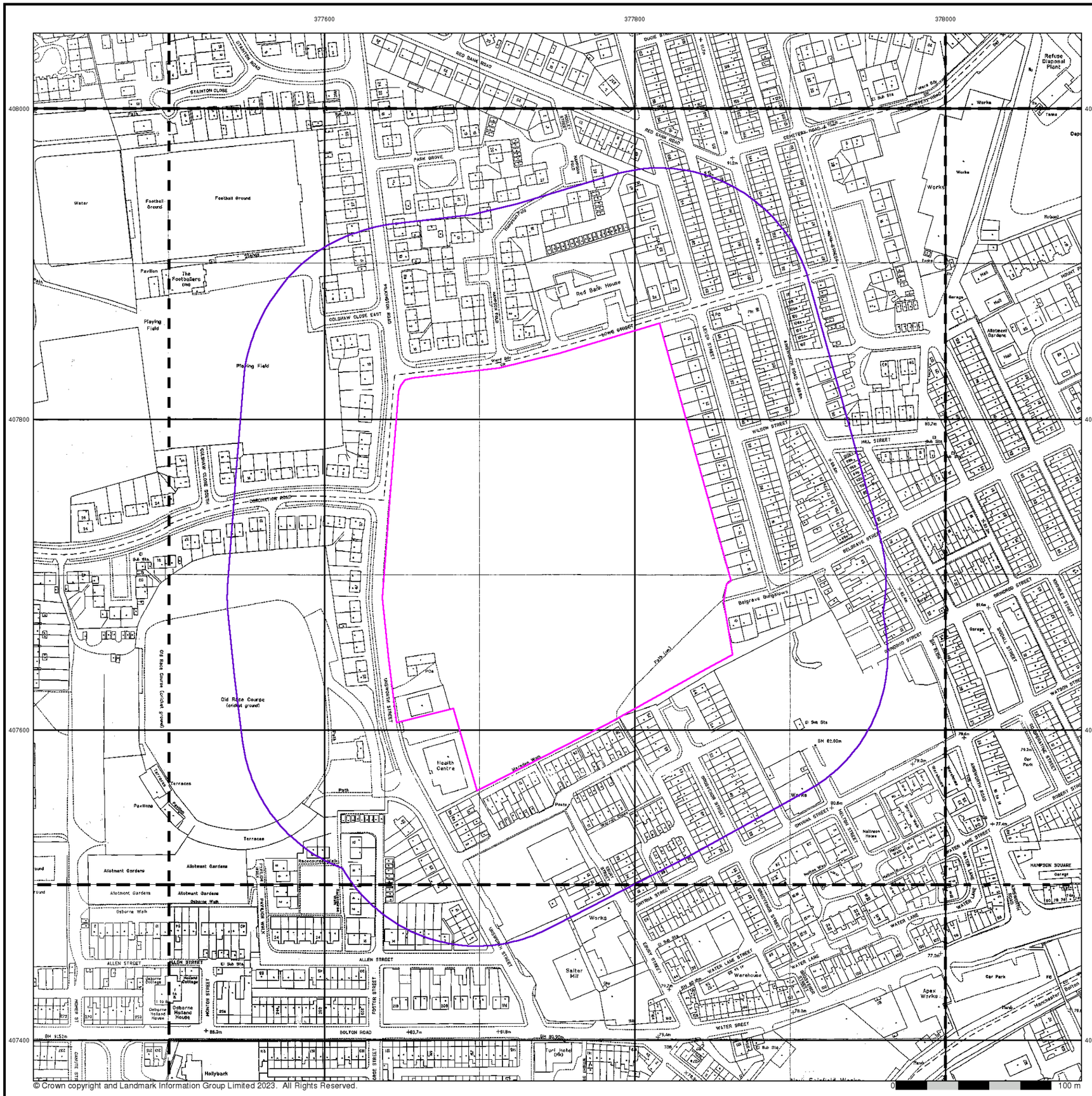
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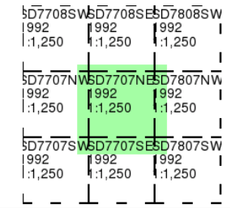
Large-Scale National Grid Data

Published 1992

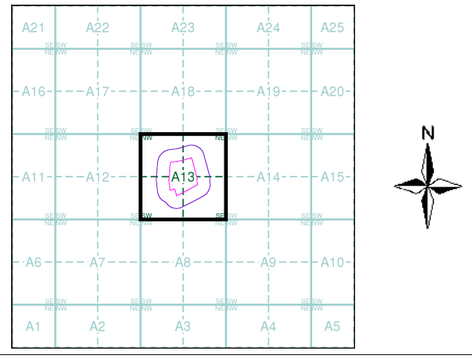
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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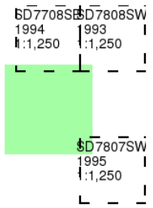
Large-Scale National Grid Data

Published 1993 - 1995

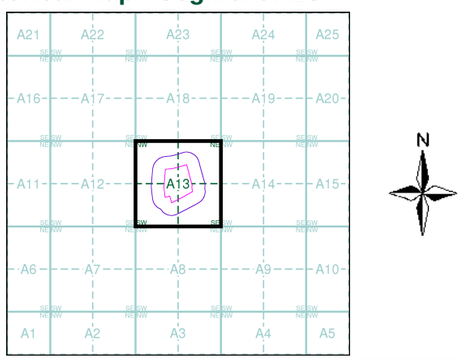
Source map scale - 1:1,250

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Map Name(s) and Date(s)



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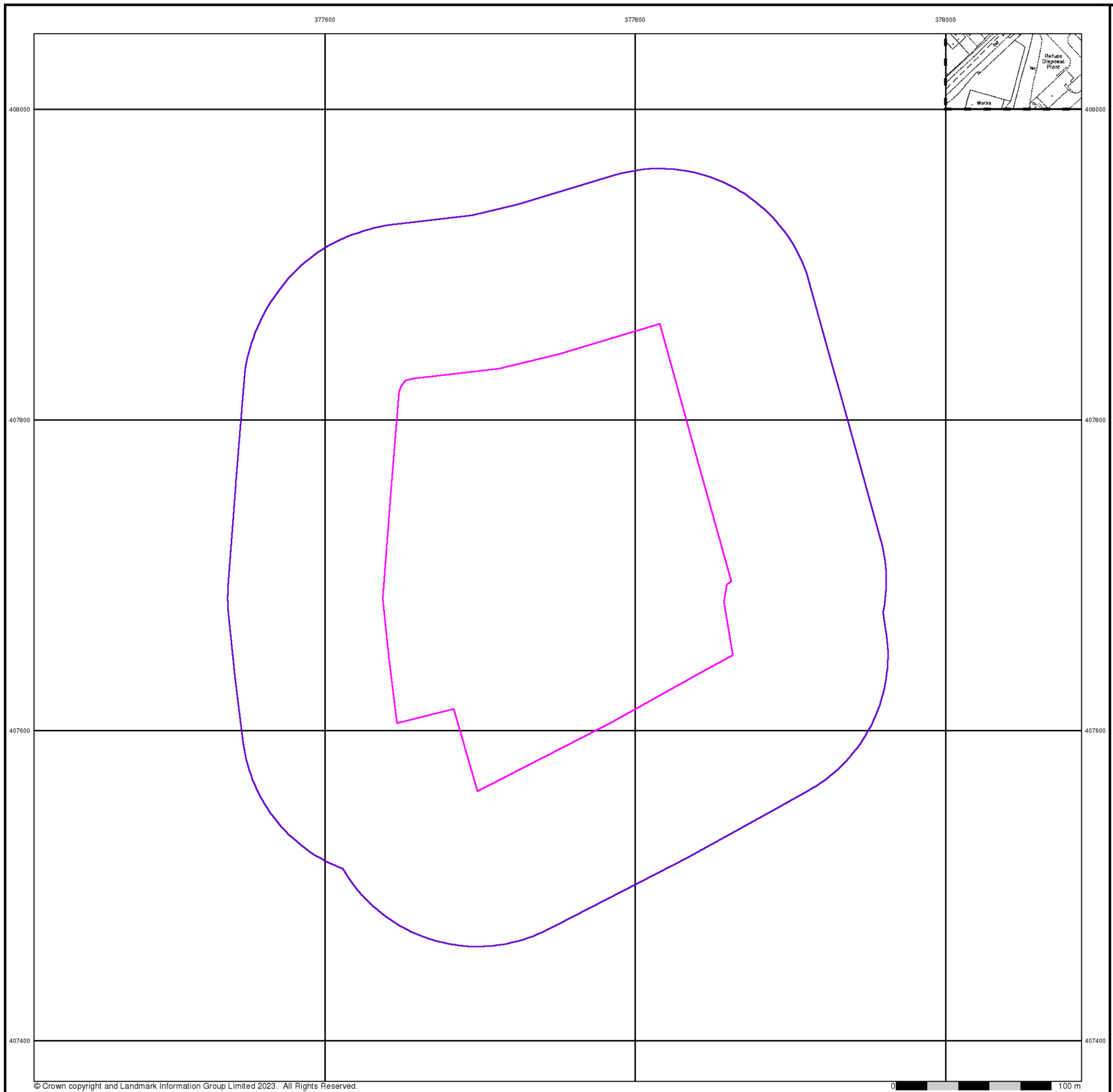
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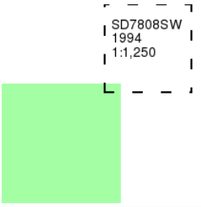
Large-Scale National Grid Data

Published 1994

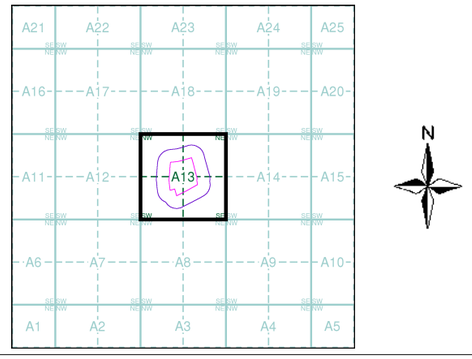
Source map scale - 1:1,250

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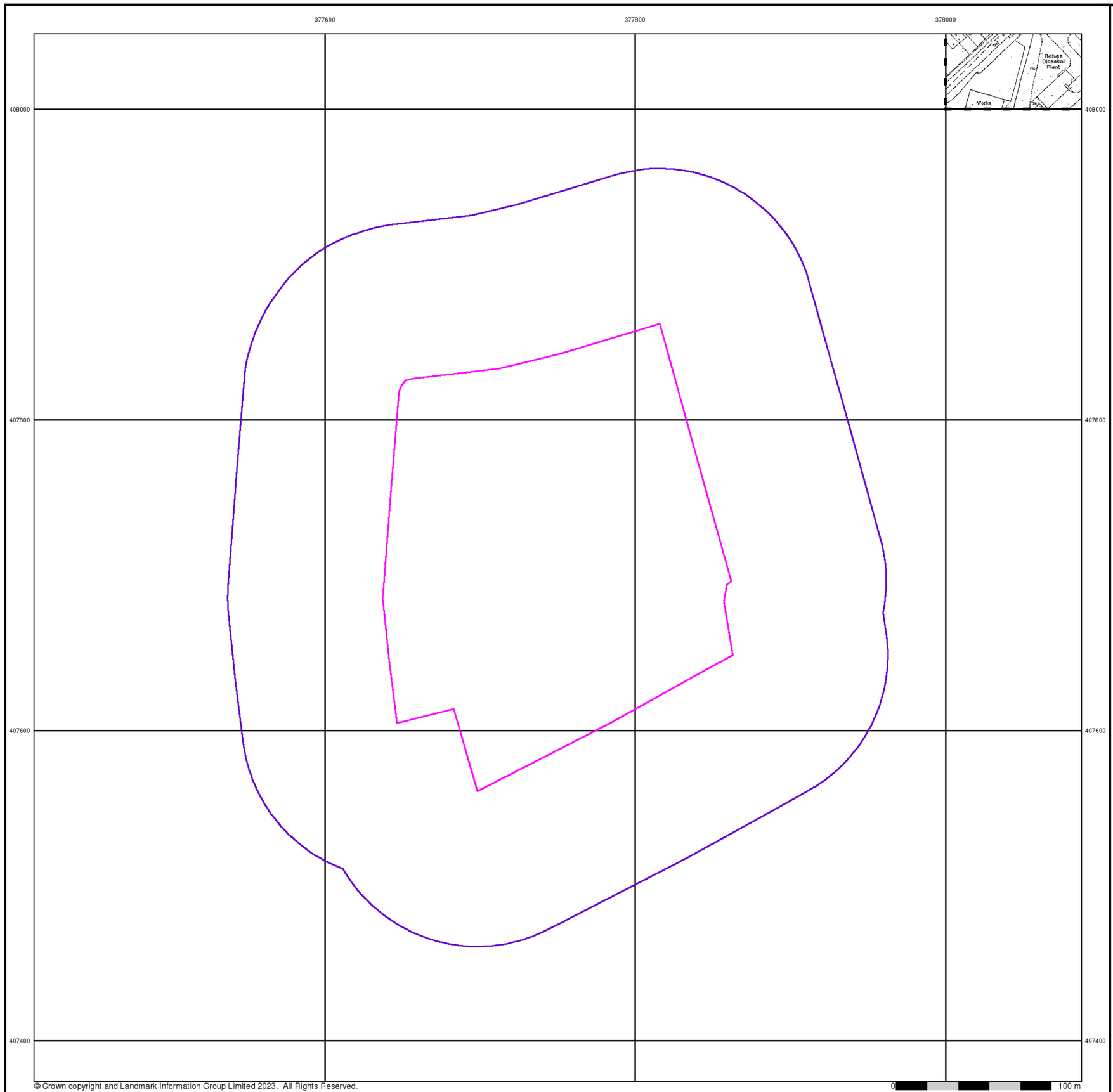
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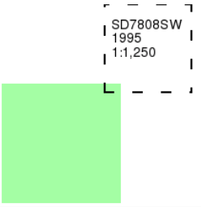
Large-Scale National Grid Data

Published 1995

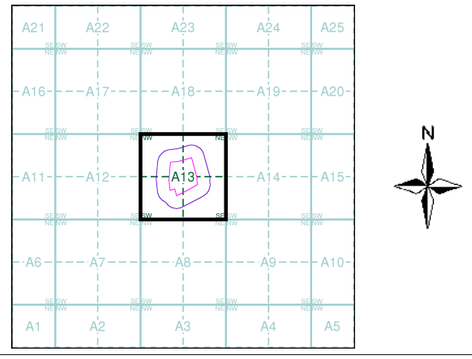
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

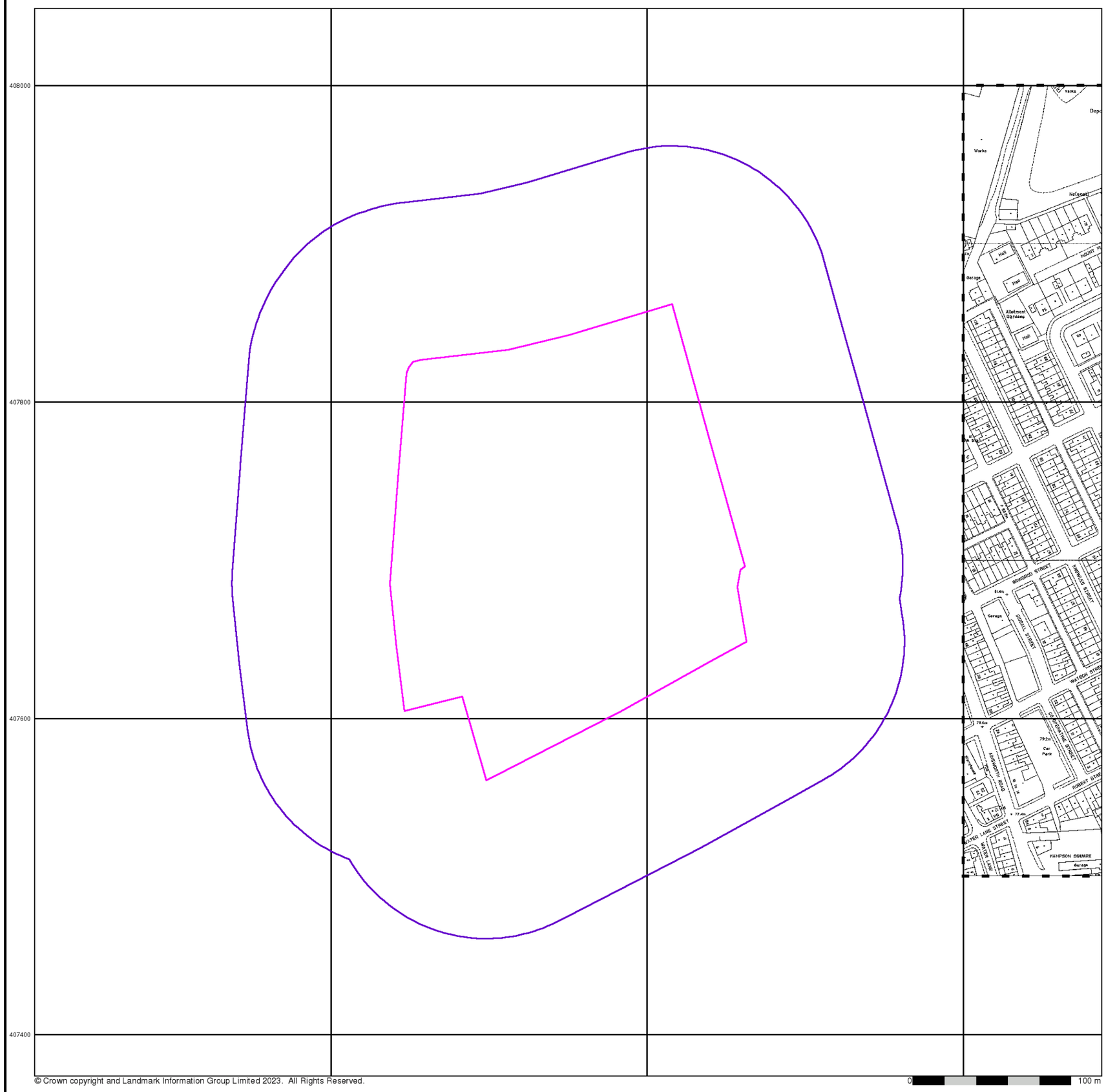
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Customer Ref:	STV6052
National Grid Reference:	377740, 407720
Slice:	A
Site Area (Ha):	4.89
Search Buffer (m):	100

Site Details

Redbank Playing Fields, Radcliffe, MANCHESTER, M26 4PB

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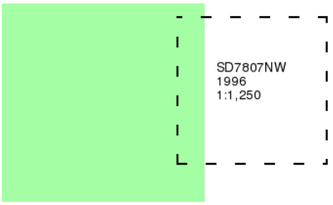
Large-Scale National Grid Data

Published 1996

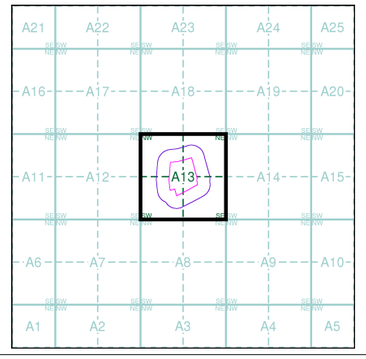
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	312867682_1_1
Customer Ref:	STV6052
National Grid Reference:	377740, 407720
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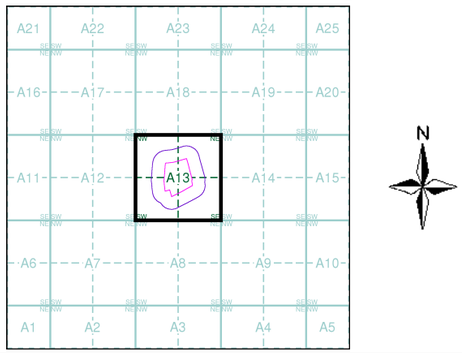
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Historical Aerial Photography

Published 2000

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



Order Details

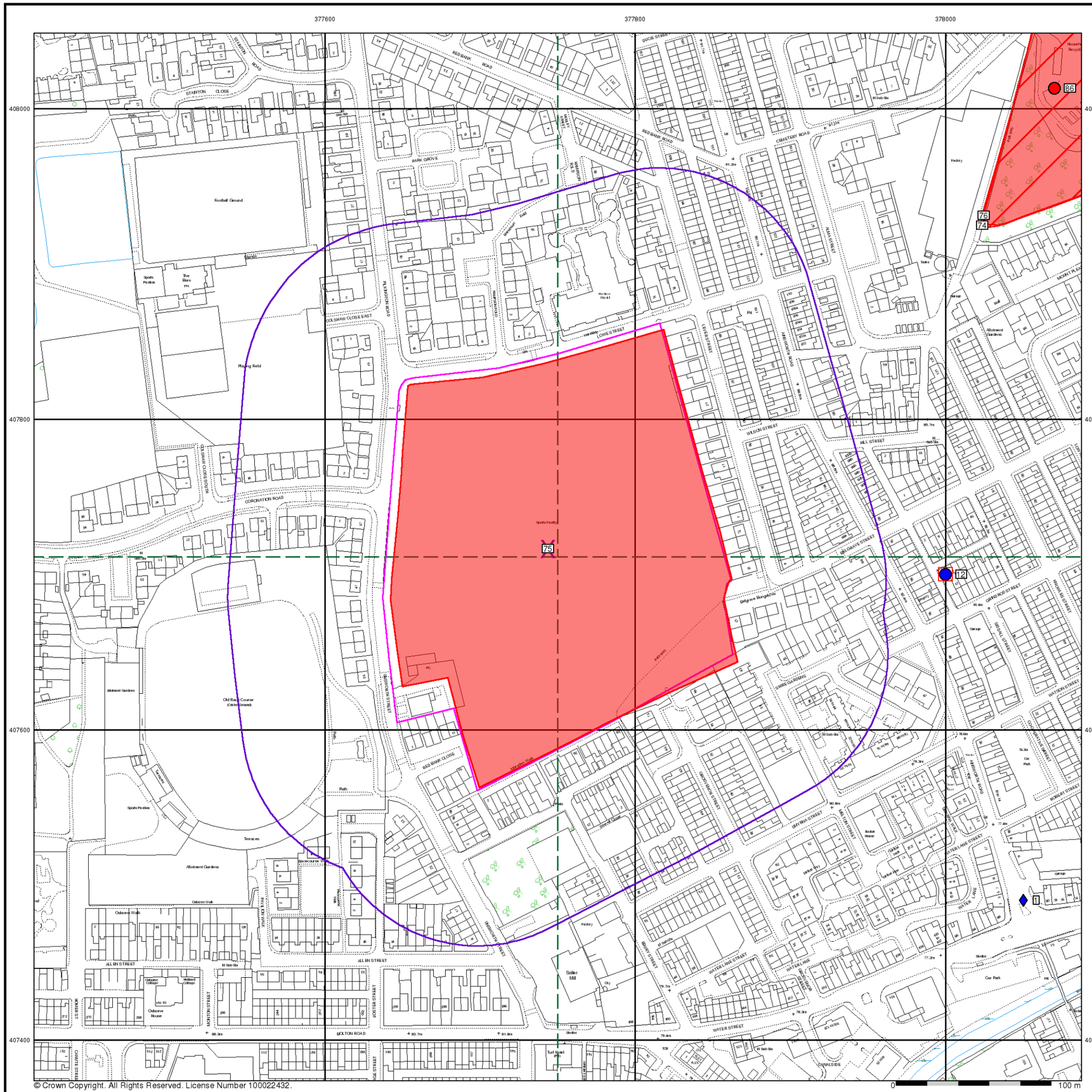
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Customer Ref:	STV6052
National Grid Reference:	377740, 407720
Slice:	A
Site Area (Ha):	4.89
Search Buffer (m):	100

Site Details

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General

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

Agency and Hydrological

- Contaminated Land Register Entry or Notice (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

Hazardous Substances

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

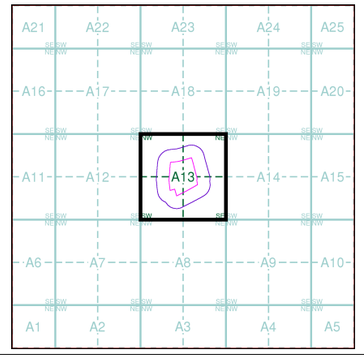
Geological

- BGS Recorded Mineral Site

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
- 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

Site Sensitivity Map - Segment A13



Order Details

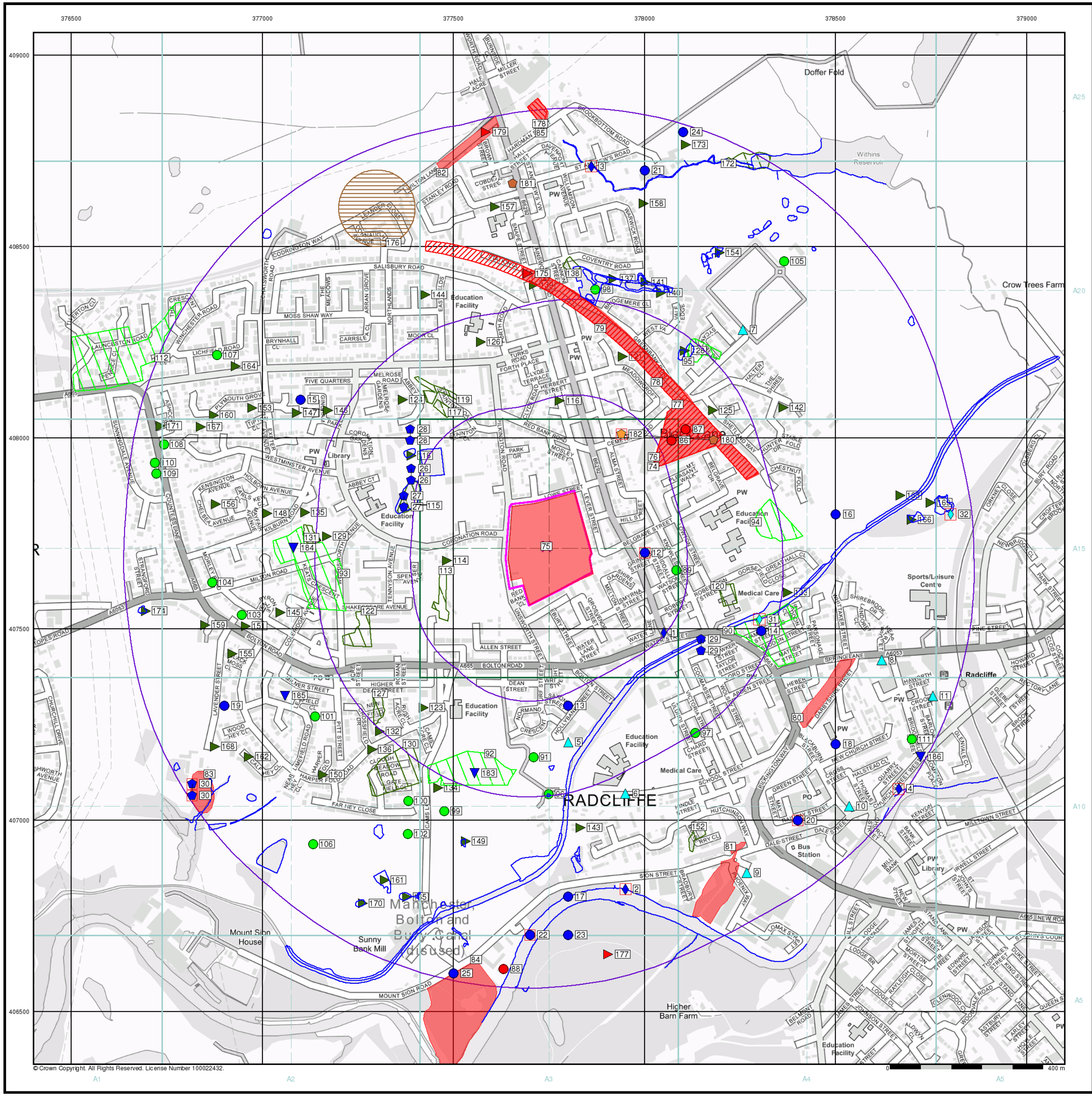
Order Number:	312867682_1_1
Customer Ref:	STV6052
National Grid Reference:	377740, 407720
Slice:	A
Site Area (Ha):	4.89
Plot Buffer (m):	100

Site Details

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General

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

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
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- 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

Hazardous Substances

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

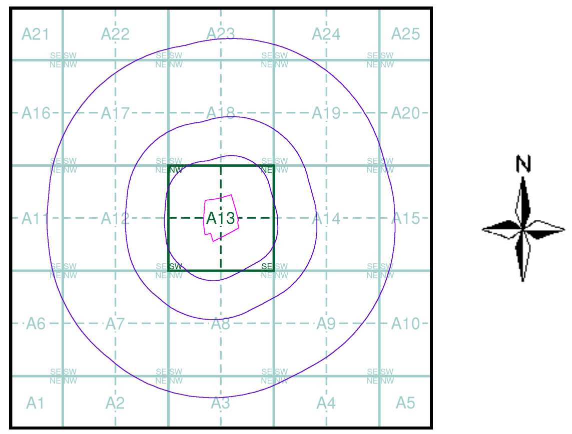
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- Potentially Infilled Land (Non-water)
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- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
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- Registered Landfill Site (Location)
- 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

Site Sensitivity Map - Slice A



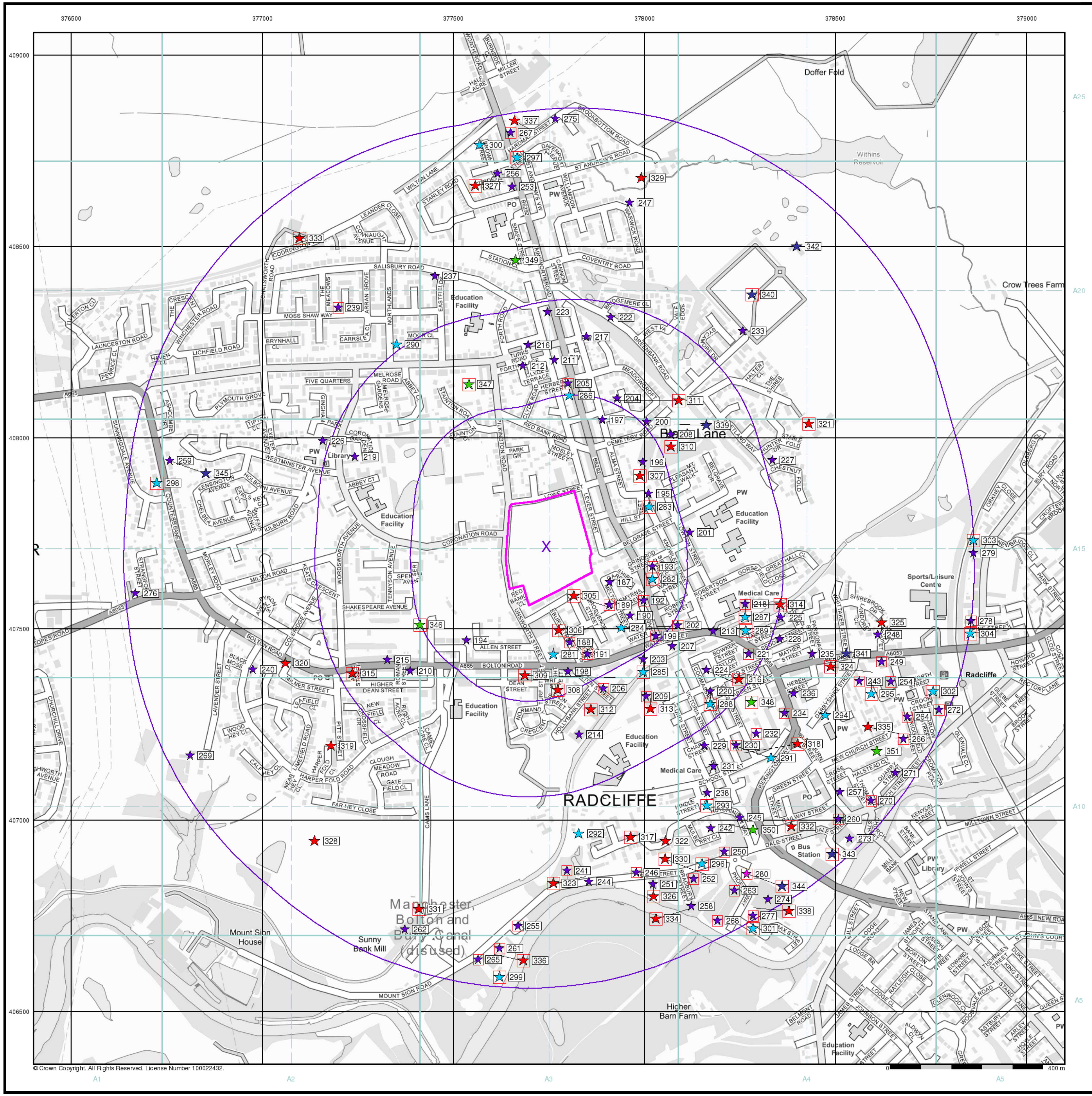
Order Details

Order Number: 312867682_1_1
Customer Ref: STV6052
National Grid Reference: 377740, 407720
Slice: A
Site Area (Ha): 4.89
Search Buffer (m): 1000

Site Details

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Industrial Land Use Map

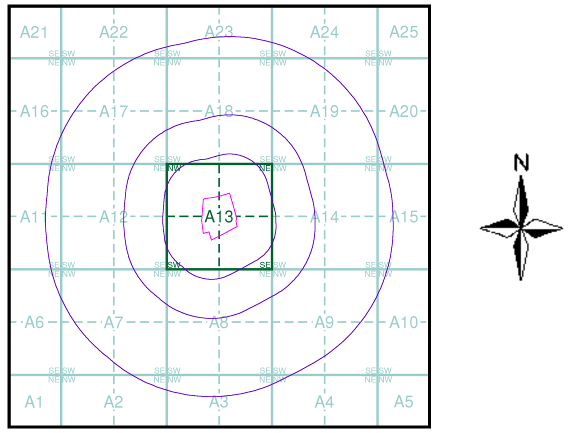
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

