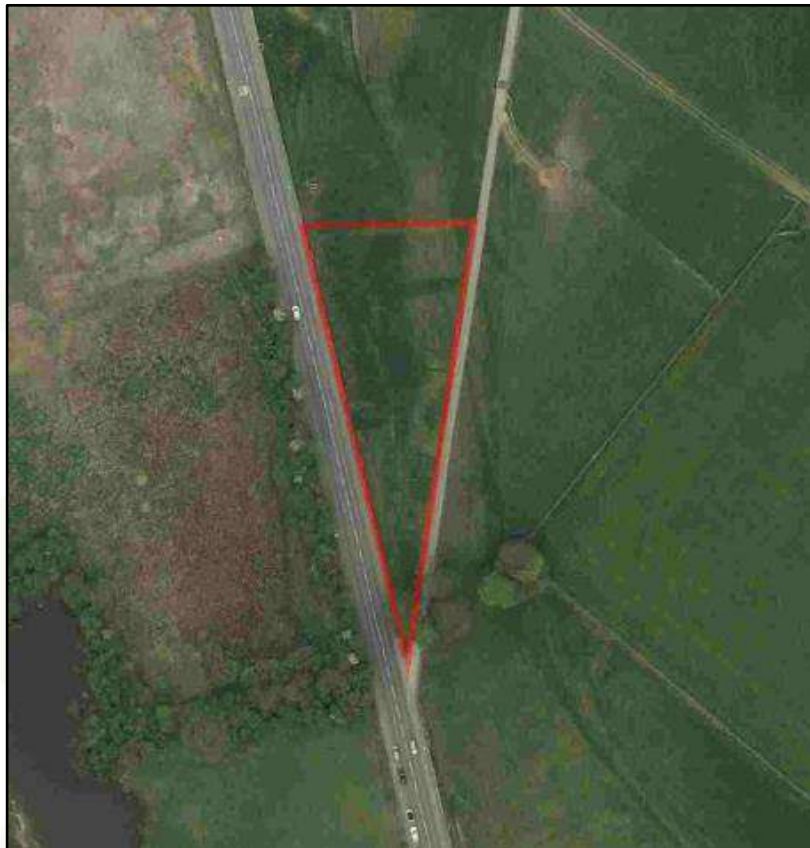


BANK TOP FARM, HOLLINGWORTH ROAD, LITTLEBOROUGH

Phase 1 - Preliminary Risk Assessment



Prepared for:

Bank Top Farm

Report Ref: BEK-22019-1 Rev A

August 2022

Project Quality Assurance Information Sheet

Site	BANK TOP FARM, HOLLINGWORTH ROAD, LITTLEBOROUGH
Report Title	Phase 1 - Preliminary Risk Assessment
Report Status	Final
Report No	BEK-22019-1 Rev A
Date	August 2022
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BANK TOP FARM, HOLLINGWORTH ROAD, LITTLEBOROUGH

Phase 1 - Preliminary Risk Assessment

PROJECT NO: 22019
REPORT REF: BEK-22019-1 Rev A
DATE: August 2022

REVISION STATUS / HISTORY

Rev	Date	Issue / Comment	Prepared	Checked
A	August 2022	New development layout. Minor amendments	AM	JM

GENERAL REPORT LIMITATIONS

BEK Enviro Limited (BEK) has prepared this report for the sole use of the client, showing reasonable skill and care, for the intended purposes as stated in the agreement under which this work was completed. The report may not be relied upon by any other party without the express agreement of the client and BEK. No other warranty, expressed or implied, is made as to the professional advice included in this report.

Where any data supplied by the client or from other sources have been used, it has been assumed that the information is correct. No responsibility can be accepted by BEK for inaccuracies in the data supplied by any other party. The conclusions and recommendations in this report are based on the assumption that all relevant information has been supplied by those bodies from whom it was requested.

No part of this report may be copied or duplicated without the express permission of BEK and the party for whom it was prepared. Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

Unless explicitly agreed otherwise, in writing, this report has been prepared under BEK's limited standard Terms and Conditions as included within our proposal to the Client.

The report needs to be considered in the light of the BEK proposal and associated limitations of scope. The report needs to be read in full and isolated sections cannot be used without full reference to other elements of the report and any previous works referenced within the report.

TABLE OF CONTENTS

1.	INTRODUCTION
1.1	Appointment
1.2	Proposed Development
1.3	Objective & Scope of Work
1.4	Limitations
2.	SITE DESCRIPTION
2.1	Site Location
2.2	Site Layout & Description
2.3	Surrounding Land Use
3.	SITE HISTORY
4.	ENVIRONMENTAL SETTING
4.1	Geology
4.2	Mining & Ground Stability
4.3	Hydrogeology
4.4	Hydrology
4.5	Contaminated Land & Landfill Activities
4.6	Sensitive Land Uses
4.7	Radon
4.8	Unexploded Ordnance
5.	POTENTIAL POLLUTANT LINKAGES
5.1	General
5.2	Potential Contaminants of Concern
5.6	Potentially Pollutant Linkage
6.	RECOMMENDATIONS

APPENDICES	
Appendix A	Historical OS Maps
Appendix B	Enviro+GeolInsight Report
Appendix C	Photographs
Appendix D	Drawings
DRAWINGS	
BEK Drawing No 22019-1	Site Location
BEK Drawing No 22019-2	Site Layout Plan
Corstorphine & Wrights Drawing No 21358-2011 Rev P-03	Proposed Site Plan



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1. INTRODUCTION

1.1 Appointment

1.1.1 BEK Enviro (BEK) have been commissioned by Bank Top Farm to prepare a Preliminary Risk Assessment for land at Bank Top Farm, Hollingworth Rd, Littleborough, (hereafter referred to as 'the site') to assess the potential risks associated with contamination and ground gas with respect to the proposed construction of a commercial farm building with grasscrete parking bays and an access road off Hollingworth Rd.

1.1.2 The site location is presented on BEK Drawings No 22019-1 and 22019-2 in Appendix D.

1.2 Proposed Development

1.2.1 This report has been prepared to support a planning application to construct a 2-storey building with adjacent car park and access road on site. This would be used as a farm shop and café, with a terrace, community room, kitchen, butchery, toilets and refuse store.

1.2.2 The 'Proposed Site Plan' is shown on Corstorphine & Wrights Drawing No 21358-2011 Rev P-03, dated July 2022, a copy of which is presented in Appendix D.

1.2.3 The development site boundary covers a triangular area of field, adjacent to a B-road. On the side of an open hillock currently used for livestock. The assessment herein considers the area to be rural only; there is no change of use to the surrounding area.

1.3 Objective & Scope of Work

1.3.1 This report provides the details of the works undertaken by BEK to assess the potential risks from contamination considering the proposed development.

1.3.2 To achieve the objective BEK will undertake the following:

- Carry out a site inspection and take photographs
- Review the available relevant background information for the site, including:
 - Recent Ordnance Survey Map
 - Coal Authority Website
 - BGS Web Page
 - Site Specific GroundSure Reports
 - Site Specific Historical Maps
 - Client Drawings
 - Zetica UXO Information
- Develop a preliminary conceptual site model in accordance with guidance to identify potentially significant pollutant linkages specific to the proposed development



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- Establish areas of potential concern based on identified risks and/or potential risks
- Identify any actions required to assess or reduce the risks identified

1.4 Limitations

- 1.4.1 The conclusions and recommendations presented in this report are the result of our professional interpretation of the information currently available. BEK reserves the right to amend the conclusions and recommendations if further information becomes available.
- 1.4.2 However, it should be noted that much of the information has been derived from reports written by others and BEK takes no responsibility for the accuracy of that information. Notwithstanding the above, the reports reviewed have all been written by professional environmental consultants with a duty of care to provide relevant and accurate information.
- 1.4.3 This report does not include an assessment of the vegetation of site and in particular the identification of any invasive plant species.

2. SITE DESCRIPTION

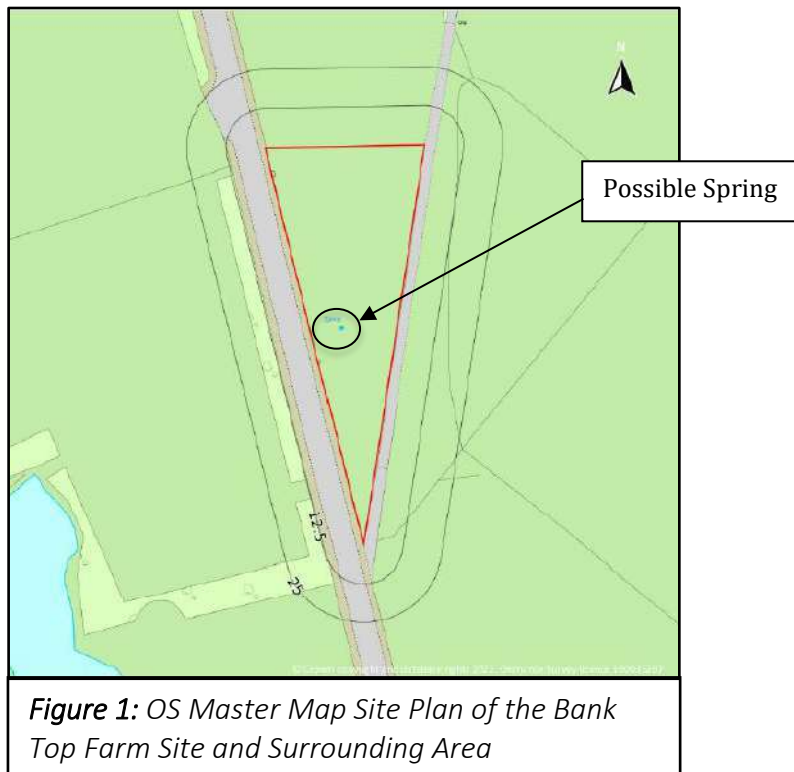
2.1 Site Location

2.1.1 The site is located to the east of Hollingworth Road, approximately 0.5 km south of Littleborough and 0.5km north of Hollingworth Lake. Access to the site is available from Hollingworth Road.

2.1.2 The National Grid Reference for the centre of the site is 393565, 415736 and is approximately 3900 m² or 0.39 ha. A site location plan is provided in Appendix D.

2.2 Site Layout & Description

2.2.1 An engineer from BEK visited the site in February 2022 to carry out a site walkover/inspection. A collection of photographs of the site are presented in Appendix C.



2.2.2 The site is a triangular plot of open grassed agricultural land flanked by dry stone walls on the whole west and the south-east section of the boundary, the rest of the east boundary is open (see Figure 1). Sheep livestock were occupying the site at the time of the walkover. Hollingworth Road runs parallel along the westward boundary and a farm access track along the eastward boundary. The northern site boundary is open to the rest of the field.



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- 2.2.3 Two metal gates are located on the west and south-east walls, they were unlocked at the time of the site walkover. The site is unevenly sloped from the east down to the west. A boggy, reeded area encircled a possible spring in the centre of the site.

2.3 Surrounding Land Use

- 2.3.1 The site is located in active farmland used for grazing livestock around Bank Top Farm, with fields north, east, south and west. Residential infrastructure/buildings are approximately 0.5 km away. Bank Top Farm lies at the top of the site adjacent farm track approximately 150 m north-east which joins Hollingworth road on the southern point of the site boundary.

3. SITE HISTORY

- 3.1 The history of the site has been established using historical OS maps supplied by Groundsure. A selection of the maps reviewed is presented in Appendix A.
- 3.2 The site has remained virtually unchanged since the earliest OS maps were produced back in 1891 (Figure 2) and 1910. Hollingworth Road runs north-south adjacent to the site up to clough field. A farm track runs along the east side of the site boundary. A reservoir is approximately 100 m south-west of the site and Clough Field Oil and Tallow Works is north-west approximately 200 m away.

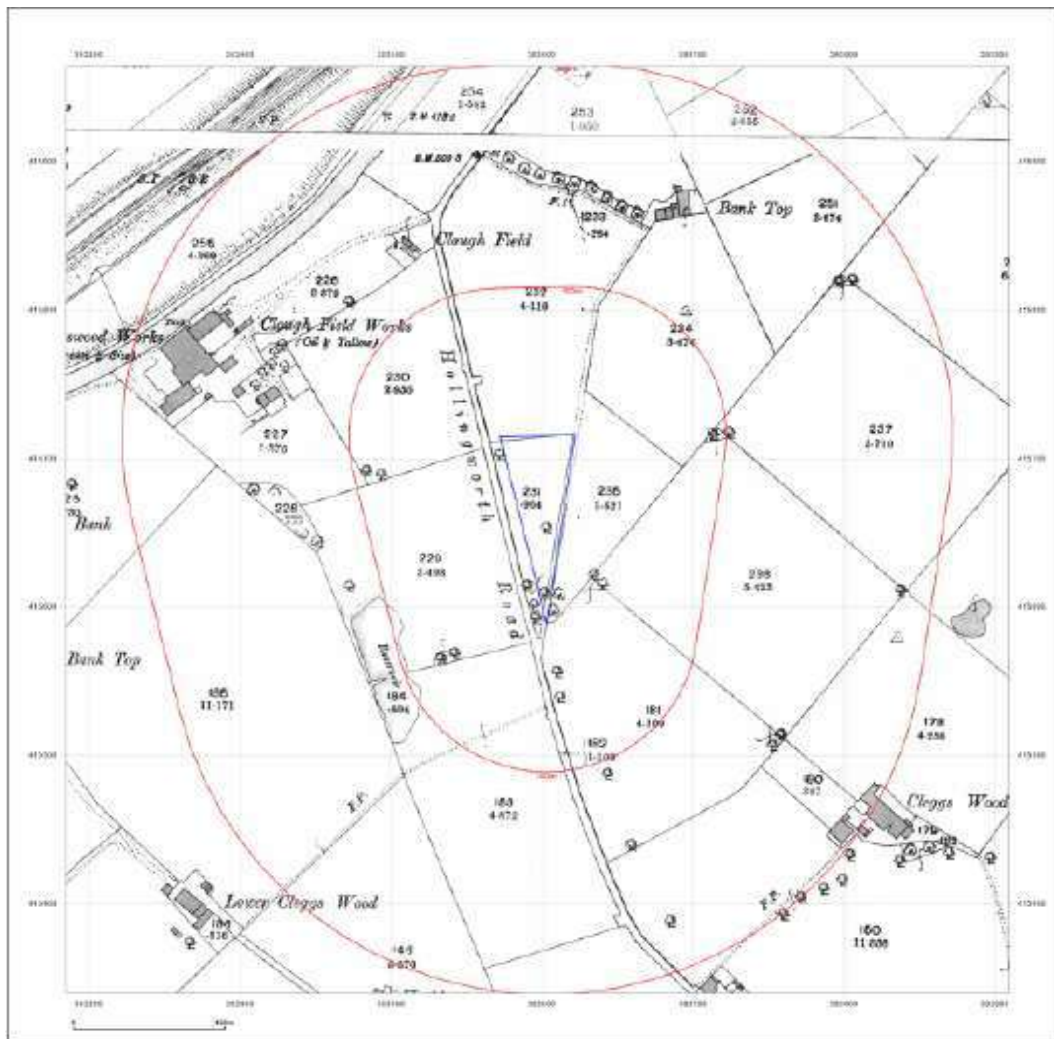


Figure 2: OS Map of the Bank Top Farm Site and Surrounding Area in 1891

1930

- 3.3 Quarried land and/or outcrops are now 100 m north and 50 m north-east of the site boundary. Two springs have now been marked in the centre of the site boundary as well as just north of the north-west vertex of the site, adjacent to the road.

1961

- 3.4 No significant change to the site or the surrounding area.

3.5 1987 – 2003

These maps indicate the site remains unchanged. Several commercial buildings are located beyond Hollingworth Road from 50 m to 250 m to the north-west.

2012

- 3.6 The aerial satellite images presented in the Enviro+GeoInsight Report shows a possible track from the access gate has been formed leading to what looks like either excavated ground or a store pile of lime. The commercial complex north-west of the site is absent (Figure 3).

