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Ground Investigation Report

Land at Milton Place, Gravesend, DA12 2BH

Hills Partnership Ltd

Report Reference: GWPR6764/GIR/December 2025 V1.01			Status: Final
Issue	Prepared By	Checked By	Verified By
V1.01	[redacted]	[redacted]	[redacted]
	Toby Dobson-Smith BSc Geotechnical and Geoenvironmental Engineer	Simon Harlow BSc (Hons) FGS Lead Ground Investigation Engineer	Francis Williams MGeol (Hons) FGS CEnv CGeol Director

Site Investigations | Environmental Consultants | Geotechnical Engineers

2 The Long Barn, Norton Farm, Selborne Road, Alton, Hampshire GU34 3NB
0333 600 1221 enquiries@groundandwater.co.uk **groundandwater.co.uk**

Registered Office: Kineton House, 31 Horse Fair, Banbury, Oxfordshire OX16 0AE. Registered in England No. 07052001

2 The Long Barn,
Norton Farm, Selborne Road,
Alton, Hampshire GU34 3NB
0333 600 1221
enquiries@groundandwater.co.uk
groundandwater.co.uk

Ground Investigation Report (GWPR6764/GIR/December 2025 V1.01)	
REPORT REFERENCE	The conditions and limitations of this geotechnical report can be viewed within Appendix A, with A technical glossary has also been provided within Appendix C. The investigation was to be undertaken to provide parameters for the design of foundations by means of in-situ and laboratory geotechnical testing undertaken on soil samples recovered from trial holes. A full scale Environmental Desk Study and Contamination Assessment including a gas risk assessment were not part of the remit of this report; however Included within the fee proposal was an allowance to undertake chemical laboratory testing on soil samples recovered from the site to enable recommendations for the safe redevelopment of the site and the protection of site workers, end-users and the public from any potential contamination identified. The techniques adopted for the investigation were chosen considering the requirements of the client, anticipated ground conditions, and bearing in mind the nature of the site, limitations to site access and other logistical limitations.
SITE DETAILS	The site comprised a ~12200m^2 irregular shaped plot of land, situated along the western side of Milton Place and to the north of Ordnance Road. The site was located in Gravesend, a mainly residential town West of London, situated along the River Thames. A site location plan has been provided within Figure 1. The site can be accessed off Ordnance Road, the strip of hardstanding utilised for car parking within the southern boundary. Within the site boundaries comprised an in-use tarmac carpark, in the northwest, a closed off tarmac carpark in the southwest, a large open grassed area in the middle and skatepark with mounted earth in the east. The site is bordered by Milton Place to the west, Ordnance Road to the south and Gordan Gardens park to the north. A view of the site development area has been provided within Figure 3, with an aerial view of the site provided in Figure 1.
PROPOSED DEVELOPMENT	At the time of reporting, December 2025, the proposed development was understood to comprise the construction of 61No. units within a 4-storey apartment block and 15No. 2 and 3 storey residential houses with private gardens, associated car parking and areas of soft landscaping. A proposed development plan is displayed within Figure 2.
HISTORICAL MAPPING	Earliest mapping shows in 1866, shows the site had already undergone development with the construction of the Trinity Church present in the southwest corner of the site. The remainder of the site was undeveloped, however the surrounding areas to the west and south had undergone large residential developments. By 1897, a school had been constricted adjacent to the church in the southwest of the site. The rest of the site was marked as a cricket and football ground, with a small pavilion constructed along the south-eastern boundary. In 1932, a large school building was constructed south of the southern boundary. The empty field to the north of the site, known as the Gordon Recreational Grounds, underwent earthworks to create a

2 The Long Barn,
Norton Farm, Selborne Road,
Alton, Hampshire GU34 3NB
0333 600 1221
enquiries@groundandwater.co.uk
groundandwater.co.uk