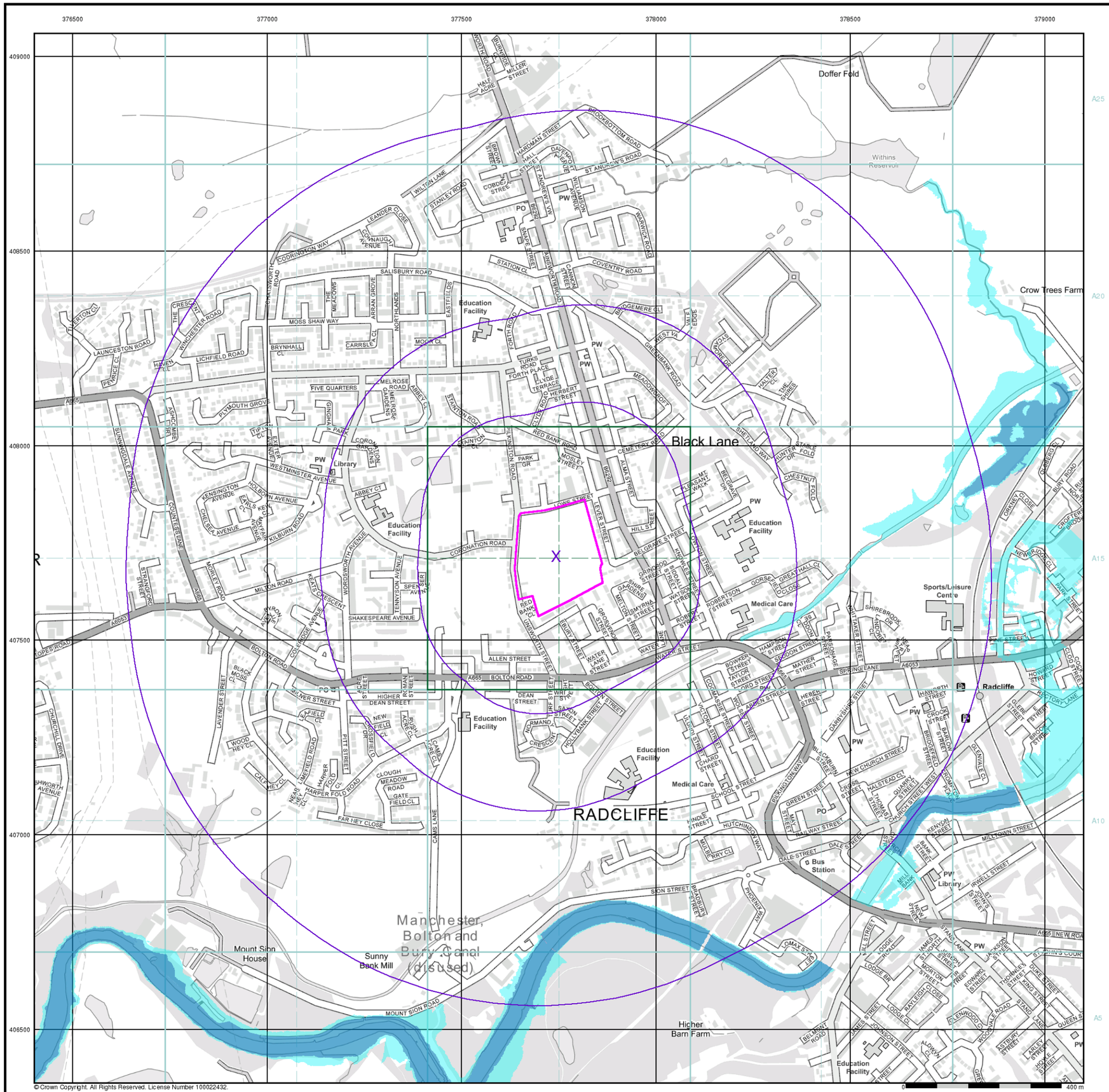
Order Number: 312867682_1_1
Customer Ref: STV6052
National Grid Reference: 377740, 407720
Slice: A
Site Area (Ha): 4.89
Search Buffer (m): 1000

Site Details

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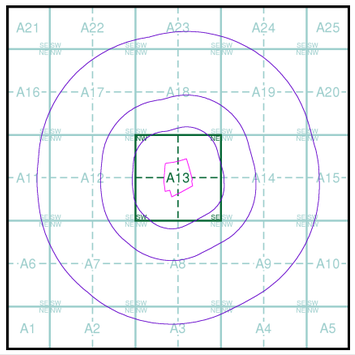
General

- Specified Site
- Specified Buffer(s)
- X 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

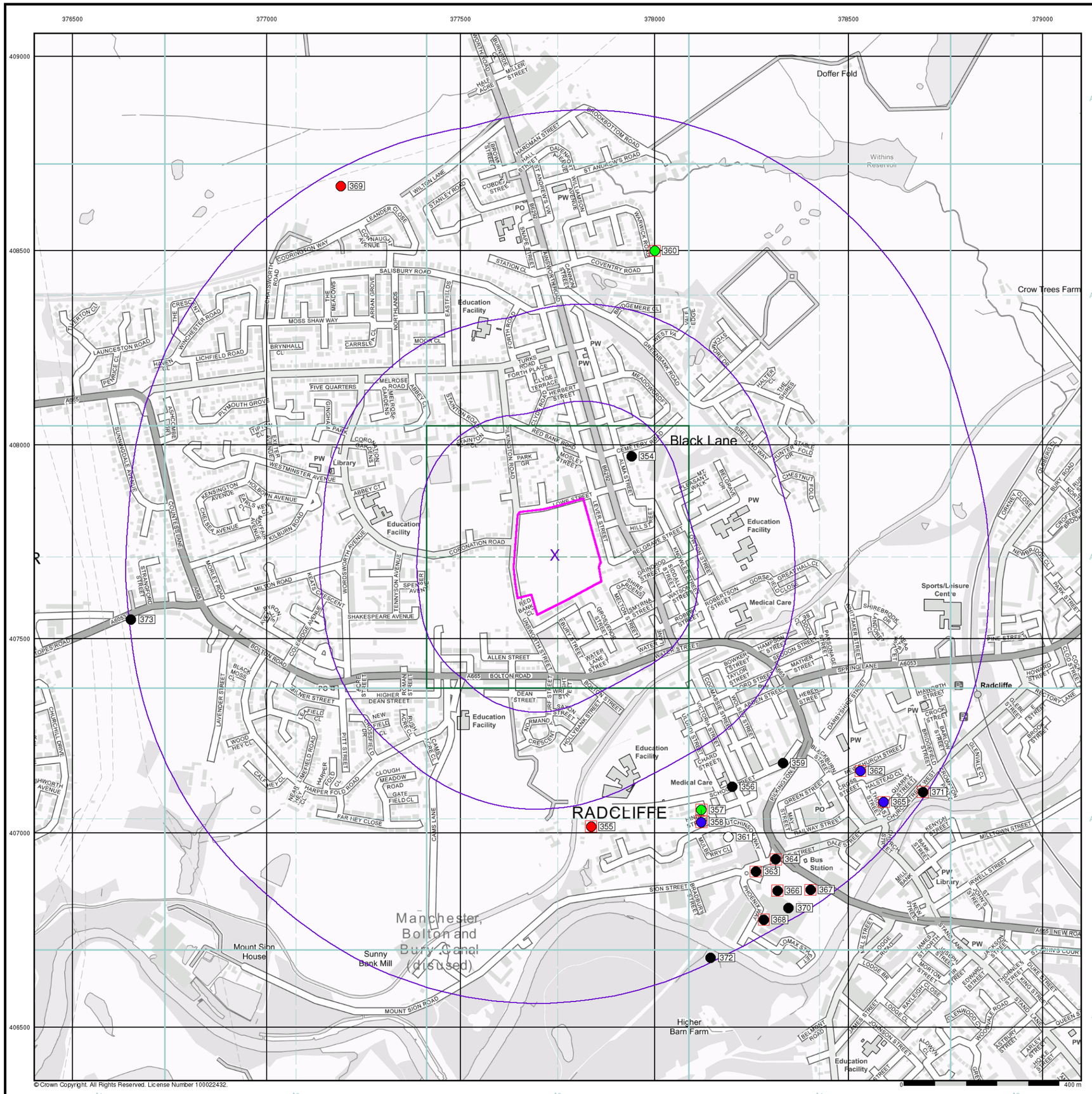
Order Number:	312867682_1_1
Customer Ref:	STV6052
National Grid Reference:	377740, 407720
Slice:	A
Site Area (Ha):	4.89
Search Buffer (m):	1000

Site Details

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General

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

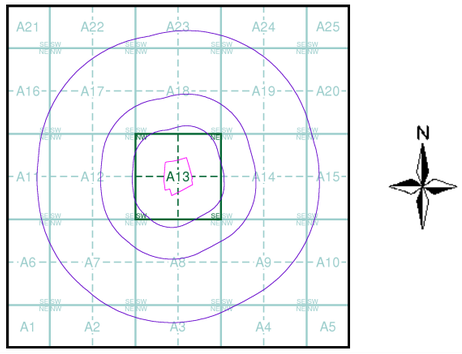
Agency and Hydrological (Boreholes)

- 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

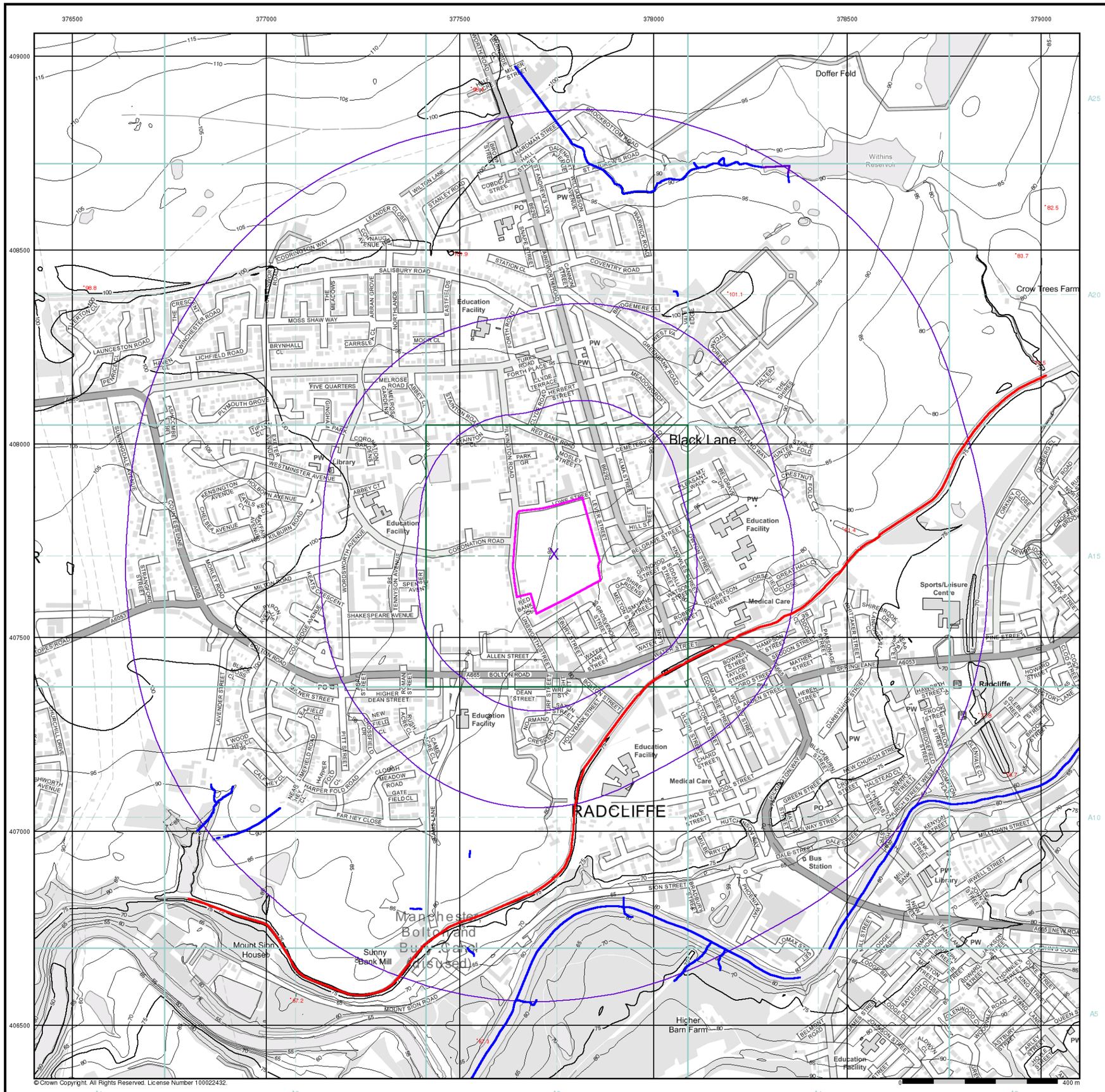
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Customer Ref:	STV6052
National Grid Reference:	377740, 407720
Slice:	A
Site Area (Ha):	4.89
Search Buffer (m):	1000

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General

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

OS Water Network Data

- Canal
- Reservoir
- Foreshore
- Marsh
- Tidal River
- Inland River
- Drain
- Other
- Lake
- Transfer
- Lock Or Flight Of Locks
- Sea

Contours (height in meters)

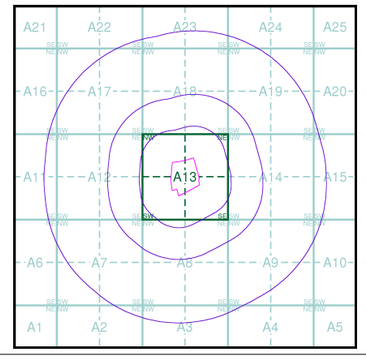
Standard Contour 105 100 95

Master Contour

Spot Height 167.3

- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



Order Details

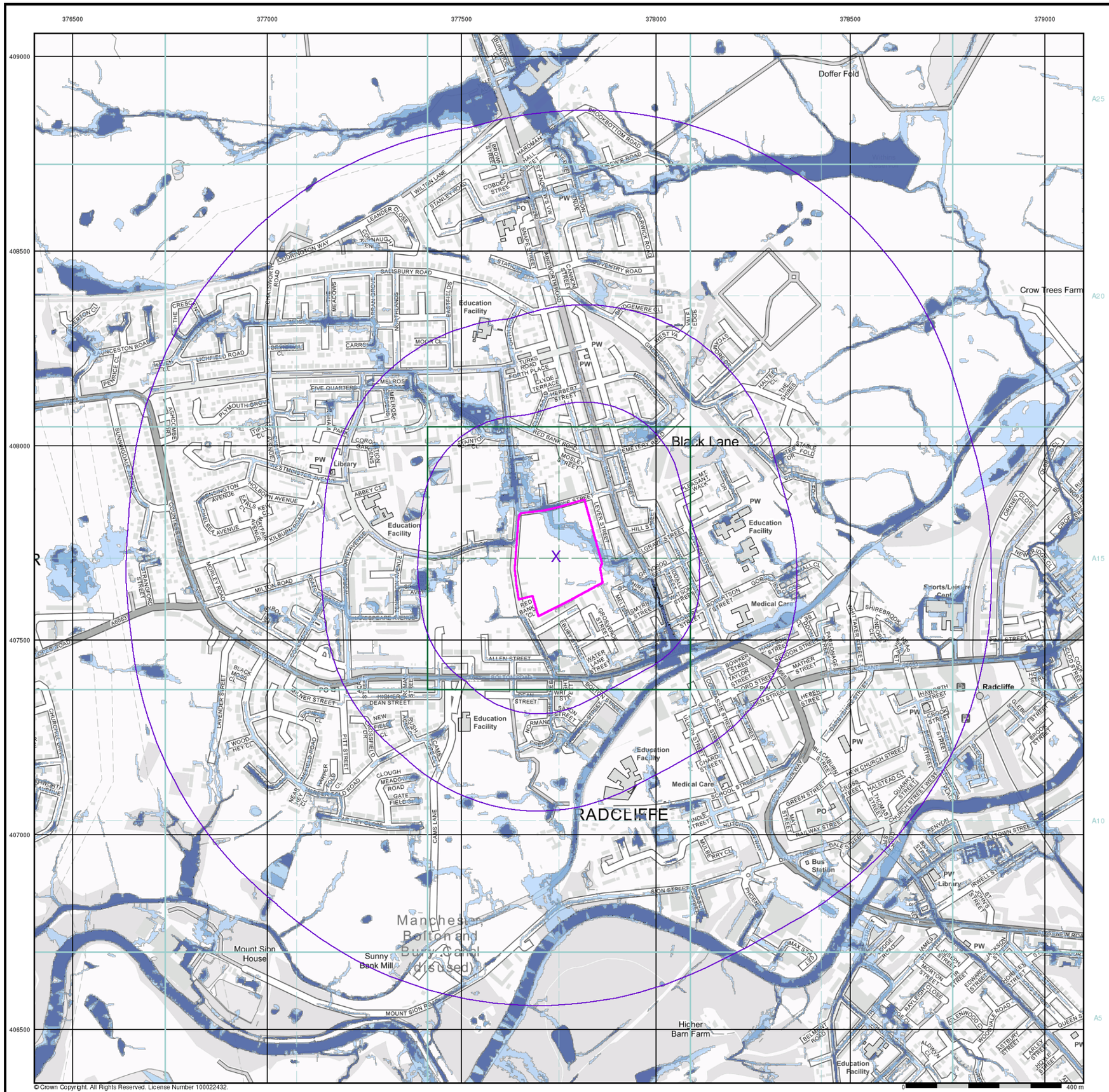
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General

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

Risk of Flooding from Surface Water

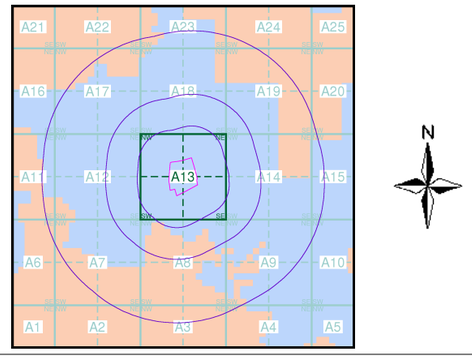
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EA/NRW Suitability Map - Slice A



Order Details

Order Number:	312867682_1_1
Customer Ref:	STV6052
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Site Area (Ha):	4.89
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General

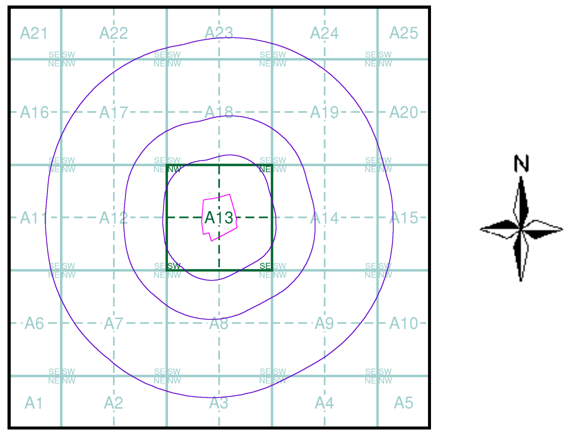
Specified Site   Specified Buffer(s)   X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Estimated Soil Chemistry Arsenic - Slice A



Order Details

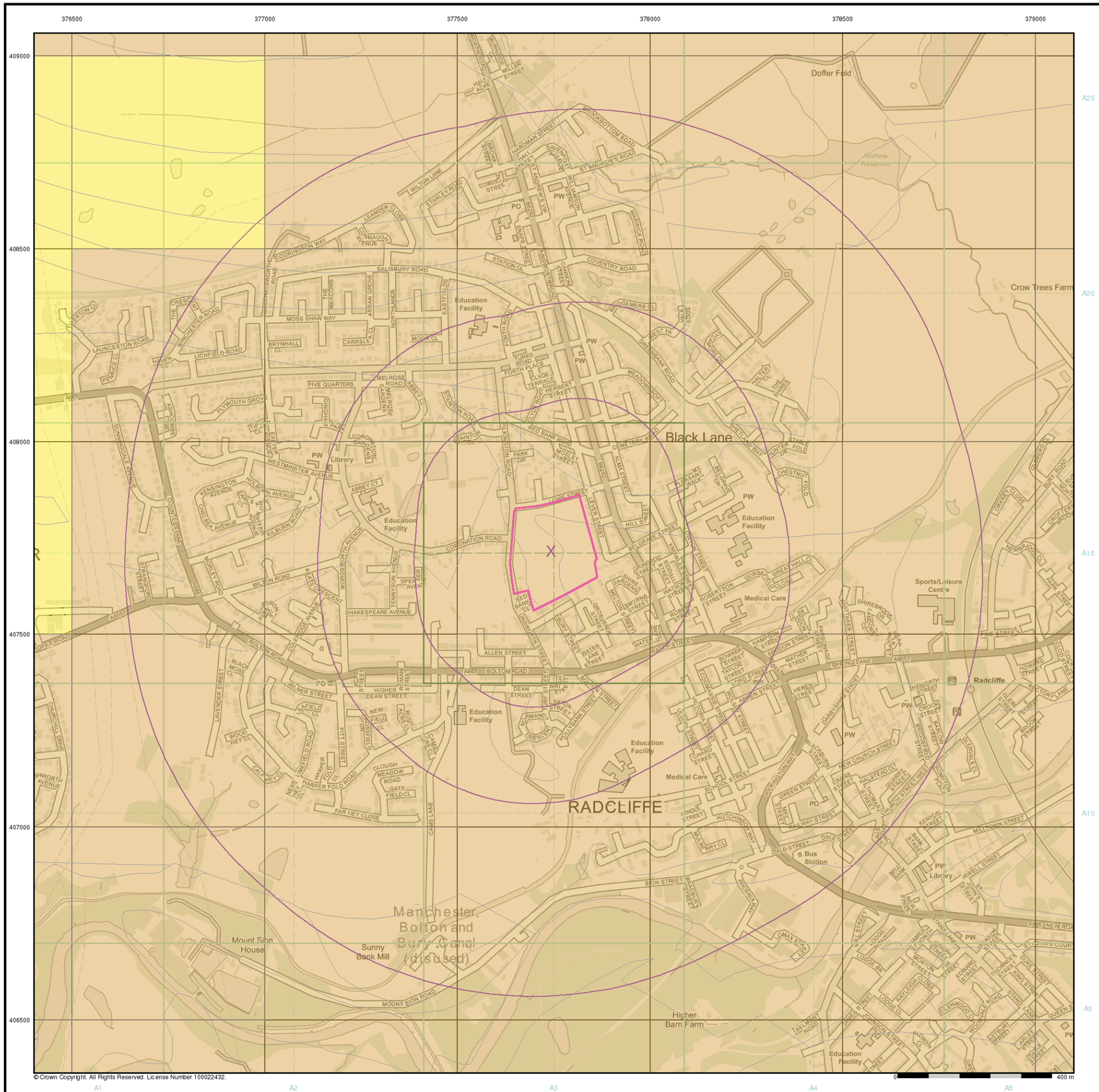
Order Details: 312867682_1_1
Customer Ref: STV6052
National Grid Reference: 377740, 407720
Slice: A
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Search Buffer (m): 1000

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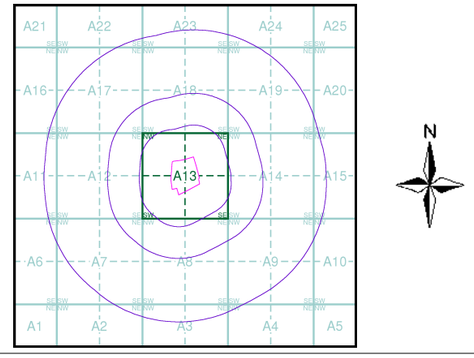
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

Estimated Soil Chemistry Cadmium - Slice A



Order Details

Order Details:	312867682_1_1
Customer Ref:	STV6052
National Grid Reference:	377740, 407720
Slice:	A
Site Area (Ha):	4.89
Search Buffer (m):	1000

Site Details

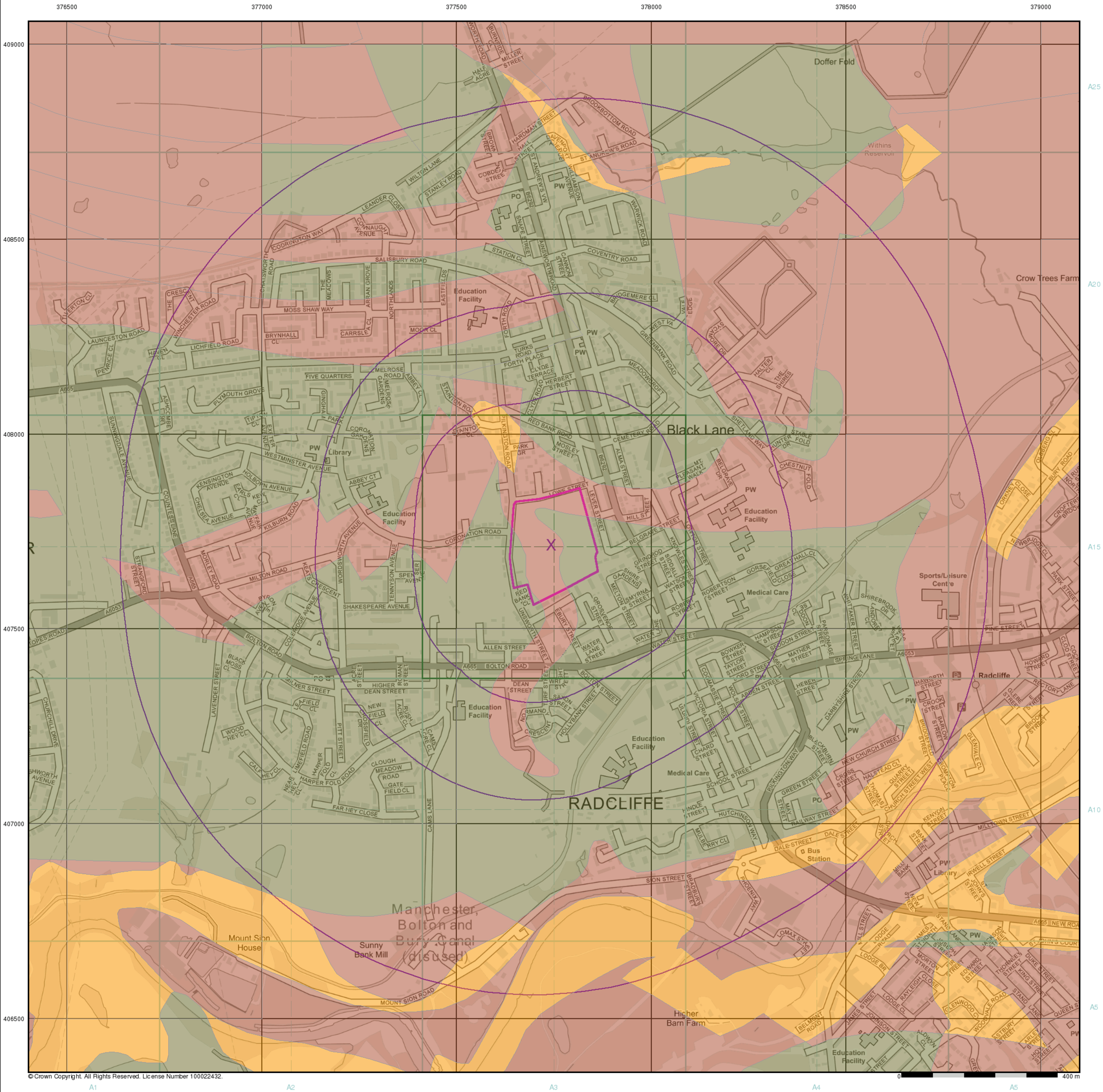
Redbank Playing Fields, Radcliffe, MANCHESTER, M26 4PB

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General

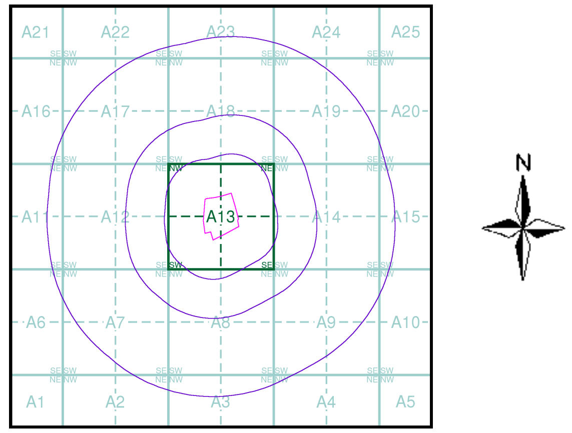
Specified Site   Specified Buffer(s)   X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Estimated Soil Chemistry Chromium - Slice A



Order Details

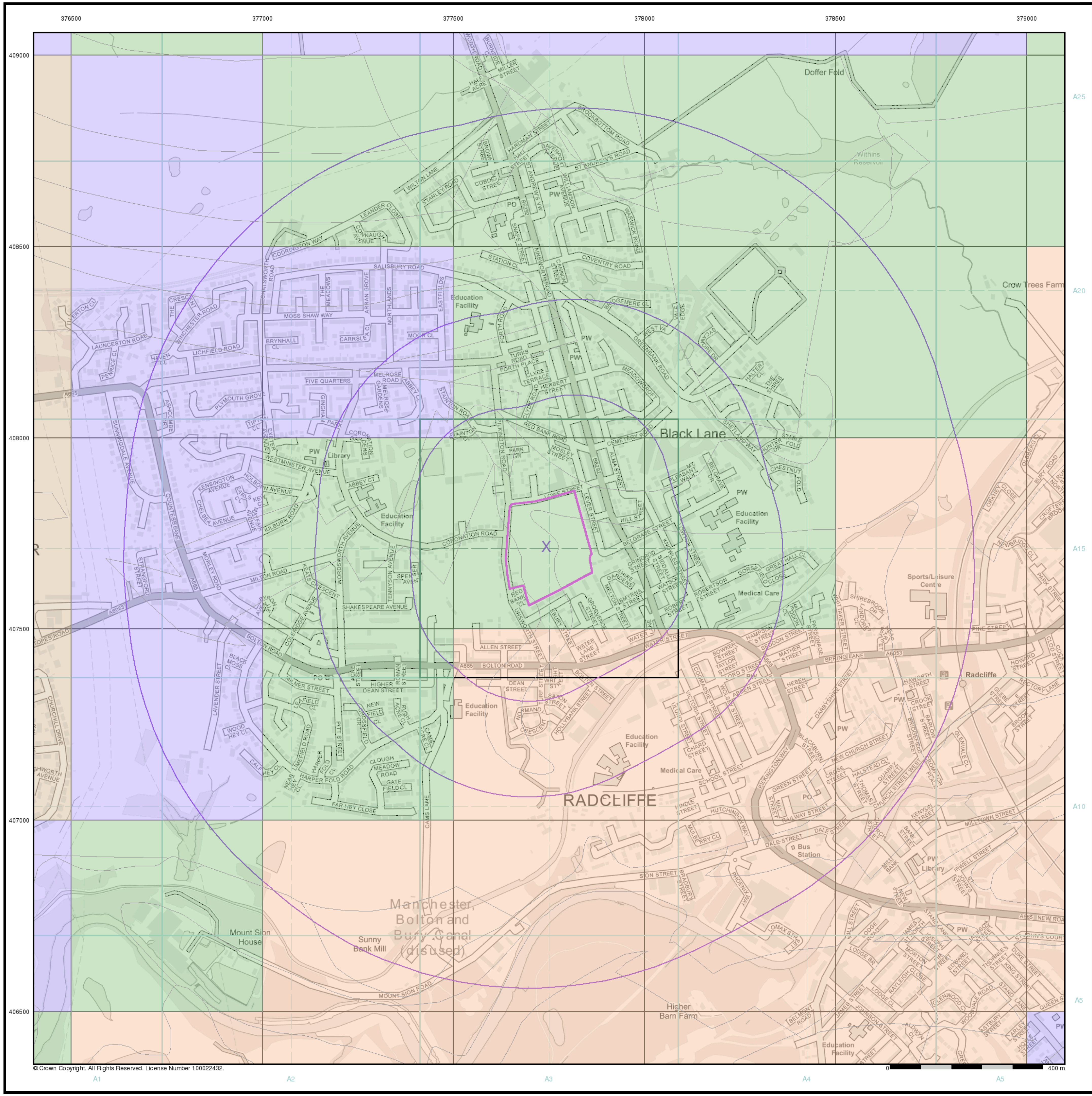
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General

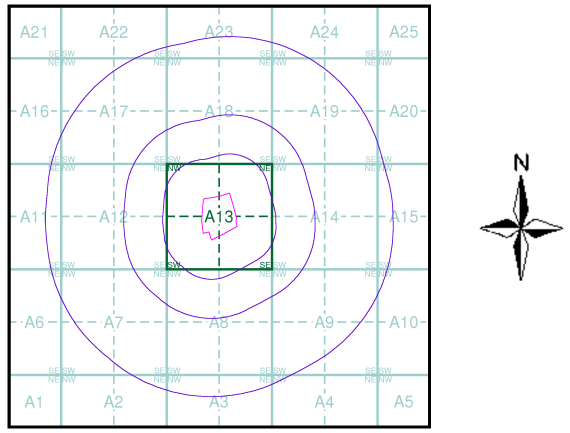
Specified Site   Specified Buffer(s)   X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- <100 mg/kg
- 100 - 200
- 200 - 300
- 300 - 600
- 600 - 1200
- >1200