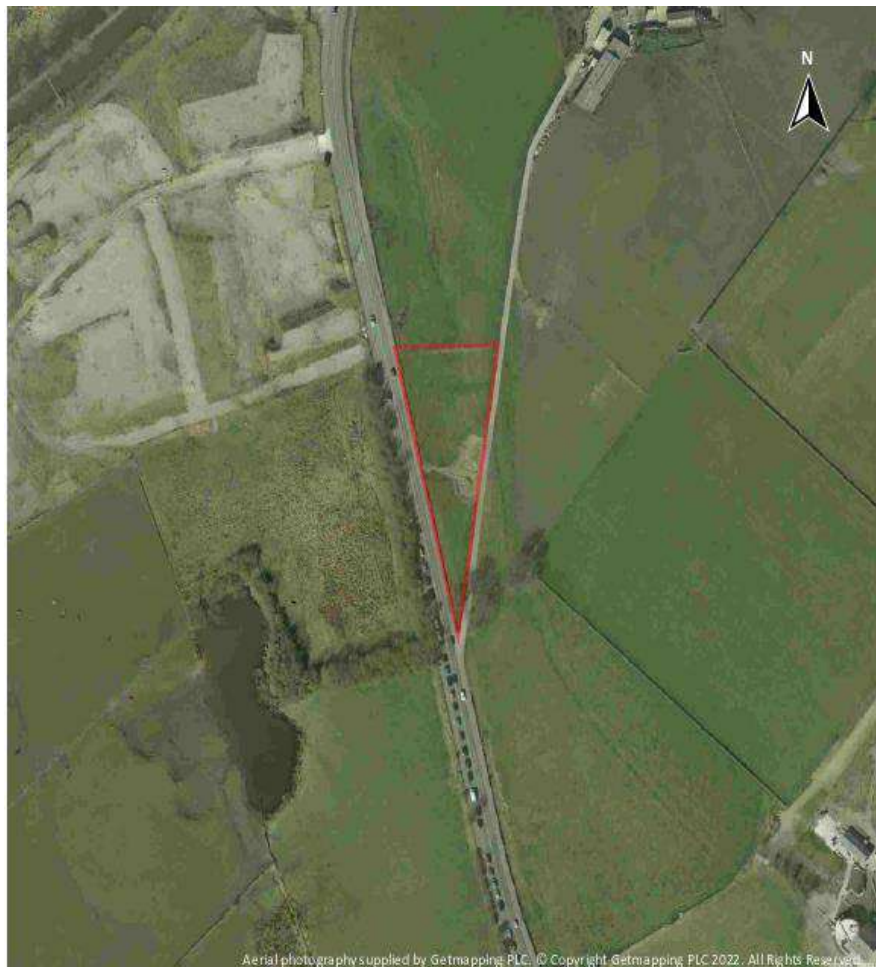


Figure 3: Satellite aerial imagery of the Bank Top Farm site and the surrounding area in 2012

2019

- 3.7 The most recent aerial satellite image (Figure 4), very little change occurred since 2012. The site no longer has a trail leading from the access gate or excavation feature. It is likely the feature seen in 2012 was a lime pile and has subsequently been removed.

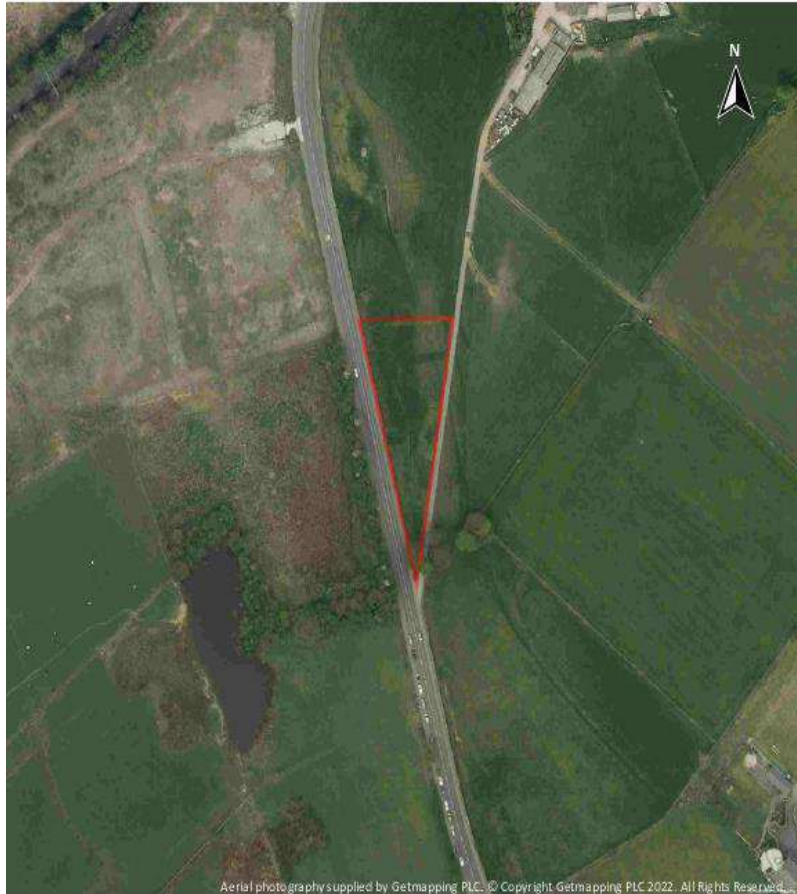


Figure 4: Satellite Aerial Imagery of the Bank Top Farm site and the Surrounding Area in 2019

4. ENVIRONMENTAL SETTING

- 4.0.1 An Enviro+GeoInsight Report has been obtained from Groundsure and information provided in these reports has been used within this section. A copy of the report is presented in Appendix B.

4.1 **Geology**

- 4.1.1 The site geology is illustrated in the Enviro+GeoInsight Report which has sourced data from several sources including British Geological Society (BGS), BRITPITS database and the Coal Authority. There are no BGS boreholes located within the site, the nearest BGS borehole is located some 234 m north-west of the site.

Made Ground

- 4.1.2 According to the Enviro+GeoInsight Report made ground is absent from the site.

Superficial Geology

- 4.1.3 The Enviro+GeoInsight Report states that the superficial strata underlying the site is Devensian till (Diamicton) which generally are of low permeability. The site is overlain with unclassified Landslide Deposits.

Bedrock

- 4.1.4 The Enviro&GeoInsight Report states that the solid geology underlying the majority of the site is the Milnrow Sandstone Formation (dominated by sandstone). The Pennine Lower Coal Measures Formation underlies the northernmost part of the site; this is generally described as 'Interbedded grey mudstone, siltstone and pale grey sandstone, commonly with mudstones containing marine fossils in the lower part, and more numerous and thicker coal seams in the upper part'.

BGS Information

- 4.1.5 BEK has sought site investigation information from the BGS website. There is 1 borehole available to view located some 234 m to the north-west of the site. This was drilled alongside "Rochdale Canal and Lancashire + Yorkshire Railway" to a depth of 115.21 m. The borehole record was amended in 1999, when the thickness and depth was converted from imperial to metric units.
- 4.1.6 The ground conditions recorded on the BGS boreholes lack any topsoil depth recordings. The glacial drift measured to a depth of 6.4 m and is comprised of 5.79 m of clays and gravel with the remanding 0.61 m constituting sand and loam.
- 4.1.7 These are underlain by the 'Lower Coal Measures' which contain a possible 5 coal veins (Table 1).

Depth (m)	Thickness (m)
46.76	0.02
72.29	0.41
82.07	0.03
103.10	0.31
114.73	0.66

Table 1: Location of coal seams within the borehole around Bank Top Farm, BGS ID: 34814

Linear Features

- 4.1.8 There are 17 bedrock faults and/or linear features within 500 m of the site boundary. Two intercept the site boundary, one is an inferred coal seam and the other is an inferred fault with unknown displacement. Three linear features lie within 250 m of the site. One inferred fault is 18 m west striking north / south and the other is 55 m north-east striking north-north-west / south-south-east. The third feature is an inferred coal seam 93 m north striking north-east / south-west.

4.2 Mining & Ground Stability

- 4.2.1 Information in the Enviro+GeoInsight Report indicates that the site is located in an area that may have been affected by coal mining. Furthermore, the site is located within/close to an area designated by The Coal Authority as a 'Development High Risk Area' and there is an adit located some 55 m to the north. As such, a separate Coal Mining Risk Assessment Letter Report has been prepared by BEK (Report Ref: BEK/22019/220222/SD) and this should be read in conjunction with this report.

- 4.2.2 The Enviro+GeoInsight Report provides hazard ratings associated with ground subsidence at the site, as summarised below:

Shrink-Swell Clay:	Very Low
Landslides:	Moderate
Ground Dissolution of Soluble Rocks:	Negligible
Compressible Deposits:	Negligible
Collapsible Deposits:	Very Low
Running Sands:	Very Low

- 4.2.3 It can be seen from the above that the site is unlikely to be affected by natural ground instability with the possible exception of the moderate classification for 'landslides', which should be taken into consideration considering the proposed build will temporarily increase the angle of slope when excavating the hillside.

4.3 Hydrogeology

- 4.3.1 The underlying superficial strata is classified as 'Secondary Undifferentiated' aquifers 'assigned where it is not possible to attribute either category A or B to a rock type.' In general, these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type.
- 4.3.2 The underlying bedrock is classified by the EA as a 'Secondary A' aquifer which are described as 'permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.
- 4.3.3 The Enviro+GeoInsight Report (Appendix B) indicates the site is not located within a groundwater source protection zone.
- 4.3.4 The Enviro+GeoInsight Report indicates that there are no groundwater abstraction licenses within 250 m of the site, and the site is not located within a groundwater Source Protection Zone.

4.4 Hydrology

- 4.4.1 The Enviro+GeoInsight Report indicates that there are no surface water features on site however, the site inspection conducted by BEK in February 2022 indicated the presence of a small spring on site. This was supported by historic OS maps. The nearest significant surface water features within 250 m are the Roch canal, a manmade watercourse for inland navigation, not influenced by normal tidal action is located some 193 m north-west of the site. The watercourse contains water all year round. The site is identified by the WFD as a catchment area for the Roch canal.
- 4.4.2 There are no licensed discharges to controlled waters within 250 m of the site
- 4.4.3 There are no surface water abstractions located within 250 m of the site.
- 4.4.4 According to Groundsure the site is not located within any flood zones and negligible surface water flooding, with only one historical flood event within 250 m of the site, some 165 m north on INghams Lane in 2019. The risk of groundwater flooding is low to negligible.

4.5 Contaminated Land & Landfill Activities

- 4.5.1 Information provided in the Enviro+GeoInsight Report indicates that there are no current landfill sites located within 250 m of the site.

- 4.5.2 However, Environment Agency Records indicate that there is 1 historical landfill located within 250 m of the site; this refers to a landfill located within the Clough Field Works, Canal Side, Littleborough some 207 m to the north-west.
- 4.5.3 Groundsure indicates that there are no ground-workings located on site.
- 4.5.4 There are waste exemptions located within 250 m of the site. These waste operations are not considered to pose a risk to the site. The nearest exemption are summarised below (Table 2):

Distance/Direction from site	Site	Category	Description
165 m NE	Bank Top Farm, Hollingworth Road, Littleborough, OL15 0AU	Using waste exemption / Disposing of waste exemption / Treating waste exemption	Burning of waste as fuel in a small appliance / Use of waste in construction / Burning waste in the open / Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising / Spreading waste on agricultural land to confer benefit / Use of mulch
174 m NE	Bank Top Farm, Hollingworth Road, Littleborough, OL15 0AU	Disposing of waste exemption / Treating waste exemption / Using waste exemption	Burning waste in the open / Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising / Use of waste in construction / Spreading waste on agricultural land to confer benefit / Burning of waste as a fuel in a small appliance

Table 2: Activities Involving the Storage, Treatment, Use or Disposal of Waste That are Exempt from Needing a Permit Near the Site Boundary.

- 4.5.5 There are no EA recorded pollution incidents located within 250 m of the site.
- 4.5.6 There is one historical NIHHS site located within 250 m of the site; this refers to Akzo Chemical Ltd located some 26 m to the north-west. This is no longer present.
- 4.5.7 There are no Part A(1) authorized activities located within 250 m of the site. There are however Part A(2)/B and IPC activities as listed in Table 3 below:

License type	Distance/Direction from site	Process Details	Status	Effective Date
A(2)/B	172m West	Chemical and Acid Processes	Historical Permit	No Enforcements Notified
IPC	73m West	Combustion Processes	Superseded by Variation	17/02/1993
IPC	73m West	Combustion Processes	Revoked	16/09/1993
IPC	73m West	Manufacture and Use of Organic Chemicals	Superseded by Variation	21/02/1994
IPC	73m West	Manufacture and Use of Organic Chemicals	Superseded by Variation	03/11/1997
IPC	73m West	Manufacture and Use of Organic Chemicals	Superseded by Variation	30/11/1998
IPC	73m West	Inorganic Chemical Processes	Superseded by Variation	15/11/1999
IPC	73m West	Inorganic Chemical Processes	Revoked	19/06/2000
IPC	73m West	Manufacture and Use of Organic Chemicals	Superseded by Variation	20/12/2000
IPC	73m West	Manufacture and Use of Organic Chemicals	Revoked	10/09/2001

Table 3: Activities Involving the Historical Licensed Industrial Activities, Integrated Pollution Control (IPC) Records Of Substance Release to Air, Land and/or Water.

- 4.5.8 There are no electricity substations located within 250 m of the site noted by Groundsure.
- 4.5.9 There were no historical petrol stations or historical garages located within 250 m of the site.
- 4.5.10 There are 38 potentially contaminative historical industrial sites located within 250 m of the site according to the Enviro+GeoInsight report, with the sites dating from 1851 (Figure 5). There are four unspecified ground workings/pits within 50 m of the site boundary; the closest of which is 25 m east (dated 1928), 27 m east (dated 1938), 39 m east (dated 1949) and 41 m north (dated 1949). The ground workings are unspecified but are likely to be quarries suggested from satellite observation.

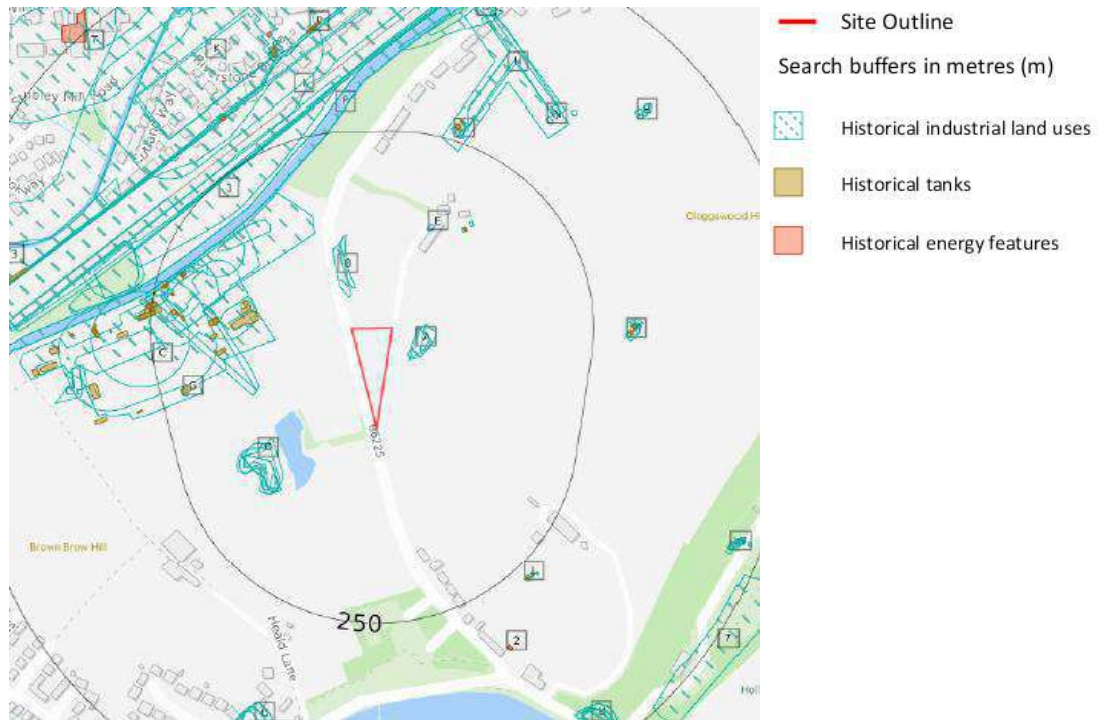


Figure 5: Potentially Contaminative Land Use Features Digitized from Historical OS Maps Around the Site Boundary

4.6 Sensitive Land Uses

- 4.6.1 The site is not affected by any of the ecological systems identified as a statutory receptor in the DETR Circular 01/2006.

4.7 Radon

- 4.7.1 The Enviro+GeoInsight Report states that 'the property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level. Therefore, 'no radon protective measures are necessary.'

4.8 Unexploded Ordnance

- 4.8.1 The regional unexploded bomb risk map from Zetica (2014) indicates that the site is in an area of Littleborough at LOW risk from possible Unexploded Ordnance (UXO) resulting from the Second World War. Risks from UXO are not considered further.

5. POTENTIAL POLLUTANT LINKAGES

5.1 General

5.1.1 This section identifies the potential contaminants of concern, sources, pathways and receptors that may be associated with the site based on its known history and current condition and with respect to the construction of an extension to the existing Children's Centre building. It should be noted that this assessment only considers the footprint of the new building and not the wider site.