	linear pond, and the construction of various buildings within the property. A sawmill is present to the east of the site. By 1953, the majority of the site has undergone development, with the construction of the Municipal Bathing Pool, paddling pool, slipper baths, and the pool administration building. The Trinity Church and adjacent school was demolished by the 1969 mapping, leaving the southeastern corner of the site empty/infilled. A telephone exchange building was also constructed to the south of the southern boundary. The sawmill to the east of the site has been replaced by a chemical works. No significant changes were noted until 1993, when mapping shows all development across the site has been demolished and removed. From site investigations, we know the swimming pool complex has been infilled with demolition material. Further ponds have been excavated to the north of the site within Gordons Gardens and the chemical works plant to the east of the site was replaced by a depot. Within the western portion of the site, a carpark has been constructed. No further changes to the site were noted in the latest historical mapping in 2003. Historical maps, obtained from GroundSure, can be viewed within Appendix D.
ANTICIPATED GEOLOGY AND HYDROGEOLOGY	The British Geological Survey (BGS) maps for the area suggest that the site was located on the Superficial Head Deposits, classified as a Secondary A Superficial Aquifer, overlying Seaford Chalk Formation, classified as Principal Bedrock Aquifer. Based on this, it was anticipated that groundwater is to be encountered at depth with the Seaford Chalk Formation, or potentially perched within a shallow cohesive band within the superficial Head Deposits. The main groundwater table though is expected within the principal aquifer at depth. A BGS borehole record in similar geology ~40m south of the site (ref.: TQ67SE47) noted sandy gravelly clay to 3.60m bgl, overlying chalk for the remaining depth of the trial hole (24.60m bgl). No groundwater was encountered.
PREVIOUS SITE INVESTIGATIONS	A previous Phase 2 Geo-Environmental Assessment by Create Consulting Engineers Limited (referenced: Ref: AW/CS/P23-2862/02 Rev A), was undertaken at the site in January 2024 regarding the proposed development. The report consisted of an intrusive ground investigation as well as geotechnical and chemical laboratory testing. The purpose of this site investigation and report is to address the recommendations outlined in AW/CS/P23-2862/02 Rev A, and provide additional geotechnical information pertinent to the site. A summery of the previous recommendations relevant to this geotechnical report can be seen below: • On removal of any below ground structures, if significant earthworks are required, targeted laboratory geotechnical testing would be recommended and a detailed earthworks specification prepared.
SITE WORKS	Site works were undertaken on 01st October, 28th October and 27th-28th of November 2025 and comprised:

2 The Long Barn,
Norton Farm, Selborne Road,
Alton, Hampshire GU34 3NB
0333 600 1221
enquiries@groundandwater.co.uk
groundandwater.co.uk

- the drilling of 2No. Rotary Boreholes (TP4(BH1) – TP5(BH2)) to 4.00m bgl. Standard Penetration Testing was undertaken at ~1.00m intervals. Initial trial pits into the backfilled swimming pool where hampered by the thickness and strength of the concrete. Therefore it was necessary to rotary core these positions.
- 8No Machine excavated Trail Pits to depths ranging from 1.50m to 2.00m bgl (TP1-TP3, TP6-TP10) with BRE365 soakage testing carried out in TP1-TP3.
- A combination of geotechnical and chemical laboratory testing was undertaken within the trail pits and rotary boreholes.

GROUND CONDITIONS ENCOUNTERED

A summary of the ground conditions encountered has been summarised in the following table. The trial hole logs can be seen within Appendix E.

Summary of Strata Encountered			
Strata	**Top Depth (m bgl)**	**Base Depth (m bgl)**	**Thickness (m)**
TOPSOIL: Light brown gravely SAND. Sand is fine to coarse. Gravel is fine to coarse consisting of angular to subangular flint. (No Topsoil in TP6 or TP7).	GL	0.1 – 0.40	0.10 – 0.40
MADE GROUND: Brown and grey, gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to cobble, consisting of angular to subangular brick, rock, flint, concrete hardcore. (No Made Ground in TP1-TP3).	0.05 – 0.30	0.70 – 1.40	0.40 – 1.35
MADE GROUND (SWIMMING POOL INFILL TP4 – TP5): Brown, sandy clayey GRAVEL. Sand is fine to coarse, gravel is fine to boulder, consisting of angular to subangular concrete, brick, flint.	0.10	2.50	2.40
HEAD DEPSOITS: Dark brown, gravely chalky SAND. Sand is fine to coarse. Gravel is fine to coarse consisting of angular to subangular flint. (TP3).	0.20	0.60	0.40
HEAD DEPSOITS: Orangish brown, sandy CLAY. Sand is fine to coarse. (TP8, TP9 and TP10).	0.15 – 0.70	0.70 – >1.50	0.55 – >0.80
SEAFORD CHALK FORMATION: Structureless CHALK composed of slightly silty subangular to sub rounded GRAVEL. Clasts are upper end of weak, low to medium density, cream with occasional brown staining (Grade Dc). (No Chalk was encountered in TP9 and TP10).	0.20 – 0.30	0.85 – 1.20	0.65 – 0.90
SEAFORD CHALK FORMATION: Weak, medium density, white with occasional black specks, structured CHALK. Fractures closely spaced (30mm, 55mm, 70mm) and open 3mm. Fractures horizonal and sub horizontal and 80° to vertical. No Discernible fracture sets (MEDIUM DENSITY, GRADE C4) (TP4 and TP5).	2.80	<5.00	<2.20

GROUNDWATER

Groundwater was no encountered within any trail pit or rotary borehole.

Changes in groundwater level occur for a number of reasons including seasonal effects and variations in drainage. The investigation was undertaken in October – November 2025 when groundwater levels

2 The Long Barn,
Norton Farm, Selborne Road,
Alton, Hampshire GU34 3NB
0333 600 1221
enquiries@groundandwater.co.uk
groundandwater.co.uk

are likely to be approaching their annual maximum (highest elevation). Exact groundwater levels may only be determined through long term measurements from monitoring wells installed on-site.