Estimated Soil Chemistry Lead - Slice A

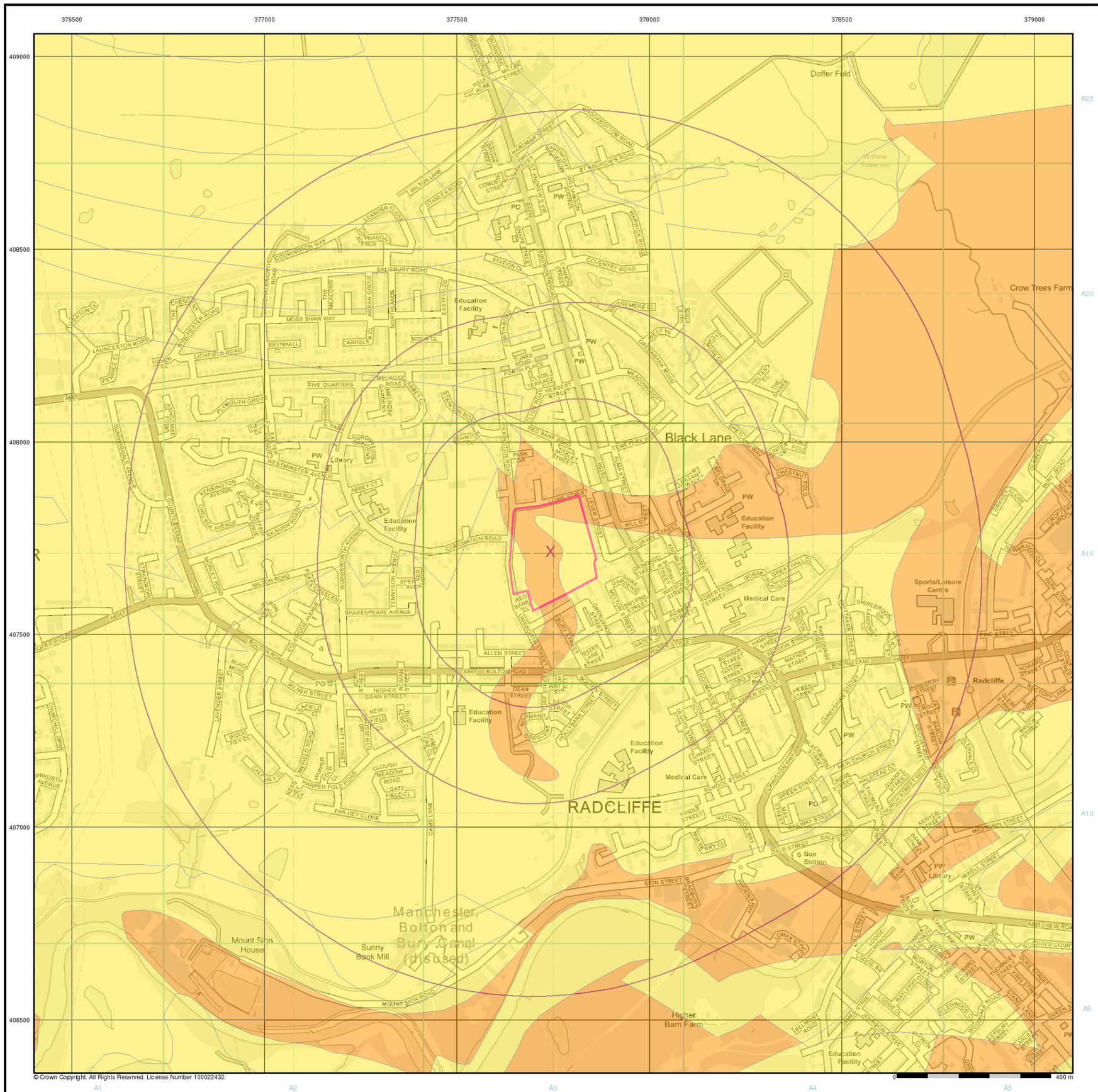


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Search Buffer (m): 1000

Site Details

Redbank Playing Fields, Radcliffe, MANCHESTER, M26 4PB



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General

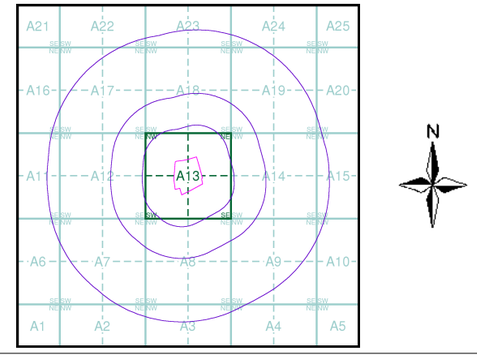
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Estimated Soil Chemistry Nickel - Slice A



Order Details

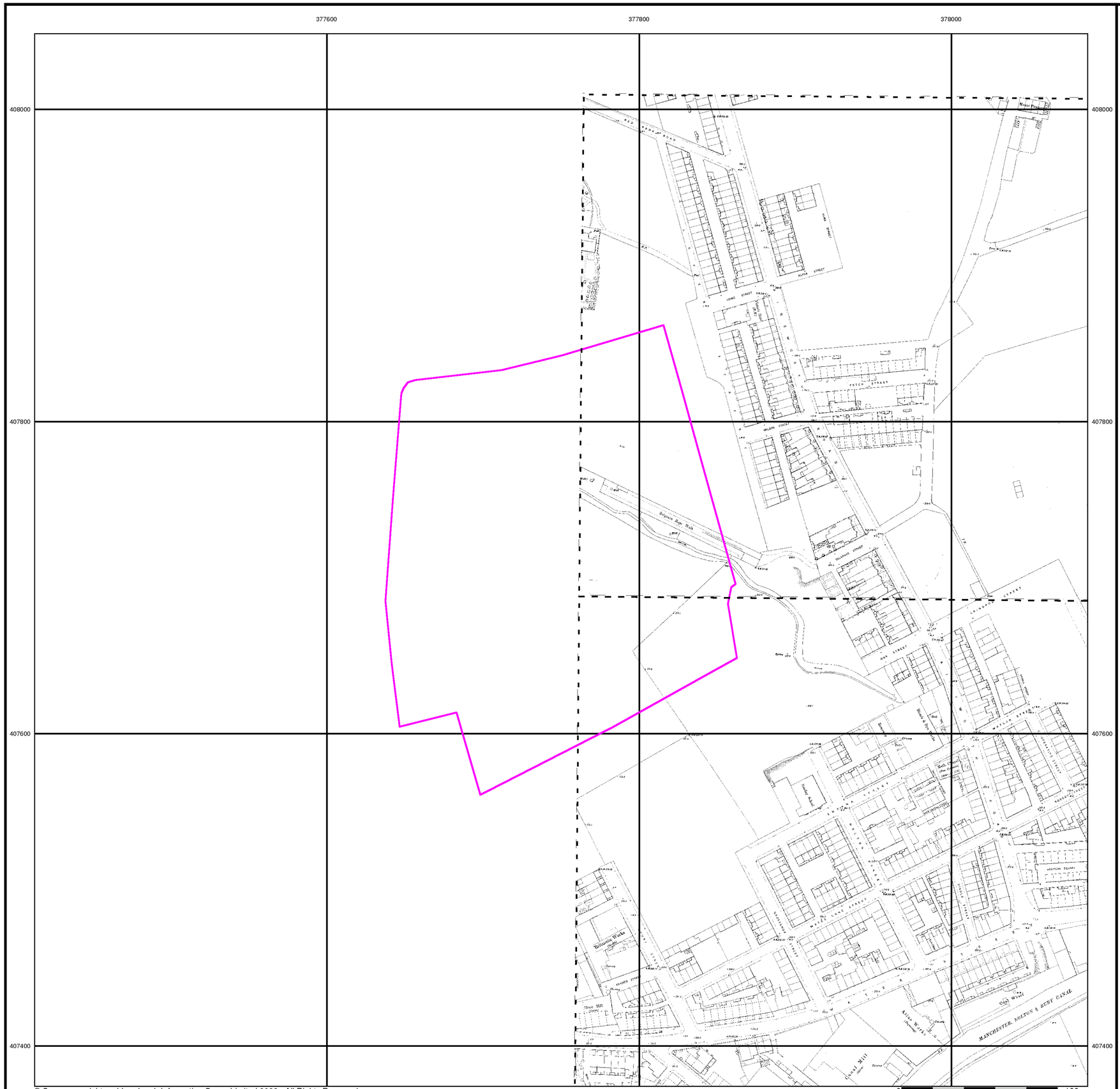
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Customer Ref:	STV6052
National Grid Reference:	377740, 407720
Slice:	A
Site Area (Ha):	4.89
Search Buffer (m):	1000

Site Details

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Lancashire And Furness

Published 1891

Source map scale - 1:500

The 1:500 scale Ordnance Survey mapping was introduced in 1855 as a replacement for the 1:528 scale and to compliment the 1:2500 scale that had been implemented in 1853. By 1895, the 1:500 scale covered most towns over a population of about 4000 at the time of survey, although very few towns were mapped more than once at this scale, and none have been since 1910. The 1:500 scale gives particular emphasis to such features as lamp posts, man holes, arched passages and minor building projections. Also often featured are divisions between tenements, interior ground floor layouts of public buildings, and on earlier plans, the functions of the various parts of larger industrial premises are also indicated. Content of the plans does vary however, from one town to the next in terms of, for example, the completeness of railway tracks and the coverage of public buildings.

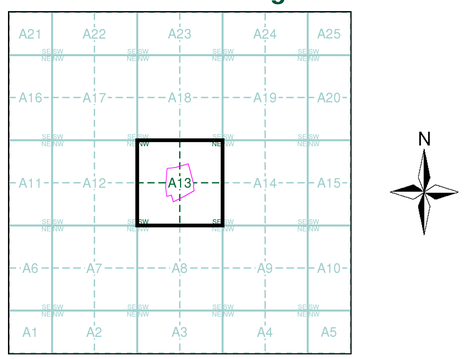
Please note: Due to the partial coverage of Historical Town Plans, it is possible that not all segments within an order will contain mapping. Only the segments that have Town Plan coverage will be generated.

Map Name(s) and Date(s)

095_04_002
1891
1:500

095_04_007
1891
1:500

Historical Town Plan - Segment A13



Order Details

Order Number:	312867682_1_1
Customer Ref:	STV6052
National Grid Reference:	377740, 407720
Slice:	A
Site Area (Ha):	4.89
Search Buffer (m):	0

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Appendix I Previous Site Reports

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Coal Mining Risk Assessment Report

Proposed floodlit artificial 3G pitch

Redbank Playing Fields

February 2021



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Proposed floodlit artificial 3G pitch

Redbank Playing Fields

Document Title:	Coal Mining Risk Assessment Report
Document no.:	STT-5261-CMRA01 Rev A
Date:	February 2021
Client:	The Football Foundation

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Document history and status

Revision	Date	Description	Author	Checker	Reviewer
A	February 2021	First Issue	JP	MOH	SCD

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1 Introduction

1.1 Project Brief

1.1.1 The project comprises construction of a 106m x 70m LED floodlit 3G Football Turf Pitch (FTP), including extension of the existing car parking area to the southwest of the field. A new pavilion is also proposed, with either demolition of the existing facility or refurbishment for storage. At present, the proposed location of the new pavilion is not known, however, we have assumed for the purposes of this assessment that it would be positioned local the area of the proposed pitch.

1.1.2 The scope of works has been completed in accordance with the framework agreement for a Coal Mining Risk Assessment Report. The purpose of this Coal Mining Risk Assessment Report is to:

- Present a desk-based review of all available information on the coal mining issues which are relevant to the option site.
- Use the above information to identify and assess the risks to the proposed development from coal mining legacy, including the cumulative impact of issues.
- Set out appropriate mitigation measures to address the coal mining legacy issues affecting the site, including any necessary remedial works and/or demonstrate how coal mining issues have influenced the proposed development.
- Demonstrate that the site is, or can be made, safe and stable.

1.1.3 A Coal Mining Risk Assessment Report is required for developments within a designated 'Coal Mining Development High Risk Area'. 'Coal Mining Development High Risk Areas' are areas, based upon Coal Authority records, where the potential land instability and other safety risks associated with former coal mining activities are likely to be greatest. They include, for example, areas of known or suspected shallow coal mining, recorded mine entries and areas of former surface mining. This assessment is based upon the guidance documents outlined below and comprises a review of available desk-based information.

1.1.4 We have reviewed available information in relation to coal mining to produce a risk assessment where possible and following guidance for Coal Mining Risk Assessments on https://www.gov.uk/guidance/planning-applications-coal-mining-risk-assessments produced by The Coal Authority, in addition to information contained within CIRIA report C758 "Abandoned mine workings manual" (2019).

1.2 Site Setting

1.2.1 The proposed Redbank Playing Fields development is within Radcliffe, approximately 200m north of the A665 and is at postal code M26 3RF. The site is accessed from Unsworth Street. The proposed pitch development lies centrally within an existing grass-surfaced sports field, with a small facilities building and car parking area to the southwest.

1.2.2 Surface levels across the majority of the pitch are relatively flat; however there is a notable drop in elevation within the southeast corner.

1.2.3 A site location plan is presented in Drawing 01.

1.3 Soiltechnics liability

1.3.1 Soiltechnics disclaims any responsibility to our Client and others in respect of any matters outside the scope of this report. This report has been prepared with reasonable skill, care and diligence in accordance with the terms of our contract, taking account of the manpower, resources, investigations and testing devoted to it by agreement with our Client. This report is confidential to our Client and Soiltechnics accepts no responsibility of whatsoever nature to third parties to whom this report or any part thereof is made known. Any such party relies upon the report at their own risk.

2 Review of Desk-Based Information

2.1 Sources of information

2.1.1 The following sources of information have been used in production of this report and are summarised in the following sections:

- Historical Ordnance Survey Maps
- Consultants Coal Mining Report produced by The Coal Authority
- Geological information obtained from the British Geological Survey
- Data Sheets of the British Geological Survey for Manchester District
- Abandonment plans
- Other relevant information

2.2 Site History

2.2.1 An attempt to trace the history of the site has been carried out by reviewing readily available Ordnance Survey maps. The earliest available maps date back to the late 1800s, and shows a watercourse flowing through the pitch (NW to SE), along with a rope-walk present along-side it. A well and a spring are also noted to be present within the approximate footprint of the proposed pitch.

2.2.2 By the mid-1930s, a refuse tip / landfill is encroaching within the site's northern boundary, and has extended further still within the 1950s mapping; however, its full extent is not clear.

2.2.3 From the 1960s, the site appears to have been covered, and made into an area of public open space. The small building within the southwest of the site, along with the carparking area is recorded from circa. 1970.

2.3 Recorded Geology

2.3.1 An extract from open-source British Geological Survey (BGS) mapping data for the area is presented in Figure 2, below. Superficial deposits are predominantly Devensian Till (clay), with a glacial river channel present within the west of the site, depositing Glaciofluvial Deposits (sands and gravels).

2.3.2 The BGS does not record significant artificial deposits to be present on site, or within close proximity.

2.3.3 The underlying bedrock is recorded to be the Pennine Lower Coal Measures, with two inferred coal seams present in close proximity to the site.

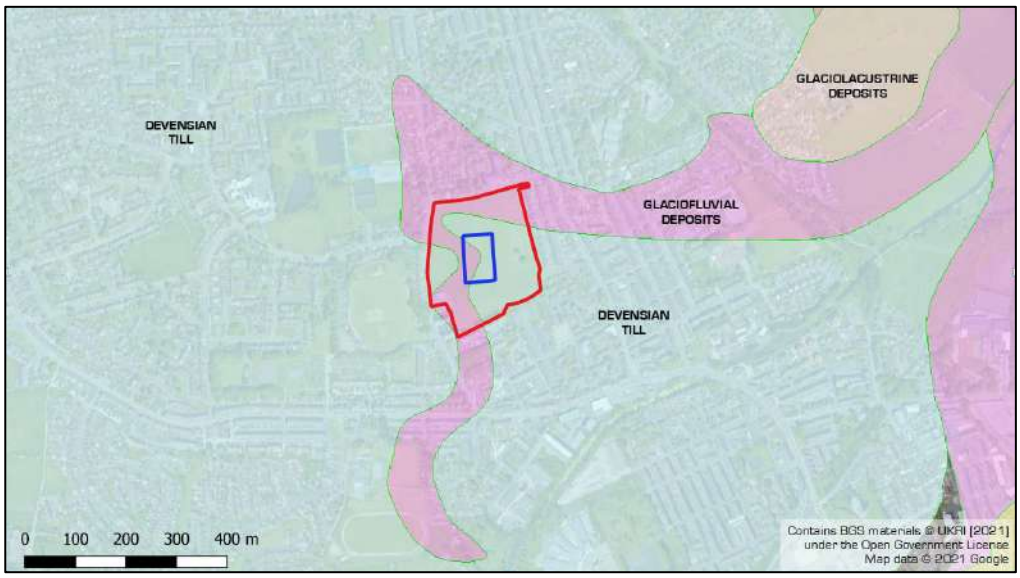


Figure 2-1 Superficial geology, artificial deposits and linear features
Map data © 2020 Google. Contains BG*S materials © UKRI [2020]*

2.3.4 From the site's history Made Ground / landfill deposits are expected to be present within the Redbank playing field. It is unclear whether these deposits extend across the pitch boundary or are restricted to the north. The table below summarises potential ground conditions on site:

Strata	Bedrock or superficial	Approximate thickness	Typical soil type
Made Ground (Domestic landfill)	-	Unknown depth and extent	Reworked imported soils over household waste
Glaciofluvial Deposits (west)	Superficial	<10m	Sands and gravels
Devensian Till (most of the site)	Superficial	<10m	Clays
Pennine Middle Coal Measures Formation	Bedrock	Basal unit	Sandstone, mudstone and siltstone with coals

Table 1: Summary of anticipated geology

2.3.5 Based on local BGS borehole records we anticipate the Glaciofluvial Deposits and Devensian Till to amount to a thickness of approximately 10-12m within the area.

2.3.6 Extracts from the 1:50,000 BGS Solid Geological maps are presented below with the approximate locations of the site outlined in red and blue. An extract of the geological succession is also presented below.

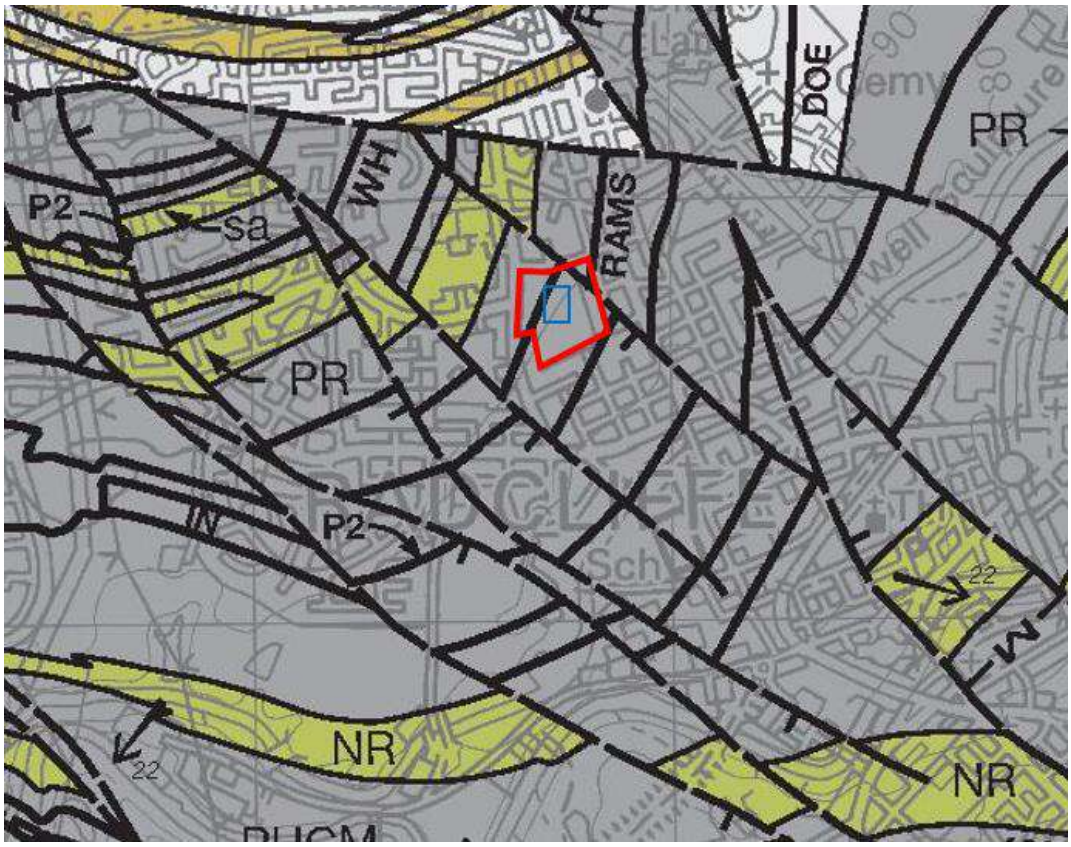


Figure 2-2 BGS solid geological map for Manchester
© British Geological Survey ©NERC

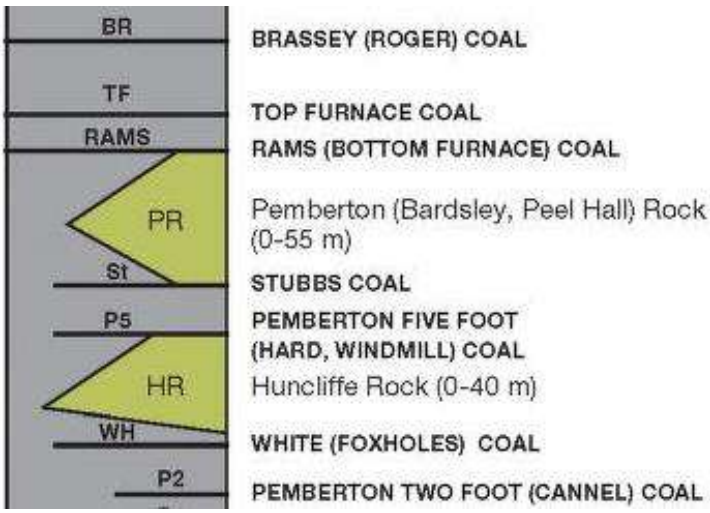


Figure 2-3 BGS solid geological succession for Manchester
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2.3.7 The geological map indicates that the Pennine Middle Coal Measures dip at an angle of around 22° to the south east (local to the site). As shown on Figure 2-2 a fault is recorded across the north east of the site (likely attributed to the Bradley Fold Fault) which downthrows to the south west. Such faulting may influence the local dip of bedrock.

2.3.8 Based on published geological records either the Top Furnace or Brassey (Roger) coal seam subcrops within the Redbank playing field to the south east of the proposed development area (south of fault line) and likely dips to the south east. We, therefore, do not anticipate this seam to be present beneath the proposed development area (footprint of proposed pitch).

2.3.9 The Rams (Bottom Furnace) coal seam subcrops at the north western boundary of the proposed development site (south of fault line) within the Redbank playing field and again likely dips to the south east. We, therefore, anticipate this seam to be present beneath the proposed development area (footprint of proposed pitch). The Rams coal seam is also recorded to the north of the fault (within the north east of Redbank playing field). Given the location of the proposed development area in relation to the fault line, this additional seam is not anticipated to be recorded beneath the proposed development area.

2.3.10 It should be noted that mines often used local nomenclature to define coal seams in the Manchester coal fields. We understand that the Roger coal seam is also known as the Nine Feet seam, with the Rams coal seam also known as the Six Feet coal seam.

2.4 Consultants Coal Mining Report

2.4.1 The Consultants Coal Mining Report contains basic information on coal mining features and associated land instability risks within and adjacent to the subject site. A copy of this report is presented in Appendix A.

2.4.2 The report states that the property is in an area that could be affected by underground mining in 4 seams of coal, located between depths of 15m and 323m below the site. These seams are recorded to have been worked at various times between 1880-1900. In addition, the property is in an area where the Coal Authority believes there is coal at or close to the surface which has may have been worked in the past.

2.4.3 The report states both the Roger and Rams coal seams subcrop beneath the Redbank playing field and dip at 9.5^{o} east and 6.9^{o} south, respectively. We understand these seams were possibly worked at a depth of 15m and 55m to the south of the Redbank playing field. We understand that extraction thicknesses of 2.0m and 1.8m are recorded for both the seams.

2.4.4 The remaining two seams (the Trencherbone and Cannel) both dip towards the south and are recorded beneath the site between 280m and 323mm, respectively. Each had an extraction thickness of 1.1m and 0.9m, respectively.

2.4.5 Based on the above information we anticipate the Top Furnace coal seam is absent from site.

2.4.6 A single mine entry (377407-011) is recorded to the south east of the Redbank playing field, at grid reference 377862, 407627. We anticipate, given its location that the Mine entry was utilised for offsite mining (to the south east of the playing field) related to both the Roger and Rams coal seams.

2.4.7 The site is not located within an area of recorded opencast mining or where there are plans or permissions for current or future coal mining. That said, given the presence of the historical landfill (recorded towards the north of the site) there is the possibility that the coals associated to the Rams coal seam may have been exploited via unrecorded opencast mining, and since been infilled with landfill waste. Such a theory would need to be ratified through onsite investigation.

2.5 BGS Borehole records and data sheets

2.5.1 BGS borehole records SD70NE355 and SD70NE31 both recorded coal seams at depths between ~30m and ~50m some 500m to the south of the Redbank playing field. However, due to the dip and extent of faulting recorded within the area (see Figure 2-2) these seams are unlikely to be representative of the seams recorded directly below the Redbank playing field.

2.5.2 The BGS geological data sheets for the Manchester District states the Roger coal seam ranges between 0.3-1.2m in thickness, whilst the Rams coal seam is 0.8-2.4m in thickness.

2.6 Development High Risk Area

2.6.1 The Coal Authority website indicates that the site is located in a Development High Risk Area (areas where the potential land instability and other safety risks associated with former coal mining activities are likely to be greatest). An extract from the viewer is provided below.



Figure 2-4 Coal Authority viewer, development high risk areas (hatch)

2.6.2 The above figure also shows areas of past shallow coal mine workings (blue). As indicated by the viewer, workings are recorded towards the south east of the Redbank playing field and beyond. Based on the information obtained, it is likely this is related to the Roger coal seam in this part of the site, mined via the recorded mine entry detailed below, which also likely extended down to the underlying Rams coal seam.

2.7 Mine entries

2.7.1 The Consultants Mining Report indicates there is one recorded mine entry within 100m of the site (377407-011), recorded immediately beyond south east boundary of the Redbank playing field. Based on the information within the Consultants Mining Report, we anticipate the mine entry was used to extract coals within the Roger and Ram coal seams at depths of 15m and 55m, respectively.

2.8 Abandonment plans

2.8.1 The Coal Authority Consultants Report (Appendix A) records several abandonment plans available for historic mines which intersect some or near to the site.

2.8.2 We have obtained abandonment plan 1249, which we understand to contain coal mining records at less than 50m depth. The abandonment plan relates to the nine feet mine (or top three yards mine) associated with the Radcliffe Colliery. This is the local term for the Roger Coal seam, which subcrops in the south-eastern part of the Redbank Playing field. The abandonment plan indicates that the coals dipped at an angle of ~9.5° to the southeast, and that mining took place offsite to the southeast, as shown on below.

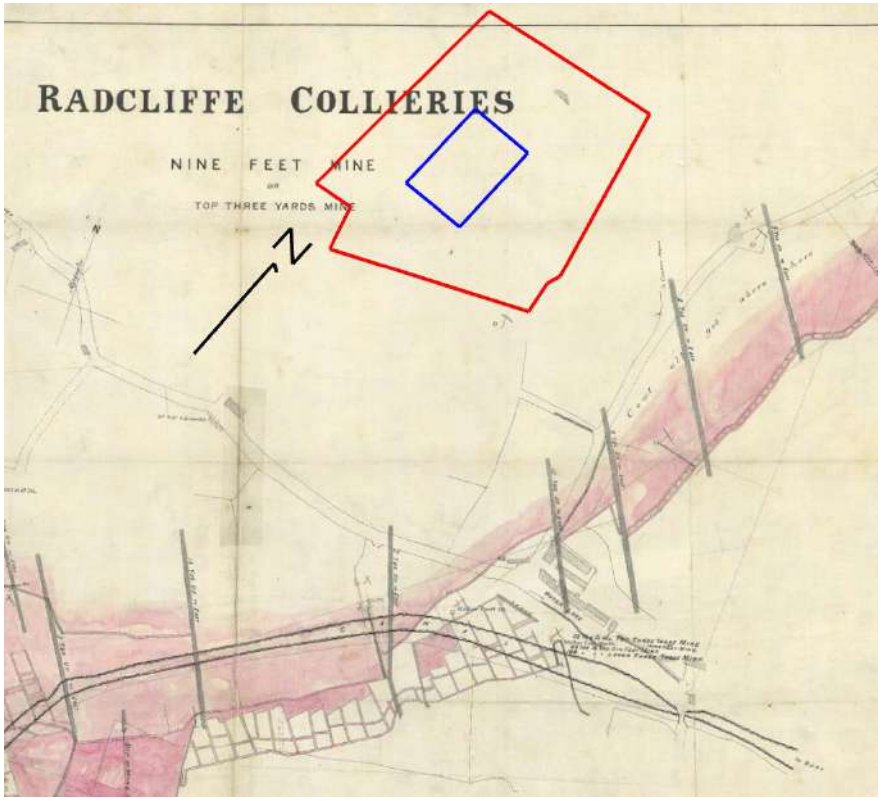


Figure 2-5 Abandonment plan 1249, with approximate area of coal mine shown in red.

2.8.3 The plan suggests that the coal above (presumably up dip/gradient) the worked coal has been 'got' already, suggesting the mine working extends back towards the subject site. This would correlate with the records of shallow recorded workings presented on the Coal Authority viewer (see Figure 2-4), however, physical plans are not available.

2.9 Mine Gas

2.9.1 Mine gas, also known as 'damp' or 'firedamp', can be produced in coal workings and can migrate vertically when pathways are present. These principally comprise methane, carbon monoxide, carbon dioxide, nitrogen and hydrogen sulphide, which are also the principal gases of concern in landfill gas investigations.

2.9.2 The Consultants Mining Report states that the Coal Authority has no record of any onsite mine gas emission requiring action.

3 Identification and assessment of site-specific coal mining risk

3.1 Risk Summary

3.1.1 The table below summarises the potential risks associated with coal mining legacy at the site, identified from the sources of information as presented in preceding sections of this report: -

Summary of risk assessment in relation to coal mining legacy			
Strata	**Yes**	**No**	**Risk assessment**
Underground coal mining (recorded at shallow depths)	✓		Further assessment required
Underground coal mining (recorded at depths >30m)	✓		Further assessment required
Underground coal mining (probable at shallow <30m depths)	✓		Further assessment required
Mine entries (shafts / adits)		X	Not applicable
Coal mining geology (fissures)		X	Not applicable
Record of past mine gas emissions		X	No but possible
Recorded coal mining surface hazard	✓		Further assessment required
Surface mining (opencast workings)	✓		Further assessment required

Table 3.3.1

3.2 Underground coal mining (recorded at shallow depths)

3.2.1 Our assessment in the preceding sections of this report has indicated the presence of recorded workings within a number of coal seams between depths of 15m to 323m to the south of the Redbank playing field. The shallowest of these is the Roger coal seam located at depths of 15m. Extraction thicknesses of up to 2.0m could have been recorded within the Roger coal seam, last worked in 1880.

3.2.2 The Roger coal seam outcrops to the south of the proposed development area (within the southern extent of the Redbank playing field) and likely dips towards the east/south east, as such any worked coals associated to the Roger coal seam would likely be located on the south-eastern corner of Redbank playing field and, therefore, unlikely to affect the proposed pitch development. We anticipate such coals were worked via the mine entry at 377407-011 also recorded immediately beyond the southern boundary of the Redbank playing field.

3.3 Underground coal mining (recorded at >30m depth)

3.3.1 Records indicate the Rams coal seam to have been worked at a depth of 55m to the south east of the Redbank playing field and would have likely been mined via the entry immediately to the south (377407-011). It is, therefore, unlikely that such recorded coal mining would pose a risk of land instability to the proposed pitch development given its depth and distance from the development area.

3.3.2 Both the Trencherbone and Cannel coal seams are also recorded within the area, worked at depths of 280m and 323m, respectively. Given their depth, we do not consider these to pose a risk of land instability to the proposed development.

3.4 Underground coal mining (probable at shallow <30m depth)

3.4.1 Although records indicate the Rams coal seam was worked to the south east of the Redbank playing field, the seam also subcrops on the northwest corner of the proposed pitch development area.

3.4.2 The Rams, therefore, dips beneath the proposed development area at an approximate angle of 7° towards the south east of the Redbank playing field, where it is then recorded to have been worked at a depth of 55m. Based on the anticipated thickness of superficial deposits overlying bedrock, the Rams seam could be located at depths of c.10m below the north west corner of the pitch, dipping to the south east and present at depths of c.23m at the south east corner of the proposed pitch.

3.4.3 Although there are no records to indicate the Rams coal seam was ever worked beneath the proposed development area, it was not until 1872 that there was a legal requirement to deposit abandonment plans with the secretary of state, thus some unrecorded mining may have been carried out within the Rams coal seam beneath the proposed development area and as indicated by the Coal Authority.

3.4.4 Using guidance contained within CIRIA C758, if we assume a conical collapse of any unrecorded working of the Rams seam beneath the site (assuming an extraction thickness of 1.8m, as detailed in Section 2.4.3), and assuming pillar and stall type workings, then we would anticipate following roof collapse that the resultant void would potentially migrate to depths between surface level (north-western area) and 5m below surface level (south-eastern area) across the proposed pitch area.

3.4.5 We therefore consider the possible shallow mining of the Rams coal seam to pose a risk of land instability to the proposed development, which will require further consideration.

3.5 Recorded coal mining surface hazard

3.5.1 The site is recorded in a development high risk area, associated with probable shallow workings of both the Ram coal seam below the proposed pitch area. Based on such and the above, there is clearly the potential for coal related public safety issues within the site that need to be addressed.

3.6 Surface mining open cast workings

3.6.1 Historical records indicate the presence of landfill across the northern extent of the Redbank playing field circa 1930s. As discussed in Section 2.4.7, there is the possibility that perhaps the landfill represents a former opencast quarry/series of bell pits previously used to exploit near surface coals associated with the Rams seam in the local area. This would, however, be considered speculative as there are no historical features other than the landfill to suggest the possible presence of an opencast quarry, nevertheless, further consideration is required to confirm the nature of the coals beneath the site.

4 Mitigation Strategy

4.1 Summary

4.1.1 Based upon evidence presented in the preceding report sections we have identified possible land instability risks relating to possible unrecorded shallow coal mining within the proposed development area associated to the Rams coal seam.

4.2 Recommendations

4.2.1 In order to quantify the possible land instability risks associated with the probable unrecorded shallow workings in the Rams coal seam, intrusive investigations are recommended. These would consist of a series of rotary boreholes to depths of at least 30m to determine the presence of any possible workings (voids) associated with the Rams coal seam. Most importantly determining if there is sufficient rock cover, thus allowing a risk assessment to be made.

4.2.2 All works will be carried out in accordance with Coal Authority recommendations and guidance presented in CIRIA report C758. It is also recommended that gas monitoring is undertaken during rotary drilling works given the possibility of encountering workings.

4.2.3 A Coal Authority Permit will be required for any intrusive activities which will disturb or enter any coal seams, coal mine workings or mine entries. The exact number, depths and location of exploratory points should also be agreed with The Coal Authority.

