

Coal Authority Risk Assessment

For a site known as

The Stand Golf Club, Bury

Undertaken for

Westshield Ltd

Report Title:	The Stand Golf Club, Bury Coal Authority Risk Assessment
Report Reference:	11745G-WML-XX-ZZ-RP-G-0002
Client:	Westshield Ltd
Issue Date:	8th November 2024
Drafted By:	S C Seddon <i>S. Seddon</i>
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Revision Status / History

Rev	Date	Issue / Purpose/ Comment	Prepared	Checked	Authorised
-	08/11/2024	Initial issue	SCS	TPB	SCS

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- Appendix 03 - Coal Authority Report

1.0 INTRODUCTION

Appointment

- 1.1 WML Consulting Ltd has been commissioned by Westshield Ltd to prepare a Coal Mining Risk Assessment Report for development of two sites within The Stand Golf Club, Bury.
- 1.2 The report is prepared in order to provide the local Planning Authority with information on coal mining and an assessment of its impact on land stability.
- 1.3 The report has been written in general accordance with the Coal Mining Risk Assessment Model Report Template, 2017.

Proposed Development

- 1.4 At this stage development plans have not been made available however it is understood that that the project comprises the development of the existing club house and small section of golf course (Site A in the north-east) for residential housing, with private gardens and hardstanding for access and parking.
- 1.5 A new clubhouse, with car park will be constructed in the south-west, within the Site B area, as outlined on the red-line drawing in Appendix 01.
- 1.6 The red line boundary that connects Site A and Site B within the Coal Authority report and Groundsure plans is outside the development area. Refer to boundaries on drawing referenced 23036-PJA-00-ZZ-DR-A-1000 in Appendix 01.

Site Location

- 1.7 The site comprises two distinct areas within the Eastham Lodge Golf Course site:

Site A (proposed new residential housing) bounded by:-

- North – Polyflor – industrial development.
- East – Residential housing.
- South & West – Golf Club greens.

Site B (proposed new club house) bounded by:-

- North & East– Golf Club greens.
- South – Residential housing.
- West – Ringley Road and undeveloped land beyond.

Site Description

- 1.8 The two areas comprise approximately 6 hectares and are split as outlined below.

Site A

- 1.9 The site is located at the north-eastern edge of the Golf Club and comprises an existing low rise golf clubhouse, of presumed brick construction. This is edged to the north-east and south with asphalt which provides access and parking off Ashbourne Grove.
- 1.10 The north-eastern boundaries of the site are demarcated by a short slope down to the adjacent West View Grove and its junction with Ashbourne Grove. The slope is surfaced with concrete paving slabs.

- 1.11 A small electricity sub-station is located at / close to the boundary with the adjacent residential housing off Ashbourne Grove.
- 1.12 The remaining sections of Site A are generally formed by the golf greens and sand bunkers. However, the extreme northern section also includes areas of dense vegetation including mature trees of varying species.

Site B

- 1.13 This section of the site appears generally disused and is surfaced with rough grass and low-lying vegetation.
- 1.14 However, a hedgerow with mature deciduous trees of varying species are located along the north-western, western and southern boundaries of the site.
- 1.15 A telecommunications mast is located on the south-western site boundary and a public footpath runs along the eastern site boundary.

Topography

- 1.16 At the time of reporting no topographic survey information was available for review. However, aerial imagery indicates Site A to be at around 115m Above Ordnance Datum (AOD) in the area of the club house falling eastwards to between 111m and 113m AOD across the undulating greens and bunkers.
- 1.17 Site B also appears to generally slop to the north, undulating between 123m and 125m AOD.

Scope of Coal Mining Risk Assessment

- 1.18 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 application site.
 - Use that 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, if required, 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 to the Local Planning Authority that the application site is, or can be made, safe and stable to meet the requirements of national planning policy with regard to development on unstable land (Planning Policy Guidance Note 14).

2.0 SOURCES OF INFORMATION

2.1 In completing this assessment, information has been taken from the WML Consulting Phase 1 Desk Study referenced 11791G-WML-XX-ZZ-RP-G-0001, dated August 2024.

- British Geological Survey (BGS) 1:50,000 scale, Sheet 85 'Manchester' (Solid & Drift edition).
- BGS Digital Geological Map of Great Britain (DiGMapGB-50; available as a web map service).
- site specific GroundSure Environmental Insight Report.
- Historical Ordnance Survey maps as provided by GroundSure (Appendix 02).
- Coal Authority Consultants Report (Appendix 03).
- Coal Authority interactive map viewer (available as a Web Map Service).
- The site and surrounding area's geological and environmental setting from data presented in the Summary of Information.

Category	Summary															
Site History and Previous Land Usage	<u>Site A</u> The earliest map dated 1848 indicates the site to comprise undeveloped rural land with a residential structure in the south-eastern section, referred to as The Dales. The Golf Course was developed around 1907 but by 1938 the subject site had been developed roughly into its current configuration which included the repurposing of the club house building.															
	<u>Site B</u> The earliest map dated 1848 indicates the site to comprise undeveloped rural land, with several field boundaries and a small pond in the eastern section. By 1988, the pond ad been infilled, but the site appears to have remained undeveloped to the present time.															
Geology	The majority of the two sites are underlain by Devensian Glaciofluvial Deposits, which mainly comprise sand and gravel. However, the south-western section of Site B is inferred to be underlain by Glacial Till, which generally comprises clay with subordinate horizons of sand and gravel.															
	The superficial deposits in both Site A and Site B are underlain by the Chester Formation, comprising a pebbly sandstone. However, the section of golf course between Site A and Site B is underlain by the Westphalian Pennine Middle Coal Measures which generally comprise mudstone, siltstone and sandstone with subordinate coal seams including the Worsley 4ft mine which is indicated to sub-outcrop approximately 300m south-west of Site A and 300m north of Site B. These are inferred to dip at varying angles, due to faulting, but generally to the south-south-west and would underlie the Site B area beneath the Chester Formation.															
Coal Authority Report	The Coal Authority report indicates that the property is within an area where coal seams have been recorded as being worked beneath the site namely:-															
	<table><tr><th>Depth (mbgl)</th><th>Name</th><th>Dip (degrees)/ Direction</th><th>Extraction Thickness (cms)</th><th>Last Mined</th></tr><tr><td>288</td><td>Roger</td><td>30.5/S</td><td>120</td><td>1971</td></tr><tr><td>392</td><td>Rams</td><td>10/SE</td><td>180</td><td>1870</td></tr></table>	Depth (mbgl)	Name	Dip (degrees)/ Direction	Extraction Thickness (cms)	Last Mined	288	Roger	30.5/S	120	1971	392	Rams	10/SE	180	1870
	Depth (mbgl)	Name	Dip (degrees)/ Direction	Extraction Thickness (cms)	Last Mined											
	288	Roger	30.5/S	120	1971											
392	Rams	10/SE	180	1870												
In consideration of the depth to the workings in the Roger and Rams seams risks of surface subsidence are very low and can be discounted.																

Category	Summary
	The BGS plans also notes that the Worsley 4ft Mine seam sub crops 300m north-west of Site B and could underlie the site. However, this is considered to be at significant depths due to the overlying Chester Formation beneath the superficial deposits across Site A and Site B. The report also notes a risk from probable unrecorded shallow workings. However, as noted this is associated with the area between the sites which is to remain unchanged as a Golfing Green with the development areas of Site A and Site B so risks of unknown workings occurring at shallow depths beneath Site A and Site B development areas are also considered very low. No notice of the risk of the land being affected by subsidence has been given under the Coal Mining Subsidence Act 1991 and the Authority has not received a damage notice or claim for the subject property, or other property within 50m, since records began in 1994. The CA does not identify any spine roadways present at shallow depth within the site boundary. There are no known mine entries within 100m of the site. The CA has not recorded any mine gas within 500m of the property. Therefore, risks are considered very low and can be discounted in terms of the proposed redevelopment.

Summary

- 2.2 The Roger and Rams coal seams are known to have been worked at a depth of 120m and 180mbgl respectively beneath the area so are not considered to pose a risk of surface subsidence due to their depths.
- 2.3 Risks from probable unrecorded workings at shallow enough depths to result in surface subsidence beneath the development area of Site A and Site B are considered very low due to the overlying Chester Formation.
- 2.4 The red-line boundary between Site A and Site B is to remain undeveloped and represents a connection line between the site areas for Coal Authority and Groundsure purchasing reasons.

3.0 IDENTIFICATION AND ASSESSMENT OF COAL MINING RISKS

Introduction

- 3.1 An identification and assessment of the site's coal mining risks has been undertaken from existing desk-based information.
- 3.2 If an issue associated with the coal mining legacy is identified, a preliminary risk assessment is carried out to assess each possible feature, to determine whether these pose potentially unacceptable risks to the future development of the site, and, if further assessment is required.
- 3.3 The decision on whether a feature related to coal mining poses a potentially unacceptable risk is based upon professional judgement. The significance of a feature associated with the coal mining legacy will also be determined dependant on the context of the proposed land use of the site.
- 3.4 Assessing risks from coal mining is based upon guidance provided by the Coal Authority following a 'risk-based' approach implemented through PPG 14.

Potential Coal Mining Legacy Issues

- 3.5 The table below summarises the potential risks associated with coal mining legacy at the site, identified from the sources listed above.