5.1.2 This information is used to develop a conceptual model which is a qualitative description of potential sources of environmental pollutants, the pathways by which they are transported and the receptors:

- i) Potential sources of contamination: these include any actual or potentially contaminating materials and activities, located either on or in the vicinity of the site
- ii) Potential pathways for contamination migration: these comprise the routes or mechanisms by which contaminants may migrate from the source to the receptor including environmental migration pathways and human health exposure pathways
- iii) Potential receptors of contamination: these include future land users, ecological systems, water resources and property

5.2 Potential Contaminants of Concern

5.2.1 Based on the earliest available historical maps (1891) the site was vacant and part of wider open fields; a spring is marked on the site on the 1930 map. The site remained vacant according to all OS maps and aerial images with the exemption of a potential lime storage pile in 2012.

5.2.2 Given the history of the site the potential for significant contamination to be present is considered to be very low to negligible and need not be considered further unless ground conditions are found to be different from those expected.

5.2.3 Based on the available background information low level risks from ground gas are considered to be present due to the underlying coal measures that have been worked in the area (an adit is located some 55 m to the north of the site). BEK cannot rule out these potential risks without further assessment.

5.3 Potential Pollutant Linkages

5.3.1 The only potentially significant pollutant linkages is associated with the risks to human health via indoor inhalation of ground gas.



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6. RECOMMENDATIONS

- 6.1 Based on the findings of the Preliminary Risk Assessment herein, the only potentially significant pollutant linkage is associated with the indoor inhalation of ground gas generated from the underlying coal measures strata.
- 6.2 To take the site forward and progress the development proposals, BEK recommends the following:
1. Ground conditions should be anticipated during any on site groundworks (topsoil overlying natural strata – Glacial Till). If there is any evidence for the presence of made ground or visual/olfactory evidence of contamination then works should cease and specialist advice sought
 2. The new build should include basic gas mitigation measures in accordance with Characteristic Situation 2 as specified in CIRIA 665. The installation of these measures should be independently verified
 3. Any soils to be removed from site as waste should be done so in accordance with the Duty of Care Regulation
 4. Waste soils re-used on site should be done so in accordance with Permit Exemptions or a Material Management Plan (MMP) as part of the DoW:CoP compliance

Other Considerations

- 6.3 Site investigation works are recommended to confirm ground conditions prior to any development works starting on site. The site investigation will also provide information to support a geotechnical assessment to inform foundation design as well as provide information on (a) the existing spring, (b) soil testing to inform concrete specification, (c) water pipe specification, and (d) waste soil classification.

APPENDIX A

Historical OS Maps

Site Details:

BANK TOP FARM, BANK TOP,
HOLLINGWORTH ROAD,
LITTLEBOROUGH, OL15 0AU

Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: County Series

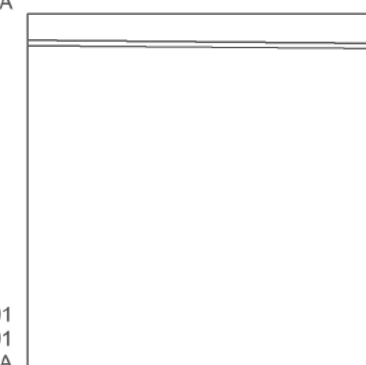
Map date: 1891

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1891
Revised 1891
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1891
Revised 1891
Edition N/A
Copyright N/A
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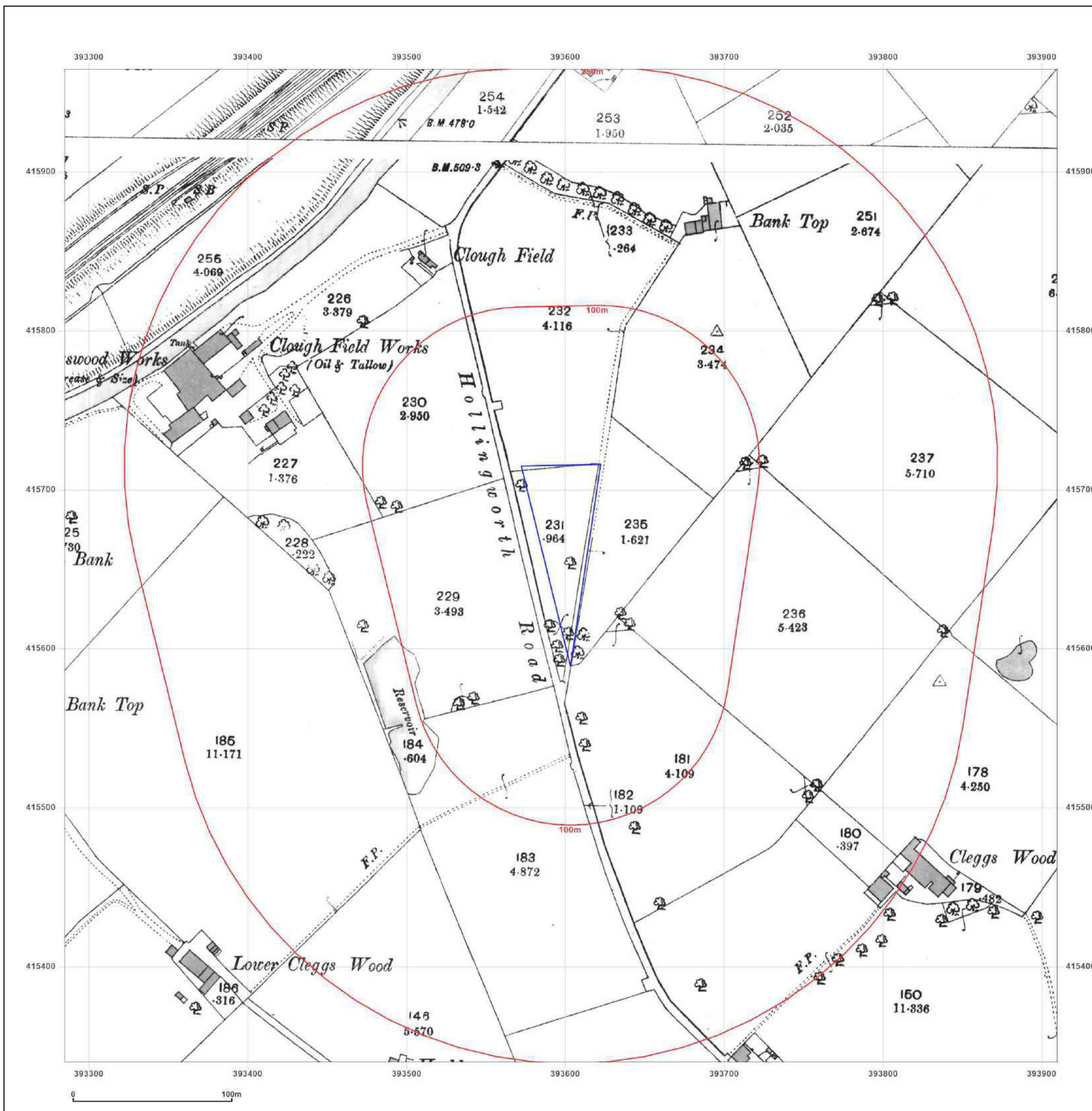


Produced by
Groundsure Insights
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E: info@groundsure.com
W: www.groundsure.com

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Production date: 15 February 2022

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

BANK TOP FARM, BANK TOP,
HOLLINGWORTH ROAD,
LITTLEBOROUGH, OL15 0AU

Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: County Series

Map date: 1910

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1910
Revised 1910
Edition N/A
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Revised 1910
Edition N/A
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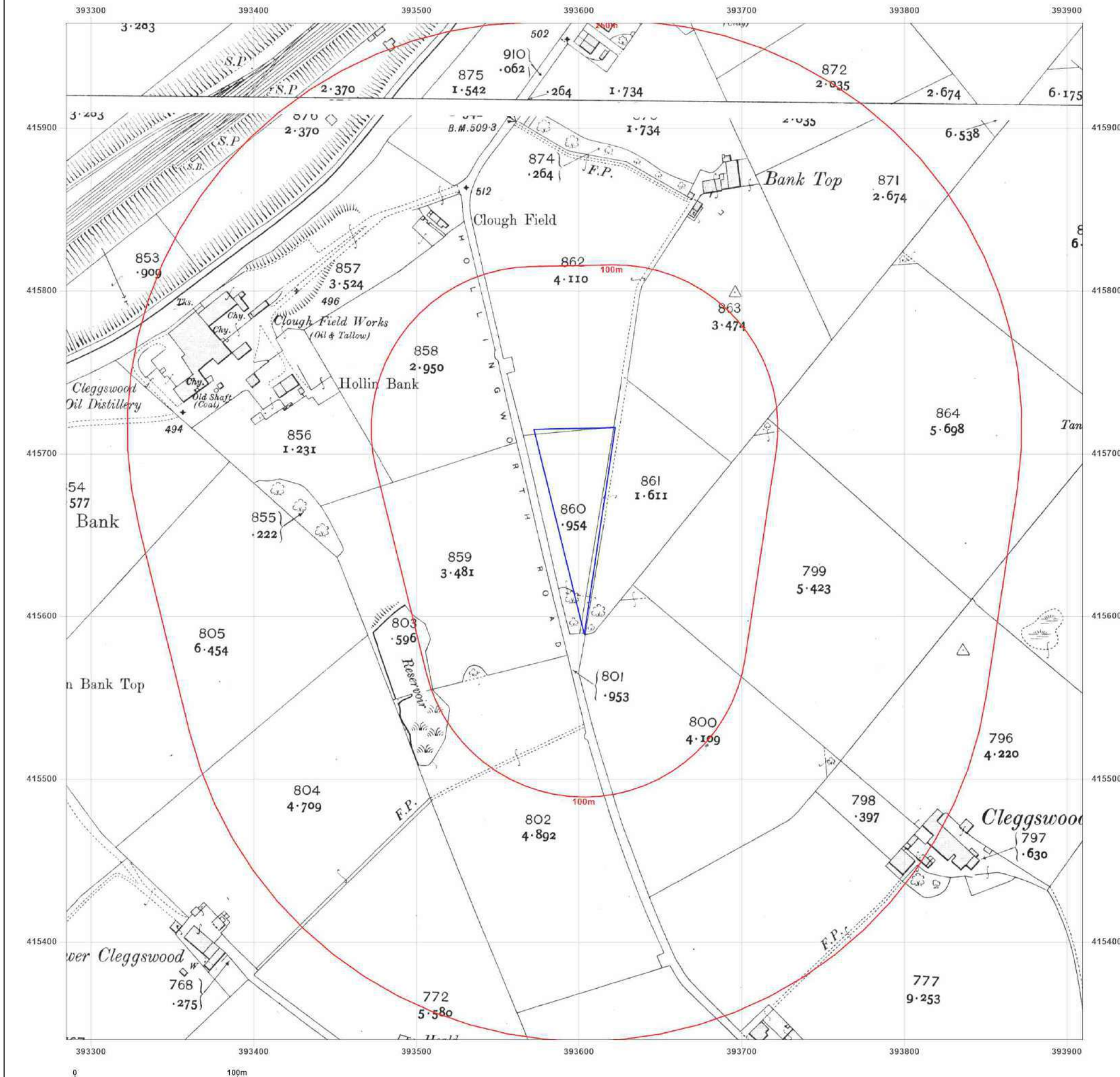


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Site Details:

BANK TOP FARM, BANK TOP,
HOLLINGWORTH ROAD,
LITTLEBOROUGH, OL15 0AU

Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: County Series

Map date: 1930

Scale: 1:2,500

Printed at: 1:2,500



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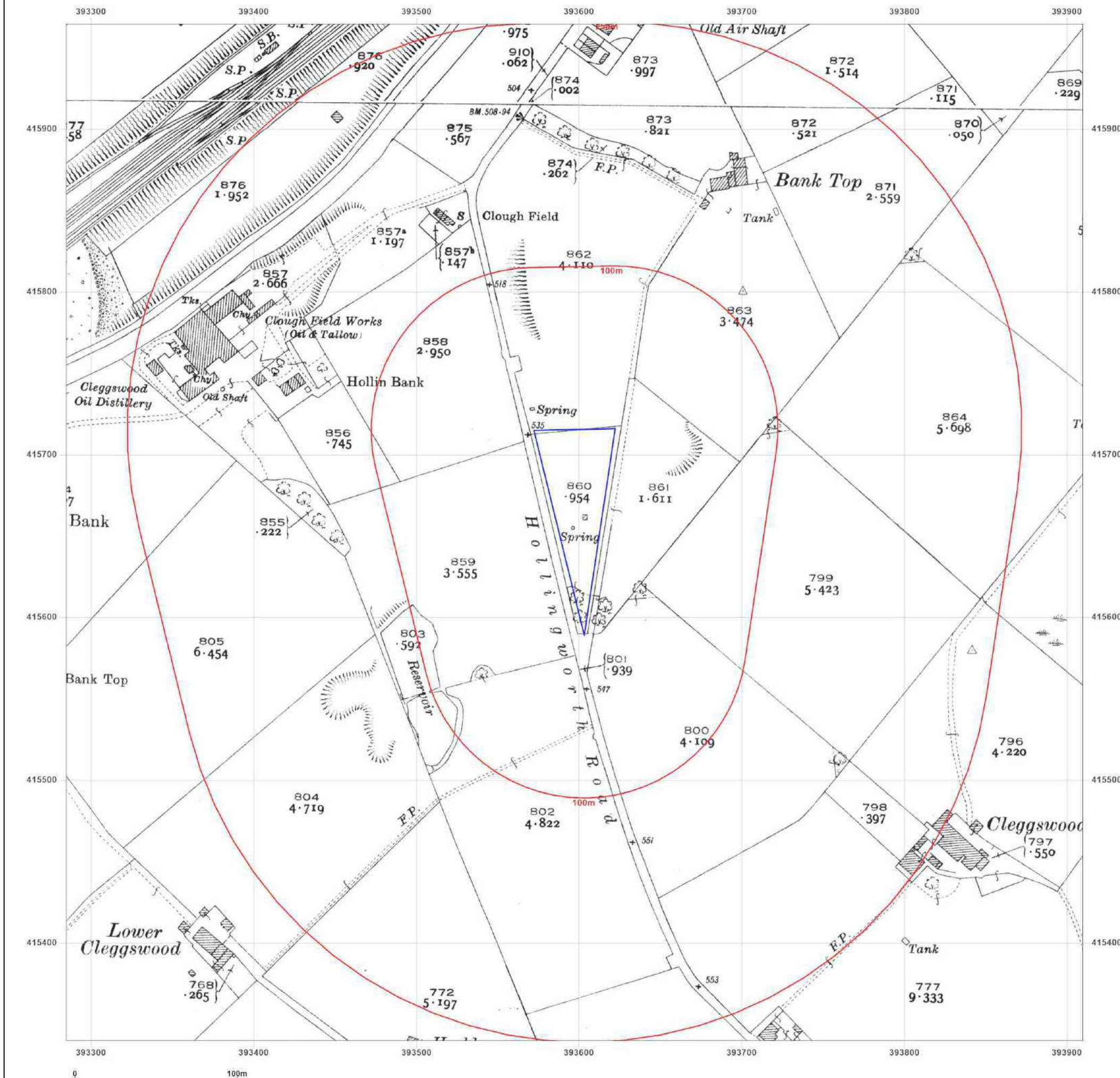


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www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