ROOTS

Fresh roots were proven to 0.30 bgl within all investigation holes except TP6. The depths of root penetration can be seen tabulated below.

Summary of Root Penetration	
Trial Hole	**Fresh Root Depth (m bgl)**
TP1	0.30
TP2	0.30
TP3	0.30
TP4 (BH1)	0.30
TP5 (BH2)	0.30
TP6	NA
TP7	0.30
TP8	0.30
TP9	0.30
TP10	0.30

The site and its immediate environs were noted to contain a number of existing trees and vegetation. Therefore, it should be noted that roots may be found to greater depths at other locations on the site, particularly close to trees and/or trees that have been removed both within the site and its close environs.

IN-SITU STRENGTH TESTING

A summary of the in-situ strength testing conducted has been summarised in the following table.

Interpretation of In-situ Geotechnical Testing Results					
Strata	**SPT "N" Blow Counts or Equivalent SPT "N Value from DP**	**Equivalent Undrained Shear Strength (Cu) (kPa)**	**Soil Type**		**Trial Hole/s**
			Granular (Density)	**Cohesive (Cu)**	
Seaford Chalk Formation	27-30	-	Dense	-	TP4/5.00 – 5.45m bgl TP5/4.50 – 4.95m bgl

SATURATED MOISTURE CONTENT

Saturation Moisture Content of Chalk Test

A précis of Saturation Moisture Content of Chalk testing undertaken can be seen in the following table. The test results are presented within Appendix F.

Saturation Moisture Content of Chalk Tests Results Summary					
Stratum	**Moisture Content (%)**	**Bulk Density (Mg/m3)**	**Dry Density (Mg/m3)**	**Saturated Moisture Content %**	**CIRCA Density Classification**
Seaford Chalk Formation	28 - 32	1.89 – 1.94	1.46 – 1.52	29 - 32	Low Density
• ***All results are non-standard due to the excavation process affecting the chalk**					

2 The Long Barn,
Norton Farm, Selborne Road,
Alton, Hampshire GU34 3NB
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enquiries@groundandwater.co.uk
groundandwater.co.uk

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CONTAMINATION	An un-targeted set of samples (4No. Made Ground, 3No. Head Deposits and 1No Chalk Deposit) were submitted to the accredited chemical laboratory for analysis. The results can be viewed in Appendix G. Based on the proposed development, the results of the chemical laboratory testing were compared to the Generic Assessment Criteria (GAC) for a 'Residential with homegrown produce' land-use scenario, as this was considered the most appropriate land-use scenario. Chemical laboratory testing indicated no elevated levels of determinands exceeding the Generic Assessment Criteria (GAC) for a 'Residential with Homegrown Produce' land-use scenario. Chrysotile asbestos was detected in TP9 at 0.50m bgl. Following the detection of asbestos in the soil an asbestos quantification test was carried out on VS2, which found the percentage of detected Chrysotile asbestos to be less than 0.0001%. An Asbestos Risk Assessment (CIRIA733) can be seen in Appendix D, shows the risk to residents, groundworkers and general end-users to be insignificant.
CHALK DISSOLUTION AND MINING RISK ASSESSMENT	The presence of dissolution features on-site can prove problematic, as they often provide inconsistency within the underlying geology. Often formed during glacial and periglacial conditions, the depth and width of these features can vary substantially, often providing inconsistency in geological strength data. If a dissolution feature is suspected, a geotechnical engineer and structural engineer should be contacted for suitable engineering designs, based on further works identifying and classifying the area the feature occupies. A review of Desk based information revealed the following, which may be pertinent to this risk assessment. • The site was classified as a low risk of ground dissolution of soluble rocks. Approximately 47m south of the site was an area of high risk of ground dissolution of soluble rocks. • An on-site Class A Historical Non-Coal Mining area was identified on-site; however, this is generally a precautionary statement attributed to all areas associated with chalk within the ground profile. Therefore, this does not identify any underground chalk features at the site location. • 1No natural cavity was noted 399m from the site. • No records of Britpits were noted within 500m radius of the site. • 4 records of surface ground workings were noted within the site from 1955-1981 all consisting of a Pond. 56 records of surface ground were noted within 250m from the site. These were mainly unspecified ground workings, or cuttings to the north, south and northeast. • No records of underground workings, mining cavities or JPB mining areas were noted within a 500m radius of the site. • The historical mapping review undertaken in section 3.1 of this report confirmed the findings of the Groundsure datasheets discussed above.