Coal Mining Issue	Yes	No	Risk Assessment
Underground coal mining (recorded at shallow depths)		✓	Not Required
Underground coal mining (probable at shallow depths)		✓	Not Required
Mine entries (shafts and adits)		✓	Not Required
Coal mining geology (fissures)		✓	Not Required
Record of past / potential mine gas emissions		✓	Not Required
Recorded coal mining surface hazard		✓	Not Required
Surface mining (open cast)		✓	Not Required

4.0 RISK ASSESSMENT MITIGATION AND STRATEGY

- 4.1 Based on the information obtained from this assessment, a risk assessment has been formulated, which identifies plausible risks to the site in the context of the proposed end-use. These are detailed in the following tables.

Identified Risks

Source	Risk	Assessment of Risk
Underground coal mining (recorded at shallow depths)	Very Low	The Roger and Rams coal seams worked at 120m and 180mbgl, Respectively, are not considered to pose a risk of surface subsidence due to their depths.
Underground coal mining (probable at shallow depths)	Very Low	No hazards to the Site have been identified beneath Site A or Site B due to the overlying Chester Formation
Mine entries (shafts and adits)	Very Low	No hazards to the Site have been identified.
Coal mining geology (fissures)	Very Low	No hazards to the Site have been identified.
Record of past mine gas emissions or potential	Very Low	No hazards to the Site have been identified.
Recorded coal mining surface hazard	Very Low	No hazards to the Site have been identified.
Surface mining (open cast)	Very Low	No hazards to the Site have been identified.

Risk Definitions

Rank	Definition in Context
Very Low	No hazards to the Site have been identified, as such, no further investigation or mitigation is considered necessary under this scenario.
Low	No confirmed hazard, but cannot be ruled out with absolute certainty, investigation for hazards as a consequence of coal mining may be considered prudent.
Medium	Suspected hazard; targeted investigation recommended; mitigation measures may be required dependant on findings of the investigations.
High	Known hazard; specific investigation required and mitigation measures will be required of either, or both, shallow workings and mine entries.
Very High	Numerous or substantial known hazards; development potentially unsuitable/uneconomic due to levels of both investigation and mitigation required.

Mitigation Strategy Proposed

Source	Mitigation Strategy
Underground coal mining (Recorded at shallow depths)	No Mitigation Strategy anticipated
Underground coal mining (Probable at shallow depths)	No Mitigation Strategy anticipated
Mine entries (shafts and adits)	No Mitigation Strategy anticipated
Coal mining geology (fissures)	No Mitigation Strategy anticipated
Record of past mine gas emissions or potential	No Mitigation Strategy anticipated
Recorded coal mining surface hazard	No Mitigation Strategy anticipated
Surface mining (open cast)	No Mitigation Strategy anticipated

5.0 CONCLUSIONS

- 5.1 This report has been written in general accordance with the Coal Mining Risk Assessment Model Report Template, 2017, and intends to demonstrate to the Local Planning Authority that the site is, or can be, made safe and stable to meet the requirements of the National Planning Policy Guidance Note 14 (PPG14) "Development on Unstable Land" DoE 1990.

Summary of Risks

- 5.2 The Roger and Rams coal seams are known to have been worked at depths of 120m and 180mbgl respectively beneath the wider site, so are not considered to pose a risk of surface subsidence due to their depths.
- 5.3 Risks from probable unrecorded workings at shallow enough depths to result in surface subsidence beneath the development area of Site A and Site B are considered very low due to the overlying Chester Formation.
- 5.4 No mine entries were recorded within 100m of the site.
- 5.5 The red-line boundary between Site A and Site B is to remain undeveloped and represents a connection line between the site areas for Coal Authority and Groundsure purchasing reasons.

Summary of Remedial Measures

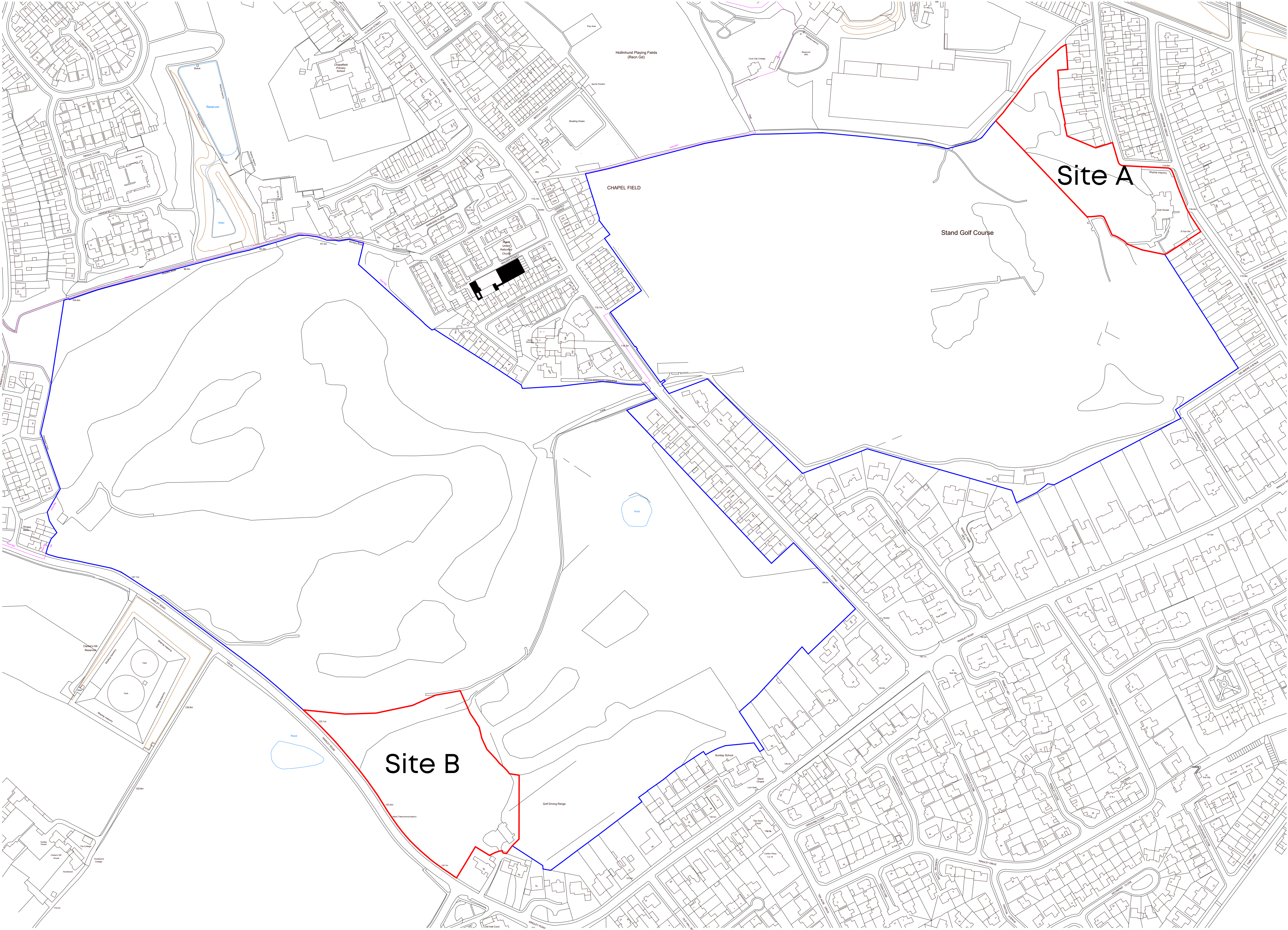
- 5.6 None required.

Compliance with PPG14 "Development on Unstable Land"

- 5.7 In accordance with the requirements this report has been written and overviewed by appropriately qualified people being Chartered Engineers, Members of the Institution of Structural Engineers or Fellows of the Geological Society.
- 5.8 In accordance with the requirements, we believe that the report suitably addresses the risks posed from the Coal Mining legacy to the site and concludes that no mitigation measures are required with regards to the shallow coal seams.

APPENDIX 01

Drawings



Overall Site	
Name	Area
Site A- Residential	15,964 m²
Site B- Club House	23,138 m²

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CLIENT:
Westshield

PROJECT:
The Stand Golf Club
Bury, M45 7NL

DRAWING NUMBER:
23036-PJA-00-ZZ-DR-A-1000

DRAWING TITLE:
Overall Site- LocationPlan

STATUS:
PRELIMINARY

SCALE: 1: 2000@A1 DATE: 06/18/24 BY: EG CHECKED: SH

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APPENDIX 02

Groundsure Historical Plans

Site Details:

STAND GOLF CLUB,
ASHBOURNE GROVE,
RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
Grid Ref: 379507, 405869