4.2.4 We would be pleased to provide proposals for undertaking such investigations on further instruction.

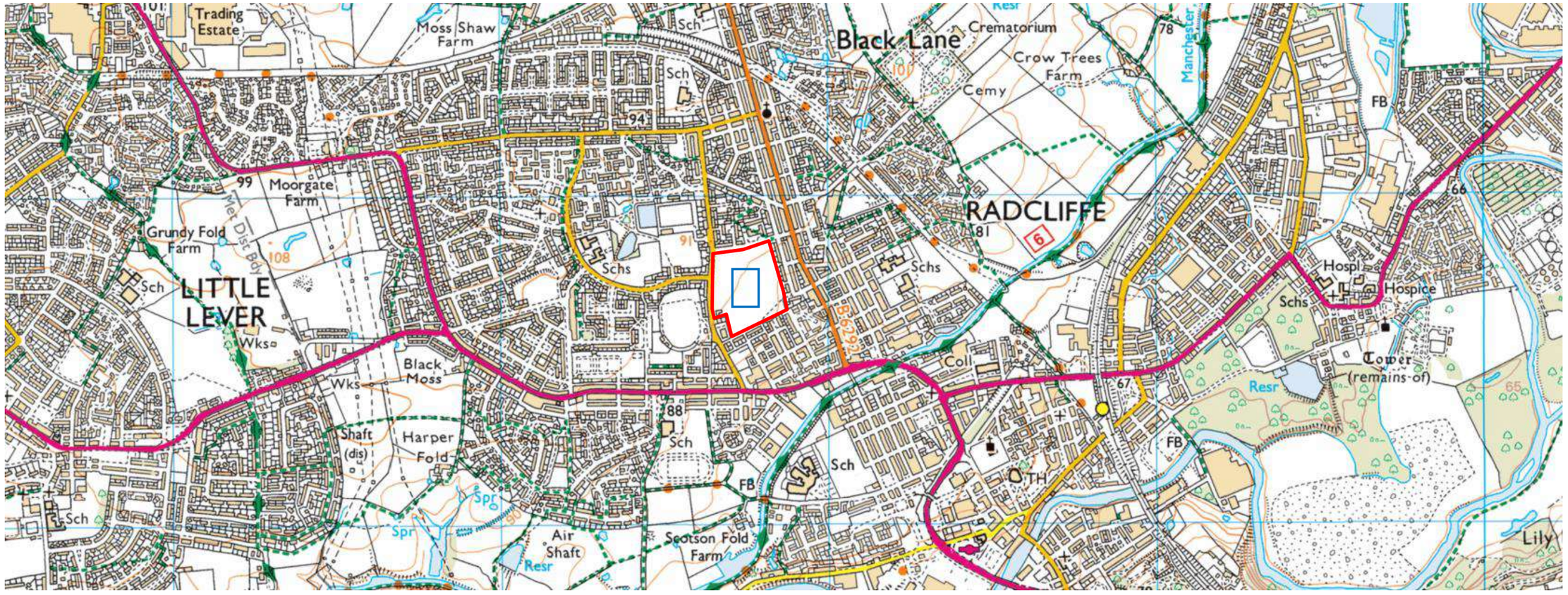
4.3 Mitigation measures

4.3.1 If shallow workings/voids associated with the Rams coal seam are encountered and are considered to present a land instability risk to the proposed development, mitigation measures may include the following: -

- Relocation of any development to safe areas of the site
- Stabilisation of workings using grouting techniques
- Use of piled foundations constructed through and below the workings into more competent rocks.

Drawing 01

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Approximate boundary of playing field shown in RED.
Approximate location of proposed pitch shown in BLUE.

Title	Scale	Drawing number
Site location plan	Not to scale	01

Appendix A Coal Authority Consultants Coal Mining Report

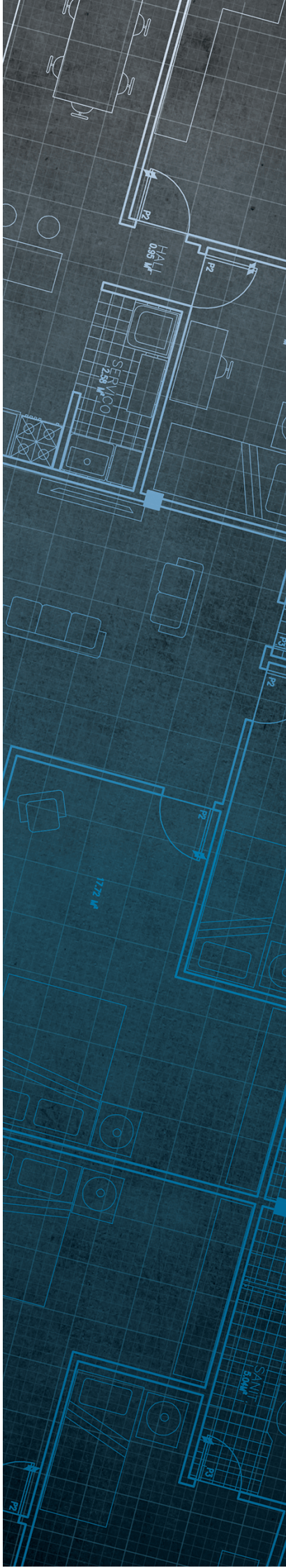
The Coal Authority

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Coal Mining Report

43 Unsworth Street
Radcliffe
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Date of enquiry:	**8 February 2021**
Date enquiry received:	**8 February 2021**
Issue date:	**8 February 2021**
Our reference:	**51002350078001**
Your reference:	**STT5261**



Consultants

Coal Mining Report

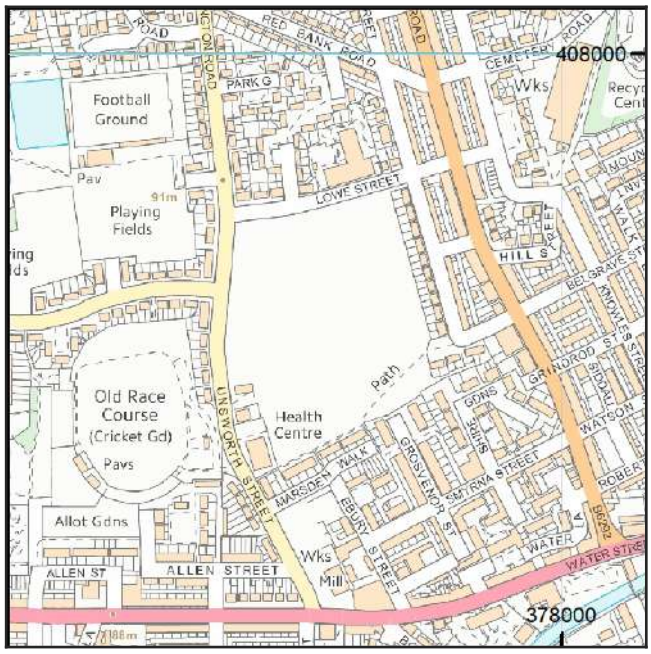
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Client name

Soiltechnics Limited

Enquiry address

43 Unsworth Street
Radcliffe
Bury
M26 3RF



Approximate position of property

Map data

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Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	ROGER	Coal	3Z40	15	Beneath Property	9.5	East	200	1880
unnamed	RAMS	Coal	3YQ3	55	South-East	6.9	South	180	1900
unnamed	TRENCHERBONE	Coal	3YYL	280	West	11.2	South	110	1888
unnamed	CANNEL	Coal	3YPA	323	Beneath Property	9.3	South	90	1894

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	377407-011	377862 407627		Coal	

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

3428	5419	NW1060
NW983	0	16820
1507	NW991	1249

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

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Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
RAMS	Coal	Yes	Within	N/A	7
RAMS	Coal	Yes	Within	N/A	22
ROGER	Coal	Yes	Within	N/A	27

Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Fault under or close to the property recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

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Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

Distance to site investigation (m)	Direction
6.4	North
Within	N/A

See Section 4 for further information.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

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

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

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Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

Coal mining licensing
None recorded within 200 metres of the enquiry boundary.

Court orders
None recorded.

Section 46 notices
No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices
The property is not in an area where a notice to withdraw support has been given.

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

Payments to owners of former copyhold land
The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

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Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

Site investigations

The site is within an area of previous interest. It is close to where the Coal Authority has received information relating to past site investigations.

The site requires further investigation and may influence how you approach your risk assessment.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

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Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk.**

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

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Opencast mines
Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips
Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations
Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites
Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence
Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas
Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission.

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Mine water treatment schemes
Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining
Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing
Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders
Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices
Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices
Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

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The Coal Authority

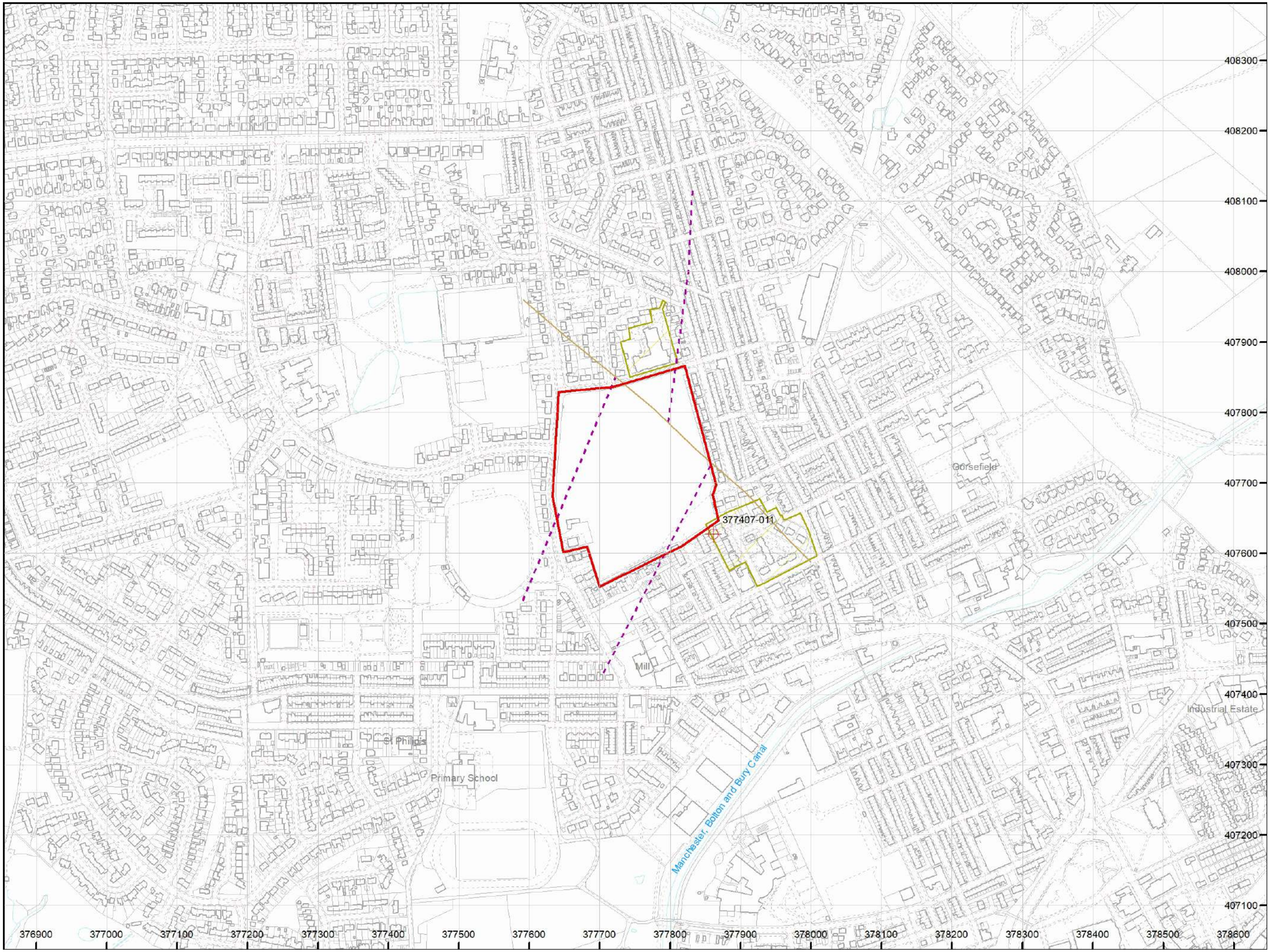
Summary of findings

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Map data

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

- Approximate position of the enquiry boundary shown
- Disused mine shaft
- Outcrop (Conjectured)
- Geological faults
- Site investigations



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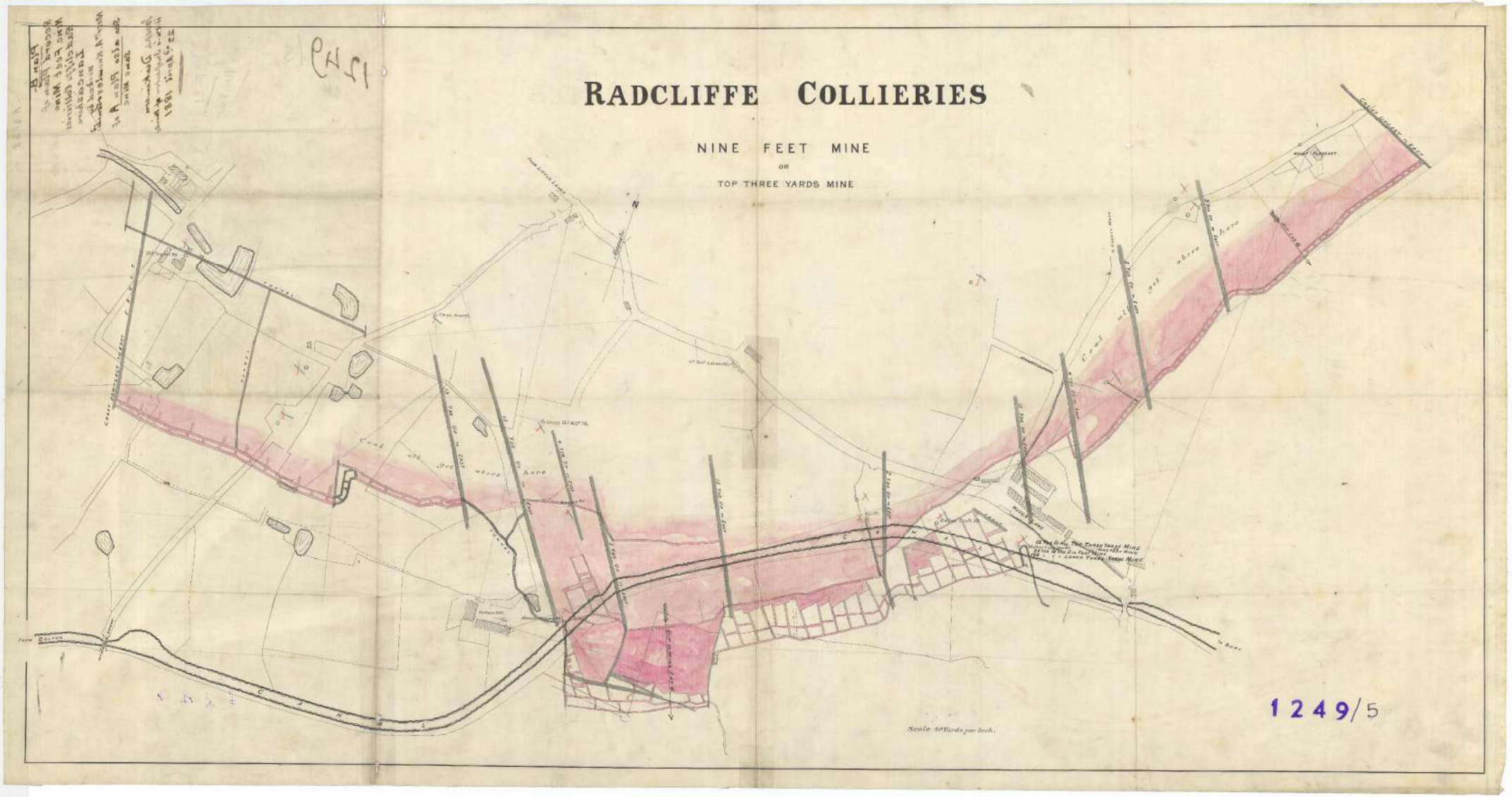
Appendix B Abandonment Plans

RADCLIFFE COLLIERIES

NINE FEET MINE

OR

TOP THREE YARDS MINE



The Coal Authority

Catalogue No.: 1249 Sheet Info: 5 OF 5

Date: 18/02/2021

Scale: 40 YARDS TO 1 INCH (1 TO 1440)

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Ground Investigation Report

Proposed floodlit artificial 3G pitch

Redbank Playing Fields

May 2021



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Proposed floodlit artificial 3G pitch

Redbank Playing Fields

Document Title:	Ground Investigation Report
Document no.:	STT-5261-R01 Rev B
Date:	May 2021
Client:	The Football Foundation

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Document history and status

Revision	Date	Description	Author	Checker	Reviewer
A	May 2021	First Issue	JP	MOH	SCD
B	May 2021	Second Issue (update recommended pitch location)	JP	MOH	SCD

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Executive Summary

Development proposals and site description

The project comprises construction of a 106m x 70m LED floodlit 3G Football Turf Pitch (FTP), including extension of the existing car parking area to the southwest of the field. A new pavilion is also proposed, with either demolition of the existing facility or refurbishment for storage.

Site history

The earliest available maps date back to the late 1800s, and shows a watercourse flowing through the pitch (NW to SE), along with a rope-walk present along-side it. A well and a spring are also noted to be present within the approximate footprint of the proposed pitch.

By the mid-1930s, a refuse tip / landfill is encroaching within the site's northern boundary and has extended further still within the 1950s mapping. From the 1960s, the site appears to have been covered, and made into an area of public open space. The small building within the southwest of the site, along with the carparking area is recorded from circa. 1970.

Ground conditions

The boreholes encountered Made Ground soils between 5.1m and 10.1m below ground level (bgl) overlying Pennine Middle Coal Measures bedrock (typically mudstone with coal seams).

Coal mining

A previous desk-based Coal Mining Risk Assessment has been completed for the site (Report ref: STT-5261-CMRA01 Rev A) which determined shallow coal mining risks could exist. Subsequent intrusive investigations indicated the presence of intact coal seams between depths of 17.9m and 21.9m below the centre of the development area. A likely void and soft strata were recorded at a depth of 26.6m bgl to the south east of the development area.

Based on our assessment, there is unlikely to be a significant risk of land instability occurring at the site as a result of possible collapse of identified workings. However, in consideration of the preliminary stages the development is at currently, it would be prudent to move the location of the proposed pitch as far west and north as is practicably possible, to mitigate against the current residual risk of land instability.

No coal seams were recorded across the north of the development area, however, we anticipate the Rams seam was exploited historically through opencast techniques based on site observations.

Drainage and infiltration potential

Made Ground soils and underlying Pennine Middle Coal Measures deposits are not considered amenable to the discharge of stormwater collected by the proposed development. An alternative means of drainage may be via the public surface water main (600mm dia.) recorded within the north eastern part of the site, however a full drainage survey will be required to confirm this.

CBR assessment and pitch foundations

Based on in-situ testing, a CBR design value of 4% can be used for the proposed pitch foundations. Due to the composition and thickness of Made Ground at the site, we recommend that such soils present at and below formation levels are appropriately conditioned to achieve a more uniform level of compaction and minimise levels of total and differential settlement.

Floodlight foundations

Made Ground deposits in their current condition are not considered suitable to provide sufficient support to proposed floodlights on traditional shallow pad type foundations. Due to the thickness of the Made Ground, adoption of pad foundations supported by underlying competent natural soils will be difficult to successfully achieve. Therefore, a piled foundation solution or alternative ground improvement methods, which may allow adoption of shallow foundations, are recommended to adequately support proposed floodlights.

A concrete class of DS-2 and ACEC-2 is required for the Made Ground soils.

Recommendations for further works

No further works are recommended. However, should an alternative approach to foundation design be considered, further site investigation could be required to facilitate design of such specialist techniques.

1 Introduction

1.1 Project Brief

1.1.1 The project comprises construction of a 106m x 70m LED floodlit 3G Football Turf Pitch (FTP), including extension of the existing car parking area to the southwest of the field. A new pavilion is also proposed, with either demolition of the existing facility or refurbishment for storage. At present, the proposed location of the new pavilion is not known, however, we have assumed for the purposes of our coal mining risk assessment that it would be positioned local the area of the proposed pitch.

1.1.2 The scope of works is bespoke and has been completed to further refine our desk-based coal mining risk assessment report (Report Ref: STT-5261-CMRA01 Rev A) completed in February 2021. The site works comprised a ground investigation utilising rotary borehole techniques to assess the coal mining risk, but also provide information necessary to allow design of the artificial sports pitch and floodlight foundations (excluding the proposed car parking and pavilion). The report will also advise on abnormal ground conditions.

1.2 Site Location and Description

1.2.1 The proposed pitch development lies within the Redbank Playing Field existing grass-surfaced sports field. A small facility building and car parking area is located to the southwest, where the site is accessed at the following postal address:

Radcliffe Juniors Football Club
Unsworth Street
Radcliffe
Manchester
M26 3RF

1.2.2 Surface levels across the majority of the pitch are relatively flat; however there is a notable drop in elevation within the southeast corner.

1.2.3 An aerial image of the site (red) and development area (blue) is shown below.



Figure 1-1 Aerial image and approximate site boundary.

2 Desk Study

2.1 Site History

2.1.1 An attempt to trace the history of the site has been carried out by reviewing readily available Ordnance Survey maps. The earliest available maps date back to the late 1800s, and shows a watercourse flowing through the pitch (NW to SE), along with a rope-walk present along-side it. A well and a spring are also noted to be present within the approximate footprint of the proposed pitch. Just off site, to the south east is a bleach and dye works. No buildings are recorded.

2.1.2 By the mid-1930s, a refuse tip / landfill is encroaching within the site's northern boundary and has extended further still within the 1950s mapping; however, its full extent is not clear.

2.1.3 From the 1960s, the site appears to have been covered, and made into an area of public open space. The small building within the southwest of the site, along with the carparking area is recorded from circa. 1970.

2.2 Recorded Geology and Hydrogeology

2.2.1 An extract from open-source British Geological Survey (BGS) mapping data for the area is presented below. Superficial deposits are predominantly Devensian Till (clay), with a glacial river channel present within the west of the site, depositing Glaciofluvial Deposits (sands and gravels).

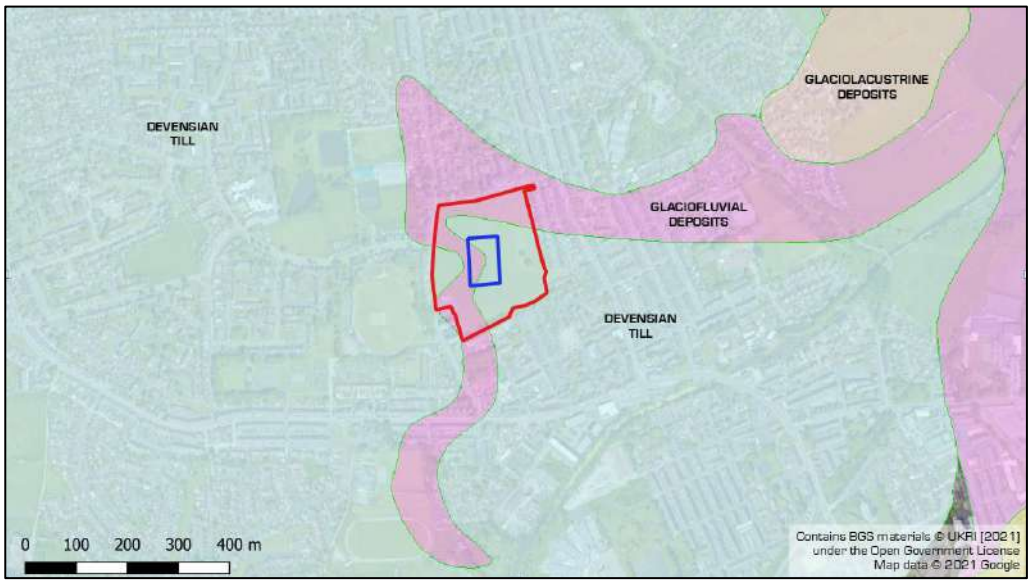


Figure 2-1 Superficial geology and artificial ground deposits

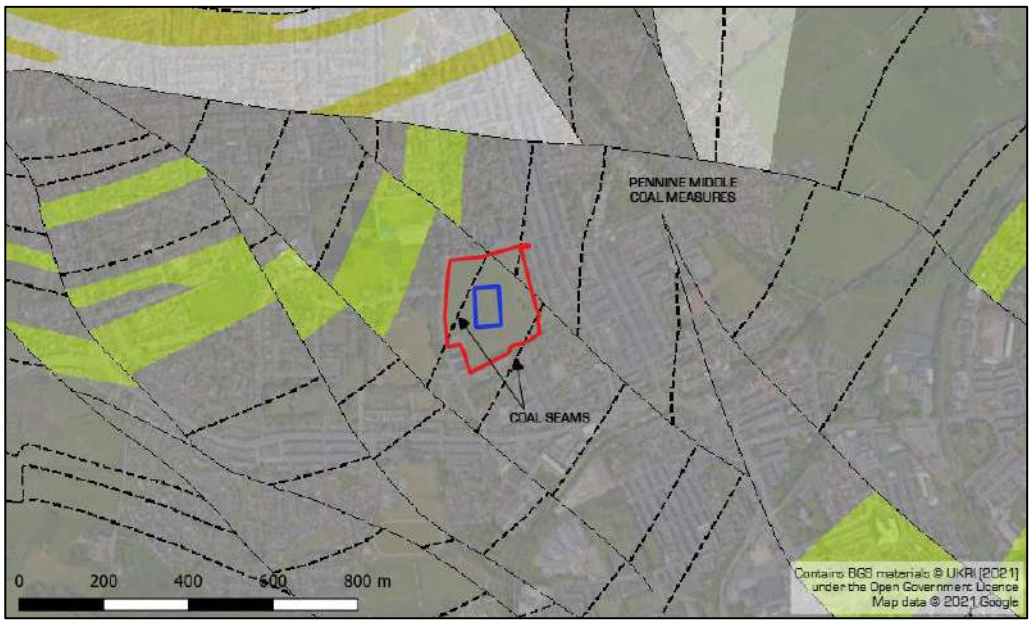


Figure 2-2 Bedrock geology and linear features

2.2.2 The BGS does not record significant artificial deposits to be present on site, or within close proximity.

2.2.3 The underlying bedrock is recorded to be the Pennine Lower Coal Measures, with two inferred coal seams present in close proximity to the site.

2.2.4 Based on local BGS borehole records we anticipate the Glaciofluvial Deposits and Devensian Till to amount to a thickness of approximately 10-12m within the area.

2.2.5 Based on the evidence within the historical maps, it is anticipated that groundwater levels will be shallow.

2.2.6 From the site's history Made Ground / landfill deposits are expected to be present within the development area. It is unclear whether these deposits extend across the entire pitch envelope or are restricted to the northern part only. The table below summarises potential ground conditions on site:

Strata	Bedrock or superficial	Approximate thickness	Typical soil type	Likely permeability
Made Ground (Domestic landfill)	-	Unknown depth and extent	Reworked imported soils over household waste	Variable
Glaciofluvial Deposits (west)	Superficial	<10m	Sands and gravels	High permeability
Devensian Till (most of the site)	Superficial	<10m	Clays	Low permeability
Pennine Middle Coal Measures Formation	Bedrock	Basal unit	Sandstone, mudstone and siltstone with coals	Permeable (Secondary A Aquifer) *[no Source Protection Zone present]*

Table 1 Summary of geology and hydrogeology

2.3.7 The geological map indicates that the Pennine Middle Coal Measures dip at an angle of around 22° to the south east (local to the site). As shown on Figure 2-2 a fault is recorded across the north east of the site (likely attributed to the Bradley Fold Fault) which downthrows to the south west. Such faulting may influence the local dip of bedrock.

2.3.8 Based on published geological records either the Top Furnace or Brassey (Roger) coal seam subcrops within the Redbank playing field to the south east of the proposed development area (south of fault line) and likely dips to the south east. We, therefore, do not anticipate this seam to be present beneath the proposed development area (footprint of proposed pitch).

2.3.9 The Rams (Bottom Furnace) coal seam subcrops at the north western boundary of the proposed development site (south of fault line) within the Redbank playing field and again likely dips to the south east. We, therefore, anticipate this seam to be present beneath the proposed development area (footprint of proposed pitch).

2.3.10 It should be noted that mines often used local nomenclature to define coal seams in the Manchester coal fields. We understand that the Roger coal seam is also known as the Nine Feet seam, with the Rams coal seam also known as the Six Feet coal seam.

2.3 Quarrying and Mining

2.3.1 Coal Authority mapping data shows the site lies within a Coal Mining Reporting Area, and within a Development High Risk Area, associated with the potential for unrecorded shallow workings.

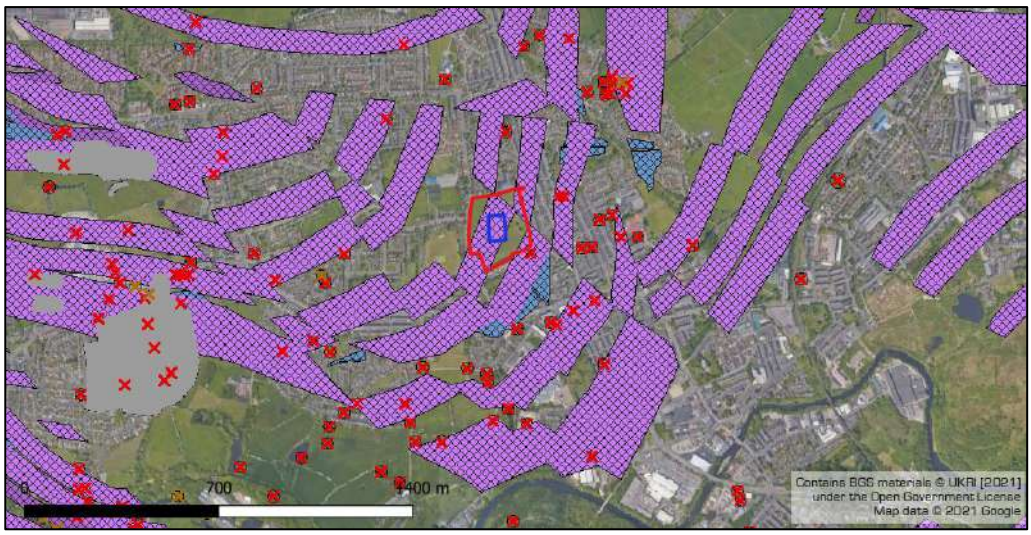


Figure 2-3 Coal mining specific risks

2.3.2 We have, therefore, previously undertaken a desk-based coal mining risk assessment for the site (Report ref: STT-5261-CMRA01 Rev A) in February 2021.

2.3.3 The report concluded that there was a possible land instability risk relating to unrecorded shallow coal mining which could be present within the proposed development area, associated to the Rams Coal seam. As such further on-site investigation was required to confirm the presence/absence of coal seams/workings beneath the site to a depth of 30m.

2.4 Hydrology and Flood Risk

2.4.1 The nearest down-gradient surface water feature is Manchester, Bolton and Bury Canal, some 350m southeast of the site. The River Irwell is present approximately 900m southeast.

2.4.2 Environment Agency flood maps indicate the site is within a Flood Zone 1, suggesting a low probability of flooding. However, the site does fall within a general Flood Risk Area.

2.4.3 It should be noted that, historically, a spring was noted on site or in very close proximity to the pitch boundaries. Therefore, there is considered to be a potential risk from groundwater flooding.

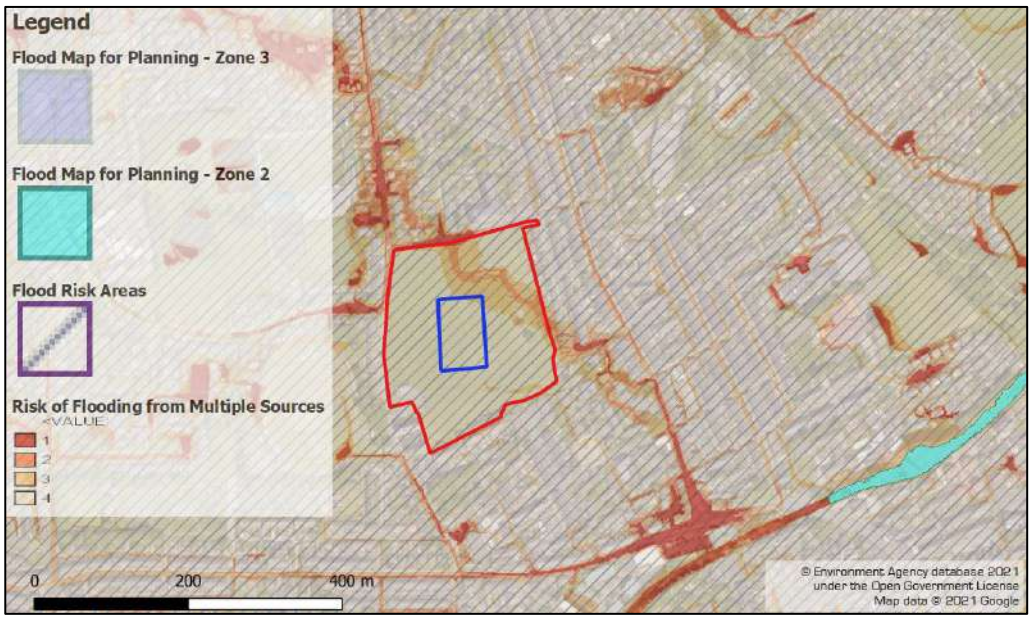


Figure 2-4 Flood Map for Planning (Rivers and Sea)

2.5 Landfilling

2.5.1 Open-source Environment Agency landfill mapping data shows that an historical landfill site is recorded across the entire pitch footprint. The records indicate the landfill wastes were deposited circa. 1950s and accepted household refuse. This landfill record corroborates the findings from a review of the historical mapping records.

2.5.2 In addition, there is a potential risk of harmful ground gases emanating from shallow worked coal seams, and this will require further consideration and possible investigation along with the potential ground instability risks.



Figure 2-5 Historical and Permitted Landfills

2.6 Unexploded Ordnance (UXO)

2.6.1 MACC International Ltd, who are a UXO specialist, were commissioned by Soiltechnics to undertake a preliminary risk review for the ground investigation only; a copy of their review is presented as Appendix B. The review concluded there is not a credible likelihood of encountering UXO on the plot and consequently, the UXO risk is considered to be low within the site boundary.

2.7 Enquiries with Statutory Undertakers

2.7.1 We have contacted a number of Statutory Undertakers and have visited the Linesearch website to obtain copies of available records to avoid damaging buried apparatus during fieldwork activities. Copies are presented as Appendix C.

2.7.2 A review of the information indicates that a public surface water main (600mm dia.) crosses the north-eastern corner of the pitch, as shown below.



Figure 2-6 United Utilities Sewer Records, dated 26/01/2021

2.7.3 No other statutory services are recorded within the pitch footprint. However, private runs are typically excluded from these records.

2.7.4 All statutory undertakers should be contact to confirm the location of their apparatus and any construction easements and site restrictions which may apply. It would also be recommended to conduct a full services survey of the area to identify public and private utility runs.

3 Fieldwork

3.1 Fieldwork Summary

3.1.1 Fieldwork was undertaken on 15th and 16th April 2021, and the works completed are summarised below. Exploratory hole logs are presented in Appendix D, and an exploratory hole location plan is presented as Drawing 01.

Exploratory hole ID	Method	Achieved depth (m bgl)	Purpose
BH01 to BH05	Rotary boreholes	11.0 to 30.0	Prove ground conditions for pitch/floodlights and determine presence/absence of coal seams/workings
DCP01 to DCP05	Dynamic cone penetrometer	0.34 to 0.92	Determine CBR value for sports pitch

Table 2 Summary of fieldwork undertaken

3.1.2 All soils encountered utilising dynamic sampling techniques were described in accordance with BS EN ISO 14688 “Identification and classification of soil”. Rock, where encountered, was described in accordance with BS EN ISO 14689 “Identification and classification of rock”.