2 The Long Barn,
Norton Farm, Selborne Road,
Alton, Hampshire GU34 3NB
0333 600 1221
enquiries@groundandwater.co.uk
groundandwater.co.uk

	• LIDAR data showed no evidence of dissolution features was noted within the site. • The Edmonds Procedure (Edmonds, C.N., 2001. Predicting natural cavities in chalk. Geological Society, London, Engineering Geology Special Publications, 18(1), pp.29-38.); highlighted a high subsidence hazard classification. The site investigation encountered a 200 - 400mm capping of Topsoil overlying either Made ground or cohesive Head Deposits to ~0.20 – 1.50m bgl, underlain by the Seaford Chalk Formation for the remaining depth of all boreholes, except TP9 and TP10 (maximum depth of 5.45m bgl). In-situ testing classified the Seaford Chalk Formation as being dense, with SPT values ranging from 27 – 30. No soft spots were encountered. The depth of chalk was not established within TP9 or TP10, with Head Deposits reaching >1.50m bgl. The depth of chalk should be established within this area. As a result of the desk-based review of the site, based on collective information to date and the competent ground encountered to a moderate depth, in combination with the size of the site, it is likely that dissolution features that would technically affect the buildings, would be present.
FOUNDATION RECOMMENDATIONS	A summary of the findings from the site investigation, relevant to foundation recommendations, can be seen below: • Foundations should be taken through any Made Ground/Topsoil and constructed either into, or onto a suitable underlying natural stratum of adequate bearing characteristics. • Foundations should be designed in accordance with soils of medium volume change potential within the Head Deposits, and no volume change potential within the Seaford Chalk Formation. • Given the presence of cohesive soils at shallow depth, special foundation precautions may be required to prevent possible future shrinkage/swelling of the soils affecting the integrity of the faces of foundations (underfloor void diameter/compressible material/void formers etc). A compressible layer may be required be provided to accommodate potential seasonal movement, based on NHBC guidance. • Due to the shallow soils having volume change potential and Made Ground thickness is more than 600mm, a suspended slab is required. • The loads of proposed foundations should not exceed the allowable bearing capacity of the soils they are founding upon. • Foundations must not be placed within fresh root penetrated and/or desiccated soils with volume change potential. It is recommended that foundations are taken at least 300mm into non-fresh root penetrated strata if the soils have volume change potential, or into soils of no volume change potential. • The influence of trees on or surrounding the site will need to be taken into account in final design (NHBC Standards Chapter 4. 2). • Any water ingress must be prevented from entering foundation trenches and excavations must be kept dry and either concreted or blinded as soon after excavation as possible. If water were allowed to accumulate within the excavation for even a short period of time, an increase in heave occur. The shear strength will also be reduced, resulting in lower bearing capacities,

2 The Long Barn,
Norton Farm, Selborne Road,
Alton, Hampshire GU34 3NB
0333 600 1221
enquiries@groundandwater.co.uk
groundandwater.co.uk

resulting in increased settlements. Instability issues may arise within the foundation trenches, in case of perched water being present.

SHALLOW FOUNDATIONS

Based on the above, foundations should bypass any Made Ground/Topsoil and soft spots/loose granular soils, before extending 300mm below the proved depth of root penetration. Foundations would therefore be constructed on competent, moisture stable soils of the London Clay Formation. A tabulated summary showing the minimum foundation depth based on each trial hole can be viewed in the following table.

Summary of Minimum Foundation Depths

Trial Hole	Minimum Foundation Depth (m bgl)	Founding Geological Formation	Reason
TP1	0.60	Seaford Chalk Formation	Foundations should bypass Topsoil and extend 300mm below the depth of root penetration (0.3m bgl), before founding on competent soils at a moisture stable depth.
TP2	0.60	Seaford Chalk Formation	Foundations should bypass Topsoil and extend 300mm below the depth of root penetration (0.3m bgl), before founding on competent soils at a moisture stable depth.
TP3	0.60	Seaford Chalk Formation	Foundations should bypass Topsoil and extend 300mm below the depth of root penetration (0.3m bgl), before founding on competent soils at a moisture stable depth.
TP4 (BH1)	3.00	Seaford Chalk Formation	Foundations should bypass Made Ground, before founding on competent soils at a moisture stable depth.
TP5 (BH2)	3.00	Seaford Chalk Formation	Foundations should bypass Made Ground, before founding on competent soils at a moisture stable depth.
TP6	1.00	Seaford Chalk Formation	Foundations should bypass Made Ground, before founding on competent soils at a moisture stable depth.
TP7	1.50	Seaford Chalk Formation	Foundations should bypass Made Ground, before founding on competent soils at a moisture stable depth.
TP8	0.90	Seaford Chalk Formation	Foundations should bypass Topsoil before founding on competent soils at a moisture stable depth.
TP9	0.90	Head Deposits	Foundations should bypass Topsoil before founding on competent soils at a moisture stable depth.
TP10	0.90	Head Deposits	Foundations should bypass Topsoil before founding on competent soils at a moisture stable depth.