Map Name: County Series

Map date: 1848-1850

Scale: 1:10,560

Printed at: 1:10,560



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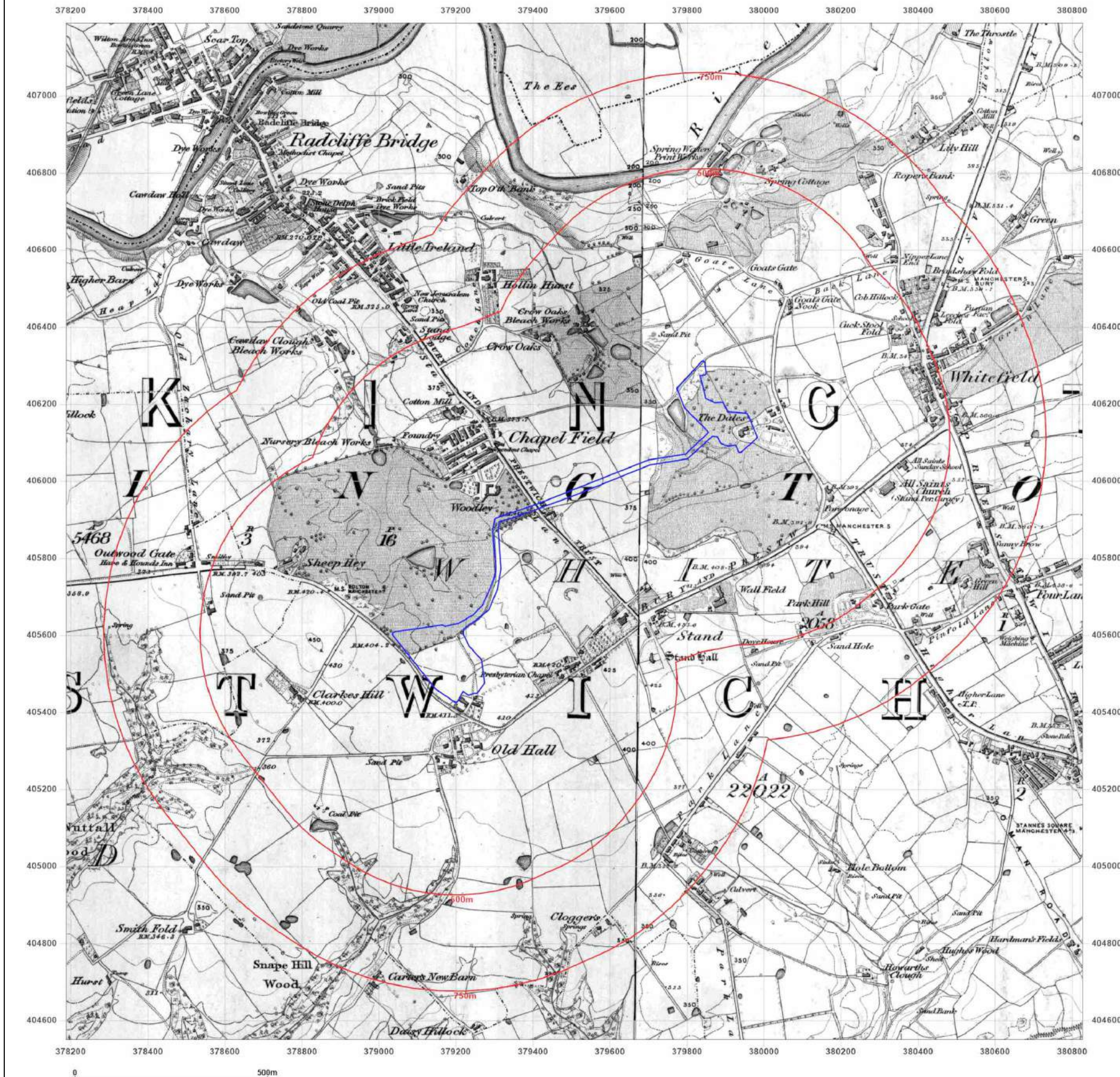


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Site Details:

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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
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Map Name: County Series

Map date: 1891

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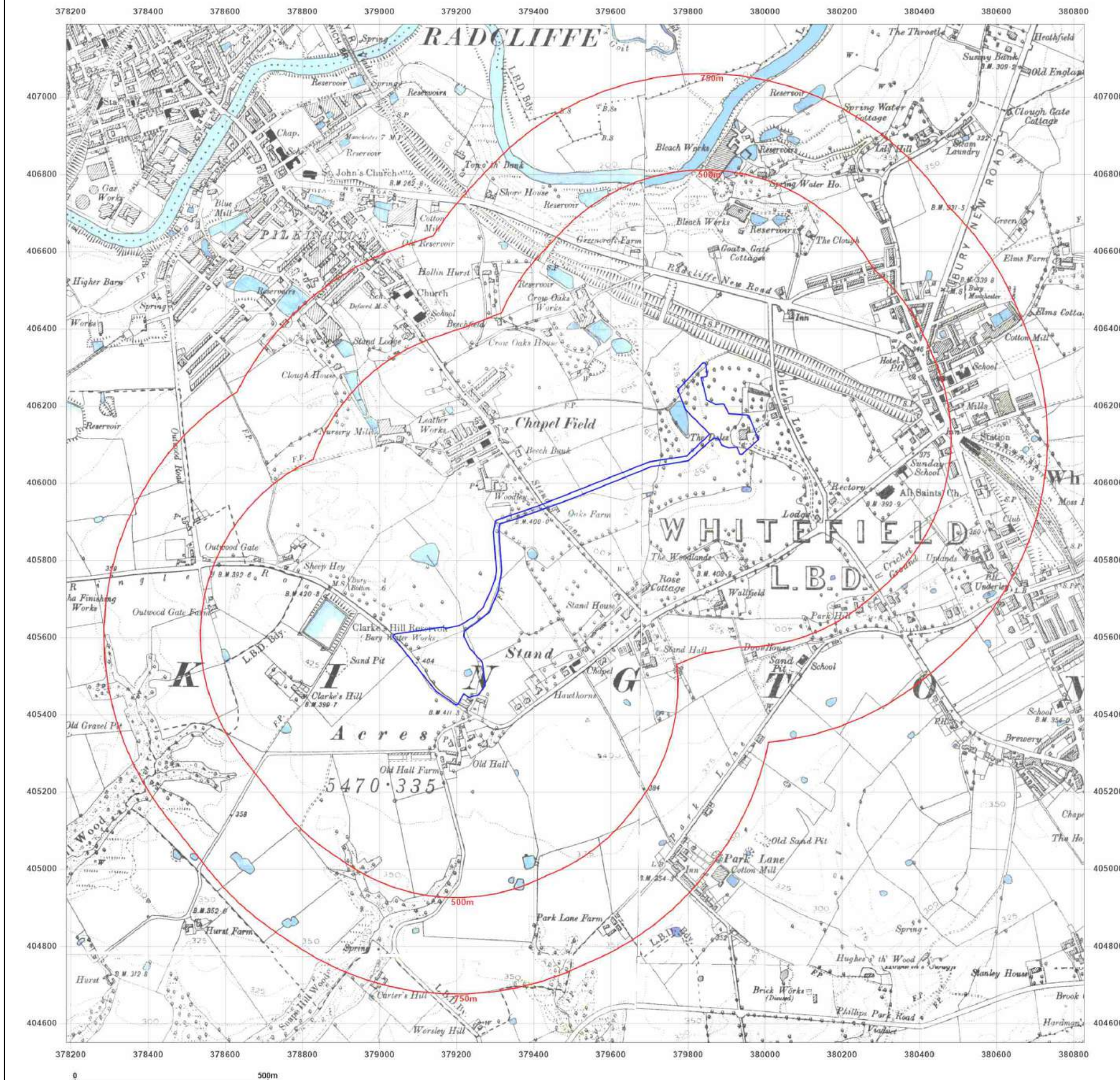


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Site Details:

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Map Name: County Series

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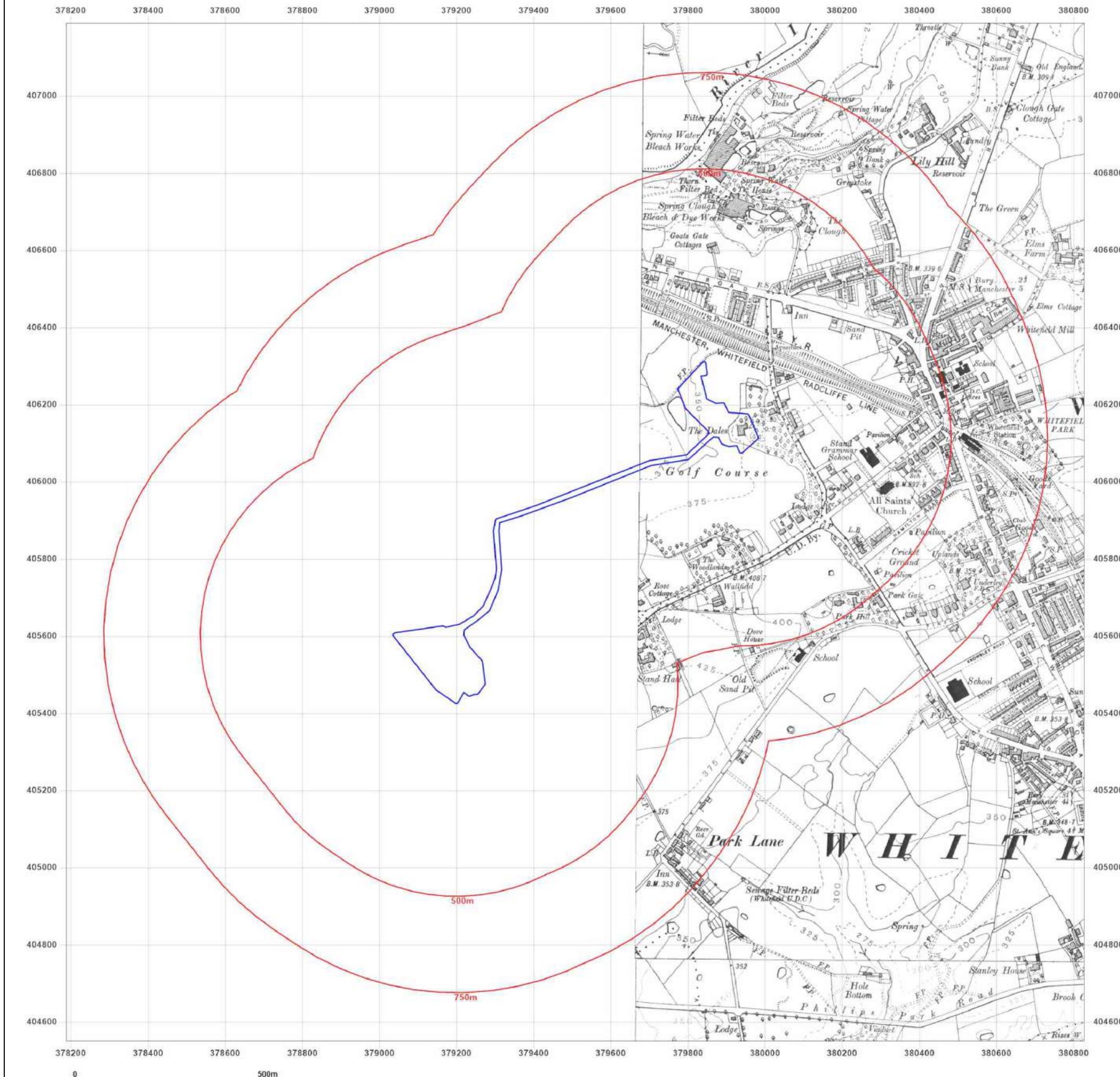