BANK TOP FARM, BANK TOP,
HOLLINGWORTH ROAD,
LITTLEBOROUGH, OL15 0AU

Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: County Series

Map date: 1937-1938

Scale: 1:2,500

Printed at: 1:2,500



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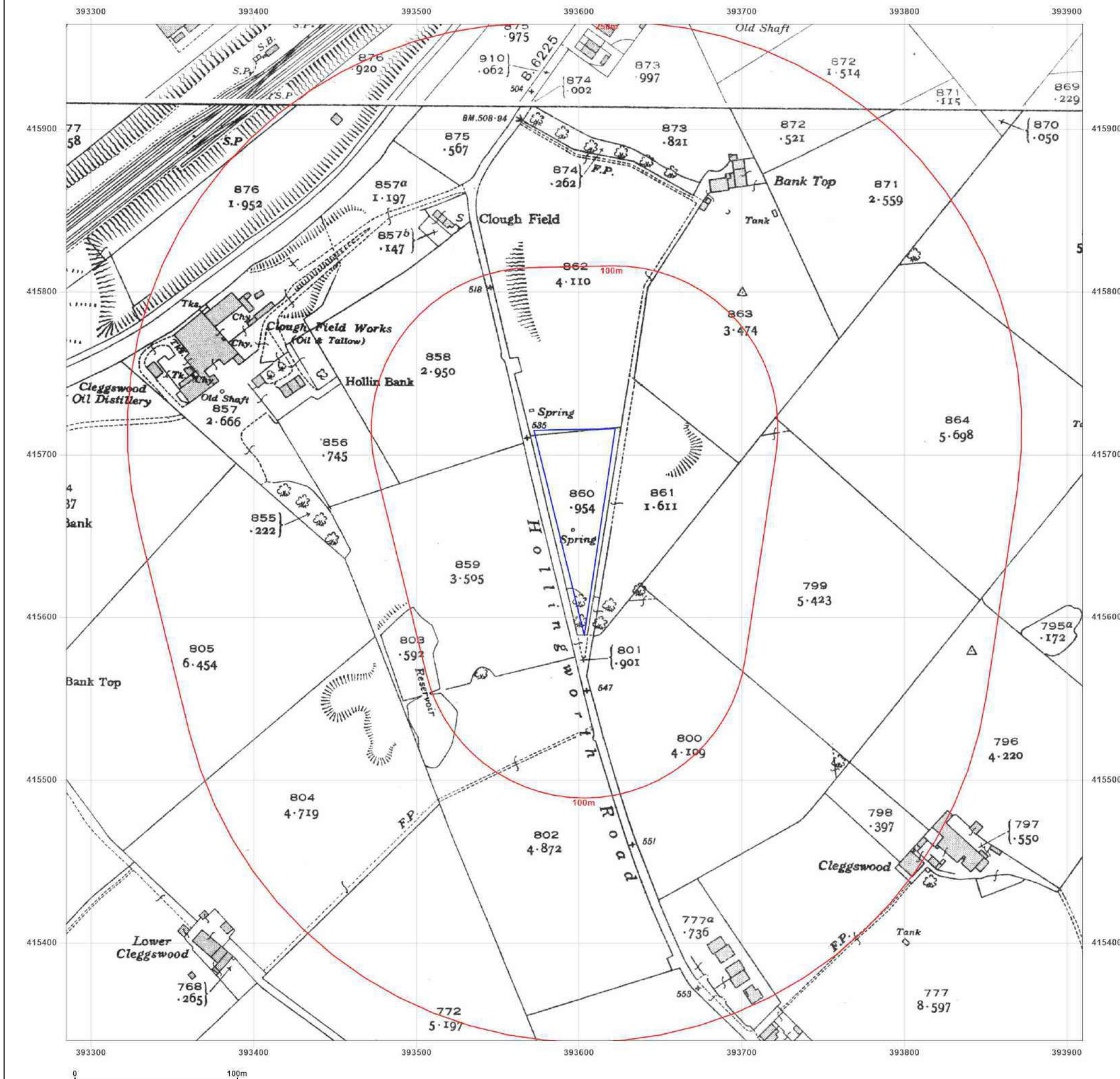


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Site Details:

BANK TOP FARM, BANK TOP,
HOLLINGWORTH ROAD,
LITTLEBOROUGH, OL15 0AU

Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: National Grid

Map date: 1960

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1959
Revised 1959
Edition N/A
Copyright 1960
Levelled 1956

Surveyed 1959
Revised 1959
Edition N/A
Copyright 1960
Levelled 1956

Surveyed 1959
Revised 1959
Edition N/A
Copyright 1960
Levelled 1956

Surveyed 1959
Revised 1959
Edition N/A
Copyright 1960
Levelled 1956

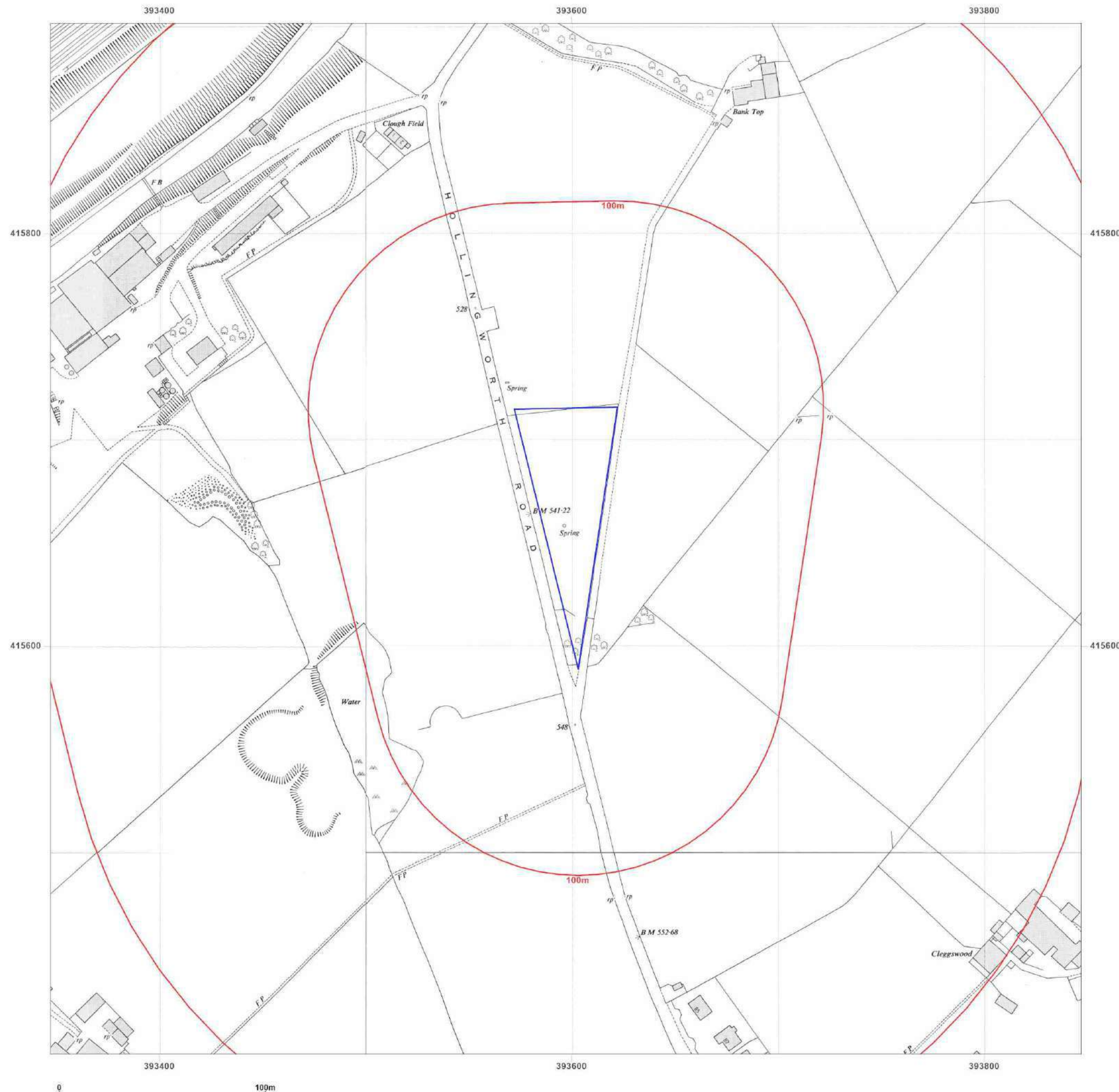


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Site Details:

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HOLLINGWORTH ROAD,
LITTLEBOROUGH, OL15 0AU

Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: National Grid

Map date: 1974-1976

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1976
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1974
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1974
Levelled N/A

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

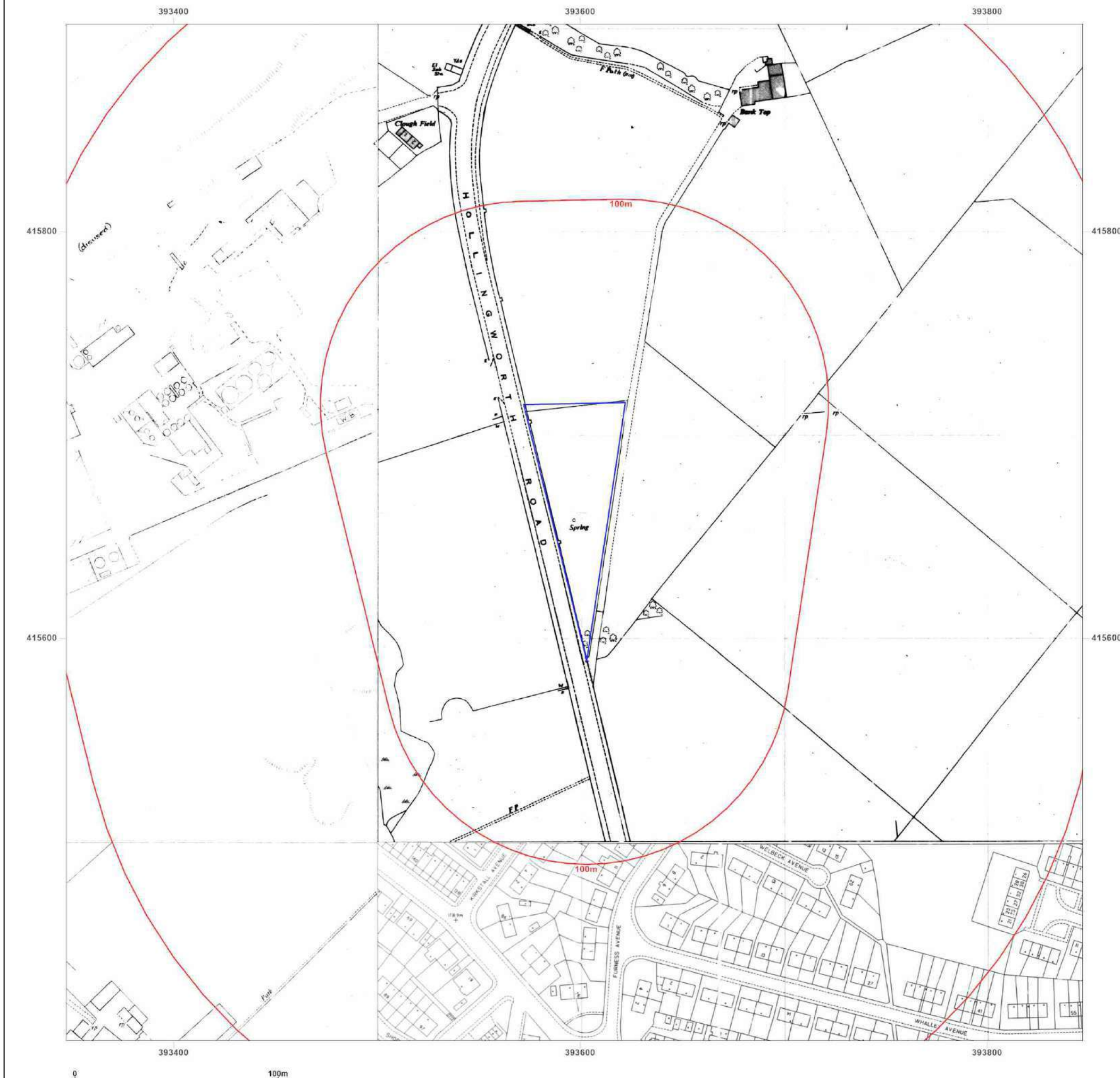


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Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: National Grid

Map date: 1975-1978

Scale: 1:1,250

Printed at: 1:2,000



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

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1976
Levelled N/A

Surveyed 1959
Revised 1975
Edition N/A
Copyright 1975
Levelled 1962

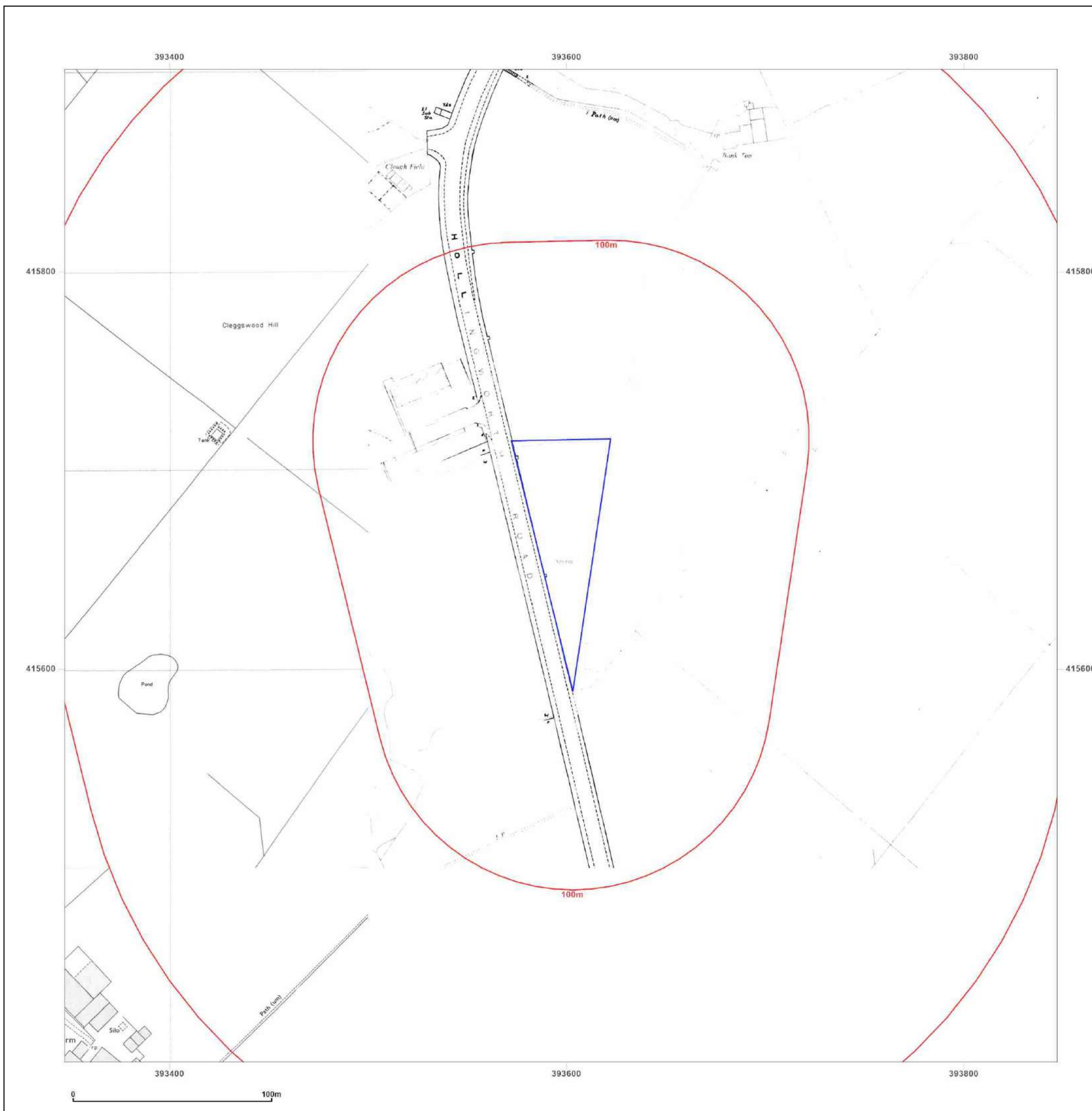


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Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: National Grid

Map date: 1976-1978

Scale: 1:1,250

Printed at: 1:2,000



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Surveved N/A Revised N/A Edition N/A Copyright 1976 Levelled N/A	

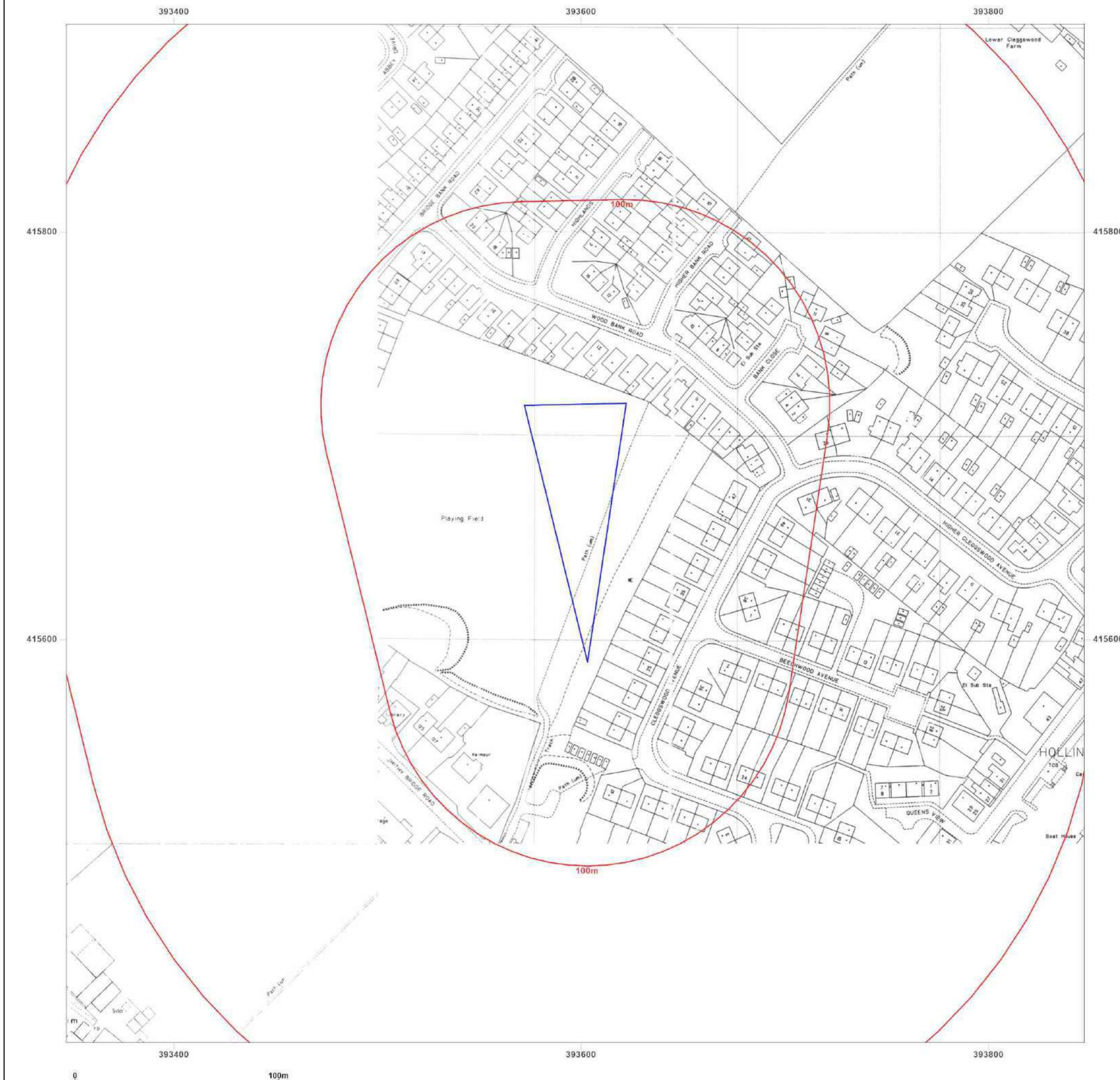


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Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: National Grid