Foundations founded into Structureless Dc Chalk should allow a bearing capacity of 225kPa.

Foundations founded into the structured Dc (Grade C4) chalk within TP4 (BH1) and TP5 (BH2) should allow a bearing capacity of 240kPa.

A bearing capacity of 70kpa has been adopted for the Head Deposits overlying the site. Due to the limited extend of these Head Deposits, where possible foundations should be taken into the underlying Seaford Chalk formation.

2 The Long Barn,
Norton Farm, Selborne Road,
Alton, Hampshire GU34 3NB
0333 600 1221
enquiries@groundandwater.co.uk
groundandwater.co.uk

	Confirmatory shear vanes should be undertaken within the Head Deposits before founding, specifically for areas where chalk as not been reached (TP9 and TP10).
PILED FOUNDATIONS	Based on the results of the intrusive investigation, a piled foundation scheme was unlikely to be required. However, should deep Made Ground be encountered onsite, piles/minipiles, embedded into the underlying Seaford Chalk formation should be considered. The construction of a piled/minipile foundation is a specialised job and the advice of a reputable contractor familiar with the type of ground encountered on this site, should be sought prior to finalising the foundation design. The actual pile working load will depend on the particular type of pile and method of installation adopted. In general, for the cumulative pile capacity calculations, shaft friction over desiccated levels should be ignored and piles should not be terminated within desiccated soils where moisture recovery following could occur. The piles will need to be designed in accordance with the volume change potential of the soils encountered, depth of desiccation and root penetration. Temporary casing may be required where the upper portion of the pile passes through the Made Ground, particularly where perched water is encountered, to prevent necking of the concrete. **Piling Groundwater Risk Assessment** Given the geology at the site, piling may extend into the aquifer beneath the site, the potential for pathways to be present need to be considered. Review of the Wilson and Mortimer paper *Piled foundations and pathways for ground gas migration in the UK (ICE publishing – Environmental Geotechnics*), indicates that any preferential pathways for ground gases or contaminated water created by piles needs consideration for ground conditions and the nature of the pile utilised. An important consideration is the nature of the pile, whether it is a displacement or replacement pile. For there to be a preferential pathway for the movement of groundwater, a continuous open annulus is required around the piles installed. An open annulus will not form around piles during installation except for driven H and I piles. Cast in-situ piles are driven or bored and filled with wet concrete. The pressure exerted on the wet concrete will seal up any annulus around the pile, sealing any pathway. The Environment Agency recommend that CFA piling is undertaken on any site where contamination may be expected. Based on the above, the use of CFA piles or other cast in-situ piles should be adopted, which will not result in the downward migration of contamination within the groundwater.
EXCAVATIONS AND INSTABILITY	Shallow excavations in the Made Ground are likely to be marginally stable at best. Long, deep excavations, through these strata and into the underlying strata are likely to become unstable.

2 The Long Barn,
Norton Farm, Selborne Road,
Alton, Hampshire GU34 3NB
0333 600 1221
enquiries@groundandwater.co.uk
groundandwater.co.uk

Unsupported earth faces formed during excavation may be liable to collapse without warning and suitable safety precautions should therefore be taken to ensure that such earth faces are adequately supported before excavations are entered by personnel.

SURFACE WATER DISPOSAL

Soakage testing, following the principles of BRE365 was undertaken within the superficial deposits of the cohesive Head Deposits and underlying Seaford Chalk Formation. The infiltration test results can be seen in the following table. It should be noted that it was not possible to undertake the tests to full compliance of BRE Digest 365.

Soakage Testing Results

Trial Hole	Test Number	Depth (m bgl)	Start Depth (m bgl)	Finish Depth (m bgl)	Time Taken (mins)	Infiltration Rate (m/sec)
TP1*	1	2.0	0.75	1.11	240	5.12 x 10^-6
TP2	1	2.0	0.62	1.81	60	0.0042
	2	2.0	0.94	1.80	60	0.0050
	3	2.0	0.89	1.80	70	0.0049
TP3	1	2.0	0.70	1.86	80	0.0044
	2	2.0	0.85	1.80	85	0.0044
	3	2.0	0.88	1.85	90	0.0046

***Given the relatively slow infiltration rate encountered, only one test could be undertaken and it did not reach 75% mark.**

The principles of sustainable urban drainage system (SUDS) should be applied to reduce the risk of flooding from surface water ponding and collection associated with the construction of the foundations.

Consultation with the Environment Agency must be sought regarding any use that may have an impact on groundwater resources, abstractions and surface water features/watercourses.