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Site Details:

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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
Grid Ref: 379507, 405869

Map Name: County Series

Map date: 1923-1927

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Client Ref: 11745G - The Stand
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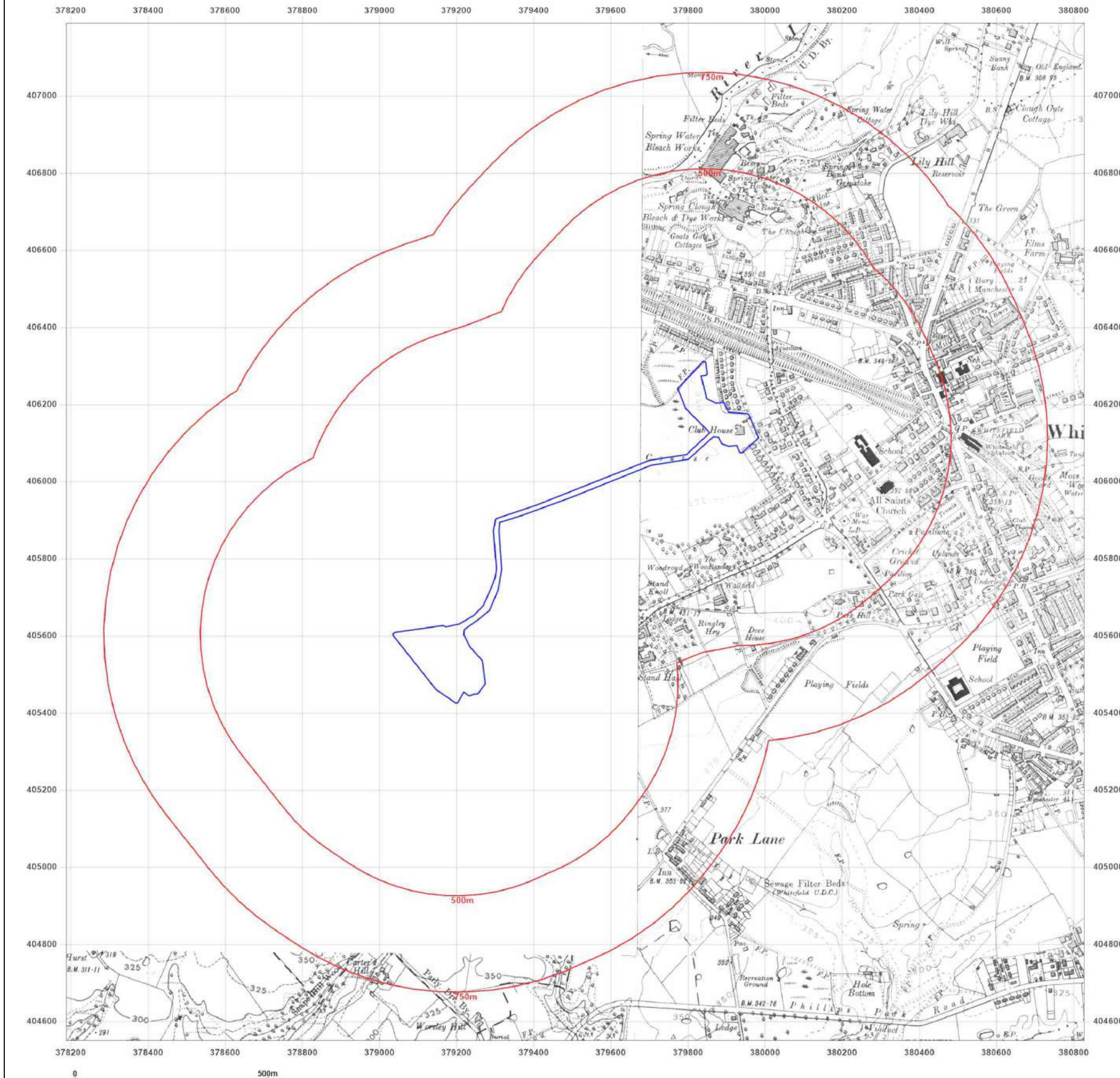


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Map Name: County Series

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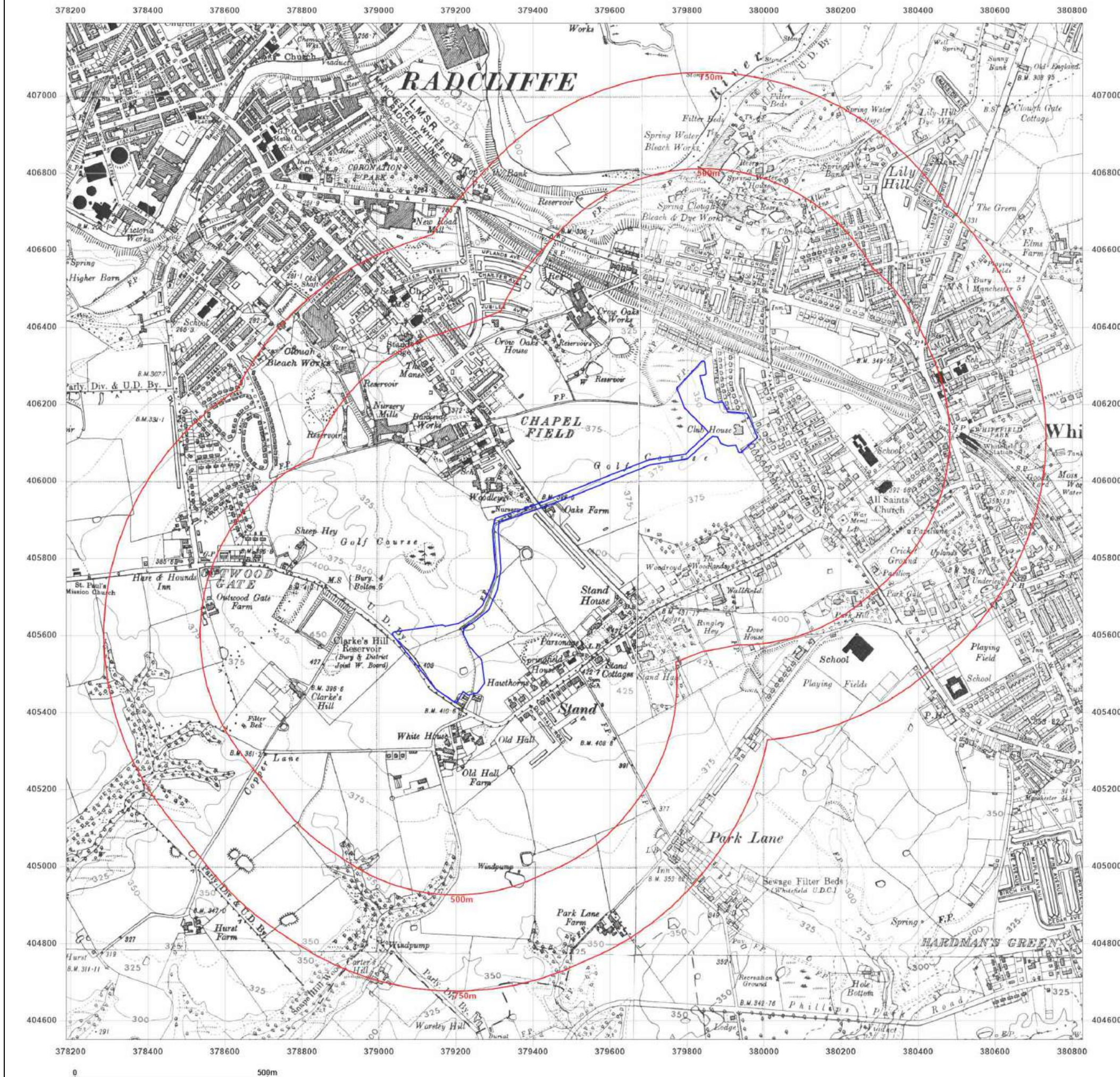