Map date: 1987-1992

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1962
Revised 1987
Edition N/A
Copyright 1987
Levelled 1962

Surveyed 1992
Revised N/A
Edition N/A
Copyright 1992
Levelled N/A

Surveyed 1992
Revised N/A
Edition N/A
Copyright 1992
Levelled N/A

Surveyed 1992
Revised N/A
Edition N/A
Copyright 1992
Levelled N/A

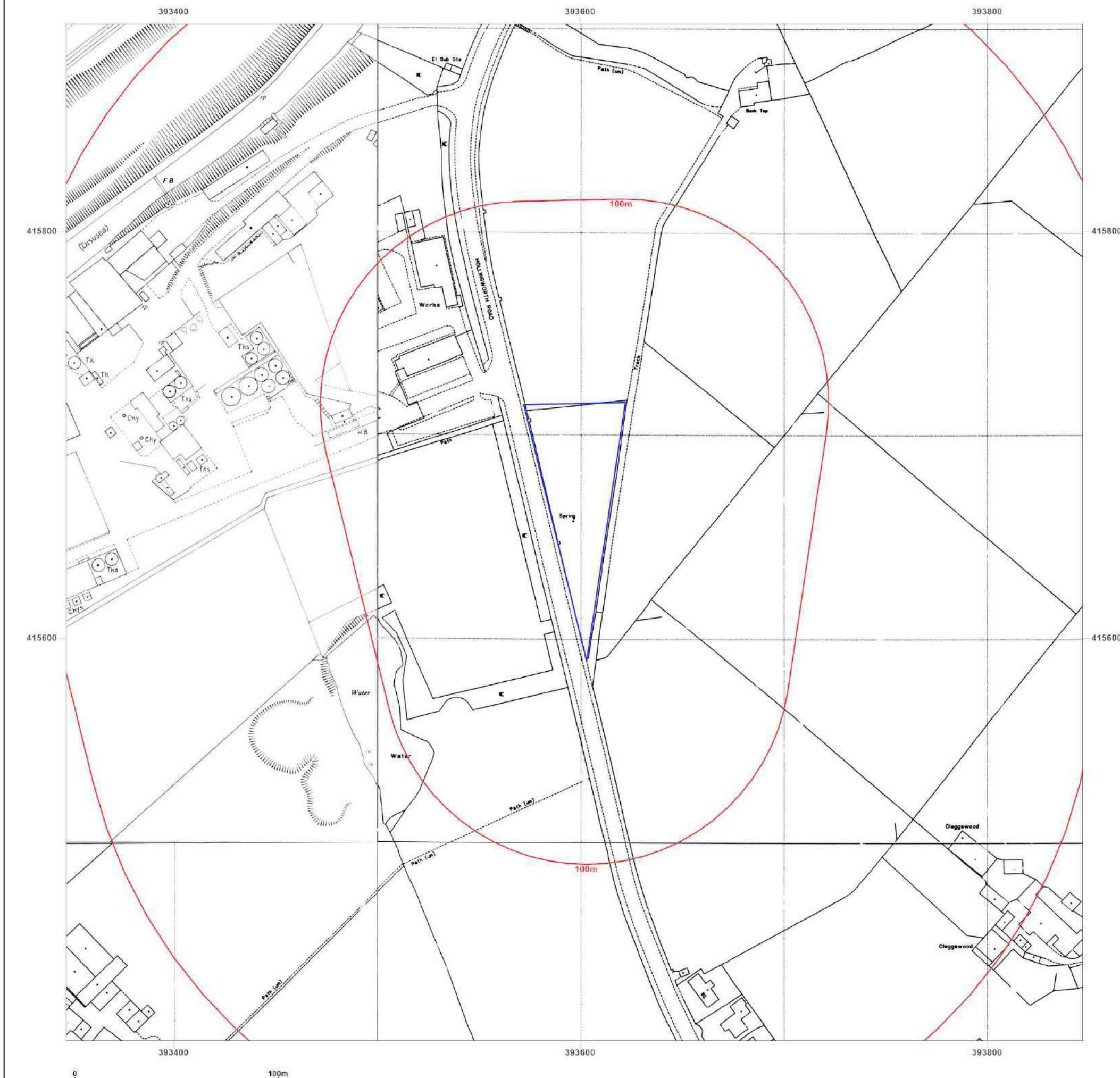


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Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: National Grid

Map date: 1988-1992

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1992
Revised N/A
Edition N/A
Copyright 1992
Levelled N/A

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

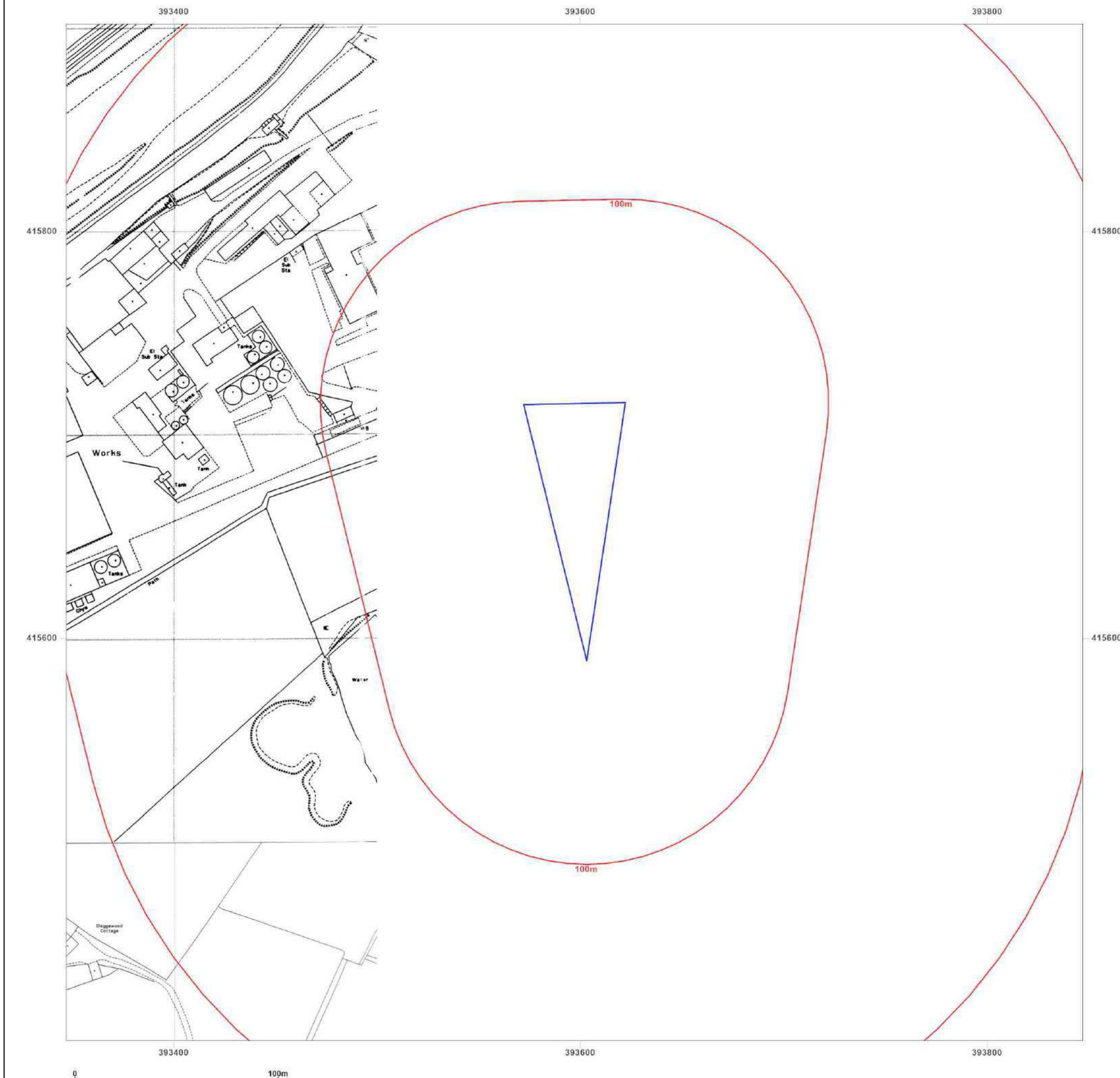


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Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



2003



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Site Details:

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Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: County Series

Map date: 1851

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848
Revised N/A
Edition 1851
Copyright N/A
Levelled N/A

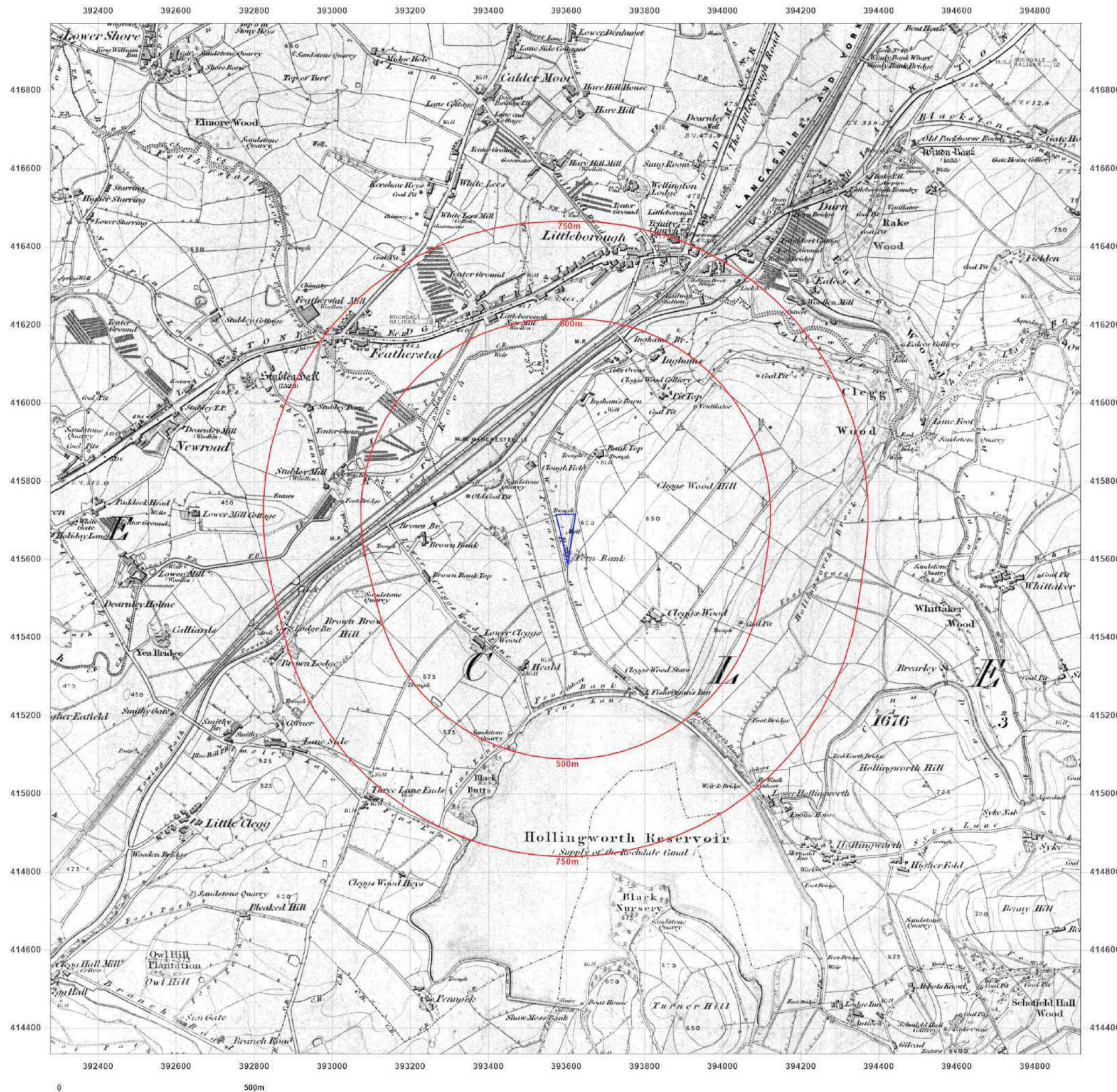


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Site Details:

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Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: County Series

Map date: 1890-1891

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1890
Revised 1890
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1891
Revised 1891
Edition N/A
Copyright N/A
Levelled N/A

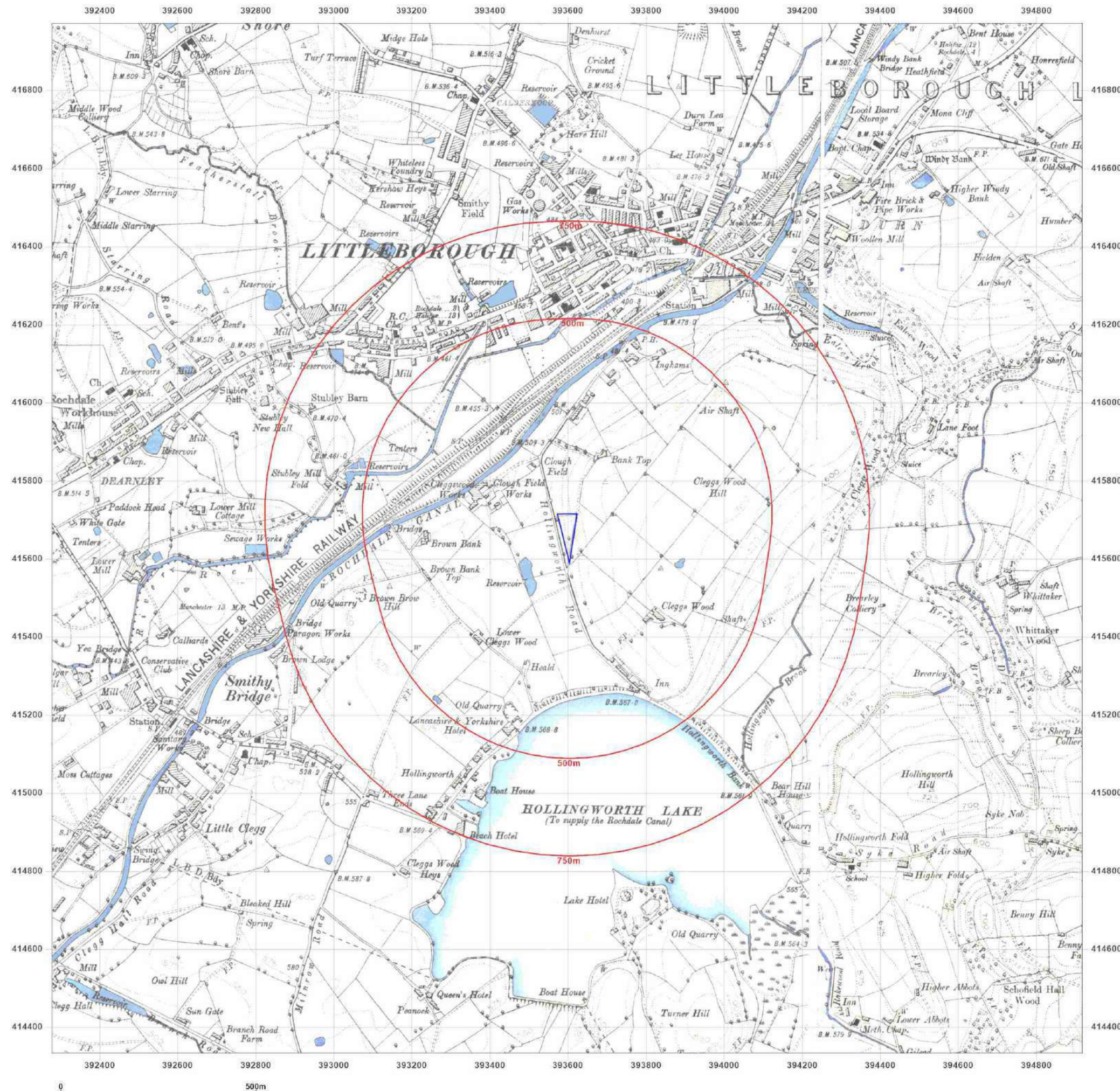


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Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: County Series