3.1.3 All logging of cuttings produced by rotary open hole air flush and air mist techniques were only described by their colour and strata. No geotechnical parameters can be derived from rotary open hole techniques.

3.2 Site Restrictions

3.2.1 Owing to the presence of underground public and private sewers, proximity to homes off Lever Street (boreholes must be greater than 50m from properties, stipulated by the Coal Authority permitting) and whilst also avoiding damage to the existing grass pitches, we were unable to complete a rotary borehole towards the north east of site.

3.3 Sampling

3.3.1 During the fieldwork, sampling of materials has been undertaken in accordance with BS EN ISO 22475-1 “Geotechnical Investigation and testing – sampling by drilling and excavation and groundwater measurements”. Various sampling and sub-sampling methodologies have been adopted, depending on the medium, excavation / drilling method and analysis requirements, with the primary aim of obtaining the highest quality sample class practicable.

3.4 In-situ Testing

3.4.1 Field testing comprised the following tests:

Test type	Applicable standard / guidance
Standard penetration test (SPT)	BS EN ISO 22476-3
Pocket penetrometer	Manufacturer's instructions
Dynamic cone penetrometer (DCP)	Highways England Document CS229 Data for Pavement Assessment

Table 3 Summary of field testing undertaken

3.4.2 The raw data from the DCP in-situ testing is presented in Appendix E, and other results are summarised on individual exploratory hole logs where appropriate.

4 Ground Conditions

4.1 Overview

4.1.1 The boreholes encountered a relatively consistent profile of soils, with Topsoil overlying Made Ground associated to historical landfilling with colliery spoil at depth (associated to possible unrecorded opencast backfilling). Made Ground typically comprised dark brown slightly clayey very sandy gravels of clinker, glass, ceramics, clayware, brick, sandstone, concrete, and rare timber fragments. Pockets of dark brown gravelly clay were also recorded within the Made Ground. Deposits of very soft light grey silts, clays and sands were also recorded towards the centre of the site (BH02), which we anticipate are likely to represent reworked Glaciofluvial Deposits.

4.1.2 Deposits of Made Ground ranged in thickness from 5.1m bgl (south of development area) to 10.1m bgl (north of development area), c.7m depth centrally.

4.1.3 Beneath a depth of 4.0m bgl rotary open hole techniques were adopted, as such only the colour and composition of the arising contained in flush returns provided an indication of the strata type. A typical profile of near surface Made Ground is presented in Figure 4-1 below.

4.1.4 Beneath the Made Ground, bedrock deposits of the Pennine Middle Coal Measures were recorded beyond a depth of 30.0m bgl. Deposits typically comprised grey to reddish brown weathered (shallower depths) and unweathered mudstone with grey siltstone bands.

4.1.5 Intact coal seams were recorded towards the centre of the development area (BH02 and BH05), whilst voiding associated with likely worked coals was recorded towards the south east of the development area (BH03). Further details with respects to the coal mining risk is presented within Section 5, below.



Figure 4-1 Photo from BH03 showing soils from ground level to 4m depth

4.2 Groundwater

4.2.1 No groundwater was observed within the boreholes.

4.3 Evidence of Possible Contamination

4.3.1 During the ground investigation works no visual or olfactory evidence of contamination was observed beyond a slight organic odour (assumed plant matter) observed at a depth of 3.1m bgl within BH04 (south west of site), and the general presence of anthropogenic material in Made Ground.

4.4 Obstructions and Instability

4.4.1 A single obstruction (assumed concrete) was encountered between 0.8m and 1.2m depth in BH01 (north of site).

5 Coal Mining Risk Assessment

5.1 Overview of Desk Study

5.1.1 A desk-based Coal Mining Risk Assessment was completed for the site in February 2021 on behalf of our client The Football Foundation (Report Ref: STT-5261-CMRA01 Rev A). We recommend the following report is not read in isolation to the desk-based risk assessment.

5.1.2 Based upon evidence presented within the report we had identified possible land instability risks relating to unrecorded shallow coal mining which could be present within the proposed development area, associated to the Rams Coal seam. It was anticipated, based on the likely thickness of superficial deposits overlying bedrock, the Rams seam could be located at depths of c.10m below the north west corner of the pitch, dipping to the south east and present at depths of c.23m at the south east corner of the proposed pitch.

5.1.3 In order to quantify the possible land instability risks associated with the unrecorded shallow workings in the Rams Coal seam, intrusive investigations were recommended. These consisted of a series of rotary boreholes to target depths of 30m (as detailed in Section 3, above) to determine the presence of any possible workings (voids) associated with the Rams Coal seam. Most importantly determining if there is sufficient rock cover, thus allowing a risk assessment to be made.

5.2 Findings

5.2.1 The rotary logs indicated the following coal seams/voids to be present beneath the site.

Borehole	Location (development area)	Depth of seam (m)	Thickness (m)	Condition
BH02	Centre	20.7 – 21.2	0.5	Intact black coal
		21.5 – 21.9	0.4	Intact black coal containing carbonaceous mudstone.
		This is likely to represent one seam, 1.2m in thickness with a 0.3m thick parting.		
BH03	South East	26.6 – 27.9	1.3	Possible Void / Broken Ground
		27.9 – 28.8	0.9	Soft ground
		Could represent one large worked seam, with some backfill deposits representing the 'soft ground'.		
BH05	Western Centre	17.9 – 18.4	0.5	Intact black coal containing carbonaceous mudstone.
		19.8 – 20.6	0.8	

Table 4 Coal seams recorded during fieldwork investigation.

5.2.2 Data indicates the presence of possibly a single coal seam which increases in depth from north west to south east. It is also possible that to the south east of the development area the seam had been worked as part of the Radcliffe Colliery. We therefore anticipate that the seams recorded beneath the site are associated to the Rams Coal seam, as indicated in our desk-based investigation.

5.2.3 Made Ground associated to the historical landfill was also recorded across the entire site to a depth between 3.2m and 5.6m bgl. Deposits typically comprised gravels of clinker, brick, ceramics, glass, sandstone and concrete. Across the north and centre of site the Made Ground was underlain by colliery spoil to a depth of 7.0m to 10.1m bgl (recorded deepest towards the north of the development area). As such we anticipate that coal towards the north of the site (BH01) may have been exploited through historic unrecorded opencast/bell pitting techniques, and as such coals/workings were not recorded during fieldwork activities.

5.3 Conclusion and Recommendations

5.3.1 On site investigations indicated the presence of the Ram Coal seam beneath the central and southern extents of the current development area. This appears to have been exploited historically via opencast techniques in northern areas where Made Ground is thickest, observed in an intact state at its shallowest depth towards the centre of the site.

5.3.2 There is evidence, however, of the seam being worked in the south eastern part of the site, with voiding/broken ground recorded beneath the development area at a depth of 26.6m. Loss of flush and drop of the drilling apparatus suggested the void extended to a depth of 27.9m (1.3m in thickness). Evidence of soft material was present below the void, extending to a depth of 28.8m (0.9m in thickness). It is not clear what this material could represent, but could be partially backfilled workings. The working does not appear to be laterally extensive across the development site based on data obtained to date, and is likely to be confined to the south eastern part of the development area and extend offsite to the south and east.

5.3.3 Using guidance contained within CIRIA C758, if we assume a conical collapse of the recorded working/void of the Rams seam beneath the south eastern part of the development area (assuming a worst case thickness of 2.2m, including the softer basal material), and assuming pillar and stall type workings, then we would anticipate following roof collapse that the resultant void would potentially migrate to a depth of 4.6m below surface level in this part of the site.

5.3.4 Whilst not applicable to all sites and should be assessed site specifically, an indicative rule of thumb is to work to a ratio of 10:1 of intact competent rock cover above a void (i.e. for a 1m thick void, 10m of intact competent rock cover) should arrest the migration of any resultant void if collapse occurred. On the above assessment, in consideration that competent mudstone bedrock is located at a depth of 6.0m, and weathered bedrock is present at 5.1m which can be considered as part of the assessment of 'competent' material, this would provide 21.5m of competent cover above the likely working; a ratio of 9.8:1. Thus, there could be a very residual risk that if collapse occurred, it could affect the proposed development. However, there is a degree of conservatism built into our assessment here, given the void is not physically 2.2m in thickness.

5.3.5 Based on the above, there is unlikely to be a significant risk of land instability occurring at the site as a result of possible collapse of identified workings. However, in consideration of the preliminary stages the development is at currently, based on our findings it would be prudent to move the location of the proposed pitch as far west and north as is practicably possible, to mitigate against the current residual risk of land instability. The preferred location of the proposed pitch based on exploratory works completed to date, is presented as the red line boundary in Drawing 01, however we understand this could be constrained by surrounding land use.

6 Laboratory Testing

6.1 Overview

6.1.1 Upon completion of the fieldworks, selected samples obtained from exploratory holes were sent to independent laboratories for geotechnical testing.

6.1.2 The testing schedules were developed by Soiltechnics taking cognisance of the scheme proposals and based on the initial findings of the fieldworks.

6.2 Geotechnical Testing

6.2.1 Laboratory test certificates are presented as Appendix F, and the total number of geotechnical tests undertaken is summarised below:

Geological Unit	Test	Quantity
Made Ground	pH, sulphate, sulphur and water-soluble sulphate	1
Made Ground Reworked Glaciofluvial Deposits	Atterberg limits	1

Table 5 Summary of geotechnical laboratory testing

7 Engineering Assessment

7.1 Ground Conditions Summary

7.1.1 In general, the soils comprise Made Ground deposits in excess of 5.1m bgl across the development area. Made Ground deposits in their current condition are not considered suitable to provide sufficient support to proposed floodlights on traditional pad type foundations. Due to the thickness of the Made Ground, adoption of pad foundations supported by underlying competent natural soils will be difficult to successfully achieve. Therefore, a piled foundation solution or alternative ground improvement methods, which may allow adoption of shallow foundations, are recommended to adequately support proposed floodlights.

7.2 Abnormal Ground Conditions

7.2.1 We anticipate there to be the possibility of encountering localised obstructions within the Made Ground.

7.3 Floodlight Foundations

7.3.1 Piled Foundations

7.3.1.1 A piled foundation solution is likely to obtain support in end bearing, socketing within the Pennine Middle Coal Measures at depth.

7.3.1.2 We recommend the type, design and installation of the piles are determined by a specialist piling contractor who has experience in pile installation in these or similar ground conditions and may be able to interpret the observed ground conditions in a different and potentially more beneficial manner. The borehole data provided in Appendix D should provide sufficient information to allow design of a piled foundation solution.

7.3.1.3 It should be noted, however, that adoption of piled foundations in the south eastern part of the site are likely to obtain end bearing support within the potential collapse zone above identified coal mine workings. If such a collapse occurred, there is the risk that piled foundations would lose support within coal measure deposits, leading to catastrophic failure. If the pitch was located further north and west of its current location, outside the area of identified workings, such issues would be mitigated. Alternatively, floodlights should be excluded from the south eastern part of the proposed pitch if piled foundations are adopted.

7.3.2 Alternative Foundation Solutions

7.3.2.1 Due to a combination of cost, programme and site constraints, some alternative foundation or ground improvement solutions to minimise settlement below floodlight foundations are unlikely to be viable for the development. The following solutions may be technically feasible for the site and are discussed in brief below: -

- Controlled Modulus Columns (CMC)
- Rapid Impact Compaction (RIC)
- Soil Mixing

7.3.2.2 Controlled Modulus Columns (CMC) provide a fast and economical alternative to piling. The technique installs low strength concrete columns (280mm to 500mm) in diameter, utilising a displacement tool attached to a rig. The concrete columns would enhance the bearing capacity beneath proposed floodlights, which would in turn reduce total/ differential settlement. Such a solution could still be influenced by the presence of mine workings identified in the south eastern part of the site.

7.3.2.3 Rapid Impact Compaction (RIC) compacts granular/mixed soil surfaces through introduction of high frequency energy impacts. The RIC consists of a compaction foot which is placed on the ground and repeatedly struck by a 7-12 tonne hydraulic rammer, resulting in top-down compaction of the soil, thus enhancing bearing capacities, reducing settlement and allowing adoption of shallow pad foundations. This could be a preferable solution, subject to suitability of soils, as shallow pad type foundations could be adopted, maximising the distance between the base of the foundation and the upper limits of the zone of instability caused by possible mine working collapse to the south east.

7.3.2.4 Soil mixing involves modifying the properties of weak soils to improve load carrying and permeability characteristics. The process uses a single or multi tool auger to break up the soil, which is then injected at low pressures with a specifically designed binder and mixed within the soils. Similarly, if such techniques would allow adoption of a shallow foundation, this would be a preferable solution in south-eastern parts of the site.

7.3.2.5 Should an alternative approach to foundation design be considered, we would recommend the advice of a specialist in the field of the above processes is sought ahead of design. It is also possible that further site investigation would be required to facilitate design of such specialist techniques.

7.4 Artificial Pitch Foundations

7.4.1 We have determined CBR value for the proposed artificial pitch foundations using in-situ Dynamic Cone Penetrometer testing following the methodology defined by the Highways England Document CS229 Data for Pavement Assessment. The results are presented in Appendix E and the location of test positions are shown on Drawing 01.

7.4.2 We anticipate that the proposed artificial sports pitch foundations will be located at or about existing ground levels with the formation located on Made Ground soils following removal of any Topsoil type material.

7.4.3 Determination of subgrade CBR using the Dynamic Cone Penetrometer

7.4.3.1 Based on the anticipated founding depth and our understanding of the ground conditions, a CBR design value of 4% can be adopted.

7.4.4 Treatment of formation

7.4.4.1 Due to the composition and thickness of Made Ground at the site, we recommend that such soils present at and below formation levels are appropriately conditioned to achieve a more uniform level of compaction and minimise levels of total and differential settlement.

7.4.4.2 Once formation levels have been established it is recommended that the formation be trimmed and rolled following current requirements of the Highways Agency Specification for Highways Works (clause 616) (refer www.dft.gov.uk/ha/standards/mchw/vol1). Such a process will identify any soft areas, which we recommend be either excavated out and backfilled with a suitable well compacted material similar to those exposed in the sides of the resulting excavation, or large cobbles of a good quality stone rolled into the formation to stabilise the 'soft' area.

7.4.4.3 Alternatively, consideration should be given to excavating, sorting and compacting the initial 1m depth of Made Ground to achieve consistent levels of compaction across the pitch footprint and minimising the potential effects of differential settlement, potentially in addition to the use of a geosynthetic reinforcement.

7.4.4.4 In addition, increasing and homogenising the density of the Made Ground through ground improvement techniques such as vibrotreatment or permeation grouting/lime & cement stabilisation could be undertaken. These are notably expensive and would require specialist input at the feasibility stage.

7.4.5 Subgrade frost susceptibility

7.4.5.1 Any clay subgrade soils are likely to be deemed frost susceptible and will probably be the overriding criteria for pavement foundation design purposes. It should also be noted that the thickness of the pavement foundation also relates to the amount and loading from construction traffic, which is discussed in detail in the Transport and Road Research Laboratory (TRRL) Report LR1132 'Structural design of Bituminous Roads'.

7.4.6 Moisture susceptibility

7.4.6.1 The localised cohesive nature of the Made Ground soils will render them moisture susceptible with small increases in moisture content giving rise to a rapid loss of support to construction plant. We therefore recommend, as soon as formation is trimmed and rolled, that sub-base is laid in order to avoid deterioration of the subgrade in wet or frosty conditions.

7.5 Drainage and Infiltration Potential

7.5.1 Made Ground soils are not considered amenable to the discharge of stormwater collected by the proposed development. Water freely/directly discharged into the Made Ground could cause collapse of air voids contained in these deposits, which promotes compaction of the soils around the soakaway causing depression of the general area around the soakaway as well as potentially affecting pipe runs leading to the soakaway.

7.5.2 The underlying Pennine Middle Coal Measures comprised mudstone with interbedded siltstone. In our experience, such deposits are unlikely to be capable of disposing of stormwater collected by the development.

7.5.3 Existing soakaway features were not observed on site during the ground investigation works; however, a full drainage survey was not undertaken.

7.5.4 Given the proximity of the public surface water main (600mm dia.) detailed in Section 2.7, this is considered to be a feasible and practical option for the potential disposal of surface water collected by the proposed pitch development. However, a comprehensive drainage assessment will be required to determine the potential impact on the capacity of the existing systems, to identify the invert levels of existing features, and to confirm drainage gradients will be achievable across the proposed pitch area. It should be noted at the time of investigation only the manhole shown to the north of the development area was visible, however, we were unable to lift this at the time of investigation.

7.6 Aggressiveness of the ground to buried concrete

7.6.1 The aggressiveness of the ground with respect to buried concrete has been assessed in accordance with British Research Establishment Special Digest 1: Concrete in Aggressive Ground Third Edition (2005).

7.6.2 The site is interpreted to be a brownfield site where pyrite is likely to be present.

7.6.3 The classification of each strata is tabulated below:

Stratum	Design sulphate classification	Aggressive chemical environment for concrete classification
Made Ground	DS-2	ACEC-2
Made Ground – Reworked Glaciofluvial Deposits	DS-1	ACEC-1s

Table 6 Summary of the aggressiveness of the ground to buried concrete

7.6.4 It should be noted that where concrete is in contact with more than one soil type then the most onerous DS and ACEC classification should be adopted.

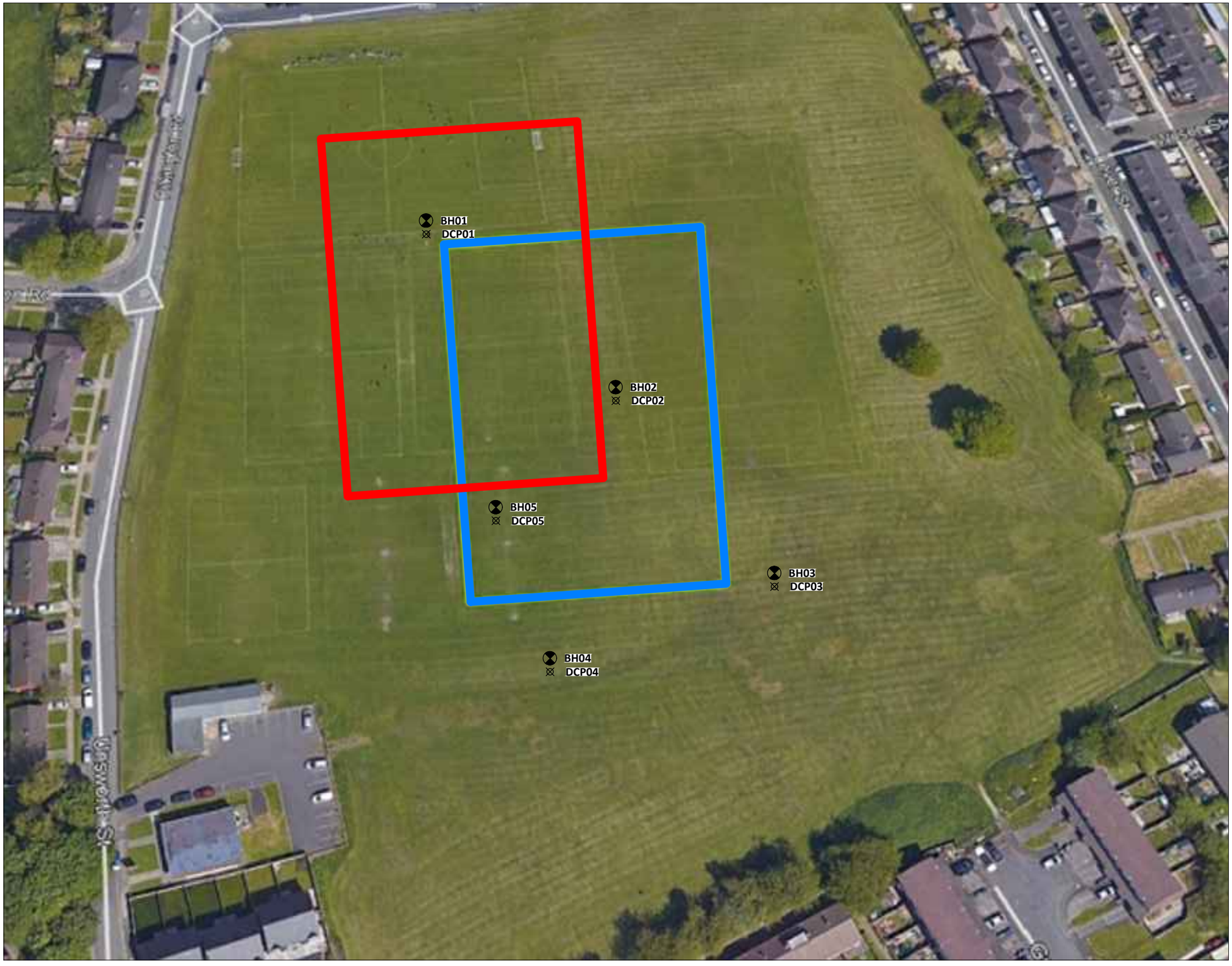
7.7 Recommendations for further works

7.7.1 At this stage we do not consider further investigations to be necessary.

7.7.2 Should an alternative approach to foundation design be considered, further site investigation could be required to facilitate design of such specialist techniques.

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Drawings



Key

RBH	Rotary borehole
DCP	Dynamic cone penetration
	Proposed pitch location
	Preferred pitch location based on presence of workings

Notes

1. Map data © 2021 Google
2. Exploratory locations are approximate

REV	DESCRIPTION	PRODUCED	CHECKED	REVIEWED	DATE
A	First issue	KD	JP	SCD	19.05.2021

soiltechnics
environmental • geotechnical • building fabric

PROJECT
Redbank Playing Fields, Manchester

TITLE
Exploratory hole plan (current layout)

PROJECT NO.	SCALE AT A3	DRAWING NO.
STT5261	Not to scale	01

Appendix A Coal Authority Consultants Coal Mining Report

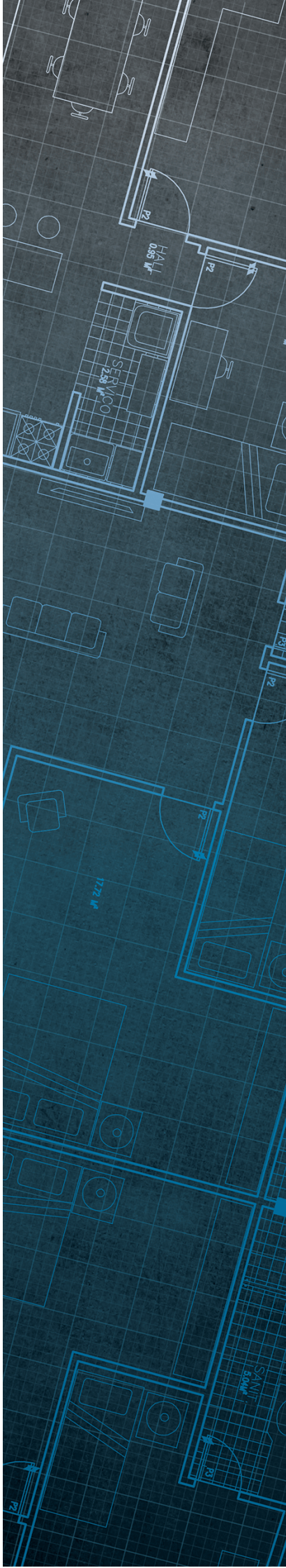
The Coal Authority

Consultants

Coal Mining Report

43 Unsworth Street
Radcliffe
Bury
M26 3RF

Date of enquiry:	**8 February 2021**
Date enquiry received:	**8 February 2021**
Issue date:	**8 February 2021**
Our reference:	**51002350078001**
Your reference:	**STT5261**



Consultants

Coal Mining Report

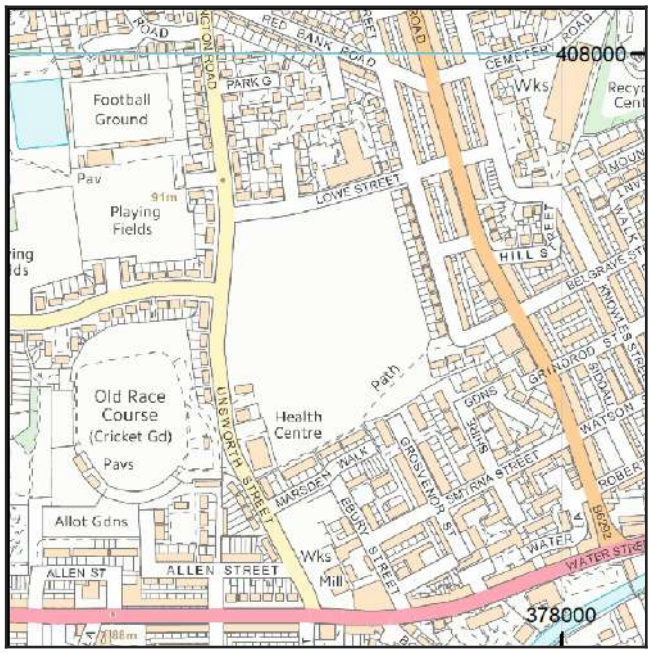
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

Soiltechnics Limited

Enquiry address

43 Unsworth Street
Radcliffe
Bury
M26 3RF



Approximate position of property

Map data

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Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	ROGER	Coal	3Z40	15	Beneath Property	9.5	East	200	1880
unnamed	RAMS	Coal	3YQ3	55	South-East	6.9	South	180	1900
unnamed	TRENCHERBONE	Coal	3YYL	280	West	11.2	South	110	1888
unnamed	CANNEL	Coal	3YPA	323	Beneath Property	9.3	South	90	1894

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	377407-011	377862 407627		Coal	

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

3428	5419	NW1060
NW983	0	16820
1507	NW991	1249

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

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Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
RAMS	Coal	Yes	Within	N/A	7
RAMS	Coal	Yes	Within	N/A	22
ROGER	Coal	Yes	Within	N/A	27

Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Fault under or close to the property recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

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Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

Distance to site investigation (m)	Direction
6.4	North
Within	N/A

See Section 4 for further information.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

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

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

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Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

Coal mining licensing
None recorded within 200 metres of the enquiry boundary.

Court orders
None recorded.

Section 46 notices
No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices
The property is not in an area where a notice to withdraw support has been given.

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

Payments to owners of former copyhold land
The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

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Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

Site investigations

The site is within an area of previous interest. It is close to where the Coal Authority has received information relating to past site investigations.

The site requires further investigation and may influence how you approach your risk assessment.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

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Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk.**

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

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Opencast mines
Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips
Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations
Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites
Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence
Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas
Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission.

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Mine water treatment schemes
Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining
Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing
Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders
Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices
Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices
Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

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The Coal Authority

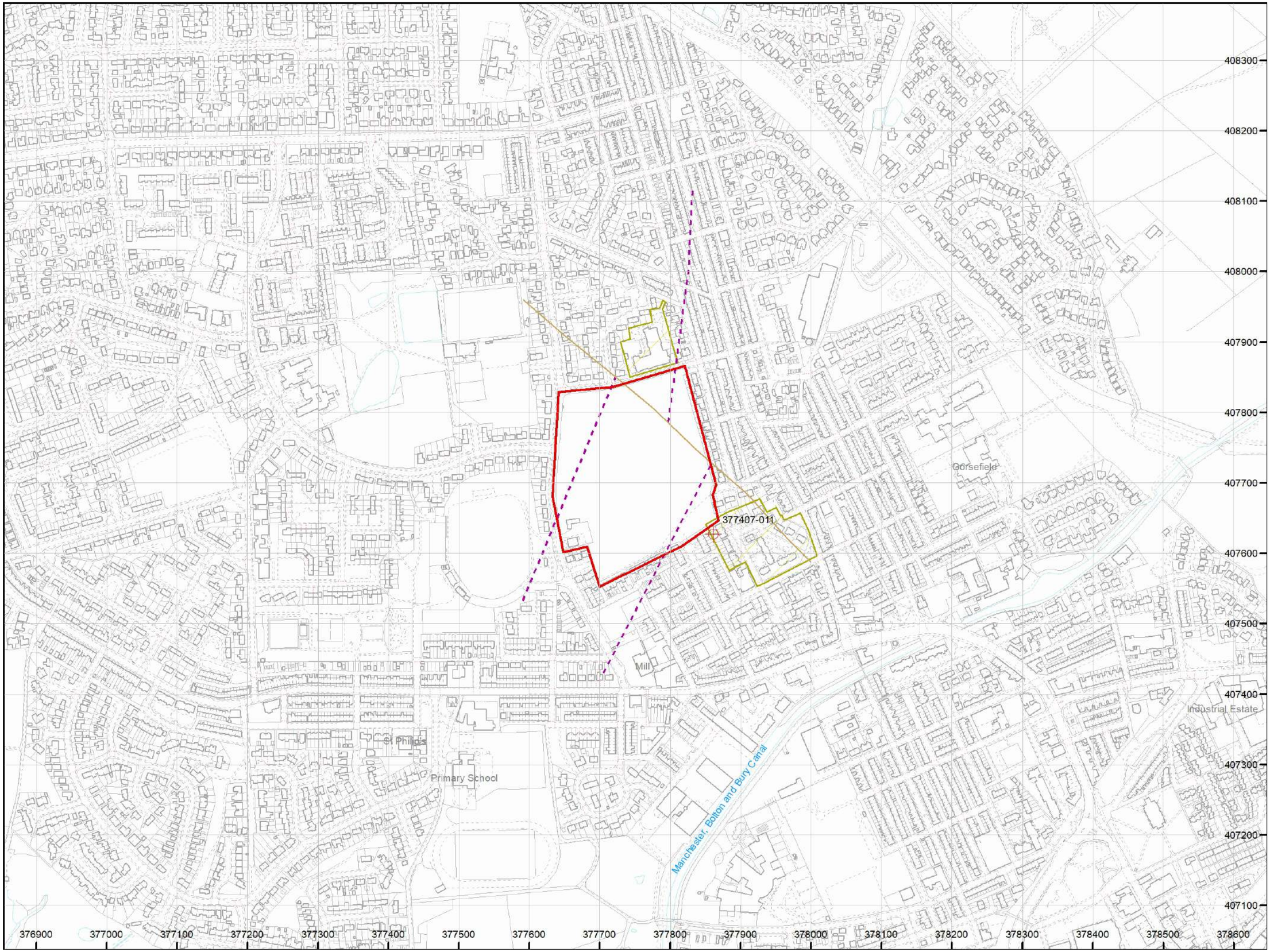
Summary of findings

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Map data

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

- Approximate position of the enquiry boundary shown
- Disused mine shaft
- Outcrop (Conjectured)
- Geological faults
- Site investigations



How to contact us
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com

Appendix B UXO Preliminary Risk Review

MACC International Ltd, Camilla Court, Nacton, Ipswich, Suffolk, IP10 0EU, UK

Lauren Wenham
Senior Administrator
Soiltechnics Ltd

Your Reference:

Our Reference: JM/3536/657

Email 1st Instance: L.Wenham@soiltechnics.net

Date: 12/04/2021

Unexploded Ordnance Preliminary Risk Review
Redbank Playing Field, 43 Unsworth Street, Radcliffe, Manchester, M26 3RF

MACC International Ltd (MACC) has conducted a preliminary risk review for the site footprint. The review has drawn on open source and in-house information, references have been provided where available (See Annex A).

The review has been conducted to provide Soiltechnics Limited with a review of the risk which may be posed by UXO while conducting investigations on the site.

This document has been produced in the United Kingdom by MACC International Limited and has been provided solely as an aid in decision making. It is not intended to be used by any person for any purpose other than that specified. Any liability arising out of use by a third party of this document for purposes not wholly connected with the above shall be the responsibility of that party, who shall indemnify MACC International Limited against all claims, costs, damages and losses arising out of such use.

Although the surrounding area did suffer enemy bombing raids during WWII, no records were found to indicate a bomb strike within the footprint. Whilst considering the history of the site and the level of post-war development, the following conclusions have been reached:

- It is considered that there is not a credible likelihood of encountering UXO on the plot. Consequently, the UXO risk is considered to be LOW within the site boundary.
- Nevertheless, it is recommended that:
    - All site personnel are provided with a UXO Safety Awareness Talk before intrusive works are commenced.

I trust this document has provided you with sufficient information to meet your immediate needs, should you require anything further, please do not hesitate to contact me.

Yours Sincerely

John Morrison
Operations Manager

Tel: +44 (0)1473 655127 Fax: +44 (0)1473 655098
E-mail: info@macc-eod.com Web: www.macc-eod.com
Registered in England: No. 3014471

Annex 'A' to
Document JM/3536/657
Dated 12/04/2021

Unexploded Ordnance Preliminary Risk Review

Site location	**Site Address:** Redbank Playing Field, Unsworth Street, Radcliffe, Manchester, M26 3RF **Grid Reference:** 377733, 407724 
Scope of Intended works	Preliminary review of the risk that may be posed by UXO to geotechnical investigations.
History	**Wartime Use:** The site was undeveloped land during WWII. **Post War Development:** The site has undergone little to no post-war development.
Wartime History	**Enemy Bombing:** Despite the presence of industrial and military targets at Radcliffe, the town did not suffer extensive enemy bombing during WWII. No records were found to indicate a bomb strike within the site footprint with the nearest recorded bombing incident approximately 250m north of the site at Red Bank Road. Anecdotal evidence suggests a V1 Flying Bomb fell on Radcliffe in 1944 with damage recorded at Lord Street (approximately 450m south-east of the site). **Anti-Aircraft Guns:** No guns were recorded to have been positioned on site. The nearest Heavy Anti-Aircraft battery was positioned approximately 3.3km south-east of the site footprint. **Military Use:** Although there was military presence in the area with Radcliffe's Prisoner of War camp at the present day Bury Road and a Royal Ordnance Factory located at Bradley Moor Road, no records were found to confirm military use of the site footprint.
Unexploded Ordnance (UXO) Finds	No records were found to indicate that items of UXO have been found within the site footprint.

Appendix C Statutory Undertakers Responses

United Utilities
Water for the North West

How to contact us:

United Utilities Water Limited
Property Searches
Haweswater House
Lingley Mere Business Park
Great Sankey
Warrington
WA5 3LP

Telephone: 0370 7510101

E-mail: propertysearches@uuplc.co.uk

Soiltechnics

Soiltechnics
white lodge, walgrave
walgrave, nothants
nn6 9py

FAO:

Your Ref: STT5261
Our Ref: UUPS-ORD-240356
Date: 26/01/2021

Dear Sirs

Location: Redbank Playing Fields Manchester

I acknowledge with thanks your request dated 20/01/2021 for information on the location of our services.

Please find enclosed plans showing the approximate position of United Utilities' apparatus known to be in the vicinity of this site.

The enclosed plans are being provided to you subject to the United Utilities terms and conditions for both the wastewater and water distribution plans which are shown attached.