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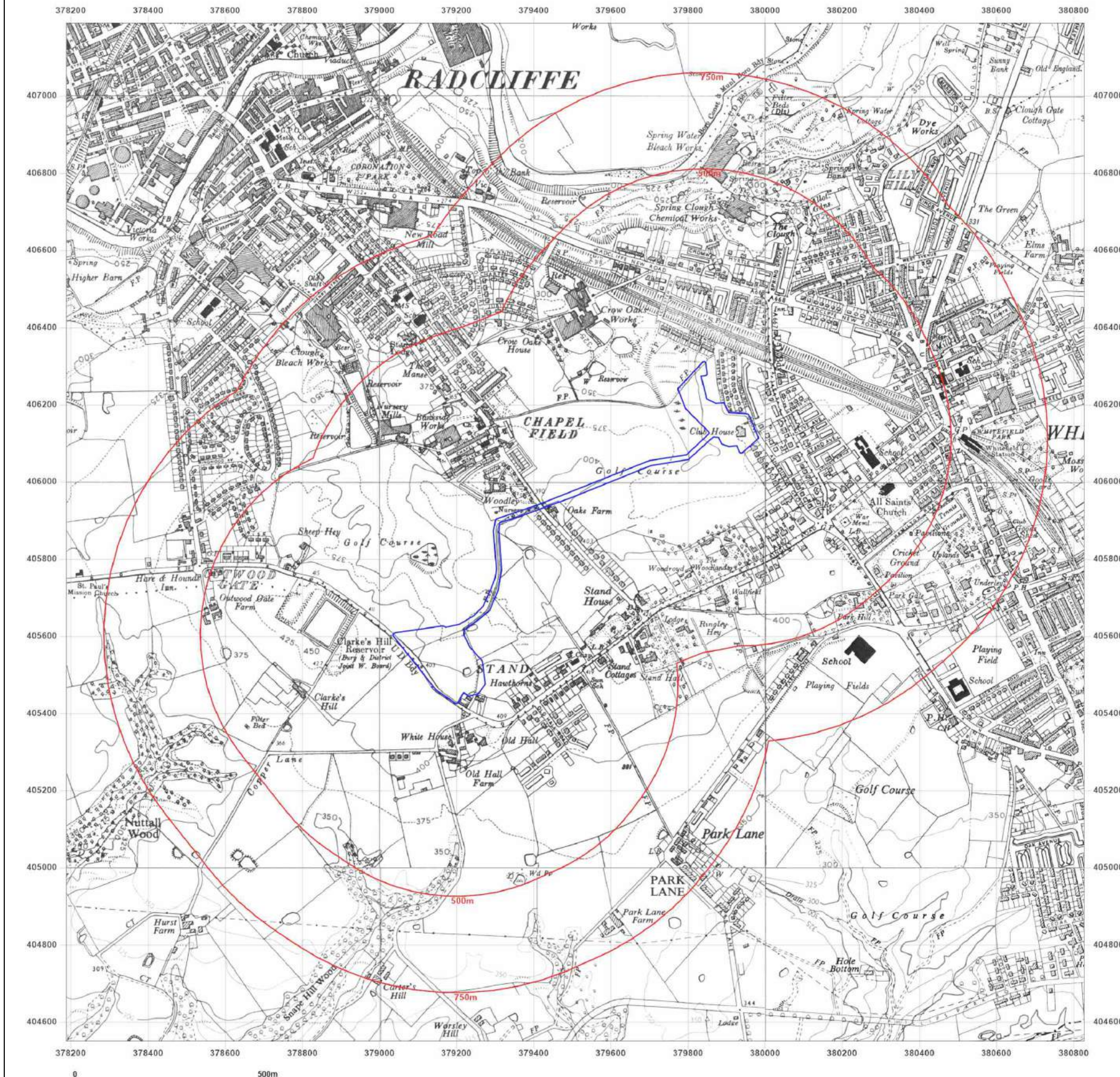


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Map date: 1965-1968

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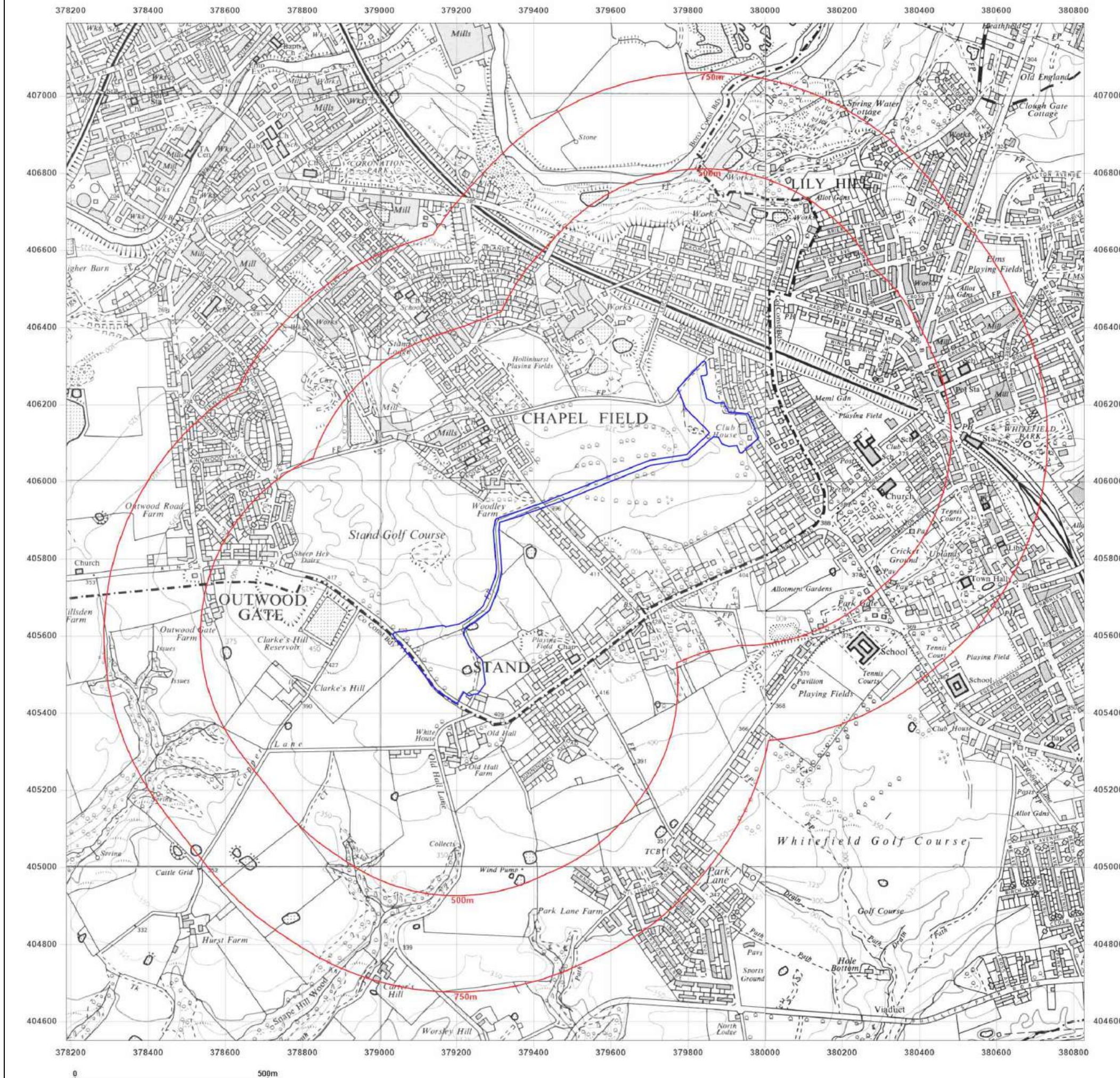