Map date: 1890-1892

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1890
Revised 1890
Edition N/A
Copyright N/A
Levelled N/A

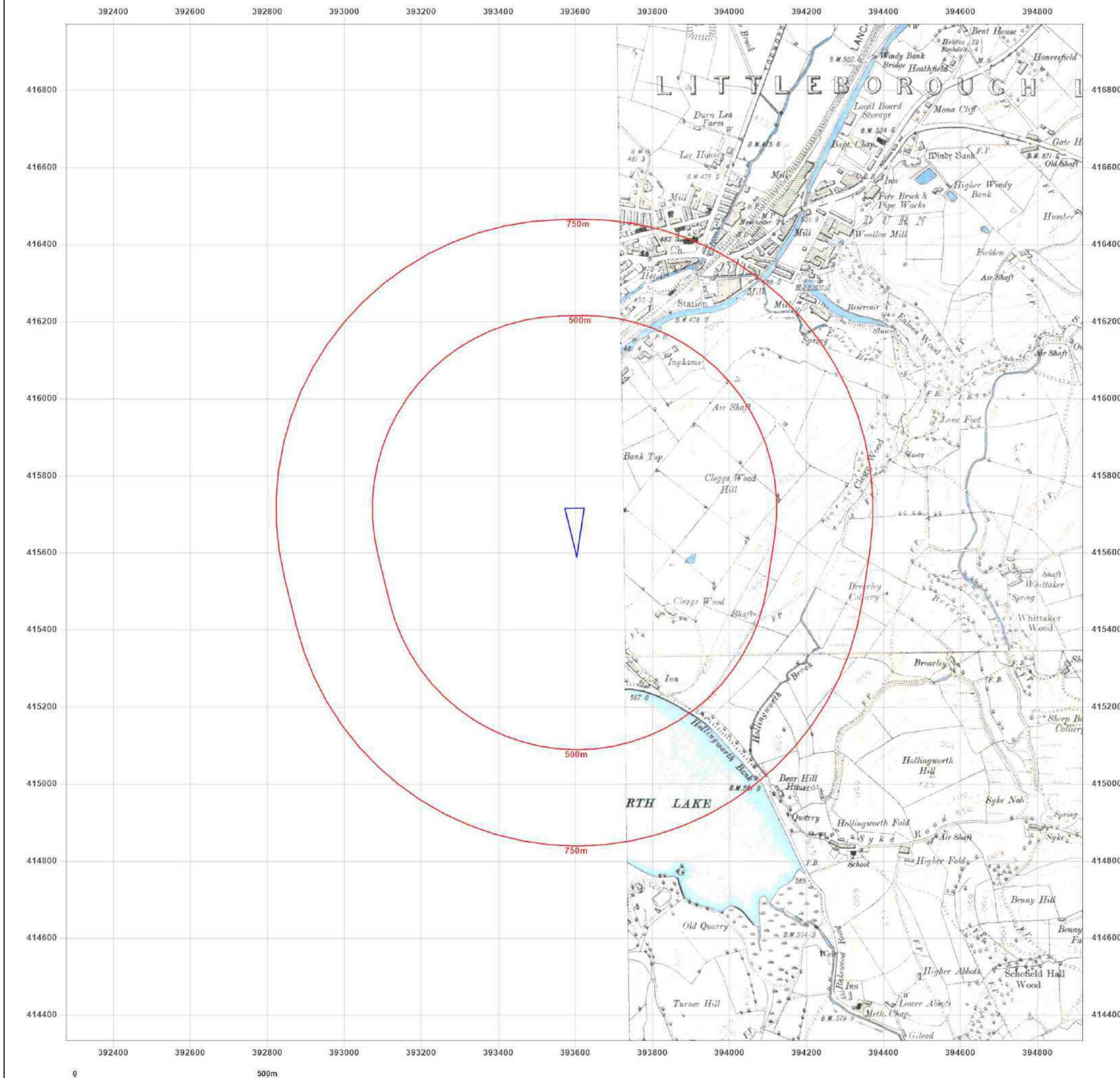


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Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: County Series

Map date: 1908-1909

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848
Revised 1908
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1847
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

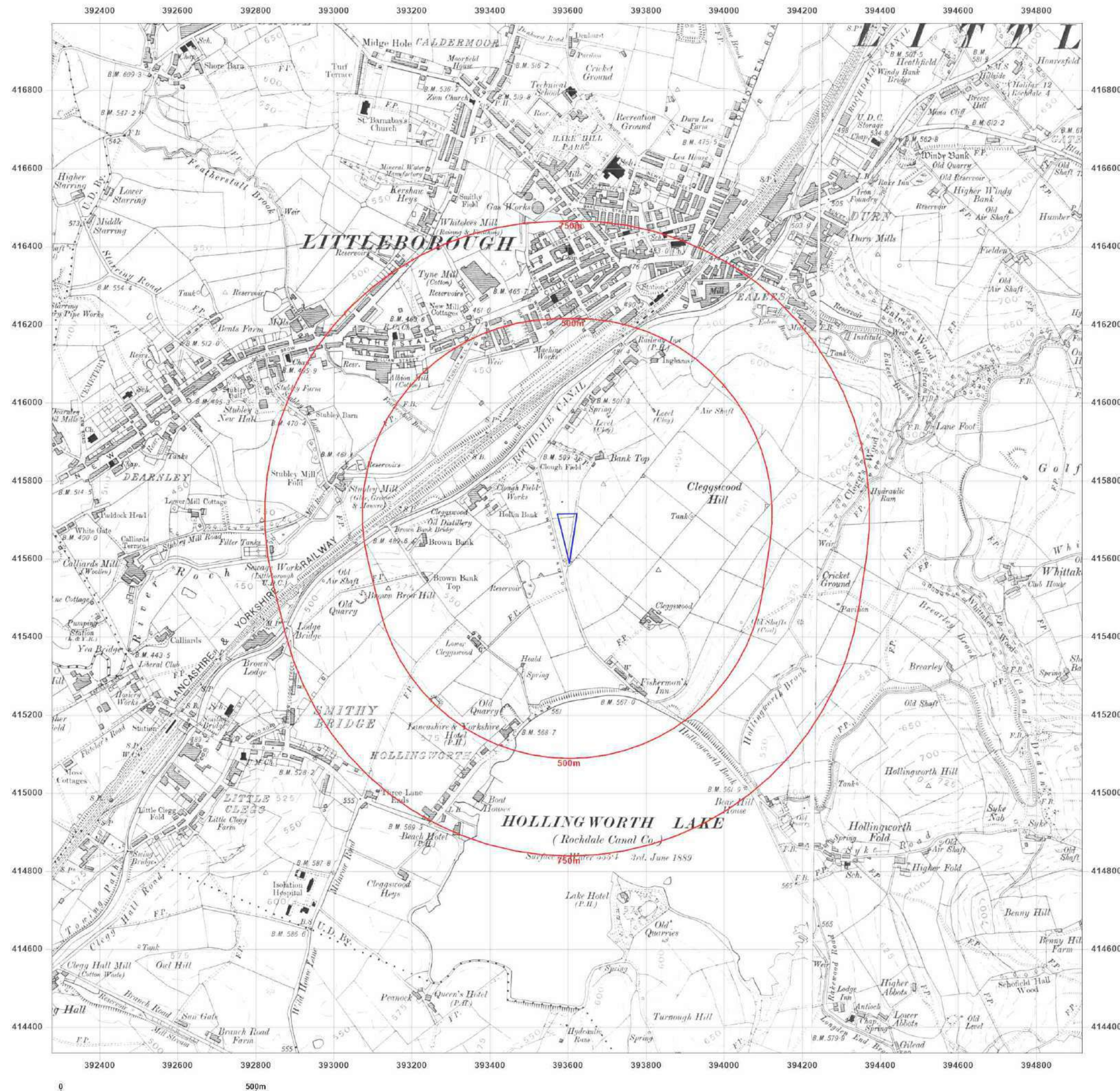


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Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: County Series

Map date: 1910-1911

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1849
Revised 1911
Edition 1911
Copyright N/A
Levelled N/A

Surveyed 1849
Revised 1910
Edition 1910
Copyright N/A
Levelled N/A

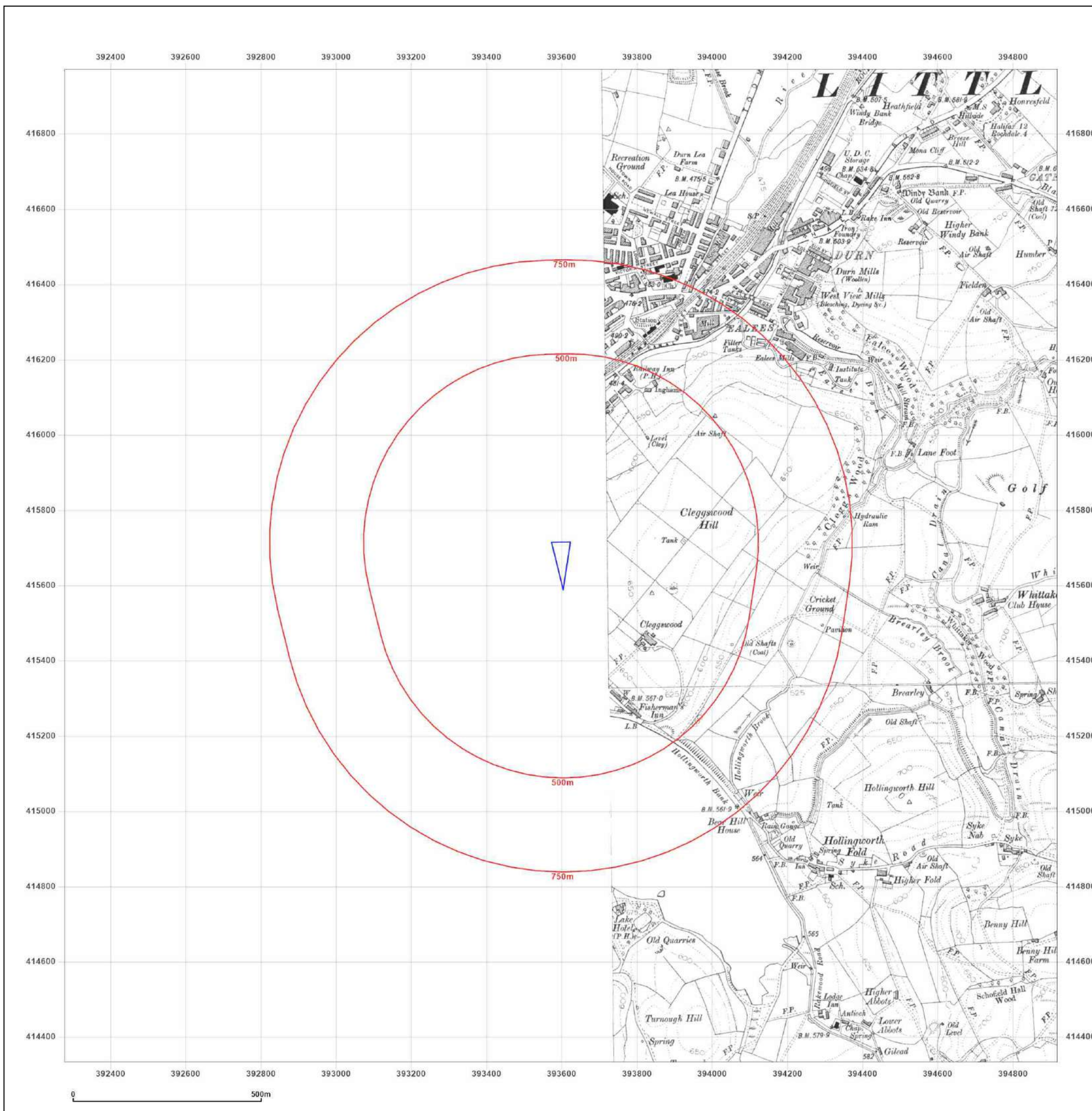


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LITTLEBOROUGH, OL15 0AU

Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: County Series

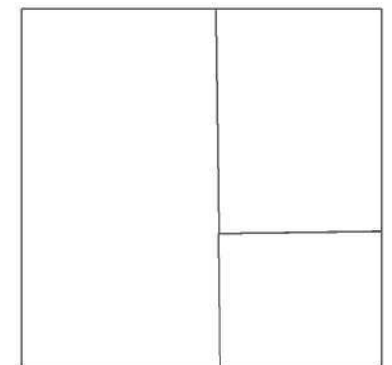
Map date: 1910-1911

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1849
Revised 1911
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1849
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

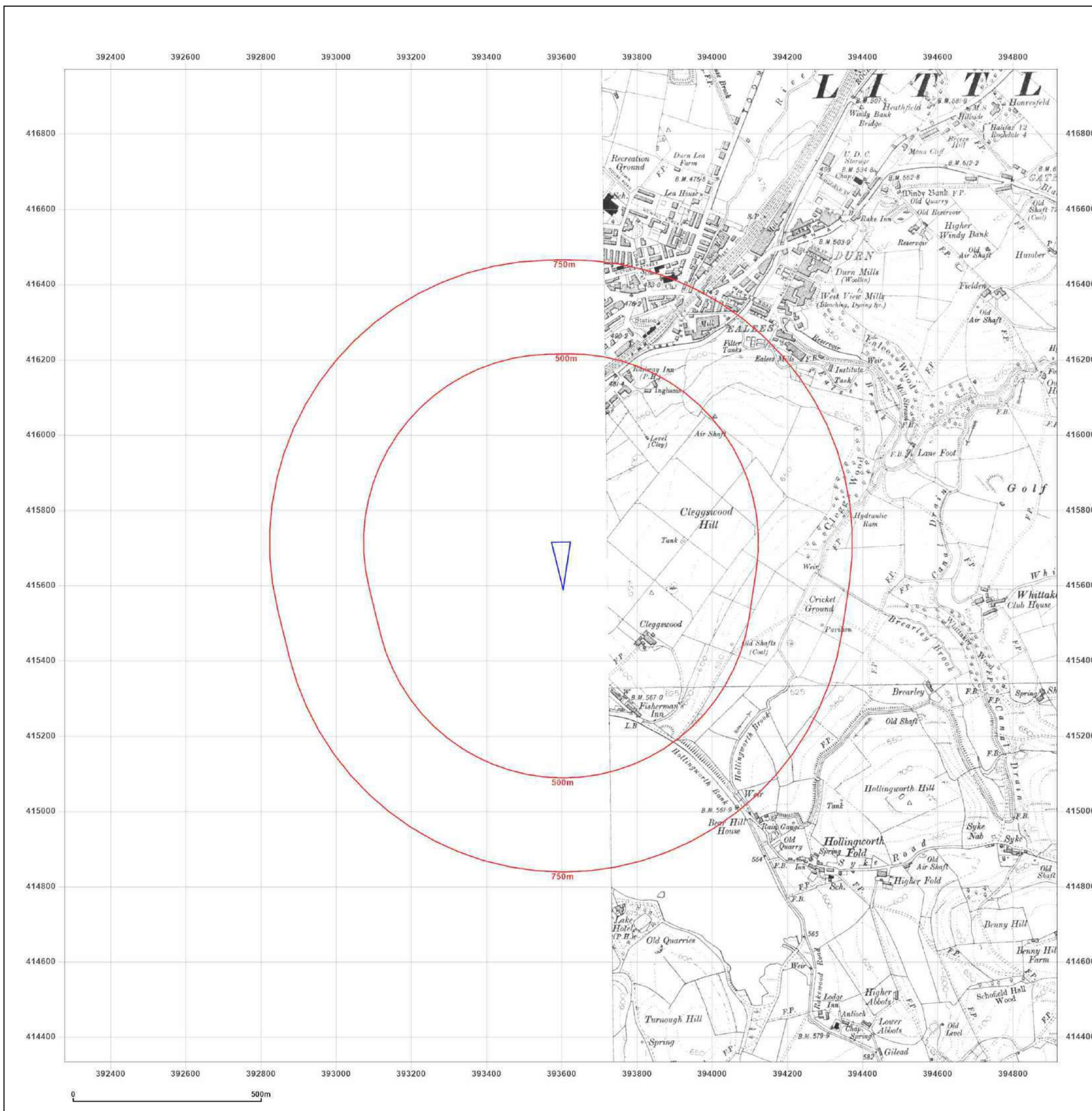


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Site Details:

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LITTLEBOROUGH, OL15 0AU

Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: County Series

Map date: 1928-1930

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848
Revised 1928
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1847
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

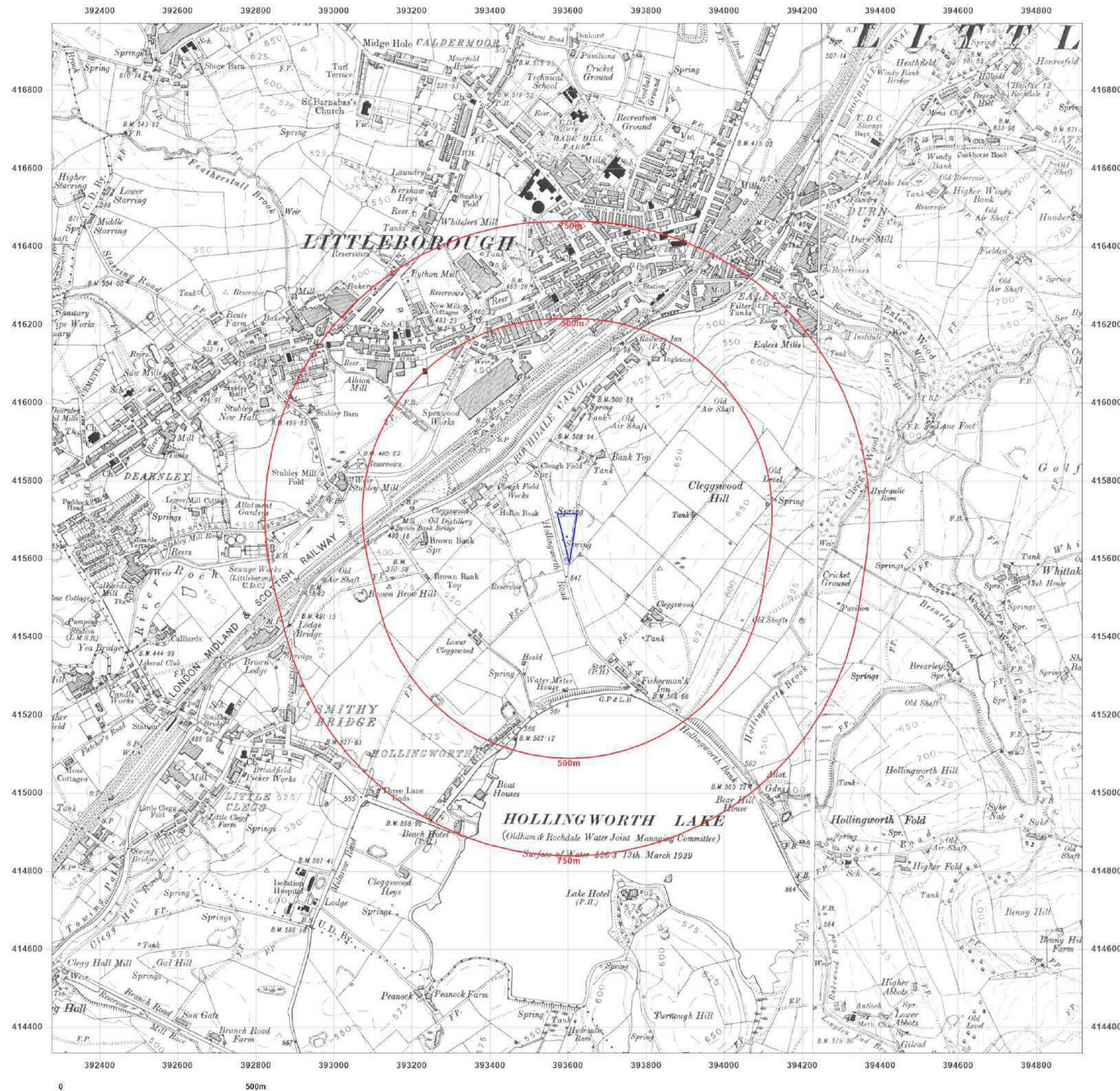


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LITTLEBOROUGH, OL15 0AU

Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

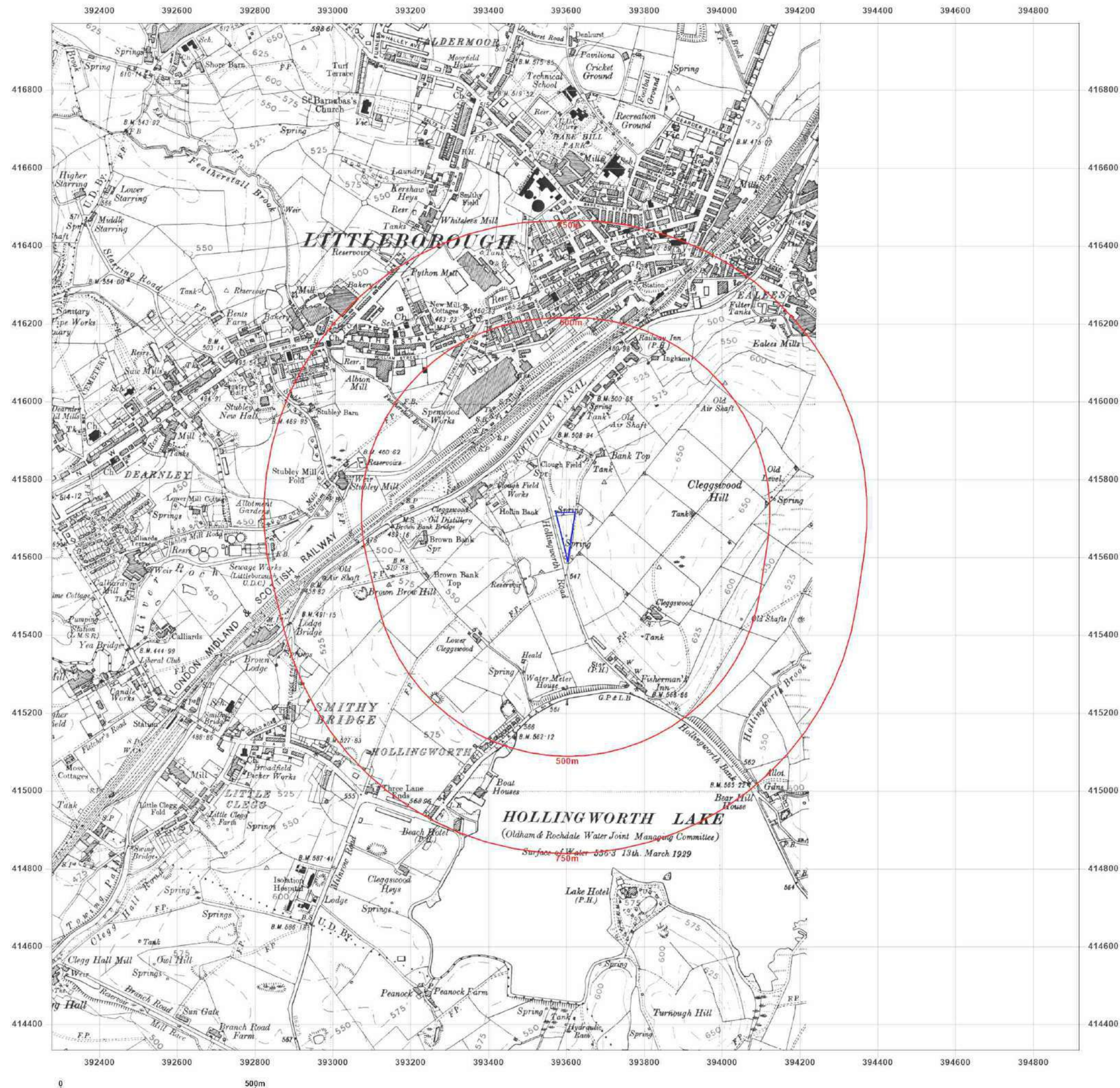


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Site Details:

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Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: Provisional

Map date: 1949-1954

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1949
Revised 1949
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1954
Revised 1954
Edition N/A
Copyright N/A
Levelled N/A

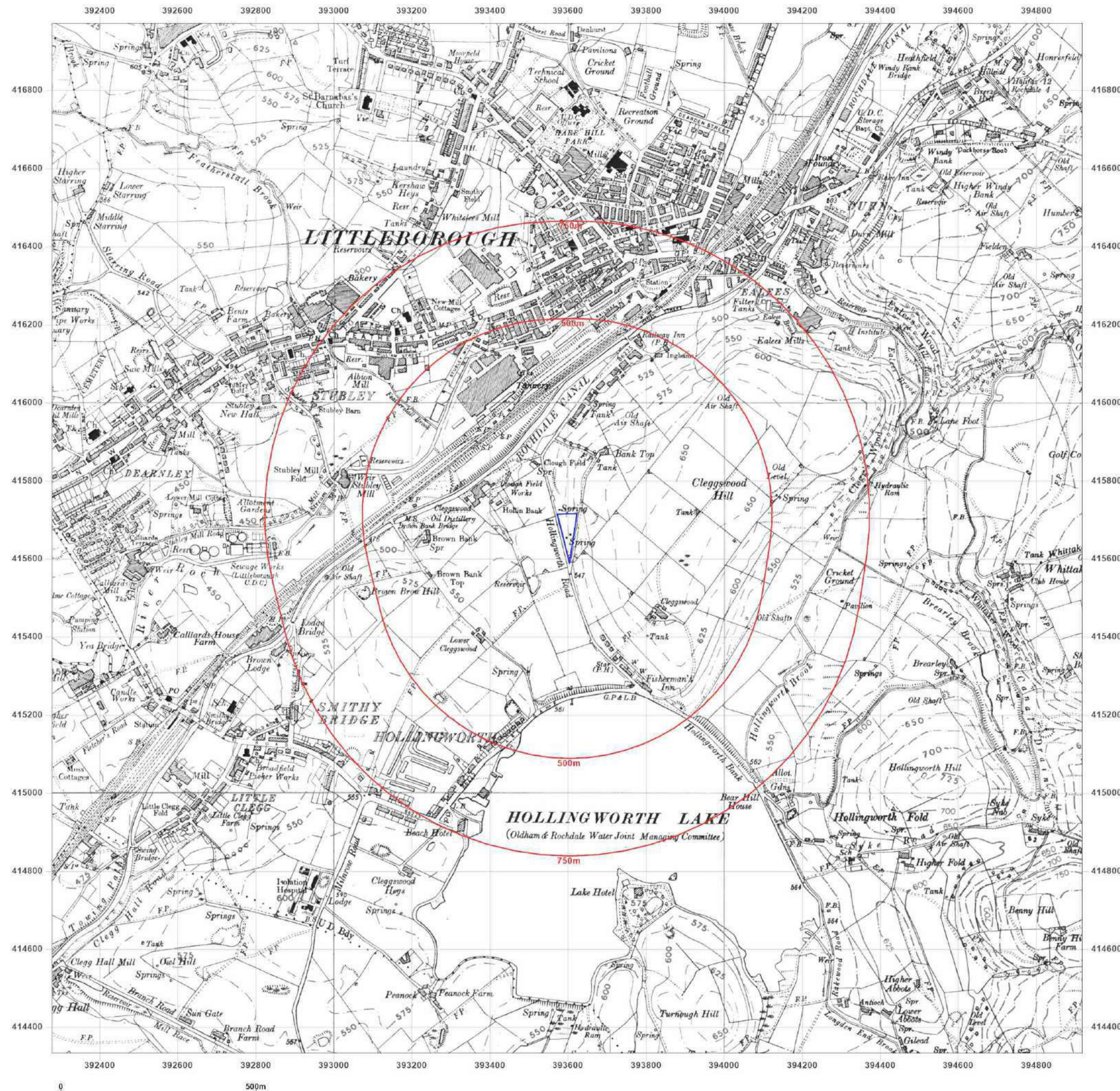


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Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: Provisional

Map date: 1967-1968

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1968
Revised 1968
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1967
Revised 1967
Edition N/A
Copyright N/A
Levelled N/A

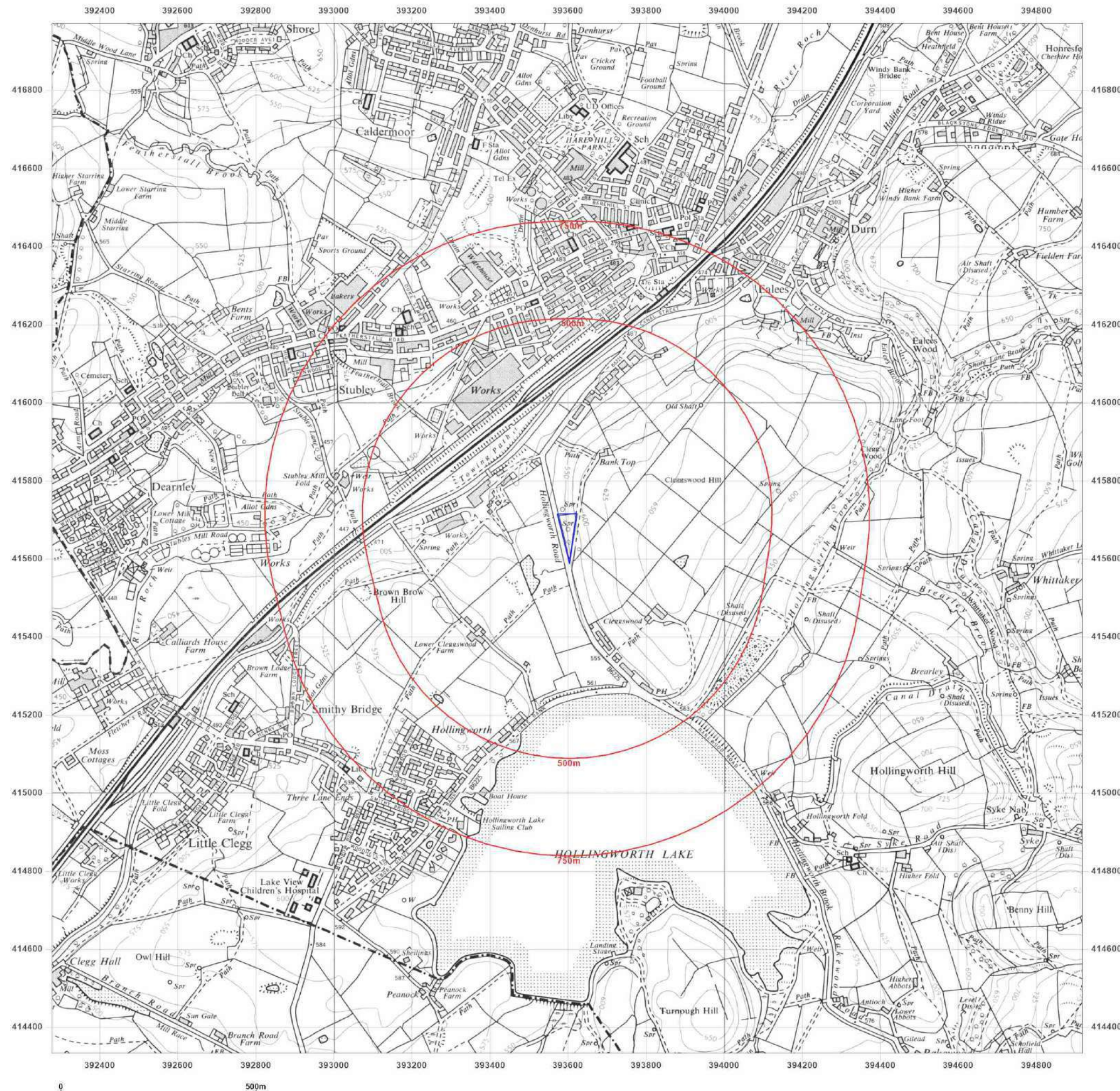


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Site Details:

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LITTLEBOROUGH, OL15 0AU

Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: National Grid

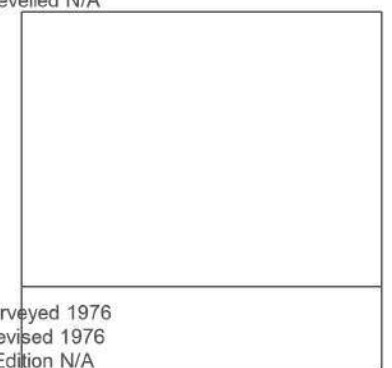
Map date: 1976

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1975
Revised 1976
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1976
Revised 1976
Edition N/A
Copyright N/A
Levelled N/A