If you are planning works anywhere in the North West, please read United Utilities' access statement before you start work to check how it will affect our network. http://www.unitedutilities.com/work-near-asset.aspx .

I trust the above meets with your requirements and look forward to hearing from you should you need anything further.

If you have any queries regarding this matter please contact us .

Yours Faithfully,

Karen McCormack
Property Searches Manager

United Utilities Water Limited
Registered In England & Wales No. 2366678
Registered Office Haweswater House, Lingley Mere Business Park,
Lingley Green Avenue, Great Sankey, Warrington, WA5 3LP

Water for the North West

TERMS AND CONDITIONS - WASTEWATER AND WATER DISTRIBUTION PLANS

These provisions apply to the public sewerage, water distribution and telemetry systems (including sewers which are the subject of an agreement under Section 104 of the Water Industry Act 1991 and mains installed in accordance with the agreement for the self construction of water mains) (UUWL apparatus) of United Utilities Water Limited "(UUWL)".

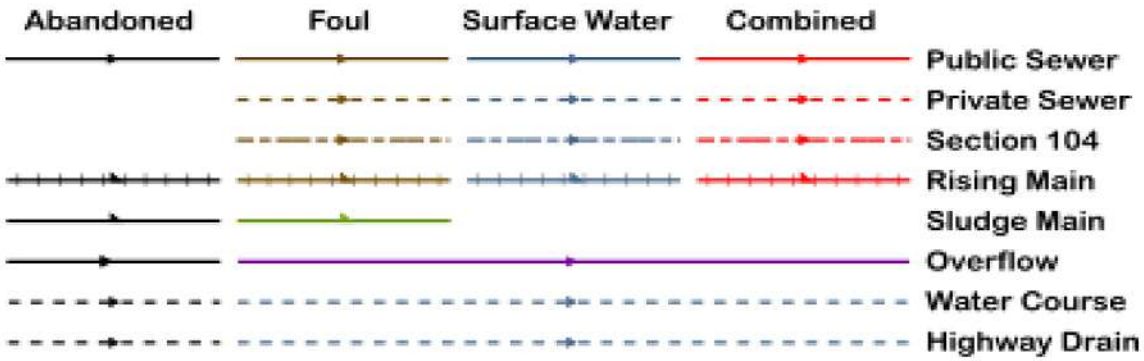
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- In particular, the position and depth of any UUWL apparatus shown on the Map are approximate only. UUWL strongly recommends that a comprehensive survey is undertaken in addition to reviewing this Map to determine and ensure the precise location of any UUWL apparatus. The exact location, positions and depths should be obtained by excavation trial holes.
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- If any provision contained herein is or becomes legally invalid or unenforceable, it will be taken to be severed from the remaining provisions which shall be unaffected and continue in full force and affect.
- This agreement shall be governed by English law and all parties submit to the exclusive jurisdiction of the English courts, save that nothing will prevent UUWL from bringing proceedings in any other competent jurisdiction, whether concurrently or otherwise.

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Registered In England & Wales No. 2366678
Registered Office Haweswater House, Lingley Mere Business Park,
Lingley Green Avenue, Great Sankey, Warrington, WA5 3LP

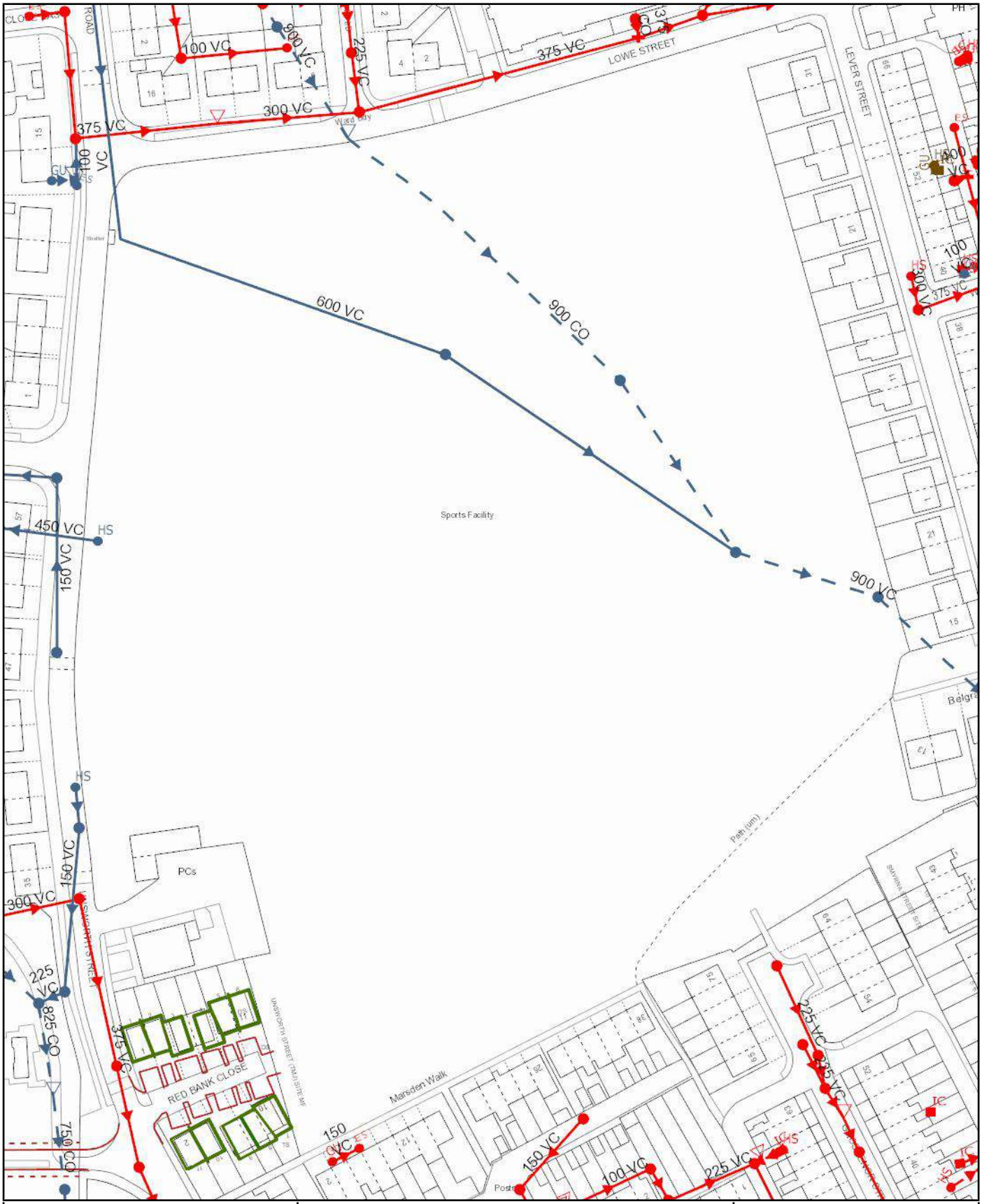
United Utilities
Water for the North West

Wastewater Symbology



All point assets follow the standard colour convention: red – combined, brown - foul, blue – surface water, purple - overflow

- Manhole
- HS Head of System
- ES Extent of Survey
- RE Rodding Eye
- IN Inlet
- DP Discharge Point
- HY Vortex
- PE Penstock
- WO Washout Chamber
- VA Valve
- AV Air Valve
- NRV Non Return Valve
- SO Soakaway
- GU Gully
- CA Cascade
- FM Flow Meter
- HA Hatch Box
- OI Oil Interceptor
- SM Summit
- DS Drop Shaft
- OP Orifice Plate
- Side Entry Manhole
- Outfall
- Screen Chamber
- IC Inspection Chamber
- Bifurcation Chamber
- LH Lamp Hole
- T Junction / Saddle
- Catchpit
- VC Valve Chamber
- Vent Column
- Vortex Chamber
- Penstock Chamber
- T Network Storage Tank
- V Sewer Overflow
- WwTW Ww Treatment Works
- Ww Pumping Station
- Septic Tank
- CK Control Kiosk
- Change of Characteristic



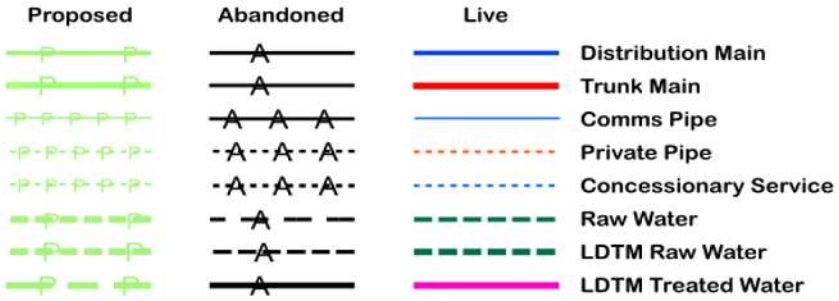
Scale:	1:1418	**SEWER RECORDS**	United Utilities Water for the North West
Date:	26/01/2021		
Address or Site Reference:	Redbank Playing Fields Manchester		
Printed by:	Property Searches		

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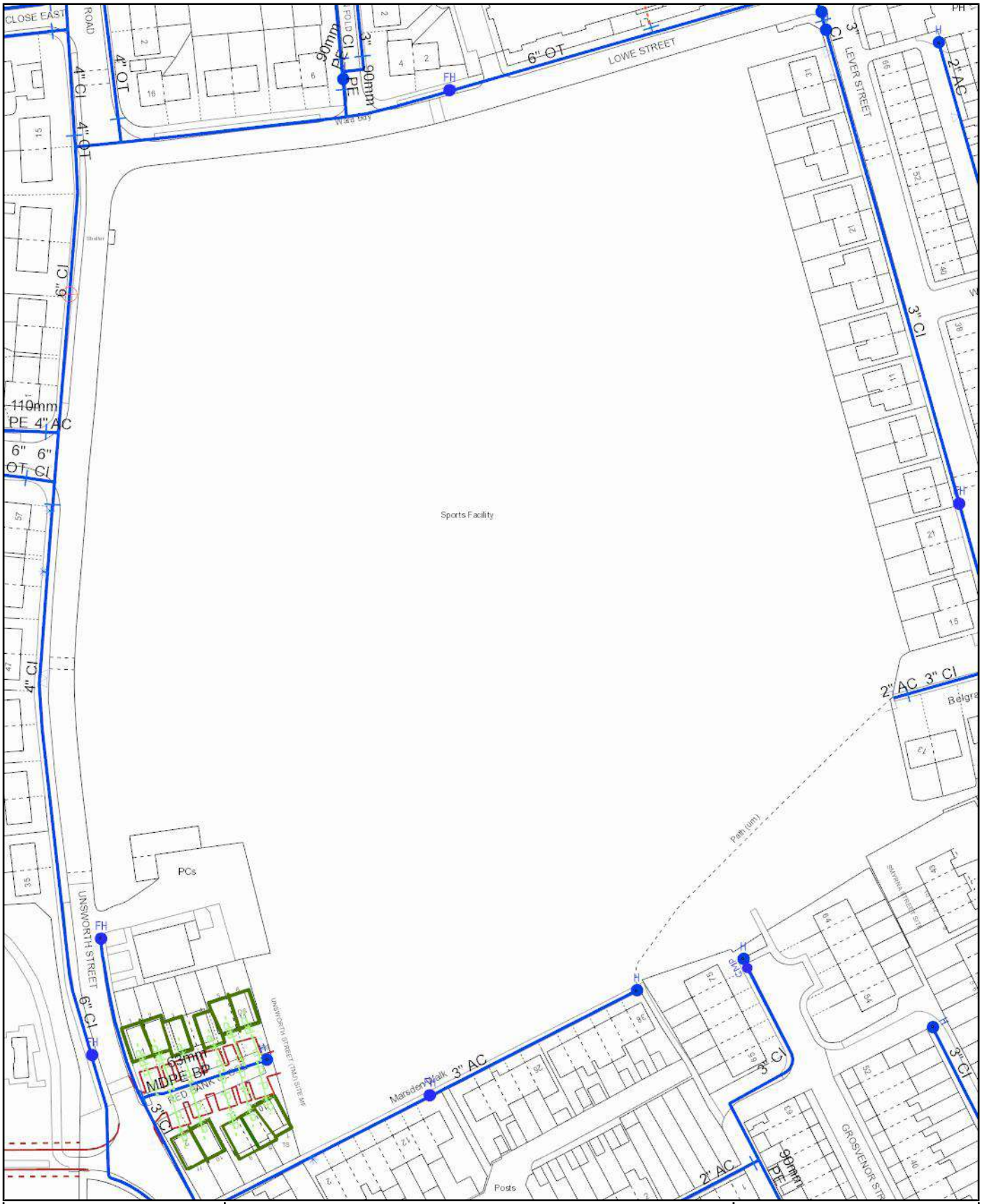
United Utilities
Water for the North West

Clean Water Symbology





Symbology for proposed assets is the same as above, but shown in green
Symbology for abandoned assets is the same as above, but shown in black



Scale:	1:1418	**WATER MAINS RECORDS**	United Utilities Water for the North West
Date:	26/01/2021		
Address or Site Reference:	Redbank Playing Fields Manchester		
Printed by:	Property Searches		

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United Utilities
Water for the North West

How to contact us:

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Property Searches
Haweswater House
Lingley Mere Business Park
Great Sankey
Warrington
WA5 3LP

Telephone: 0370 7510101

E-mail: propertysearches@uuplc.co.uk

Soiltechnics

Soiltechnics
white lodge, walgrave
walgrave, nothants
nn6 9py

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Your Ref: STT5261
Our Ref: UUPS-ORD-240356
Date: 26/01/2021

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I trust the above meets with your requirements and look forward to hearing from you should you need anything further.

If you have any queries regarding this matter please contact us .

Yours Faithfully,

Karen McCormack
Property Searches Manager

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Registered In England & Wales No. 2366678
Registered Office Haweswater House, Lingley Mere Business Park,
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Water for the North West

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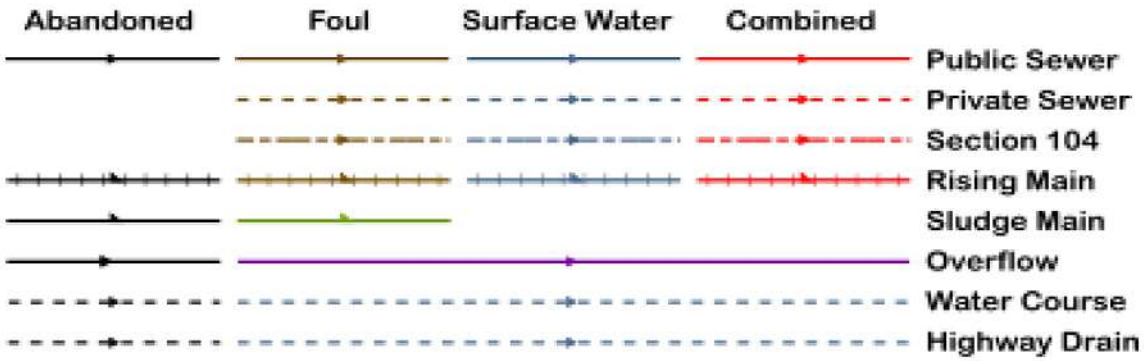
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Registered Office Haweswater House, Lingley Mere Business Park,
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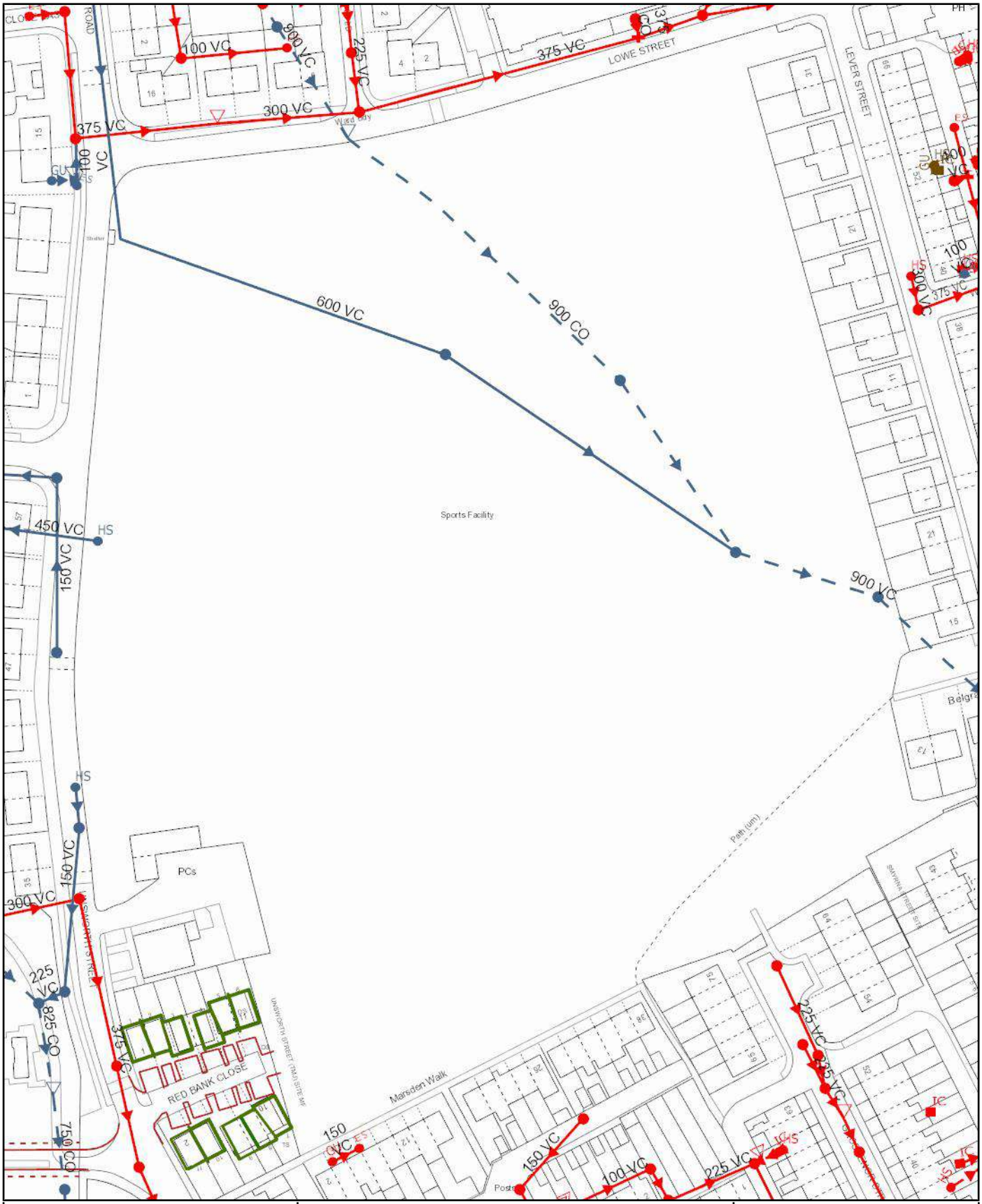
United Utilities
Water for the North West

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- AV Air Valve
- NRV Non Return Valve
- SO Soakaway
- GU Gully
- CA Cascade
- FM Flow Meter
- HA Hatch Box
- OI Oil Interceptor
- SM Summit
- DS Drop Shaft
- OP Orifice Plate
- Side Entry Manhole
- Outfall
- Screen Chamber
- IC Inspection Chamber
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- LH Lamp Hole
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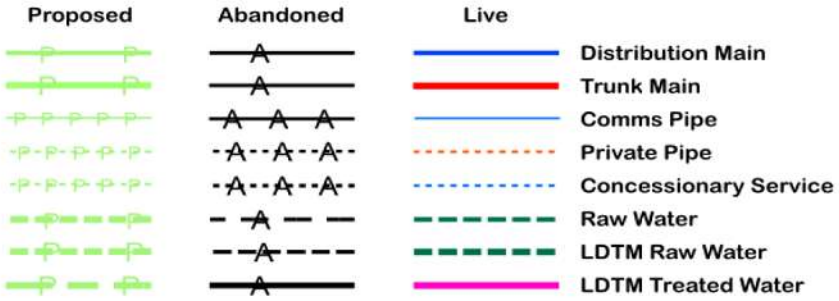
Scale:	1:1418	**SEWER RECORDS**	United Utilities Water for the North West
Date:	26/01/2021		
Address or Site Reference:	Redbank Playing Fields Manchester		
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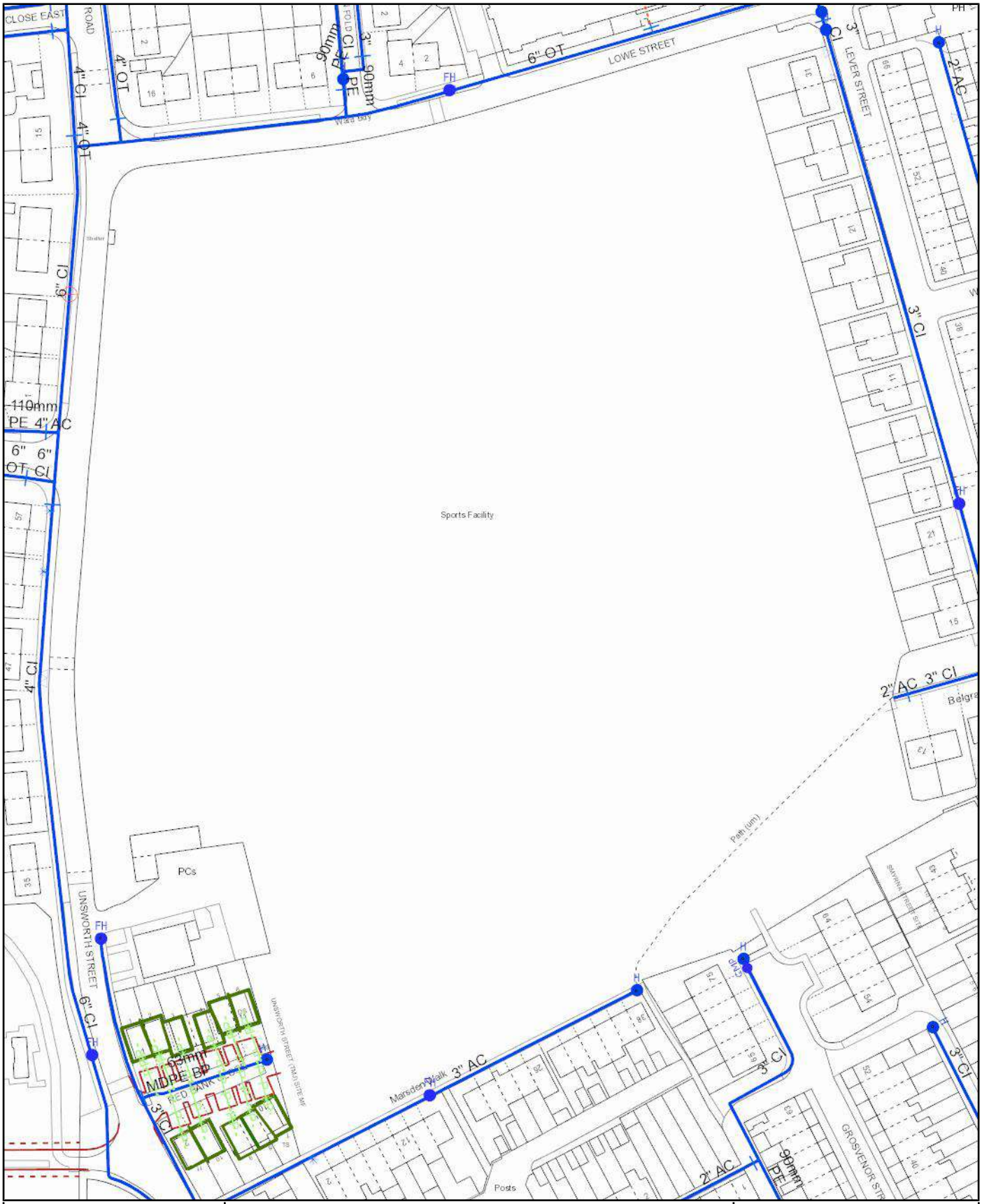
United Utilities
Water for the North West

Clean Water Symbology





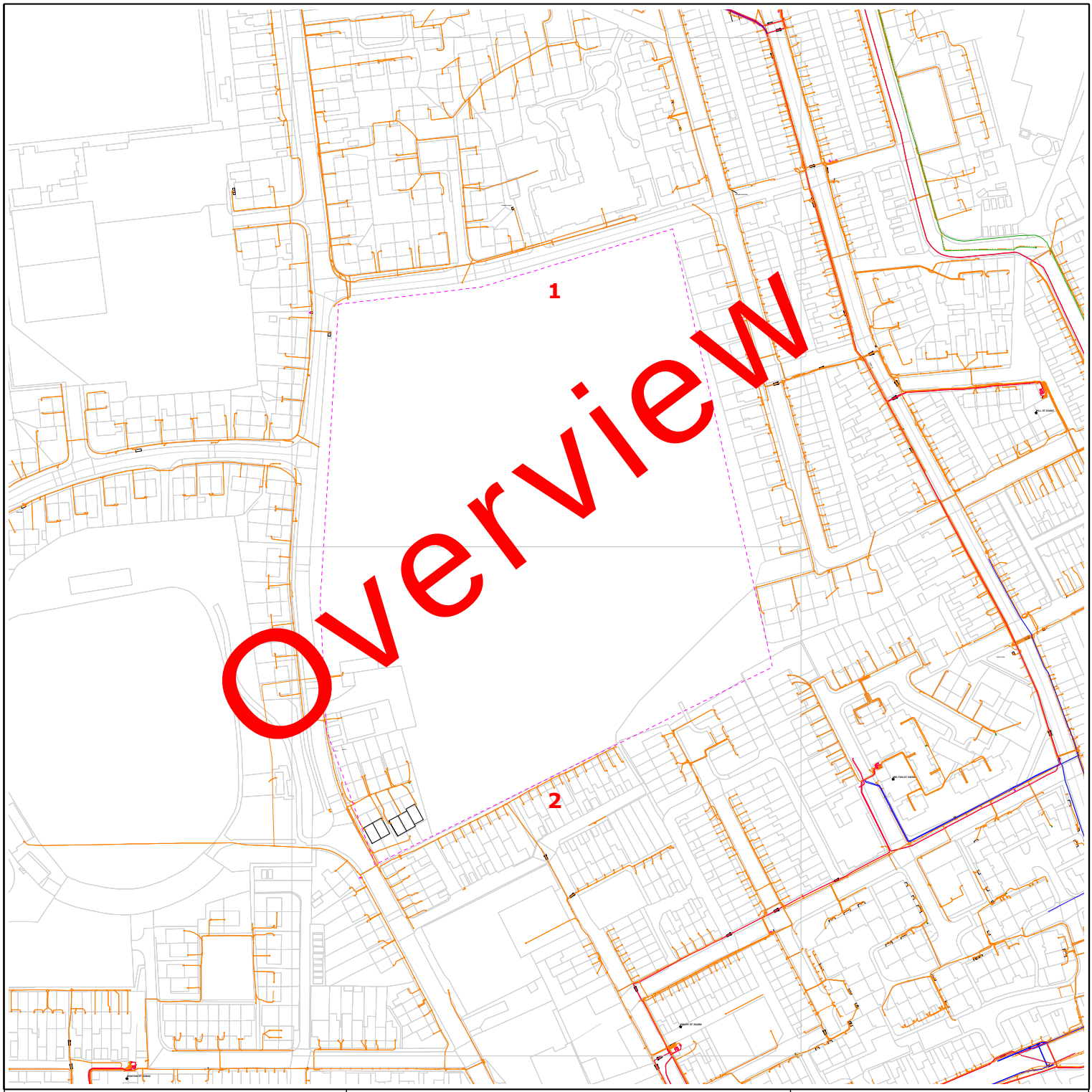
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Requested by: Alexa Band

Company: Soiltechnics

Date Requested: 20/01/2021

Job Reference: 21065650

Your Scheme/Reference: STT5261

Dig Sites:

Area Line

Operating Voltage	Colour Code	Line Colour
132kV	Black	
33kV	Green	
22kV-25kV	Yellow	
11kV	Red	
6kV-6.6kV	Blue	
1kV-6kV	Violet	
LV	Orange	
Unknown Voltage	Brown	

Data Management
Electricity North West
Linley House
Dickinson Street
Manchester, M1 4LF
Phone: 0800 195 4141
Email: planrequest@enwl.co.uk

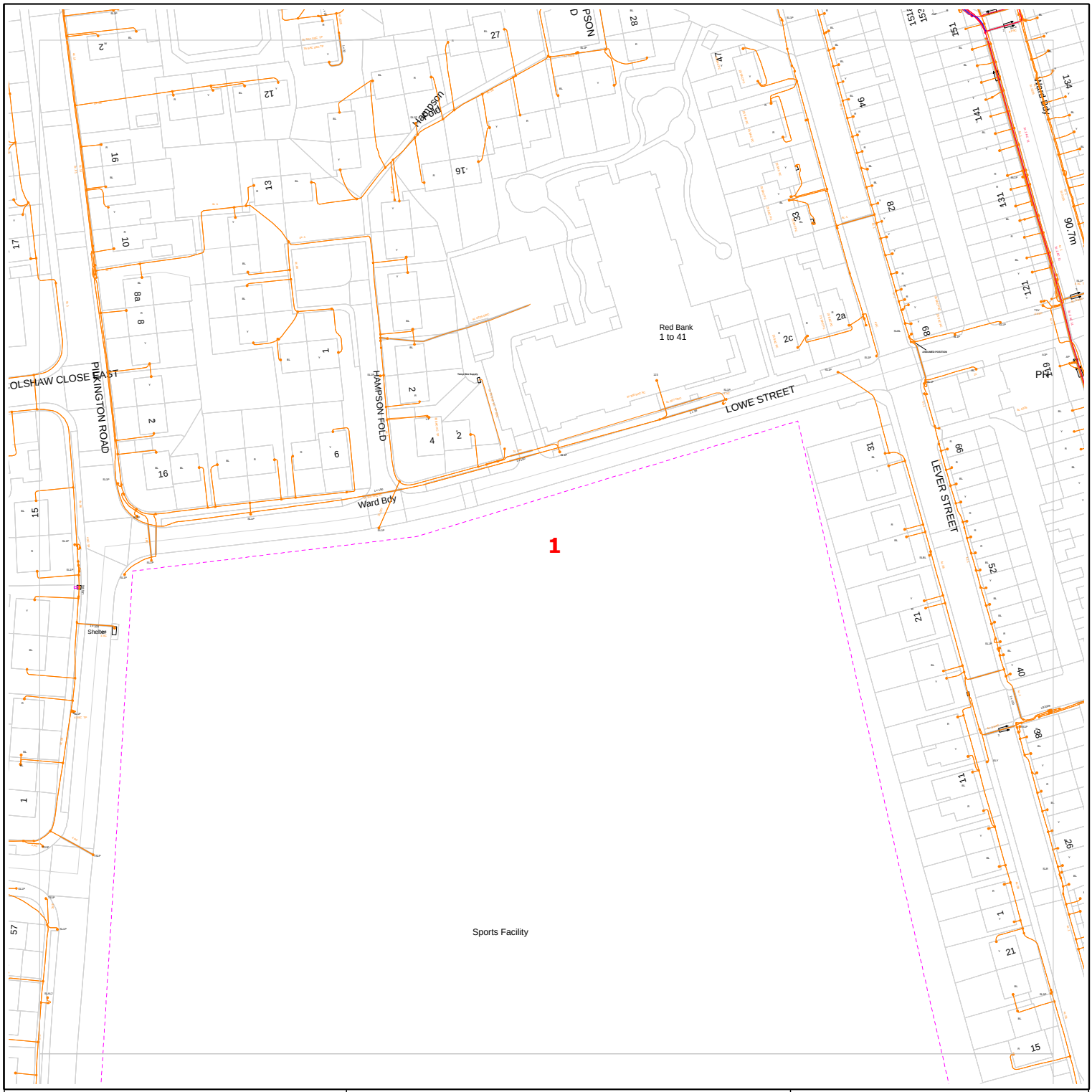
Scales on A4 paper:
1:1250 Area dig site
1:250 Line dig site

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Electricity North West Limited 304 Bridgewater Place, Birchwood Park, Warrington WA3 6XG. Registered in England and Wales. Registered No 02366949



Requested by: Alexa Band

Company: Soiltechnics

Date Requested: 20/01/2021

Job Reference: 21065650

Your Scheme/Reference: STT5261

Dig Sites:

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1kV-6kV	Violet	
LV	Orange	
Unknown Voltage	Brown	

Data Management
Electricity North West
Linley House
Dickinson Street
Manchester, M1 4LF
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Email: planrequest@enwl.co.uk

Scales on A4 paper:
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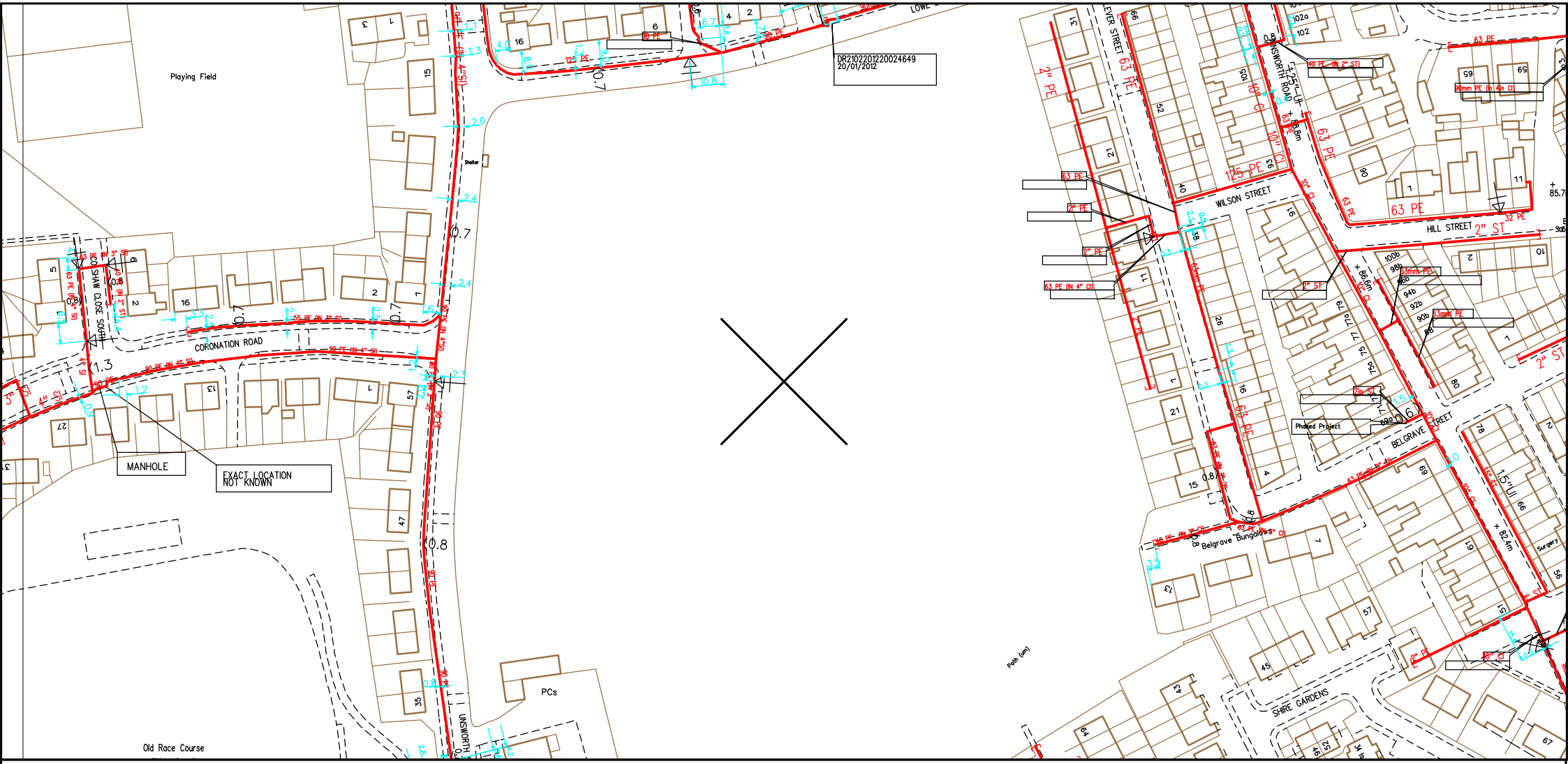
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1:1250 Area dig site
1:250 Line dig site

Unless otherwise indicated the depth of Electricity North West Limited cables are in accordance with NJUG (450mm for Low Voltage & 600mm for 11kV cables) 33kV and 132kV cables are laid at depths as marked. The depth and positions of Electricity North West Limited equipment was accurate as shown when the equipment was installed. However third parties may have altered the level & other reference data. Therefore Electricity North West Limited accept no responsibility for the position of Electricity North West Limited equipment being different from shown. No person, body or company, shall be relieved from liability for damage caused to Electricity North West Limited equipment by reason of being located differently to the indications on this drawing. Service cables are not necessarily shown but must be assumed to exist to all premises, streetlights and signs. There may be other Electricity North West Limited apparatus in the vicinity which is not indicated on the cable records. Other apparatus may also be present which is owned by a third party other than Electricity North West Limited.