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Map Name: National Grid

Map date: 1973-1977

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Copyright N/A
Levelled N/A

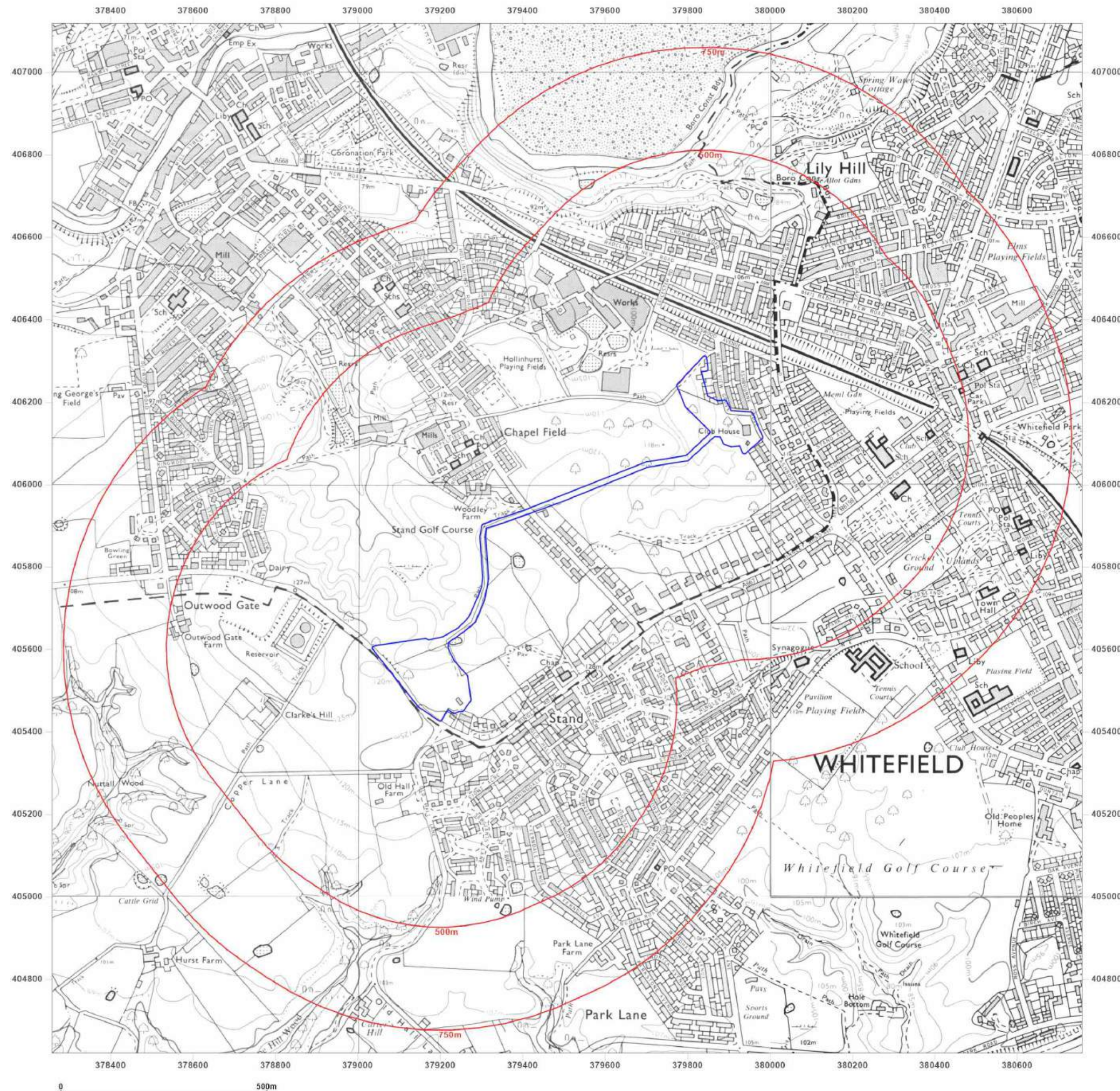


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Production date: 28 October 2024

Map legend available at:
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Site Details:

STAND GOLF CLUB,
ASHBOURNE GROVE,
RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
Grid Ref: 379507, 405869

Map Name: National Grid

Map date: 1981-1985

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1980
Revised 1981
Edition N/A
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Surveyed 1985
Revised 1985
Edition N/A
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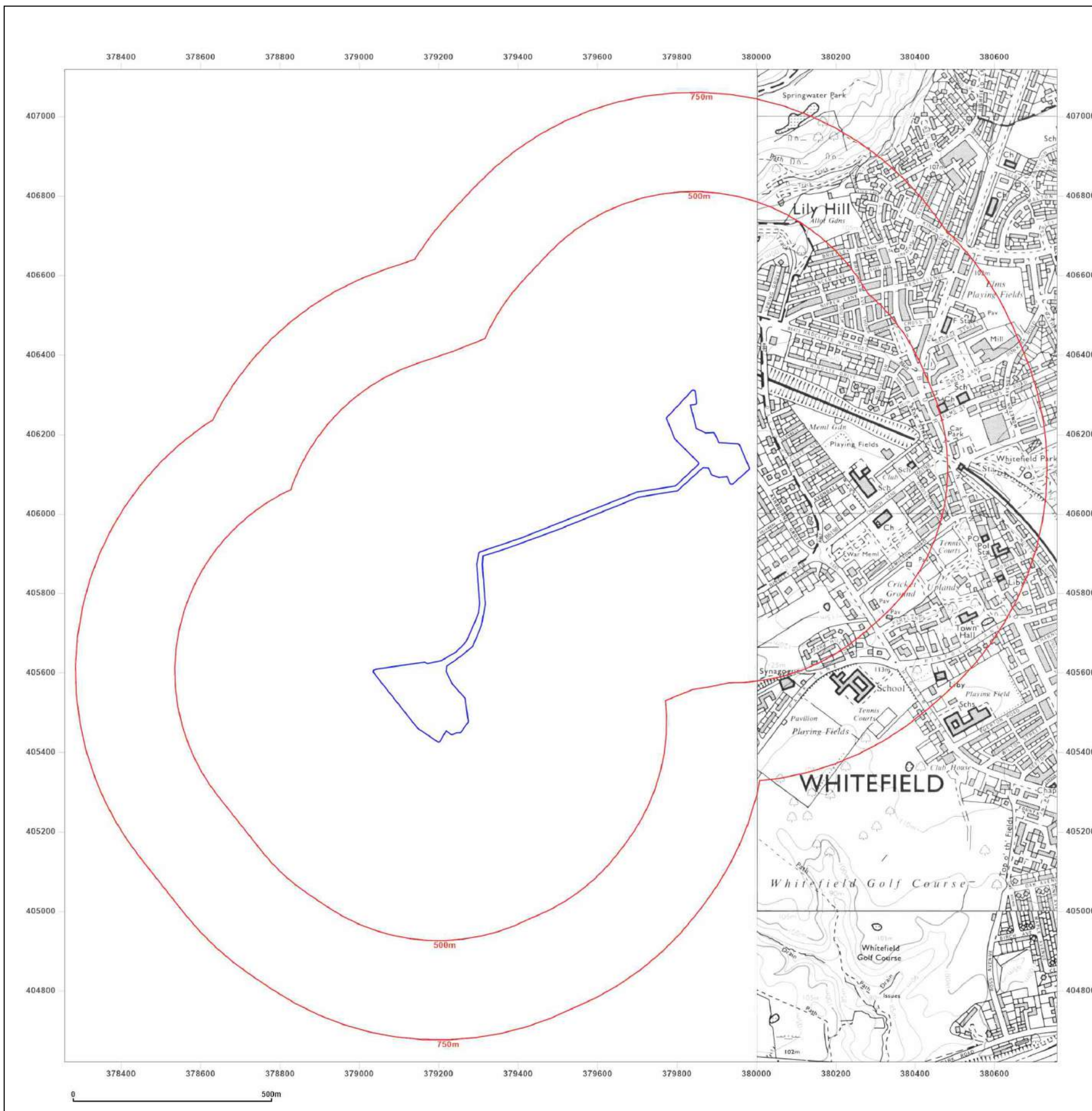


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Map Name: National Grid

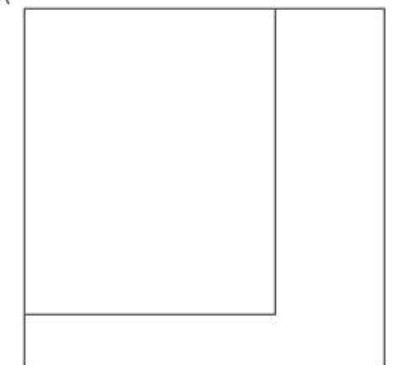
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Surveyed 1985
Revised 1988
Edition N/A
Copyright N/A
Levelled N/A