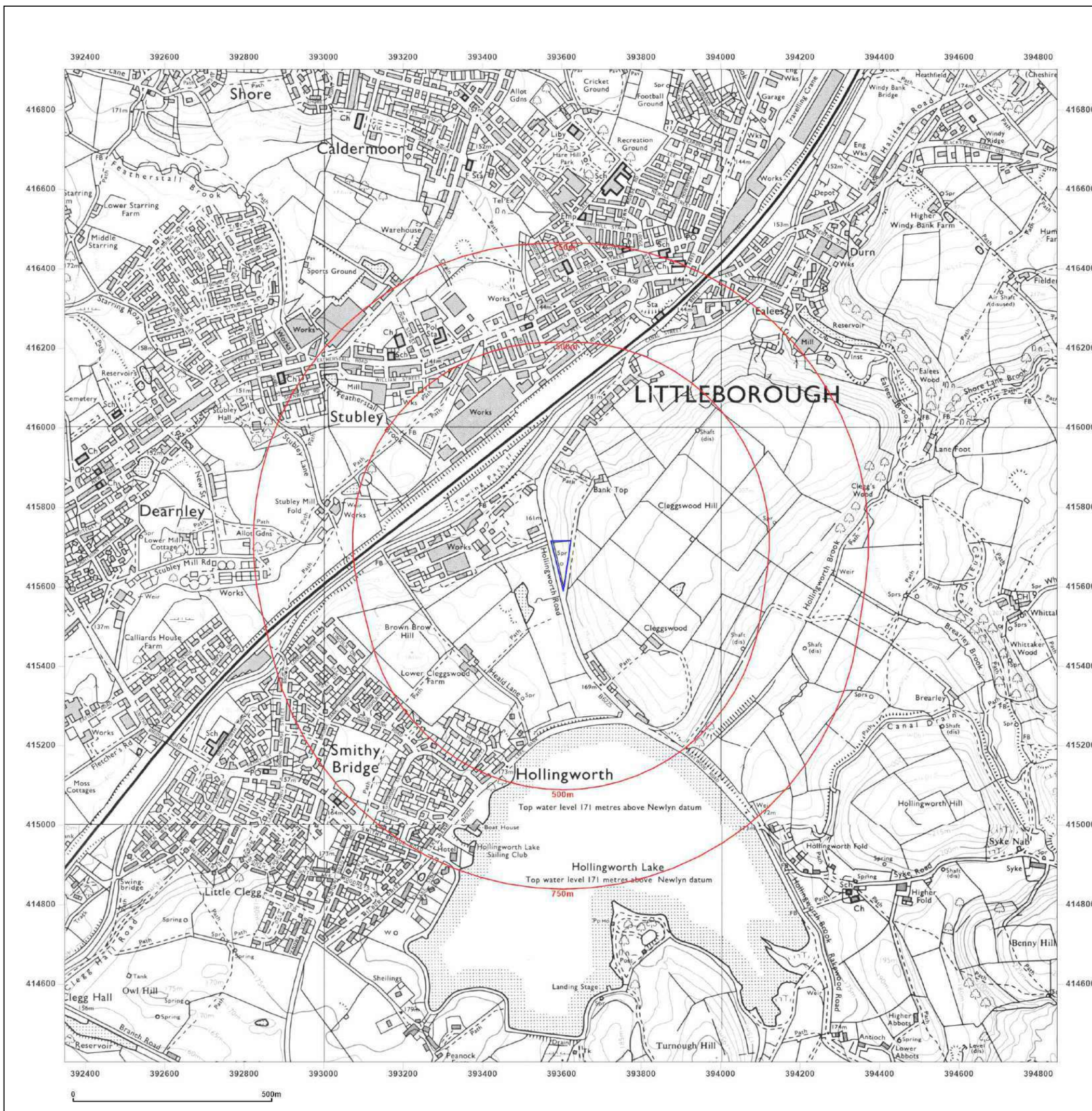


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Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: National Grid

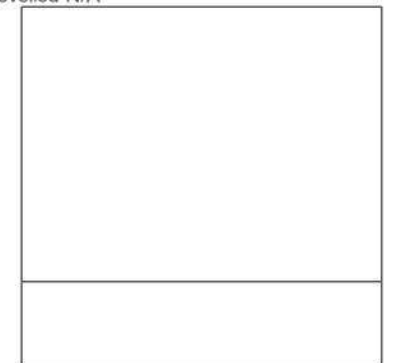
Map date: 1989

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1983
Revised 1989
Edition N/A
Copyright N/A
Levelled N/A

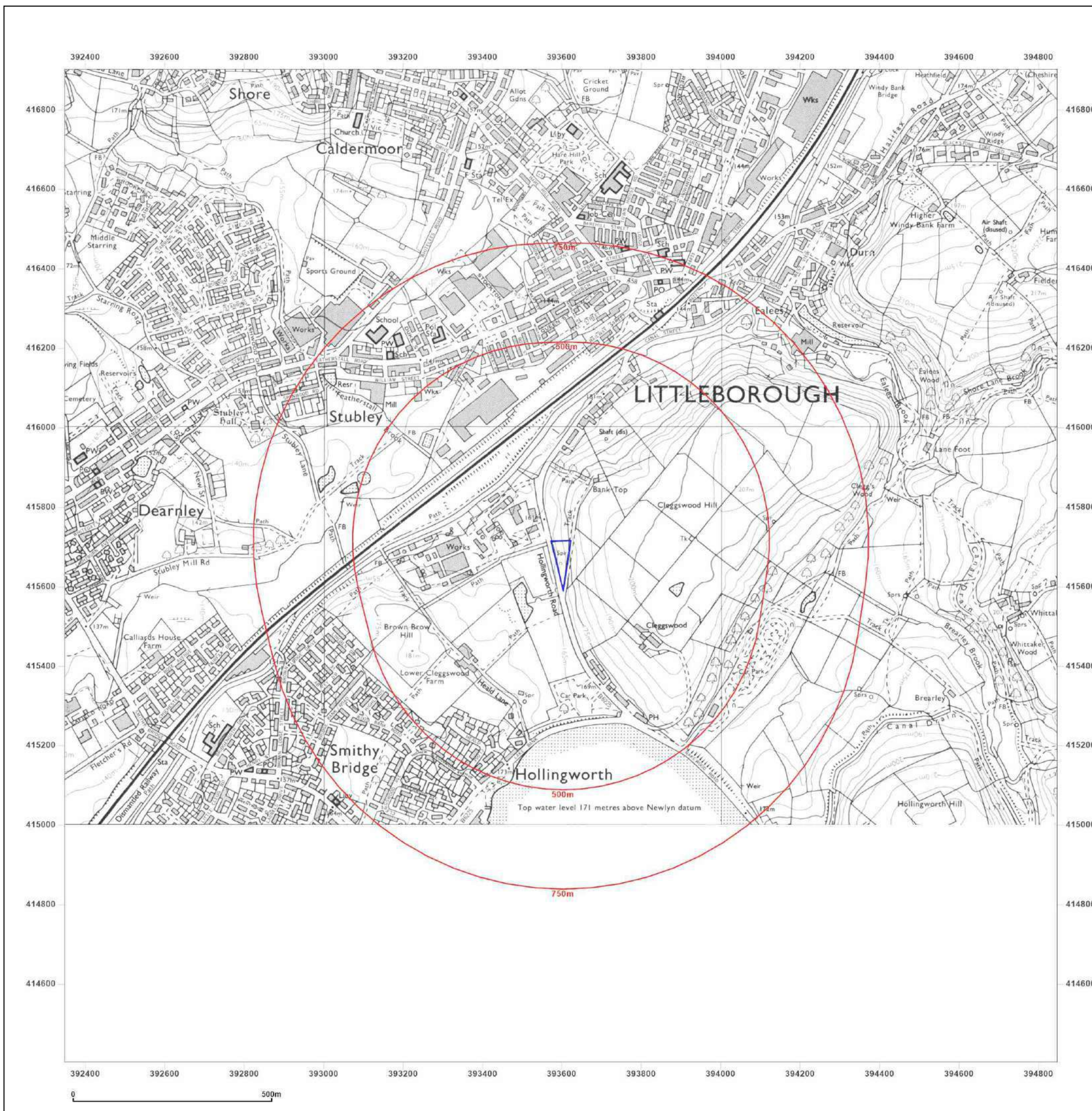


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Production date: 15 February 2022

Map legend available at:
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Site Details:

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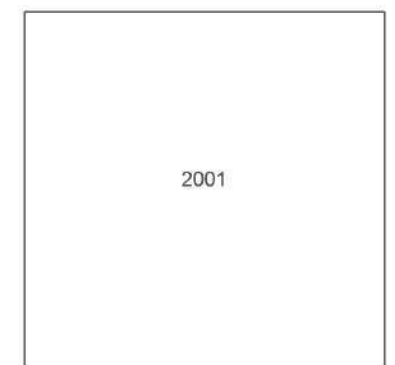
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Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

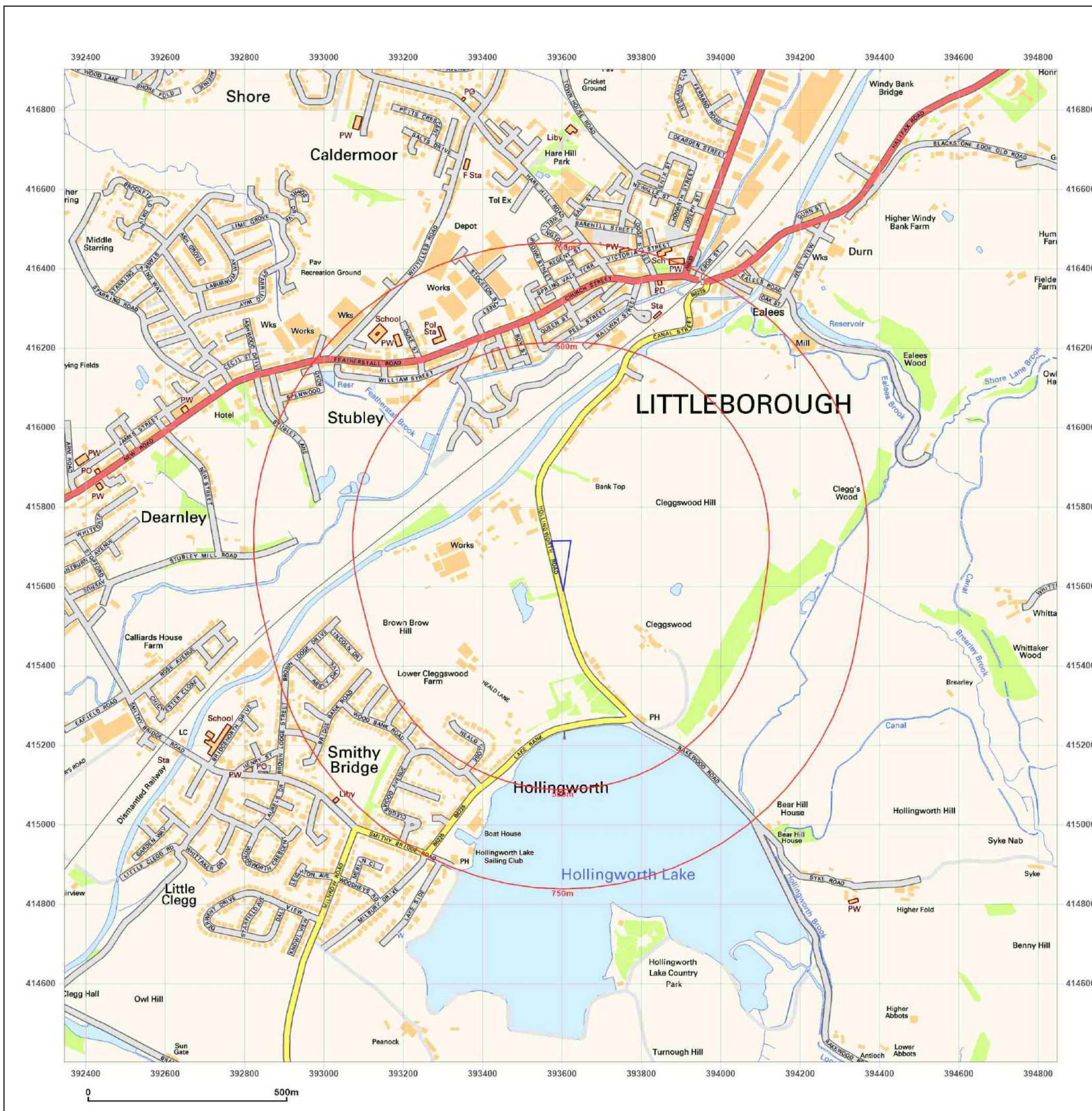


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Site Details:

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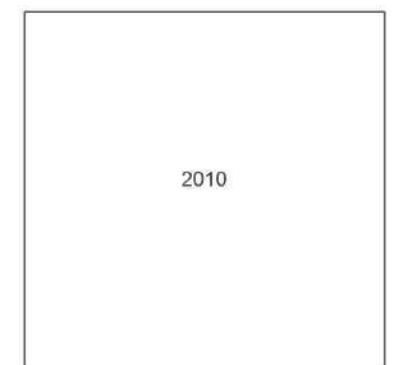
Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

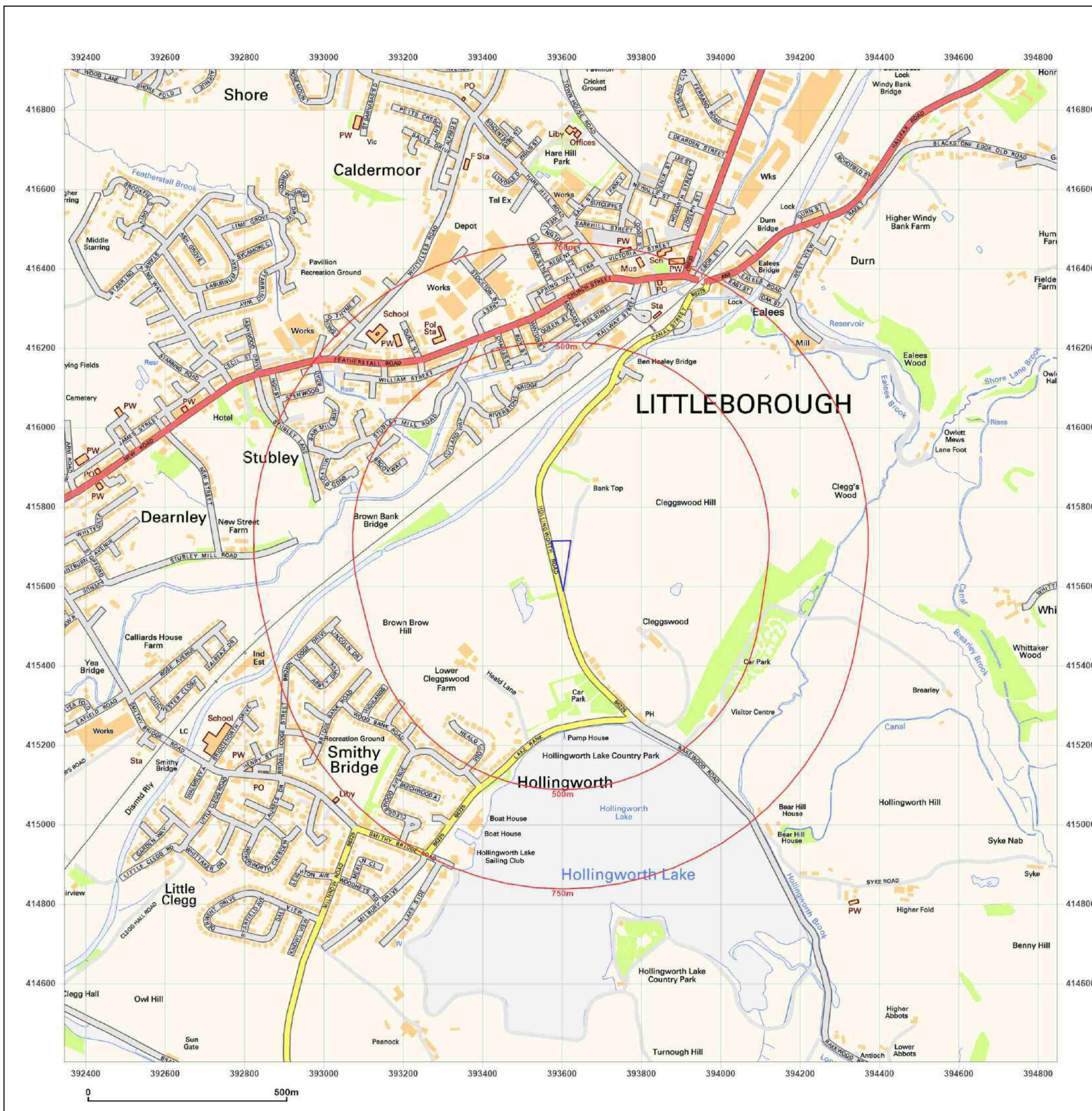


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HOLLINGWORTH ROAD,
LITTLEBOROUGH, OL15 0AU

Client Ref: 7357-22019-JE
Report Ref: GS-8520809
Grid Ref: 393597, 415652

Map Name: National Grid

Map date: 2022

Scale: 1:10,000

Printed at: 1:10,000



2022



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