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Reference should be made to HSE Guidance, HS(G)47 "Avoiding Danger from Underground Services" and GS6 "Avoidance of Danger from Overhead Power Lines".

Electricity North West Limited 304 Bridgewater Place, Birchwood Park, Warrington WA3 6XG. Registered in England and Wales. Registered No 02366949



SCALE: Not to scale	LP MAINS
USER ID: ABand	MP MAINS
DATE: 20/01/2021	IP MAINS
EXTRACT DATE: 01/12/2020	LHP MAINS
MAP REF: SD7707	
CENTRE: 377743, 407737	

Some examples of Plant Items:

Valve | Depth of Cover | Syphon | Diameter Change | Material Change | Out of Standard Service

This plan shows those pipes owned by Cadent Gas Ltd in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Ltd or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. Further information on all DR4s can be determined by calling the DR4 hotline on 01455 892426 (9am-5pm) A DR4 is where a potential error has been identified within the asset record and a process is currently underway to investigate and resolve the error as appropriate.

MAPS Viewer Version 5.8.0.1

Local Machine

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Table 1 - Excavation widths and pipe bed & surround thickness

Diameter of main	63mm	90mm	110mm	160mm	225mm	315mm
Nominal excavation width	350mm	400mm	400mm	500mm	600mm	600mm
Pipe bed and surround (compacted)	50mm	75mm	75mm	100mm	150mm	150mm

Key for Mains & Service Pipework

- Existing LP mains or services operating up to 75 millibar gauge
- Proposed LP mains or services operating up to 75 millibar gauge
- Existing MP mains or services operating between 75 millibar and 2 bar gauge
- Proposed MP mains or services operating between 75 millibar and 2 bar gauge
- Existing IP mains or services operating between 2 bar and 7 bar gauge
- Proposed IP mains or services operating between 2 bar and 7 bar gauge

DRAWING NOMENCLATURE

- 90 | 125 — CHANGE IN DIAMETER NOMINAL BORE
- MAINS NOT CONNECTED
- VALVE
- PRESSURE REGULATOR
- CAP END
- PRESSURE / PURGE POINT
- 0.8M — DEPTH OF COVER MAIN OR SERVICE

ES PIPELINES
ES Pipelines
HAZELDEAN
STATION ROAD
LEATHERHEAD
SURREY
KT22 7AA
Tel: 01372 227560 FAX: 01372 377996

N W E S

Rev.		Date

TITLE

TMJ CONTRACTORS
UNSWORTH STREET, BURY
PROPOSED GAS DESIGN
DRAWING

C:\USERS\RYAN WOODCOCK\DESKTOP\BETHELL UTILITY LOGO.JPG

BETHELL UTILITY SERVICES
DANE HOUSE, EUROPA PARK
STONECLOUGH ROAD, KEARSLEY,
M26 1GE TEL. 01204 439100

DRAWN	RYAN WOODCOCK	11/05/16
CHECKED	SARAH STANDISH	11/05/16
APPROVED	PAUL CONNOLLY	11/05/16
DRG No.	BU0019-G-P1	REV 0

SCALE 1:250 @ A1

Enquiry Confirmation

LSBUD Ref: 21065650

Date of enquiry: 20/01/2021
Time of enquiry: 13:49

Enquirer

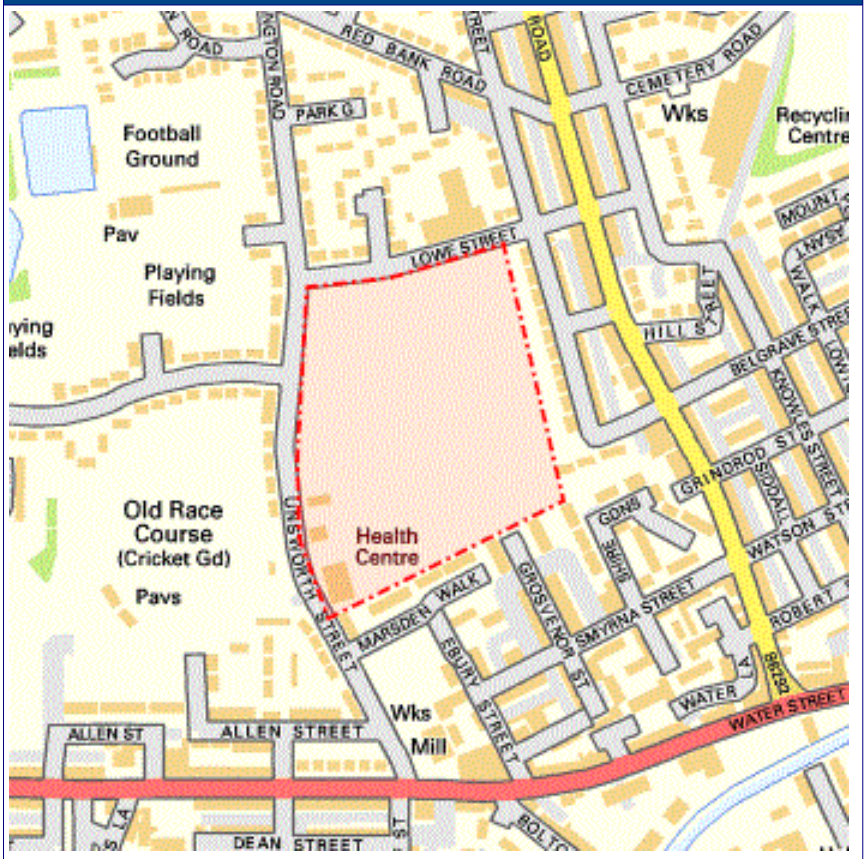
Name	Miss Alexa Band	Phone	01604 781877
Company	Soiltechnics	Mobile	Not Supplied
Address	Cedar Barn White Lodge Walgrave Northamptonshire NN6 9PY		
Email	Alexa.Band@soiltechnics.net		

Enquiry Details

Scheme/Reference	STT5261		
Enquiry type	Initial Enquiry	Work category	Development Projects
Start date	21/01/2021	Work type	Commercial/industrial
End date	21/01/2021	Site size	48868 metres square
Searched location	XY= 377743, 407737	Work type buffer*	25 metres
Confirmed location	377744 407749		
Site Contact Name	Not Supplied	Site Phone No	Not Supplied
Description of Works			

* The WORK TYPE BUFFER is a distance added to your search area based on the Work type you have chosen.

Site Map



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Enquiry Confirmation

LSBUD Ref: 21065650

Date of enquiry: 20/01/2021
Time of enquiry: 13:49

Asset Owners

Terms and Conditions. Please note that this enquiry is subject always to our standard terms and conditions available at www.linesearchbeforeudig.co.uk ("Terms of Use") and the disclaimer at the end of this document. Please note that in the event of any conflict or ambiguity between the terms of this Enquiry Confirmation and the Terms of Use, the Terms of Use shall take precedence.

Notes. Please ensure your contact details are correct and up to date on the system in case the LSBUD Members need to contact you.

Validity and search criteria. The results of this enquiry are based on the confirmed information you entered and are valid only as at the date of the enquiry. It is your responsibility to ensure that the Enquiry Details are correct, and LinesearchbeforeUdig accepts no responsibility for any errors or omissions in the Enquiry Details or any consequences thereof. LSBUD Members update their asset information on a regular basis so you are advised to consider this when undertaking any works. It is your responsibility to choose the period of time after which you need to resubmit any enquiry but the maximum time (after which your enquiry will no longer be dealt with by the LSBUD Helpdesk and LSBUD Members) is 28 days. If any details of the enquiry change, particularly including, but not limited to, the location of the work, then a further enquiry must be made.

Asset Owners & Responses. Please note the enquiry results include the following:

1. "LSBUD Members" who are asset owners who have registered their assets on the LSBUD service.
2. "Non LSBUD Members" are asset owners who have not registered their assets on the LSBUD service but LSBUD is aware of their existence. Please note that there could be other asset owners within your search area.

Below are three lists of asset owners:

1. LSBUD Members who have assets registered within your search area. ("Affected")
   a. These LSBUD Members will either:
      i. Ask for further information ("Email Additional Info" noted in status). The additional information includes: Site contact name and number, Location plan, Detailed plan (minimum scale 1:2500), Cross sectional drawings (if available), Work Specification.

      ii. Respond directly to you ("Await Response"). In this response they may either send plans directly to you or ask for further information before being able to do so, particularly if any payments or authorisations are required.

2. LSBUD Members who do not have assets registered within your search area. ("Not Affected")

3. Non LSBUD Members who may have assets within your search area. Please note that this list is not exhaustive and all details are provided as a guide only. It is your responsibility to identify and consult with all asset owners before proceeding.

National Grid. Please note that the LSBUD service only contains information on National Grid's Gas above 7 bar asset, all National Grid Electricity Transmission assets and National Grid's Gas Distribution Limited above 2 bar asset.

For National Grid Gas Distribution Ltd below 2 bar asset information please go to www.beforeyoudig.nationalgrid.com

Enquiry Confirmation

LSBUD Ref: 21065650

Date of enquiry: 20/01/2021
Time of enquiry: 13:49

LSBUD Members who have assets registered on the LSBUD service within the vicinity of your search area.

List of affected LSBUD members			
Asset Owner	**Phone/Email**	**Emergency Only**	**Status**
Electricity North West Limited	08001954141	08001954141	Await response
ESP Utilities Group	01372227560	01372227560	Await response

LSBUD Members who do not have assets registered on the LSBUD service within the vicinity of your search area. Please be aware that LSBUD Members make regular changes to their assets and this list may vary for new enquiries in the same area.

List of not affected LSBUD members		
AWE Pipeline	Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)
Box Broadband	BP Exploration Operating Company Limited	BPA
Carrington Gas Pipeline	CATS Pipeline c/o Wood Group PSN	Cemex
Centrica Storage Ltd	Chrysaor Production (UK) Limited	CLH Pipeline System Ltd
CNG Services Ltd	Concept Solutions People Ltd	ConocoPhillips (UK) Teesside Operator Ltd
Diamond Transmission Corporation	DIO (MOD Abandoned Pipelines)	DIO (MOD Live Pipelines)
Drax Group	E.ON UK CHP Limited	EirGrid
ENI & Himor c/o Penspen Ltd	EnQuest NNS Limited	EP Langage Limited
ESSAR	Esso Petroleum Company Limited	Fulcrum Pipelines Limited
Gamma	Gas Networks Ireland (UK)	Gateshead Energy Company
Gigaclear Ltd	Gtt	Heathrow Airport LTD
Humbly Grove Energy	IGas Energy	INEOS FPS Pipelines
INEOS Manufacturing (Scotland and TSEP)	INOVYN ChlorVinyls Limited	INOVYN Enterprises Limited
Intergen (Coryton Energy or Spalding Energy)	Jurassic Fibre Ltd	Mainline Pipelines Limited
Manchester Jetline Limited	Manx Cable Company	Marchwood Power Ltd (Gas Pipeline)
Melbourn Solar Limited	Murphy Utility Assets	National Grid Gas (Above 7 bar), National Grid Gas Distribution Limited (Above 2 bar) and National Grid Electricity Transmission
Northumbrian Water Group	NPower CHP Pipelines	NYnet Ltd
Oikos Storage Limited	Ørsted	Perenco UK Limited (Purbeck Southampton Pipeline)
Petroineos	Phillips 66	Portsmouth Water
Premier Transmission Ltd (SNIP)	Redundant Pipelines - LPDA	RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)
RWEnpower (Little Barford and South Haven)	SABIC UK Petrochemicals	Scottish and Southern Electricity Networks
Scottish Power Generation	Seabank Power Ltd	SES Water
SGN	Shell	Shell NOP
SSE Enterprise Telecoms	SSE Generation Ltd	SSE Utility Solutions Limited
Tata Communications (c/o JSM Construction Ltd)	Total (Colnbrook & Colwick Pipelines)	Total Finaline Pipelines
Transmission Capital	UK Power Networks	Uniper UK Ltd

University of Cambridge Granta Backbone Network	Vattenfall	Veolia ES SELCHP Limited
Veolia ES Sheffield Ltd	Wales and West Utilities	West of Duddon Sands Transmission Ltd
Western Power Distribution	Westminster City Council	Zayo Group UK Ltd c/o JSM Group Ltd

Enquiry Confirmation

LSBUD Ref: 21065650

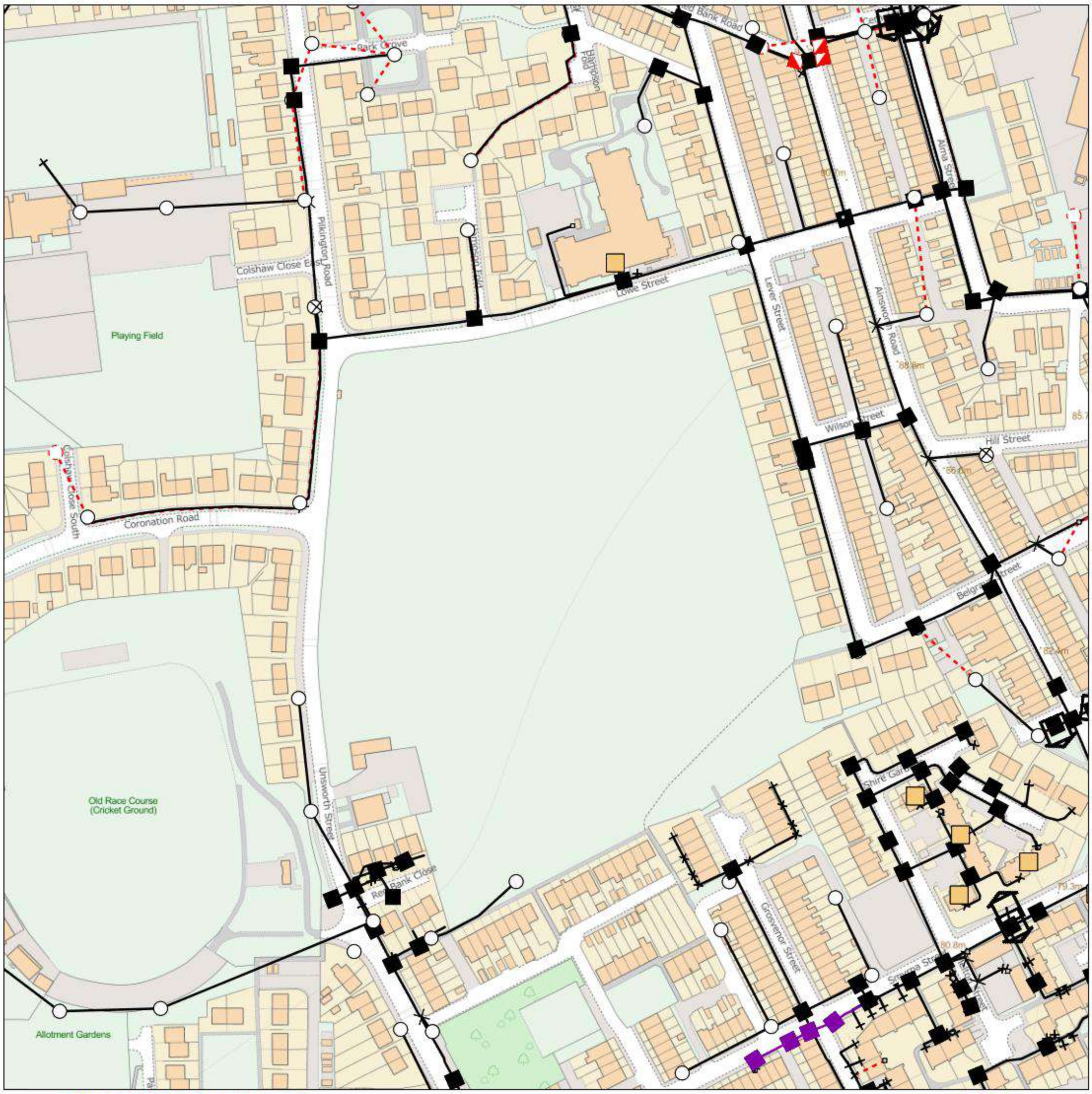
Date of enquiry: 20/01/2021
Time of enquiry: 13:49

The following Non-LSBUD Members may have assets in your search area. It is YOUR RESPONSIBILITY to contact them before proceeding. Please be aware this list is not exhaustive and it is your responsibility to identify and contact all asset owners within your search area.

Non-LSBUD members (Asset owners not registered on LSBUD)			
Asset Owner	**Preferred contact method**	**Phone**	**Status**
BT	https://www.swns.bt.com/pls/mbe/welcome.home	08000232023	Not Notified
Cadent Gas	plantprotection@cadentgas.com	0800688588	Not Notified
CenturyLink Communications UK Limited	plantenquiries@instalcom.co.uk	02087314613	Not Notified
CityFibre	asset.team@cityfibre.com	033 3150 7282	Not Notified
Colt	plantenquiries@catelecomuk.com	01227768427	Not Notified
ENGIE	nrswa.uk@engie.com	01293 549944	Not Notified
GTC	https://pe.gtc-uk.co.uk/PlantEnqMembership	01359240363	Not Notified
Last Mile	plantenquiries@lastmile-uk.com	01698404646	Not Notified
Mobile Broadband Network Limited	mbnlplantenquiries@turntown.com	01212 621 100	Not Notified
Sky UK Limited	nrswa@sky.uk	02070323234	Not Notified
Sota	SOTA.plantenquiries@instalcom.co.uk		Not Notified
United Utilities	WastewaterDeveloperServices@uuplc.co.uk	08707510101	Not Notified
Utility assets Ltd	assetrecords@utilityassets.co.uk		Not Notified
Verizon Business	osp-team@uk.verizonbusiness.com	01293611736	Not Notified
Virgin Media	http://www.digdat.co.uk	08708883116	Not Notified
Vodafone	osm.enquiries@atkinsglobal.com	01454662881	Not Notified

Disclaimer
Please refer to LinesearchbeforeUdig's Terms of Use for full terms of use available at www.linesearchbeforeudig.co.uk
The results of this Enquiry are personal to the Enquirer and shall not be shared with or relied upon by any other party. The asset information on which the Enquiry results are based has been provided by LSBUD Members, therefore LinesearchbeforeUdig will provide no guarantee that such information is accurate or reliable nor does it monitor such asset information for accuracy and reliability going forward. There may also be asset owners which do not participate in the enquiry service operated by LinesearchbeforeUdig, including but not exclusively those set out above. Therefore, LinesearchbeforeUdig cannot make any representation or give any guarantee or warranty as to the completeness of the information contained in the enquiry results or accept any responsibility for the accuracy of the mapping images used. LinesearchbeforeUdig and its employees, agents and consultants accept no liability (save that nothing in this Enquiry Confirmation excludes or limits our liability for death or personal injury arising from our negligence, or our fraud or fraudulent misrepresentation, or any other liability that cannot be excluded or limited by English law) arising in respect thereof or in any other way for errors or omissions including responsibility to any person by reason of negligence.

Maps by email Plant Information Reply



IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.

openreach

CLICK BEFORE YOU DIG

FOR PROFESSIONAL FREE ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING LOCATE AND MARKING SERVICE

email cbyd@openreach.co.uk

ADVANCE NOTICE REQUIRED
(Office hours: Monday - Friday 08.00 to 17.00)
www.openreach.co.uk/cbyd

Accidents happen

If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

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KEY TO BT SYMBOLS

	Planned	*Live*
PCP		
Pole		
Box		
Manhole		
Cabinet		

Change Of State	+	Hatchings	
Split Coupling	×	Built	
Duct Tee	▲	Planned	
Building		Inferred	
Kiosk	K	Duct	

Other proposed plant is shown using dashed lines.
BT Symbols not listed above may be disregarded.
Existing BT Plant may not be recorded.
Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.

	Pending Add	*In Place*	*Pending Remove*	*Not In Use*
Power Cable				
Power Duct				N/A

BT Ref : TZP01481A
Map Reference : (centre) SD7774307737
Easting/Northing : (centre) 377743,407737
Issued : 20/01/2021 13:48:54

WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: nnhc@openreach.co.uk

Appendix D Exploratory hole records

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Key to legends

Composite materials, soils and lithology							
	Topsoil		Made Ground		Boulders		Chalk
	Clay		Coal		Cobbles		Concrete
	Gravel		Limestone		Mudstone		Peat
	Sand		Sandstone		Silt		Siltstone

Note: Composite soil types are signified by combined symbols.

Key to 'test results' and 'sample/core recovery' columns

Test result	
Depth	Records depth that the test was carried out (i.e.: at 2.10m or between 2.10m and 2.55m)
Result	PP – Pocket penetrometer result reported as an equivalent undrained shear strength (kN/m^2) by applying a factor of 50. SV – Hand held shear vane result reported as an undrained shear strength (kN/m^2). Where multiple readings are taken at the same level the average value is shown on the log. * Signifies that instrument limit reached.
	SPT – Standard Penetration Test result (N value) (uncorrected)[1,2,3] SPT(c) – Standard Penetration Test result (solid cone) (N value) (uncorrected)[1,2,3]
	UT – Undisturbed sample 100mm diameter sampler with number of blows of driving equipment required to obtain sample

Sample/core recovery	
Run No.	Records depth and number of the abstracted core[3]
Total Core Recovery (TCR) %	Ratio of core recovered (solid and non-intact) to length of core run
Solid Core Recovery (SCR) %	Ratio of solid, cylindrical, pieces of rock core recovered to length of core run
Rock Quality Designation (RQD) %	Ratio of core pieces longer than 100mm to length of core run
Fracture Index (FI)	Inverse of fracture spacing, per metre, over arbitrary length

Note 1: Seating blows recorded in brackets.

Note 2: Casing depth records depth of casing.

Note 3: The depths of open holing will be recorded in the notes. Method of lubrication of and diameter of drilling tools will be recorded on the log, together with location of circulation loss during drilling.

Water observations

Described at foot of log and shown in the 'water strike' column.

▼ Water level observed after specified delay in drilling

▽ Water strike

Installation details

	Gravel filter		Bentonite
	Slotted pipe		Unslotted pipe
	Arisings		Grout
	Extensometer magnet		Vibrating wire piezometer

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INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Grass onto brown slightly clayey fine to medium SAND with frequent rootlets. (TOPSOIL)	0.10															0.05		D
	Firm dark brown slightly sandy gravelly CLAY. Gravel is fine to medium angular to subangular brick, glass, ceramics and sandstone. (MADE GROUND)														PP 0.80	PP=75	0.50		ES
	...between 0.6m and 0.8m depth, frequent gravel of fine to coarse subrounded sandstone.																		
	...between 0.8m and 1.2m depth, obstruction.	1.20															1.20		ES
	[Loose to medium dense] dark brown slightly clayey very sandy GRAVEL of fine to medium angular to subrounded clinker, glass, ceramic, clayware, brick, sandstone and coal with rare fragments of timber present. (MADE GROUND)																2.00		ES
	Brown SAND. (MADE GROUND - FILL)	4.20																	
	Brown reworked CLAY and colliery spoil. (MADE GROUND)	8.10																	
	Grey MUDSTONE with siltstone bands. (PENNINE MIDDLE COAL MEASURES)	10.10																	

CONTINUED ON NEXT SHEET

Notes
Dynamic sampler to 4.2m depth, rotary open hole thereafter.

Groundwater observations
No groundwater encountered.

Title
Rotary core record

Date(s)
15/04/2021

Method
Dynamic sample/rotary drill

Logged by
JP

Sheet number
Sheet 1 of 3

Level (m OD)
-

Compiled by
KD

Revision

Co-ordinates
377699mE, 407771mN

Checked by
MOH

BH01

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INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE

CONTINUED ON NEXT SHEET

Notes
Dynamic sampler to 4.2m depth, rotary open hole thereafter.

Groundwater observations
No groundwater encountered.

Title
Rotary core record

Date(s)
15/04/2021

Method
Dynamic sample/rotary drill

Logged by
JP

Sheet number
Sheet 2 of 3

Level (m OD)
-

Compiled by
KD

Revision

Co-ordinates
377699mE, 407771mN

Checked by
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INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Reddish brown MUDSTONE. (PENNINE MIDDLE COAL MEASURES)	28.60																	
	BOREHOLE TERMINATED AT 30.00m	30.00																	

Notes
Dynamic sampler to 4.2m depth, rotary open hole thereafter.

Groundwater observations
No groundwater encountered.

Title Rotary core record		**Date(s)** 15/04/2021
Method Dynamic sample/rotary drill	**Logged by** JP	**Sheet number** Sheet 3 of 3
Level (m OD) -	**Compiled by** KD	**Revision**
Co-ordinates 377699mE, 407771mN	**Checked by** MOH	**BH01**

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INSTALL	STRATA: DESCRIPTION	STRATA: DEPTH (m)	STRATA: REDUCED LVL (m OD)	STRATA: LEGEND	WATER STRIKES	CORING: DEPTH (m)	CORING: TCR (%)	CORING: SCR (%)	CORING: RQD (%)	CORING: FI	SPT TESTING: TYPE / DEPTH (m)	SPT TESTING: RESULT	SPT TESTING: CASING DEPTH (m)	SPT TESTING: WATER LEVEL (m)	OTHER IN SITU TESTING: TYPE / DEPTH (m)	OTHER IN SITU TESTING: RESULT	SAMPLING: FROM (m)	SAMPLING: TO (m)	SAMPLING: TYPE
	Grass onto brown slightly clayey fine to medium SAND with frequent rootlets. (TOPSOIL)	0.10															0.05		D
	[Loose to medium dense] dark brown to black slightly sandy GRAVEL of fine to medium subangular clinker, brick, ceramic and glass. (MADE GROUND)																0.10	1.00	ES
	Soft dark grey slightly sandy CLAY and SILT. (MADE GROUND - REWORKED GLACIOFLUVIAL DEPOSITS)	2.10													PP 2.30	PP=25			
	Very soft light grey very sandy CLAY. (MADE GROUND - REWORKED GLACIOFLUVIAL DEPOSITS)	2.50															2.60		D
	[Very loose] orangish brown to light brown slightly clayey fine to medium SAND. (MADE GROUND - REWORKED GLACIOFLUVIAL DEPOSITS)	2.90															2.90	3.20	B
	...from 3.2m depth, becoming clayey.														PP 3.65	PP=75			
	...between 3.6m and 3.7m depth, gravel sized pockets of brown clay.	4.00									S 4.00 - 4.45	(2) 6	4.00						
	Very loose reddish brown clayey SAND. (MADE GROUND - REWORKED GLACIOFLUVIAL DEPOSITS)																		
	Colliery spoil GRAVEL. (MADE GROUND)	5.60																	
	Grey CLAY. (WEATHERED PENNINE MIDDLE COAL MEASURES)	7.00																	
	Reddish brown MUDSTONE. (PENNINE MIDDLE COAL MEASURES)	8.30																	
	Grey MUDSTONE. (PENNINE MIDDLE COAL MEASURES)	9.20																	

CONTINUED ON NEXT SHEET

Notes
Dynamic sampler to 4m depth, rotary open hole thereafter.

Groundwater observations
No groundwater encountered.

Title
Rotary core record

Date(s)
15/04/2021

Method
Dynamic sample/rotary drill

Logged by
JP

Sheet number
Sheet 1 of 3

Level (m OD)
-

Compiled by
KD

Revision

Co-ordinates
377748mE, 407728mN

Checked by
MOH

BH02

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environmental ▪ geotechnical ▪ building fabric

INSTALL	STRATA: DESCRIPTION	STRATA: DEPTH (m)	STRATA: REDUCED LVL (m OD)	STRATA: LEGEND	WATER STRIKES	CORING: DEPTH (m)	CORING: TCR (%)	CORING: SCR (%)	CORING: RQD (%)	CORING: FI	SPT TESTING: TYPE / DEPTH (m)	SPT TESTING: RESULT	SPT TESTING: CASING DEPTH (m)	SPT TESTING: WATER LEVEL (m)	OTHER IN SITU TESTING: TYPE / DEPTH (m)	OTHER IN SITU TESTING: RESULT	SAMPLING: FROM (m)	SAMPLING: TO (m)	SAMPLING: TYPE
	Black COAL. (PENNINE MIDDLE COAL MEASURES)	20.70																	
	Black to grey carbonaceous MUDSTONE. (PENNINE MIDDLE COAL MEASURES)	21.20																	
	Black COAL and carbonaceous MUDSTONE. (PENNINE MIDDLE COAL MEASURES)	21.50																	
	Dark grey MUDSTONE. (PENNINE MIDDLE COAL MEASURES)	21.90																	

CONTINUED ON NEXT SHEET

Notes
Dynamic sampler to 4m depth, rotary open hole thereafter.

Groundwater observations
No groundwater encountered.

Title
Rotary core record

Date(s)
15/04/2021

Method
Dynamic sample/rotary drill

Logged by
JP

Sheet number
Sheet 2 of 3

Level (m OD)
-

Compiled by
KD

Revision

Co-ordinates
377748mE, 407728mN

Checked by
MOH

BH02

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INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	BOREHOLE TERMINATED AT 30.00m	30.00																	

Notes Dynamic sampler to 4m depth, rotary open hole thereafter.	**Title** Rotary core record		**Date(s)** 15/04/2021
	Method Dynamic sample/rotary drill	**Logged by** JP	**Sheet number** Sheet 3 of 3
Groundwater observations No groundwater encountered.	**Level (m OD)** -	**Compiled by** KD	**Revision**
	Co-ordinates 377748mE, 407728mN	**Checked by** MOH	**BH02**

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INSTALL	STRATA DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND	WATER STRIKES	CORING DEPTH (m)	CORING TCR (%)	CORING SCR (%)	CORING RQD (%)	CORING FI	SPT TESTING TYPE / DEPTH (m)	SPT TESTING RESULT	SPT TESTING CASING DEPTH (m)	SPT TESTING WATER LEVEL (m)	OTHER IN SITU TESTING TYPE / DEPTH (m)	OTHER IN SITU TESTING RESULT	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING TYPE
	Grass onto brown slightly clayey fine to medium SAND with frequent rootlets. (TOPSOIL)	0.10															0.00	1.00	ES
																	0.05		D
	[Loose] dark brown to black slightly clayey sandy GRAVEL of fine to coarse angular to subangular brick, sandstone, glass and clinker. (MADE GROUND)																1.00	2.00	ES
	Firm dark brown to dark grey sandy CLAY and SILT. (MADE GROUND)	3.70													PP 3.80	PP=71	3.50		D
	Grey CLAY. (WEATHERED PENNINE MIDDLE COAL MEASURES)	5.10																	
	Grey MUDSTONE with siltstone bands. (PENNINE MIDDLE COAL MEASURES)	6.00																	

CONTINUED ON NEXT SHEET

Notes
Dynamic sampler to 4m depth, rotary open hole thereafter.

Groundwater observations
No groundwater encountered.

Title
Rotary core record

Date(s)
15/04/2021

Method
Dynamic sample/rotary drill

Logged by
JP

Sheet number
Sheet 1 of 3

Level (m OD)
-

Compiled by
KD

Revision

Co-ordinates
377789mE, 407680mN

Checked by
MOH

BH03

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INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Hard grey SILTSTONE. (PENNINE MIDDLE COAL MEASURES)	17.40																	
	Grey MUDSTONE and SILTSTONE. (PENNINE MIDDLE COAL MEASURES)	18.60																	

CONTINUED ON NEXT SHEET

Notes
Dynamic sampler to 4m depth, rotary open hole thereafter.

Groundwater observations
No groundwater encountered.

Title
Rotary core record

Date(s)
15/04/2021

Method
Dynamic sample/rotary drill

Logged by
JP

Sheet number
Sheet 2 of 3

Level (m OD)
-

Compiled by
KD

Revision

Co-ordinates
377789mE, 407680mN

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BH03

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INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Possible VOID/BROKEN GROUND. Loss of flush. Assumed worked coal seam. (PENNINE MIDDLE COAL MEASURES)	26.60																	
	SOFT DEPOSITS. No recovery. (PENNINE MIDDLE COAL MEASURES)	27.90																	
	Assumed MUDSTONE. Limited recovery. (PENNINE MIDDLE COAL MEASURES)	28.80																	
	BOREHOLE TERMINATED AT 30.00m	30.00																	

Notes
Dynamic sampler to 4m depth, rotary open hole thereafter.

Groundwater observations
No groundwater encountered.