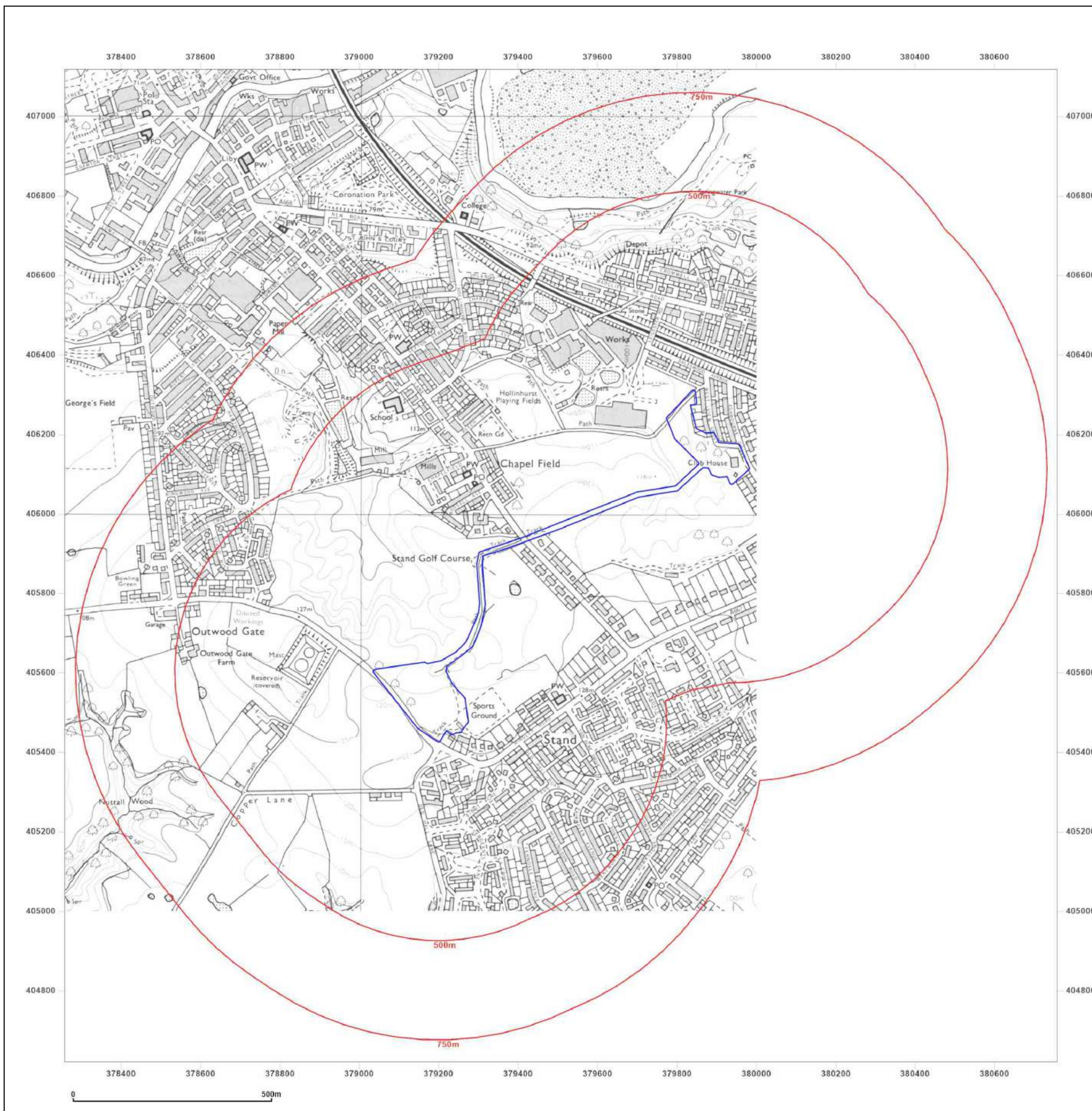


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
Grid Ref: 379507, 405869

Map Name: National Grid

Map date: 1988-1991

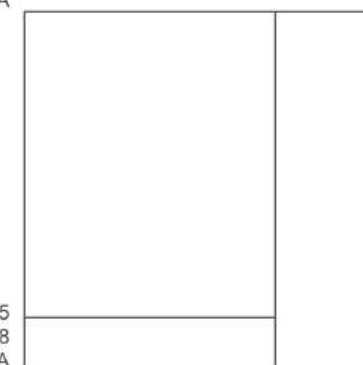
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Surveyed 1987
Revised 1991
Edition N/A
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Levelled N/A

Surveyed 1985
Revised 1988
Edition N/A
Copyright N/A
Levelled N/A



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Site Details:

STAND GOLF CLUB,
ASHBOURNE GROVE,
RADCLIFFE, BURY, M45 7NL

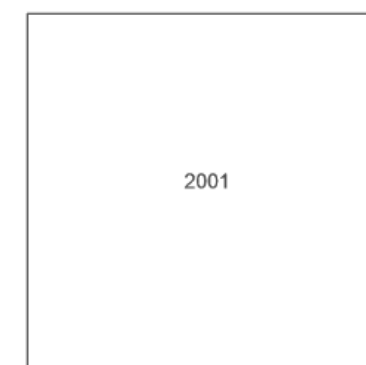
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Map Name: National Grid

Map date: 2001

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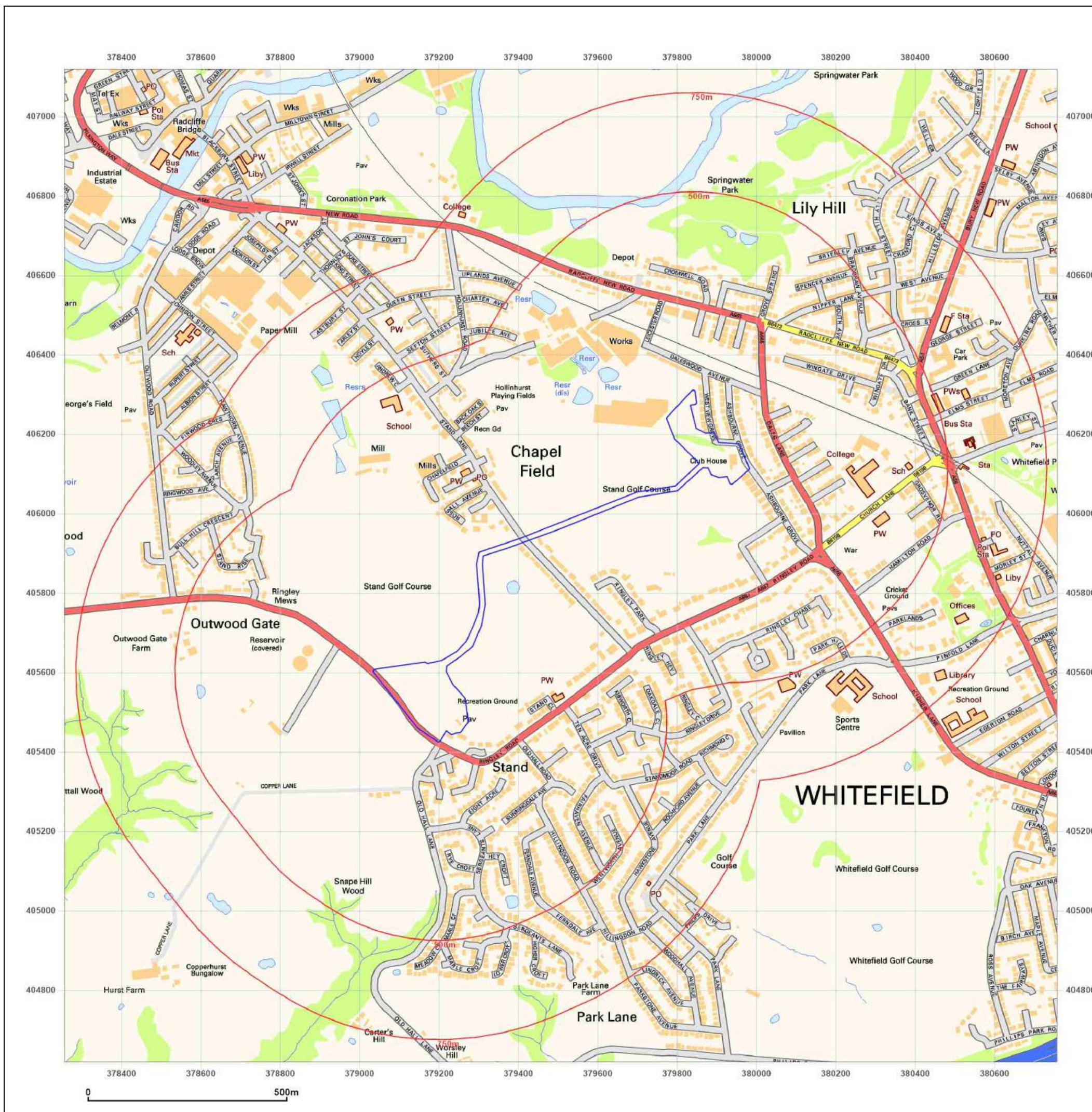


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Site Details:

STAND GOLF CLUB,
ASHBOURNE GROVE,
RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
Grid Ref: 379507, 405869