It should be noted that water discharge into the chalk may worsen/create dissolution features. Therefore, soakaways should be remote from structures and undertaken in accordance with available guidance. A number of published information sources make reference to an appropriate distance at which a soakaway should be sited in relation to any building foundations in the vicinity:

- The British Standard BS8301 :1985 "Code of practice for building drainage" (1985), suggests that: "A soakaway is not desirable nearer to a building than about 5 metres nor in such a position that the ground below foundations is likely to be adversely affected."
- The Building Research Establishment Digest 365 "Soakaway design" (1991), suggests that "Soakaways should not normally be constructed closer than 5m to building foundations. In chalk or other soil and fill material subject to modification or instability, the advice of a specialist geotechnologist should be sought as to the advisability and siting of a soakaway".

In addition, the distance a soakaway is located from any foundations can be informed by both the soakaway type and chalk density present at the site.

2 The Long Barn,
Norton Farm, Selborne Road,
Alton, Hampshire GU34 3NB
0333 600 1221
enquiries@groundandwater.co.uk
groundandwater.co.uk

- The Kent County Council Soakaway Design Guide (July 2000) states that "Highway soakaways shall be situated the following minimum distances from dwellings (measured from the outside edge of the soakaway): (1) 5 metres for conventional perforated soakaway; (2) 10 metres for deep bored soakaway. In addition, adjacent soakaways of a similar type shall also be spaced a minimum of 10 metres apart.
- CIRIA 574 states that soakaways should be sited at least 5-10m away from any structure, depending on the chalk density. Where the chalk present is of low or unknown density, soakaways should be sited at least 10m from any foundations, and where the chalk is of medium density or higher, any foundations should be sited at least 5m from any foundations. **As testing confirmed the chalk to be low density, offset from foundations should be 10m.**

IN-SITU CALIFORNIA BEARING RATIO TESTS BY DYNAMIC CONE PENETROMETER

In-situ California Bearing Ratio (CBR) testing by Dynamic Cone Penetrometer (DCP) was undertaken to determine the CBR values of the soils underlying the site to shallow depth in accordance with BS1377 Part 9: 2016: 4.3 and a summary of the results is tabulated below. The full test results are presented in Appendix D.

In-situ CBR Test Results Summary

Test Location/Strata	Layer 1			Layer 2		
	Base Depth (m bgl)	Thickness (mm)	In-situ CBR (%)	Base Depth (m bgl)	Thickness (mm)	In-situ CBR (%)
DCP1/MG	115	115	17	183	68	31
DCP2/TS	179	179	14	220	41	26
DCP3/TS	126	126	12	163	37	36
DCP4/MG	147	147	18	432	285	30
Test Location	**Layer 3**			**Layer 4**		
	Base Depth (m bgl)	**Thickness (mm)**	**In-situ CBR (%)**	**Base Depth (m bgl)**	**Thickness (mm)**	**In-situ CBR (%)**
DCP1/MG	520	337	40	551	31	190
DCP2/SCF	253	33	59	432	179	151
DCP3/SCF	233	70	72	263	30	366
DCP4/MG	504	72	162	-	-	-

MG: Made Ground TS: Topsoil SCF: Seaford Chalk Formation

ROADS AND HARDSTANDING

This section provides information relating to the construction of roads and hardstanding, for each strata encountered.

Topsoil

Roads and hardstanding should bypass Topsoil given the likely low strength, high compressibility and general variability.

Made Ground

Where roads and hardstanding are to be founded on Made Ground, a CBR value of 1% should be adopted, as a result of the variable nature of Made Ground in terms of consistency, strength and compressibility.

2 The Long Barn,
Norton Farm, Selborne Road,
Alton, Hampshire GU34 3NB
0333 600 1221
enquiries@groundandwater.co.uk
groundandwater.co.uk

	Head Deposits (cohesive) Roads and hardstanding constructed on the cohesive Head Deposits should be designed based on a CBR value of 4.0%. This is based on reference to Table C1 of TRL1132 and average construction conditions. Based on wet conditions a CBR of 2.5% should be adopted, with dry conditions a CBR of 4.5% being applicable. These clay-based soils (poorly drained) with plasticity indexes generally less than 20% are likely to be frost susceptible, due to their granular content. **Chalk** In accordance with CIRIA 574, Part 4.7 The Action of Frost on Chalk, all chalk deposits can be seen to be frost susceptible. The magnitude of frost heave increases linearly with the saturation moisture content of the chalk aggregate. The weak chalk of south-east England is particularly prone to frost heave in the climatic conditions of the area. Therefore a minimum construction thickness of 450mm should be maintained. All formation levels for roads and hardstanding should be proof rolled to highlight any soft areas which should then be dug out and replaced with selected granular material compacted in thin layers to a suitable specification.
WASTE CLASSIFICATION	The excavation of foundations and soils is likely to produce waste which will require classification and then recycling or removal from site. Under the Landfill (England and Wales) Regulations 2002 (as amended), prior to disposal all waste must be classified as; • Inert; • Non-hazardous, or; • Hazardous. The Environment Agency's Hazardous Waste Technical Guidance (WM3) document outlines the methodology for classifying wastes. Once classified the waste can be removed to the appropriately licensed facilities, with some waste requiring pre-treatments prior to disposal. Following the investigation, 8No. samples were submitted to the analytical laboratory to undergo a suite of testing for contamination testing, as discussed in the previous sections. Sampling depths were chosen to reflect the receptor of concern, human health, and typically comprised a surface or near surface sample and periodically to 1.00m bgl. Any horizon where olfactory or visual evidence of contamination was present was also sampled. Based on a risk phase analysis of the chemical laboratory test results, in accordance with EC Hazardous Waste Directive and undertaken by Ground and Water Limited, all soil samples of Made Ground encountered on-site were NON-HAZARDOUS. The results of the assessment are given within Appendix H.