Title
Rotary core record

Date(s)
15/04/2021

Method
Dynamic sample/rotary drill

Logged by
JP

Sheet number
Sheet 3 of 3

Level (m OD)
-

Compiled by
KD

Revision

Co-ordinates
377789mE, 407680mN

Checked by
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BH03

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INSTALL	STRATA DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND	WATER STRIKES	CORING DEPTH (m)	CORING TCR (%)	CORING SCR (%)	CORING RQD (%)	CORING FI	SPT TESTING TYPE / DEPTH (m)	SPT TESTING RESULT	SPT TESTING CASING DEPTH (m)	SPT TESTING WATER LEVEL (m)	OTHER IN SITU TESTING TYPE / DEPTH (m)	OTHER IN SITU TESTING RESULT	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING TYPE
	Grass onto brown slightly clayey fine to medium SAND with frequent rootlets. (TOPSOIL)	0.20															0.10		D
	Firm dark brown slightly sandy gravelly CLAY. Gravel is fine to coarse angular to subangular brick, sandstone, glass and clinker. (MADE GROUND)	1.00													PP 0.50 PP 0.70	PP=58 PP=71	0.75 1.00 1.20	2.00	ES D ES
	[Loose] dark brown to black slightly clayey sandy GRAVEL of fine to coarse angular to subangular brick, sandstone, glass and clinker. (MADE GROUND)																		
	Soft light brown sandy CLAY and SILT with slight organic odour. (MADE GROUND)	3.10													PP 3.30 PP 3.50 PP 3.70	PP=13 PP=21 PP=17	3.50		D
	Reworked brown CLAY and SAND. (MADE GROUND)	4.00																	
	Grey CLAY. (WEATHERED PENNINE MIDDLE COAL MEASURES)	5.20																	
	Grey MUDSTONE. (PENNINE MIDDLE COAL MEASURES)	6.00																	
	BOREHOLE TERMINATED AT 11.00m	11.00																	

Notes
Dynamic sampler to 4m depth, rotary open hole thereafter to 11m depth to prove rockhead.

Groundwater observations
No groundwater encountered.

Title
Rotary core record

Date(s)
15/04/2021 - 16/04/2021

Method
Dynamic sample/rotary drill

Logged by
JP

Sheet number
Sheet 1 of 1

Level (m OD)
-

Compiled by
KD

Revision

Co-ordinates
377731mE, 407658mN

Checked by
MOH

BH04

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INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Grass onto brown slightly clayey fine to medium SAND with frequent rootlets. (TOPSOIL)	0.10																	
	Dark brown to black CLAY and SAND with fragments of brick present. (MADE GROUND)																		
	Grey reworked sandy CLAY. (MADE GROUND)	1.80																	
	Greyish brown CLAY. (MADE GROUND)	3.20																	
	Colliery spoil GRAVEL. (MADE GROUND)	5.50																	
	Brown MUDSTONE. (PENNINE MIDDLE COAL MEASURES)	7.00																	
	Grey MUDSTONE. (PENNINE MIDDLE COAL MEASURES)	7.60																	

CONTINUED ON NEXT SHEET

Notes
Rotary openhole from surface.

Groundwater observations
No groundwater encountered.

Title
Rotary core record

Date(s)
15/04/2021

Method
Rotary core

Logged by
JP

Sheet number
Sheet 1 of 3

Level (m OD)
-

Compiled by
KD

Revision

Co-ordinates
377717mE, 407697mN

Checked by
MOH

BH05

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INSTALL	STRATA: DESCRIPTION	STRATA: DEPTH (m)	STRATA: REDUCED LVL (m OD)	STRATA: LEGEND	WATER STRIKES	CORING: DEPTH (m)	CORING: TCR (%)	CORING: SCR (%)	CORING: RQD (%)	CORING: FI	SPT TESTING: TYPE / DEPTH (m)	SPT TESTING: RESULT	SPT TESTING: CASING DEPTH (m)	SPT TESTING: WATER LEVEL (m)	OTHER IN SITU TESTING: TYPE / DEPTH (m)	OTHER IN SITU TESTING: RESULT	SAMPLING: FROM (m)	SAMPLING: TO (m)	SAMPLING: TYPE
	Black carbonaceous MUDSTONE. (PENNINE MIDDLE COAL MEASURES)	17.60 17.90																	
	Black COAL and carbonaceous MUDSTONE. (PENNINE MIDDLE COAL MEASURES)	18.40																	
	Grey MUDSTONE. (PENNINE MIDDLE COAL MEASURES)																		
	Black COAL and carbonaceous MUDSTONE. (PENNINE MIDDLE COAL MEASURES)	19.80																	
	Grey MUDSTONE. (PENNINE MIDDLE COAL MEASURES)	20.60																	
	Black COAL. (PENNINE MIDDLE COAL MEASURES)	21.50 21.70																	
	Grey MUDSTONE. (PENNINE MIDDLE COAL MEASURES)																		

CONTINUED ON NEXT SHEET

Notes
Rotary openhole from surface.

Groundwater observations
No groundwater encountered.

Title
Rotary core record

Date(s)
15/04/2021

Method
Rotary core

Logged by
JP

Sheet number
Sheet 2 of 3

Level (m OD)
-

Compiled by
KD

Revision

Co-ordinates
377717mE, 407697mN

Checked by
MOH

BH05

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INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Hard grey SILTSTONE with mudstone bands. (PENNINE MIDDLE COAL MEASURES)	26.50																	
	BOREHOLE TERMINATED AT 30.00m	30.00																	

Notes Rotary openhole from surface.	**Title** Rotary core record	**Date(s)** 15/04/2021
	Method Rotary core	**Logged by** JP
		Sheet number Sheet 3 of 3
Groundwater observations No groundwater encountered.	**Level (m OD)** -	**Compiled by** KD
	Co-ordinates 377717mE, 407697mN	**Checked by** MOH
		Revision
		BH05

Appendix E In situ test results

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Dynamic Cone Penetrometer (DCP) raw data

Location	Penetration below ground level (mm)	Cumulative blows
DCP01	90	1
DCP01	131	2
DCP01	152	3
DCP01	175	4
DCP01	195	5
DCP01	215	6
DCP01	240	7
DCP01	260	8
DCP01	280	9
DCP01	295	10
DCP01	310	11
DCP01	320	12
DCP01	330	13
DCP01	340	14
DCP01	350	15
DCP01	360	16
DCP01	370	17
DCP01	380	18
DCP01	390	19
DCP01	405	20
DCP01	417	21
DCP01	432	22
DCP01	450	23
DCP01	465	24
DCP01	480	25
DCP01	495	26
DCP01	515	27
DCP01	540	28
DCP01	575	29
DCP01	630	30
DCP01	700	31
DCP01	730	32
DCP01	741	33
DCP01	750	34
DCP01	760	35
DCP01	770	36
DCP02	110	1
DCP02	157	2
DCP02	190	3
DCP02	217	4
DCP02	228	5
DCP02	245	6
DCP02	260	7

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Dynamic Cone Penetrometer (DCP) raw data

Location	Penetration below ground level (mm)	Cumulative blows
DCP02	275	8
DCP02	297	9
DCP02	320	10
DCP02	340	11
DCP02	365	12
DCP02	387	13
DCP02	410	14
DCP02	437	15
DCP02	470	16
DCP02	495	17
DCP02	530	18
DCP02	565	19
DCP02	615	20
DCP02	697	21
DCP02	820	22
DCP02	915	23
DCP03	50	1
DCP03	62	2
DCP03	72	3
DCP03	84	4
DCP03	95	5
DCP03	110	6
DCP03	121	7
DCP03	131	8
DCP03	145	9
DCP03	160	10
DCP03	175	11
DCP03	205	12
DCP03	242	13
DCP03	280	14
DCP03	330	15
DCP03	385	16
DCP03	450	17
DCP03	510	18
DCP03	576	19
DCP03	630	20
DCP03	700	21
DCP03	745	22
DCP03	810	23
DCP03	875	24
DCP03	900	25
DCP04	120	1
DCP04	210	2

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Dynamic Cone Penetrometer (DCP) raw data

Location	Penetration below ground level (mm)	Cumulative blows
DCP04	230	3
DCP04	252	4
DCP04	280	5
DCP04	300	6
DCP04	320	7
DCP04	340	8
DCP04	370	9
DCP04	400	10
DCP04	438	11
DCP04	478	12
DCP04	520	13
DCP04	550	14
DCP04	570	15
DCP04	590	16
DCP04	615	17
DCP04	635	18
DCP04	650	19
DCP04	675	20
DCP04	691	21
DCP04	705	22
DCP04	715	23
DCP04	727	24
DCP04	728	25
DCP04	740	26
DCP04	752	27
DCP04	770	28
DCP04	780	29
DCP04	795	30
DCP04	802	31
DCP04	810	32
DCP04	820	33
DCP04	830	34
DCP04	840	35
DCP04	865	36
DCP04	880	37
DCP04	895	38
DCP04	910	39
DCP05	95	1
DCP05	165	2
DCP05	190	3
DCP05	215	4
DCP05	237	5
DCP05	257	6

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Dynamic Cone Penetrometer (DCP) raw data

Location	Penetration below ground level (mm)	Cumulative blows
DCP05	275	7
DCP05	285	8
DCP05	295	9
DCP05	297	10
DCP05	305	11
DCP05	310	12
DCP05	315	13
DCP05	321	14
DCP05	325	15
DCP05	327	16
DCP05	333	17
DCP05	335	18
DCP05	336	19

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Dynamic Cone Penetrometer (DCP) summary

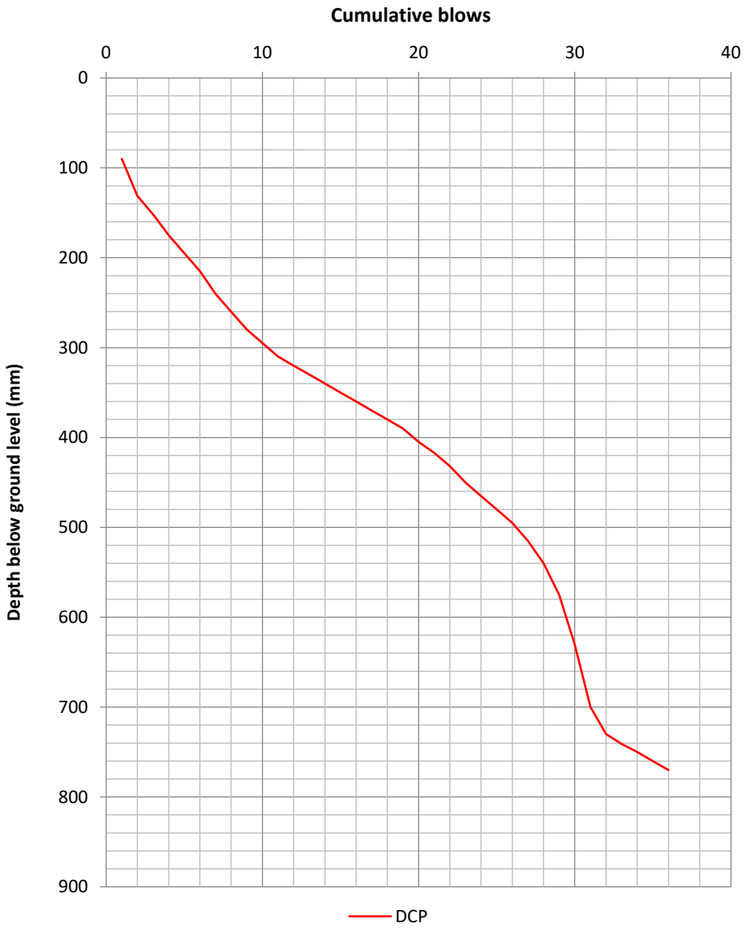
Location	Layer No.	Mod.CBR (%)	Thickness (mm)	Start depth (mmBGL)	Base depth (mmBGL)
DCP01	1	11.5	200	100	300
DCP01	2	24.6	100	300	400
DCP01	3	12.4	200	400	600
DCP01	4	3.7	100	600	700
DCP01	5	17.3	60	700	760
DCP02	1	9.0	150	100	250
DCP02	2	8.8	300	300	600
DCP02	3	2.4	300	600	900
DCP03	1	18.8	150	50	200
DCP03	2	6.3	100	200	300
DCP03	3	4.0	550	300	850
DCP04	1	9.1	400	200	600
DCP04	2	19.8	250	600	850
DCP05	1	4.1	200	0	200
DCP05	2	18.1	100	200	300

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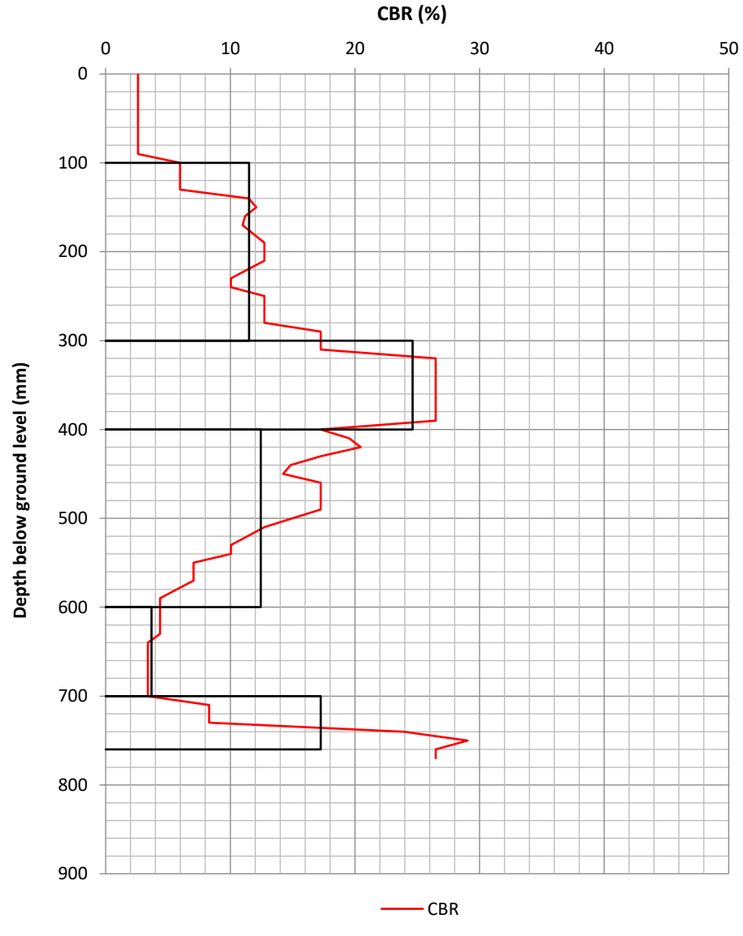
Dynamic Cone Penetrometer (DCP) test

Location	Date of test	Start depth (mm)	Zero reading (mm)	Operator
DCP01	15/04/2021	0	40	JP

Plot showing number of blows against depth



Plot showing CBR (%) against depth



Layer properties

Layer No.	Mod. CBR (%)	Thickness (mm)	Start depth (mmBGL)	Base depth (mmBGL)
1	**11.5**	200	100	300
2	**24.6**	100	300	400
3	**12.4**	200	400	600
4	**3.7**	100	600	700
5	**17.3**	60	700	760

Notes

1. Test procedure following Highways England Document CS229 Data for Pavement Assessment.

Calculations

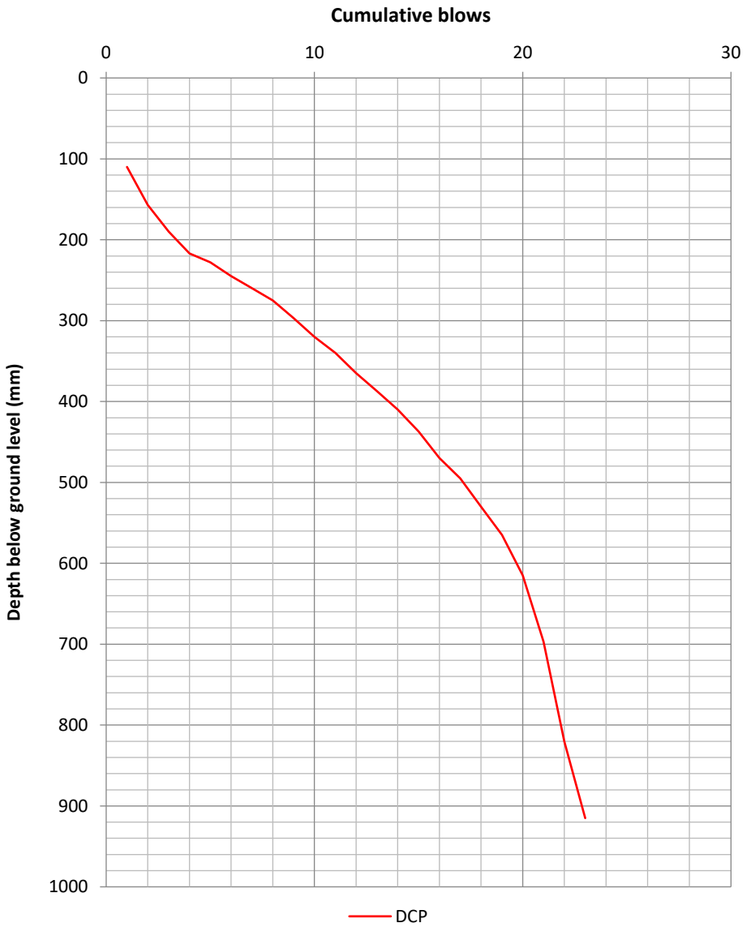
Log10 (Uncorrected (UC) CBR) = 2.48 - 1.057Log10(mm/blow)

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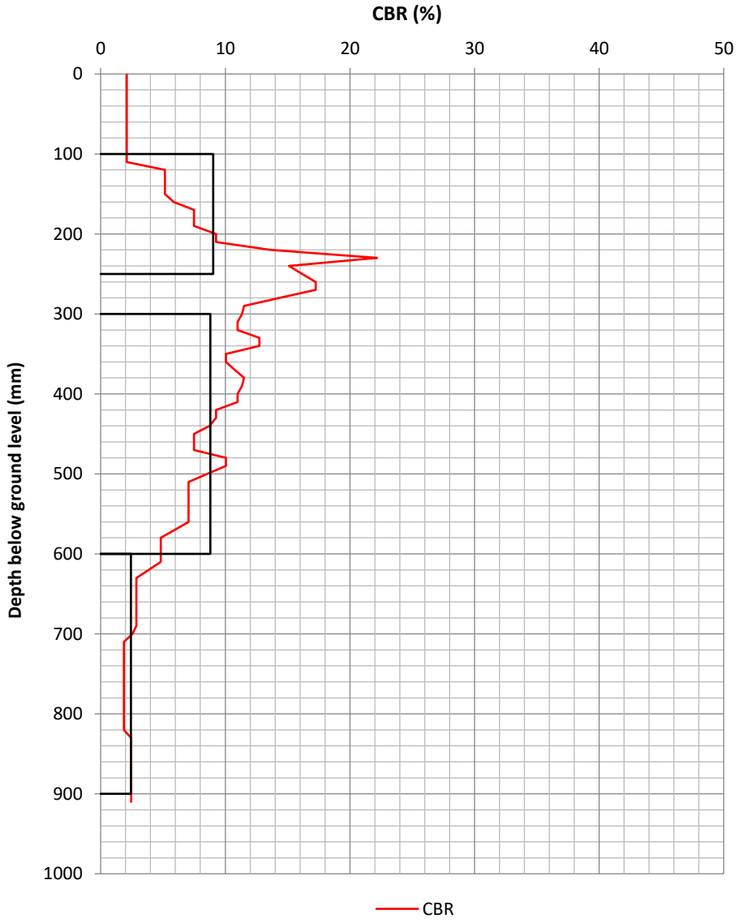
Dynamic Cone Penetrometer (DCP) test

Location	Date of test	Start depth (mm)	Zero reading (mm)	Operator
DCP02	15/04/2021	0	35	JP

Plot showing number of blows against depth



Plot showing CBR (%) against depth



Layer properties

Layer No.	Mod. CBR (%)	Thickness (mm)	Start depth (mmBGL)	Base depth (mmBGL)
1	**9.0**	150	100	250
2	**8.8**	300	300	600
3	**2.4**	300	600	900

Notes

1. Test procedure following Highways England Document CS229 Data for Pavement Assessment.

Calculations

Log10 (Uncorrected (UC) CBR) = 2.48 - 1.057Log10(mm/blow)

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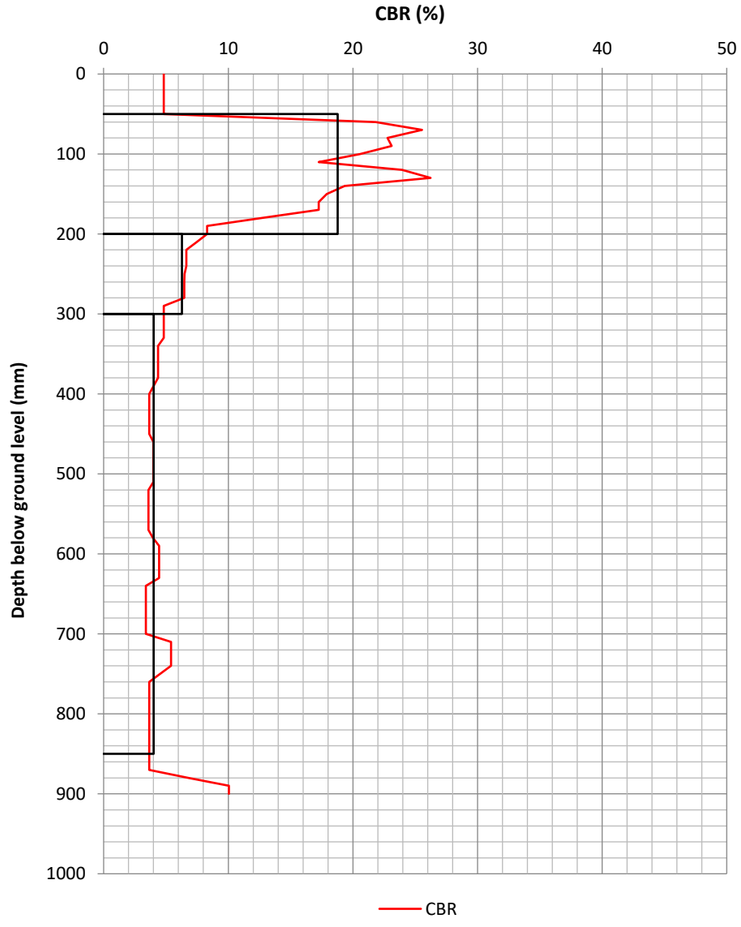
Dynamic Cone Penetrometer (DCP) test

Location	Date of test	Start depth (mm)	Zero reading (mm)	Operator
DCP03	15/04/2021	0	60	JP

Plot showing number of blows against depth



Plot showing CBR (%) against depth



Layer properties

Layer No.	Mod. CBR (%)	Thickness (mm)	Start depth (mmBGL)	Base depth (mmBGL)
1	**18.8**	150	50	200
2	**6.3**	100	200	300
3	**4.0**	550	300	850

Notes

1. Test procedure following Highways England Document CS229 Data for Pavement Assessment.

Calculations

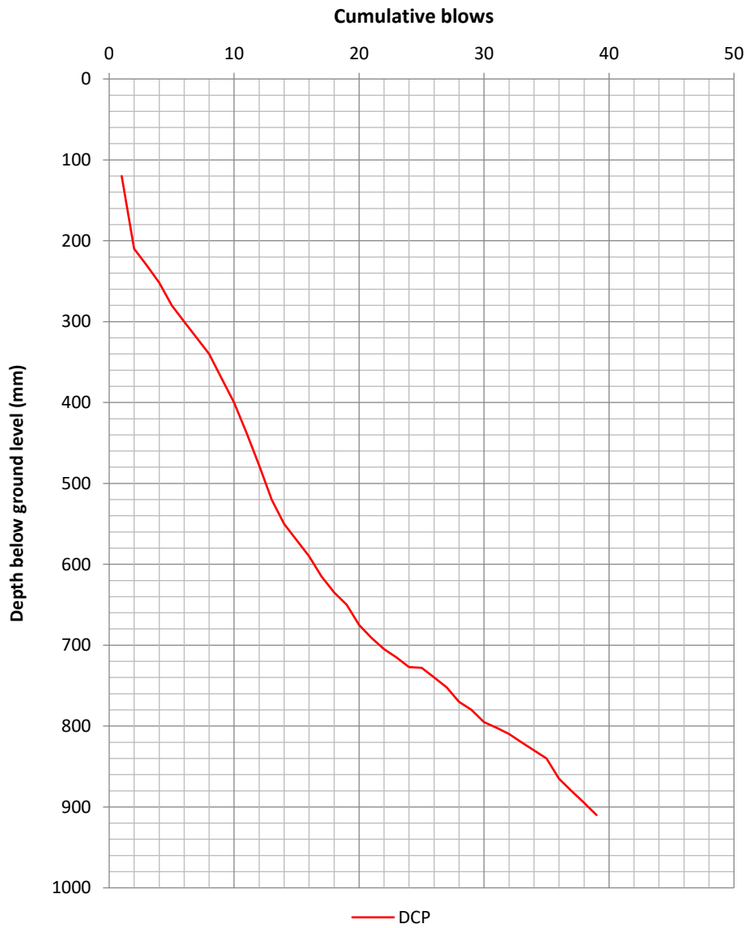
Log10 (Uncorrected (UC) CBR) = 2.48 - 1.057Log10(mm/blow)

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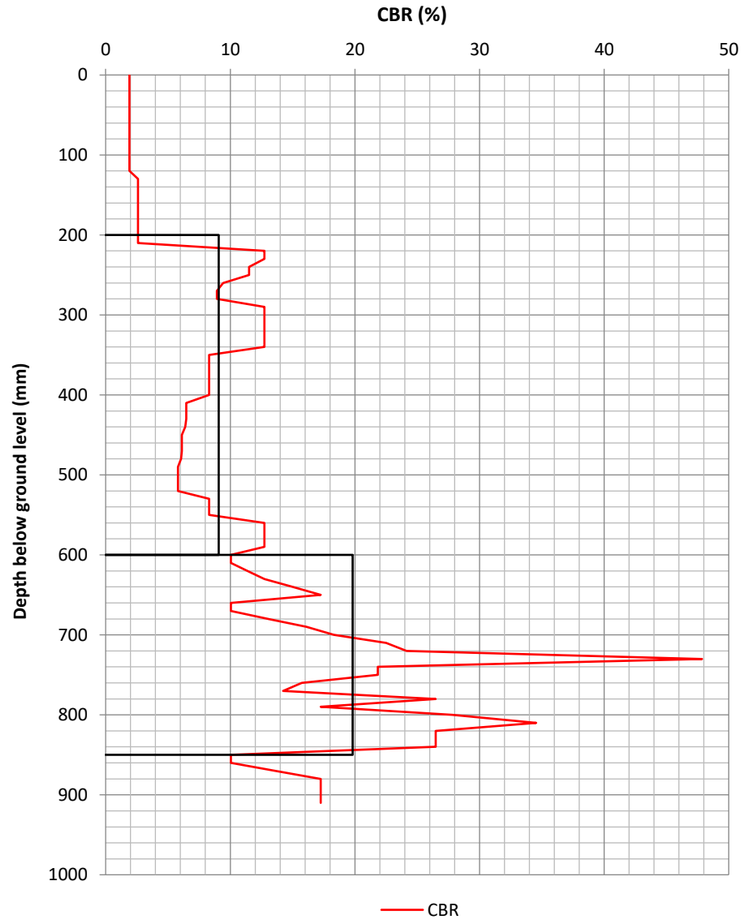
Dynamic Cone Penetrometer (DCP) test

Location	Date of test	Start depth (mm)	Zero reading (mm)	Operator
DCP04	15/04/2021	0	30	JP

Plot showing number of blows against depth



Plot showing CBR (%) against depth



Layer properties

Layer No.	Mod. CBR (%)	Thickness (mm)	Start depth (mmBGL)	Base depth (mmBGL)
1	**9.1**	400	200	600
2	**19.8**	250	600	850

Notes

1. Test procedure following Highways England Document CS229 Data for Pavement Assessment.

Calculations

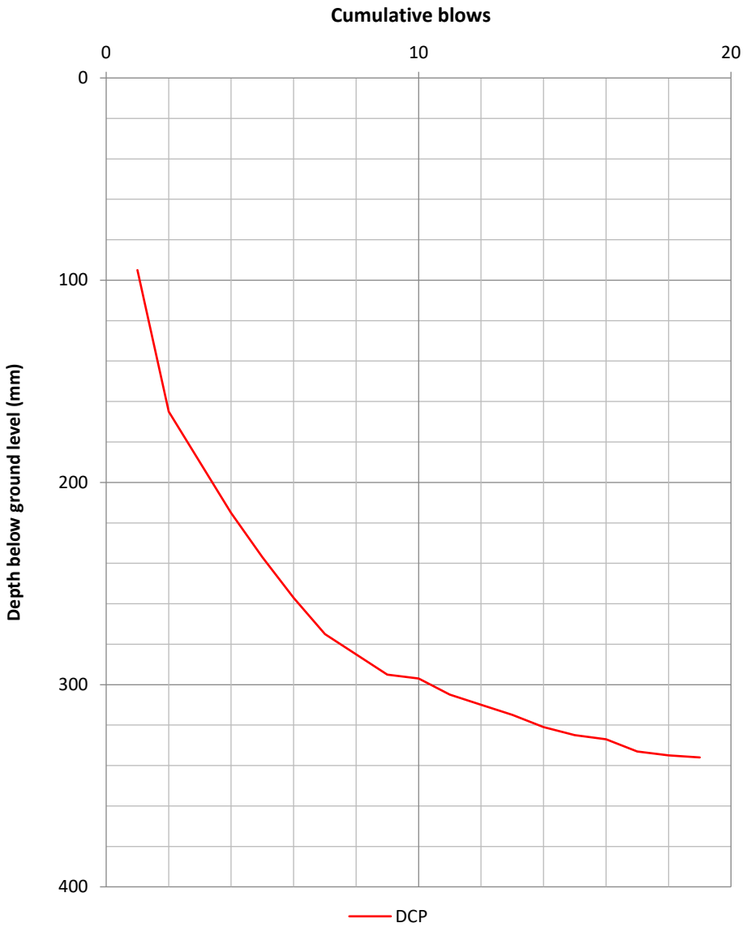
Log10 (Uncorrected (UC) CBR) = 2.48 - 1.057Log10(mm/blow)

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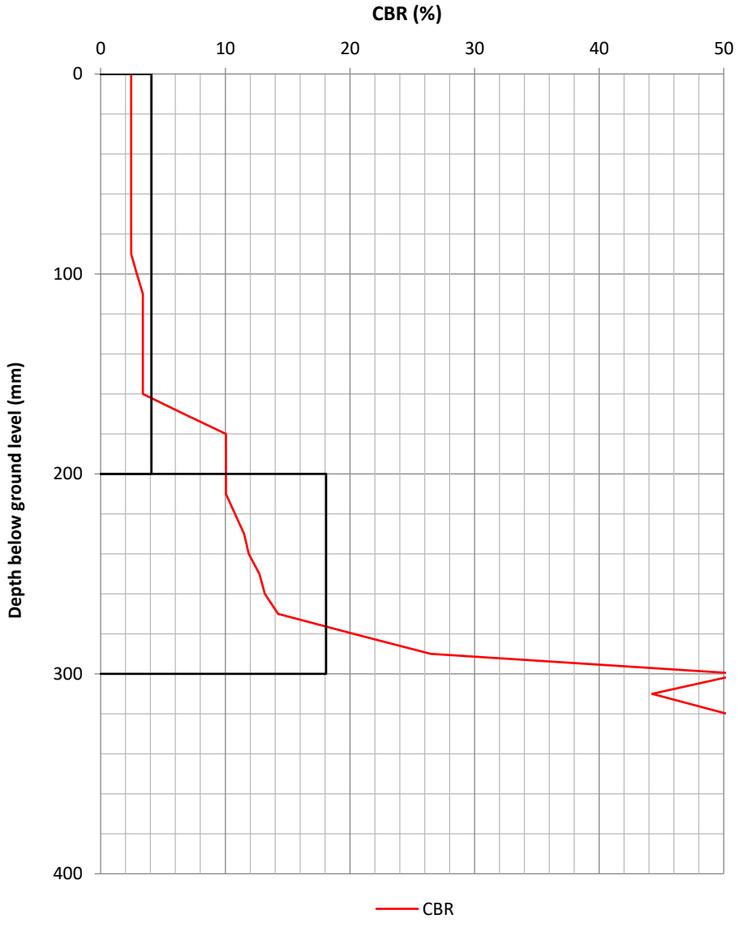
Dynamic Cone Penetrometer (DCP) test

Location	Date of test	Start depth (mm)	Zero reading (mm)	Operator
DCP05	15/04/2021	0	35	JP

Plot showing number of blows against depth



Plot showing CBR (%) against depth



Layer properties

Layer No.	Mod. CBR (%)	Thickness (mm)	Start depth (mmBGL)	Base depth (mmBGL)
1	**4.1**	200	0	200
2	**18.1**	100	200	300

Notes

1. Test procedure following Highways England Document CS229 Data for Pavement Assessment.

Calculations

Log10 (Uncorrected (UC) CBR) = 2.48 - 1.057Log10(mm/blow)

Appendix F Geotechnical Laboratory Test Certificates

Lauren Wenham
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Watford,
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e: reception@i2analytical.com

Analytical Report Number : 21-70022

Project / Site name:	Redbank Playing Fields, Manchester	**Samples received on:**	21/04/2021
Your job number:	STT5261	**Samples instructed on/ Analysis started on:**	21/04/2021
Your order number:	STTS261-202104201347-I2	**Analysis completed by:**	29/04/2021
Report Issue Number:	1	**Report issued on:**	30/04/2021
Samples Analysed:	2 soil samples		

Signed:

Rachel Bradley
Deputy Quality Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 21-70022
Project / Site name: Redbank Playing Fields, Manchester
Your Order No: STTS261-202104201347-I2

Lab Sample Number				1844457	1844458
Sample Reference				BH02	BH04
Sample Number				BH022.601	BH041.001
Depth (m)				2.60	1.00-2.00
Date Sampled				15/04/2021	16/04/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	19	24
Total mass of sample received	kg	0.001	NONE	1.5	0.70

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.4	7.0
Total Sulphate as SO4	%	0.005	MCERTS	0.025	0.230
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.020	0.070
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	19.7	69.9
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	6.9	4.5
Total Sulphur	%	0.005	MCERTS	0.019	0.198
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	< 2.0	< 2.0

Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	< 5.0	14
Magnesium (leachate equivalent)	mg/l	2.5	NONE	< 2.5	6.8

U/S = Unsuitable Sample I/S = Insufficient Sample

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* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1844457	BH02	BH022.601	2.6	Brown clay and loam with gravel and vegetation.
1844458	BH04	BH041.001	1.00-2.00	Brown loam and sand with gravel and glass.

Analytical Report Number : 21-70022
Project / Site name: Redbank Playing Fields, Manchester

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES.	In-house method based on TRL 447	L038-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	W	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In house method.	L082-PL	D	MCERTS
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.