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



2010

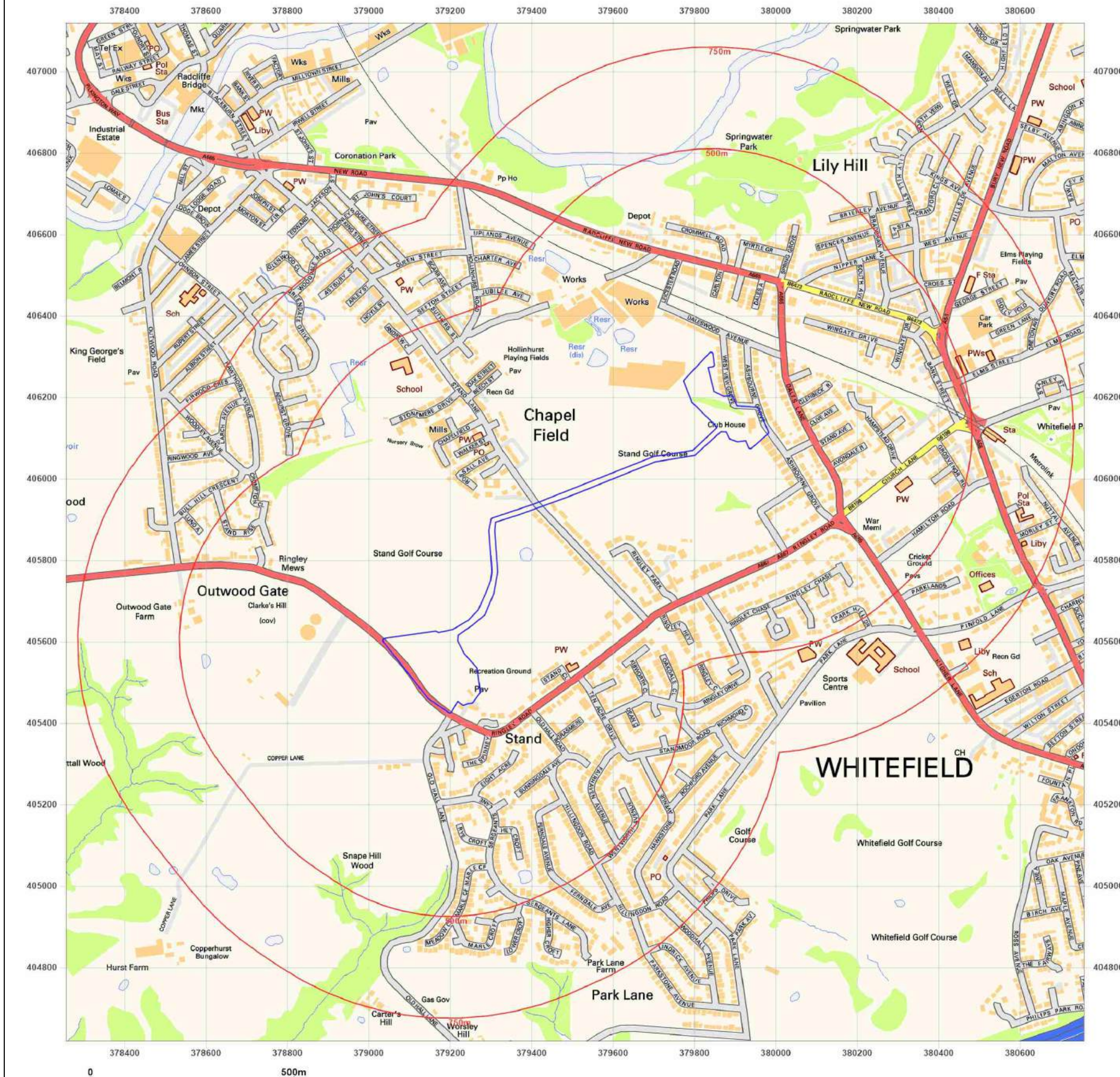


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
Grid Ref: 379507, 405869

Map Name: National Grid

Map date: 2024

Scale: 1:10,000

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2024

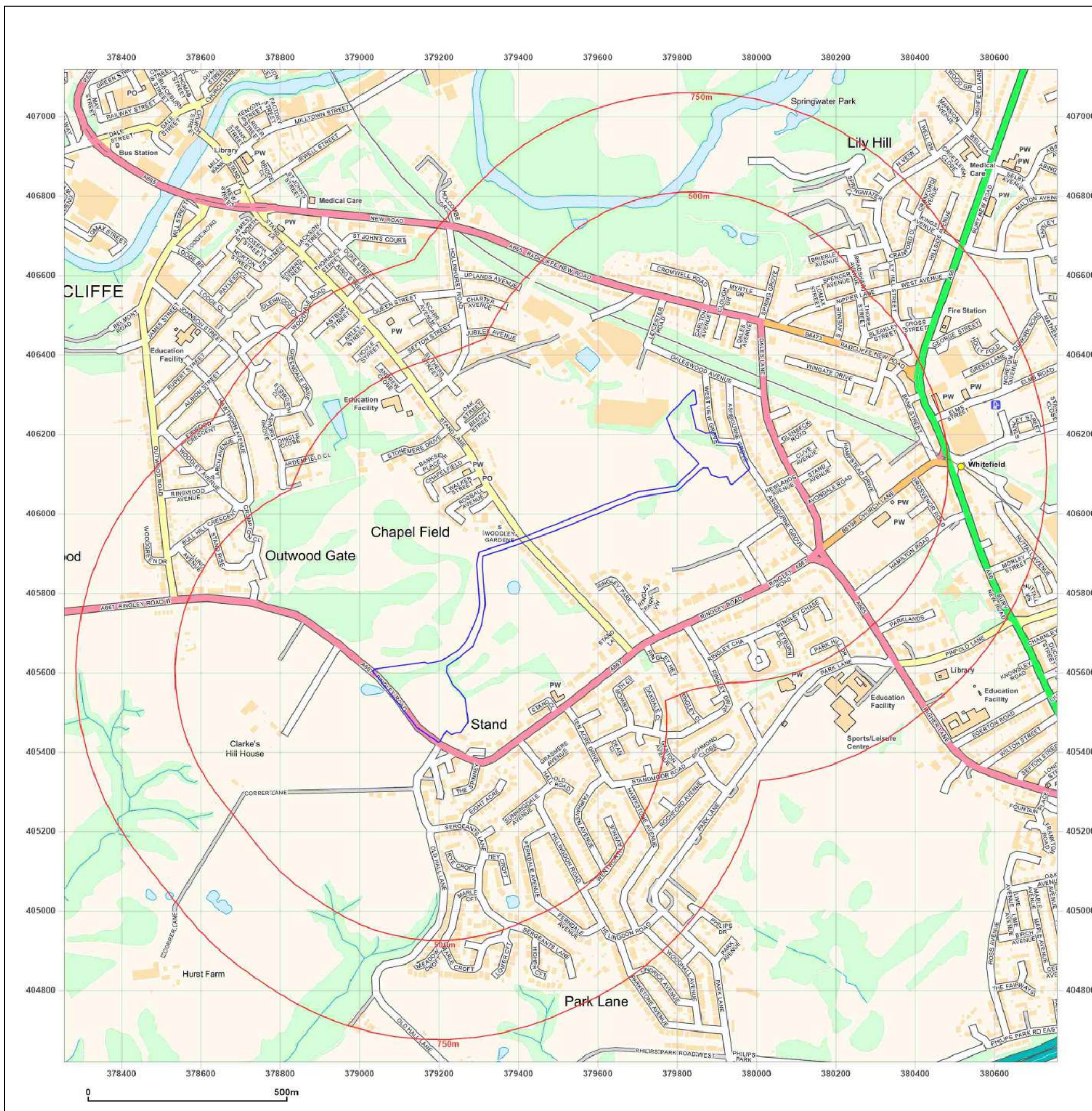


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APPENDIX 03
Coal Authority Report



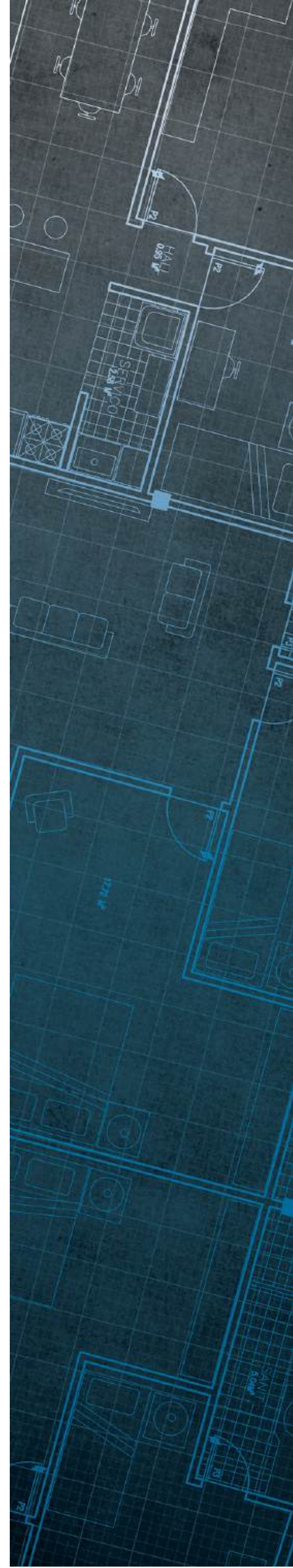
The Coal
Authority

Consultants Coal Mining Report

Stand Golf Club, Ashbourne Grove,
Radcliffe, Bury
Greater Manchester
M45 7NL

Date of enquiry:	28 October 2024
Date enquiry received:	28 October 2024
Issue date:	28 October 2024

Our reference:	51003459505001
Your reference:	HMD-424-PEZ-KUI-LI1-LPD



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

GROUNDSURE LIMITED

Enquiry address

Stand Golf Club, Ashbourne Grove, Radcliffe, Bury
Greater Manchester
M45 7NL

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

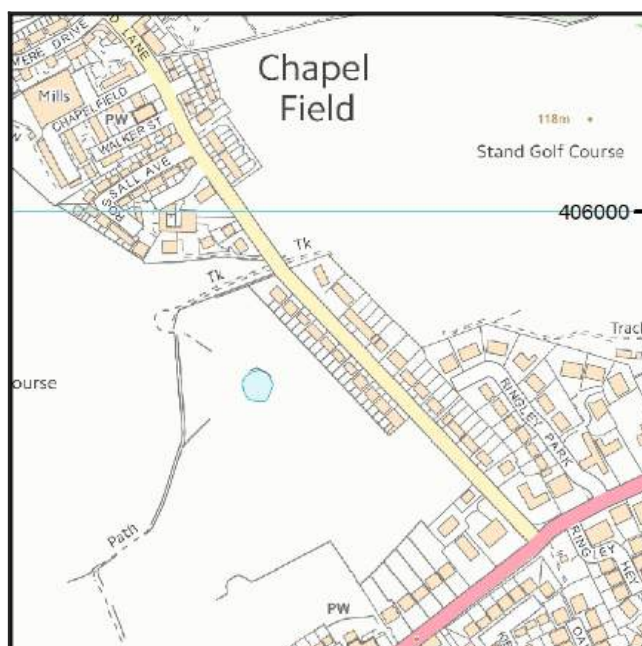
www.groundstability.com

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 /thecoalauthority



Approximate position of property



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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	3YPT	218	North-West	10.0	South-East	200	1900
unnamed	ROGER	Coal	3YPF	288	Beneath Property	30.5	South	120	1971
unnamed	RAMS	Coal	3Y3S	392	Beneath Property	10.0	South-East	180	1870
unnamed	ROGER	Coal	3YVF	441	South	24.8	South-West	120	1970
unnamed	TRENCHERB ONE	Coal	3Z2L	442	South-West	24.1	South	190	1919
unnamed	CANNEL	Coal	3YQC	447	South-West	21.6	South	110	1919

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

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

16696	16697	NW1023
PO0	16699	16700
16820	NW989	NW779

Our records show we have more plans than those shown above which could affect the enquiry boundary.

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

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
WORSLEY FOUR FEET	Coal	Yes	Within	N/A	284

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.

Faults 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.

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

None recorded within 50 metres of the enquiry boundary.

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.

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 in an area where a notice to withdraw support was given in 1959.

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.

Section 4 – Further information

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

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

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.

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.

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.

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. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

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.

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