2 The Long Barn,
Norton Farm, Selborne Road,
Alton, Hampshire GU34 3NB
0333 600 1221
enquiries@groundandwater.co.uk
groundandwater.co.uk

	It is important to note that whilst we consider our in-house assessment tool to be an accurate interpretation of the requirements of WM3, therefore producing an initial classification in accordance with the guidance, this method classifies soils as either non-hazardous or hazardous and landfill operators have their own assessment tools and can often come to different conclusions. As a result, some landfill operators could refuse to take apparently suitable waste. It is recommended that the receiving landfill views the results of this assessment and the chemical laboratory results to determine their own classification. In addition to the samples described above, 1No. sample was scheduled to undergo Waste Acceptance Criteria (WAC) testing with single batch leachate from samples with a range of depths. The results indicate that the 1No. sample was classified as INERT. The results can be seen in Appendix E. The locations of these samples can be seen on Figure 2.
DUTY OF CARE	Groundworkers must maintain a good standard of personal hygiene including the wearing of overalls, boots, gloves and eye protectors and the use of dust masks during periods of dry weather. To prevent exposure to airborne dust by both the general public and construction personnel the site should be kept damp during dry weather and at other times when dust is generated as a result of construction activities. The site should be securely fenced at all times to prevent unauthorised access. Washing facilities should be provided and eating restricted to mess huts.

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2 The Long Barn,
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FIGURES



Site boundary

Not to Scale

Land at Milton Place Gravesend DA12 2BH	
Hills Partnership Ltd	**December 2025**
Figure 1: Site Location Plan	**GWPR6764**



- Site boundary
- Machine Excavated Trial Pits
- Dynamic Cone Penetrometer tests to 1.0m bgl
- Hand dug Excavation trail pits

Not to Scale

Land at Milton Place Gravesend DA12 2BH	
Hills Partnership Ltd	**December 2025**
Figure 2: Trail Hole Location Plan	**GWPR6764**

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Not to Scale

Land at Milton Place Gravesend DA12 2BH	
Hills Partnership Ltd	**December 2025**
Figure 3: Proposed Development	**GWPR6764**

2 The Long Barn,
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Alton, Hampshire GU34 3NB

0333 600 1221
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APPENDIX A: Conditions and Limitations

2 The Long Barn,
Norton Farm, Selborne Road,
Alton, Hampshire GU34 3NB

0333 600 1221
enquiries@groundandwater.co.uk

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The ground is a product of continuing natural and artificial processes. As a result, the ground will exhibit a variety of characteristics that vary from place to place across a site, and also with time. Whilst a ground investigation will mitigate to a greater or lesser degree against the resulting risk from variation, the risks cannot be eliminated.

The report has been prepared on the basis of information, data and materials which were available at the time of writing. Accordingly any conclusions, opinions or judgements made in the report should not be regarded as definitive or relied upon to the exclusion of other information, opinions and judgements.

The investigation, interpretations, and recommendations given in this report were prepared for the sole benefit of the client in accordance with their brief; as such these do not necessarily address all aspects of ground behaviour at the site. No liability is accepted for any reliance placed on it by others unless specifically agreed in writing.

Any decisions made by you, or by any organisation, agency or person who has read, received or been provided with information contained in the report ("you" or "the Recipient") are decisions of the Recipient and we will not make, or be deemed to make, any decisions on behalf of any Recipient. We will not be liable for the consequences of any such decisions.

Current regulations and good practice were used in the preparation of this report. An appropriately qualified person must review the recommendations given in this report at the time of preparation of the scheme design to ensure that any recommendations given remain valid in light of changes in regulation and practice, or additional information obtained regarding the site.

Any Recipient must take into account any other factors apart from the Report of which they and their experts and advisers are or should be aware. The information, data, conclusions, opinions and judgements set out in the report may relate to certain contexts and may not be suitable in other contexts. It is your responsibility to ensure that you do not use the information we provide in the wrong context.

This report is based on readily available geological records, the recorded physical investigation, the strata observed in the works, together with the results of completed site and laboratory tests. Whilst skill and care has been taken to interpret these conditions likely between or below investigation points, the possibility of other characteristics not revealed cannot be discounted, for which no liability can be accepted. The impact of our assessment on other aspects of the development required evaluation by other involved parties.

The opinions expressed cannot be absolute due to the limitations of time and resources within the context of the agreed brief and the possibility of unrecorded previous in ground activities. The ground conditions have been sampled or monitored in recorded locations and tests for some of the more common chemicals generally expected. Other concentrations of types of chemicals may exist. It was not part of the scope of this report to comment on environment/contaminated land considerations.

The conclusions and recommendations relate to Land at Milton Place, Gravesend, DA12 2BH

Trial hole is a generic term used to describe a method of direct investigation. The term trial pit, borehole or window sampler borehole implies the specific technique used to produce a trial hole.

2 The Long Barn,
Norton Farm, Selborne Road,
Alton, Hampshire GU34 3NB
0333 600 1221
enquiries@groundandwater.co.uk
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The depth to roots and/or of desiccation may vary from that found during the investigation. The client is responsible for establishing the depth to roots and/or of desiccation on a plot-by-plot basis prior to the construction of foundations. Where trees are mentioned in the text this means existing trees, recently removed trees (approximately 15 years to full recovery on cohesive soils) and those planned as part of the site landscaping.

Ownership of copyright of all printed material including reports, laboratory test results, trial pit and borehole log sheets, including drillers log sheets, remain with Ground and Water Limited. Licence is for the sole use of the client and may not be assigned, transferred or given to a third party.

Only our client may rely on this report and should this report or any information contained in it be provided to any third party we accept no responsibility to the third party for the contents of this report save to the extent expressly outlined by us in writing in a reliance letter addressed from us to the third party.

Recipients are not permitted to publish this report outside of their organisation without our express written consent.

The aim of the investigation was understood to be to supply the client and their designers with information regarding the ground conditions underlying the site to assist them in preparing an appropriate scheme for development.

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Alton, Hampshire GU34 3NB

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enquiries@groundandwater.co.uk

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APPENDIX B: Technical Glossary

TECHNICAL GLOSSARY

The list of possible definitions within the report may be seen below. Please note that some definitions may not be relevant to this report.

HYDROGEOLOGY:

A **Principal Aquifer** is a layer of rock or drift deposits that have high intergranular and/or fracture permeability - meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale. In most cases, principal aquifers are aquifers previously designated as major aquifer.

Secondary (A) Aquifers consist of deposits with 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.

Secondary (B) Aquifers consist of deposits with predominantly lower permeability layers with may stoke and yield limited amounts of groundwater due to localised features such as fissures, think permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers.

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

Unproductive Strata are rock layers with low permeability that have negligible significance for water supply or river base flow. These were formerly classified as non-aquifers.

FLOOD ZONES:

Environment Agency Flood Zone 2, defined as; land having between a 1 in 100 and 1 in 1,000 annual probability of river flooding; or land having between a 1 in 200 and 1 in 1,000 annual probability of sea flooding.

Environment Agency Flood Zone 3 shows the extent of a river flood with a 1 in 100 (1%0 or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year.

Environment Agency Flood Zone 3 area that benefits from flood defences, defined as; land and property in this flood zone would have a high probability of flooding without the local flood defences. These protect the area against a river flood with a 1% chance of happening each year, or a flood from the sea with a 0.5% chance of happening each year.

GROUNDWATER SOURCE PROTECTION ZONES (SPZS):

Inner Zone (SPZ1): This zone is 50 day travel time of pollutant to source with a 50 metres default minimum radius.

Outer Zone (SPZ2): This zone is 400 day travel time of pollutant to source. This has a 250 or 500 metres minimum radius around the source depending on the amount of water taken.

Total Catchment (SPZ3): This is the area around a supply source within which all the groundwater ends up at the abstraction point. This is the point from where the water is taken. This could extend some distance from the source point.

Zone of Special Interest (SPZ4): This zone is where local conditions require additional protection.

IN-SITU STRENGTH GEOTECHNICAL TESTING:

Windowless Sample and/or Cable Percussion and/or Rotary Boreholes provide samples of the ground for assessment but they do not give any engineering data. The standard penetration test (SPT) is an in-situ dynamic penetration test designed to provide information on the geotechnical engineering properties of soil. The test uses a thick-walled sample tube, with an outside diameter of 50mm and an inside diameter of 35mm, and a length of around 650mm. This is driven into the ground at the bottom of a borehole by blows from a slide hammer with a weight of 63.5kg falling through a distance of 760mm. The sample tube is driven 150mm into the ground and then the number of blows needed for the tube to penetrate each 75mm up to a depth of 450mm is recorded. The sum of the number of blows is termed the "standard penetration resistance" or the "N-value".

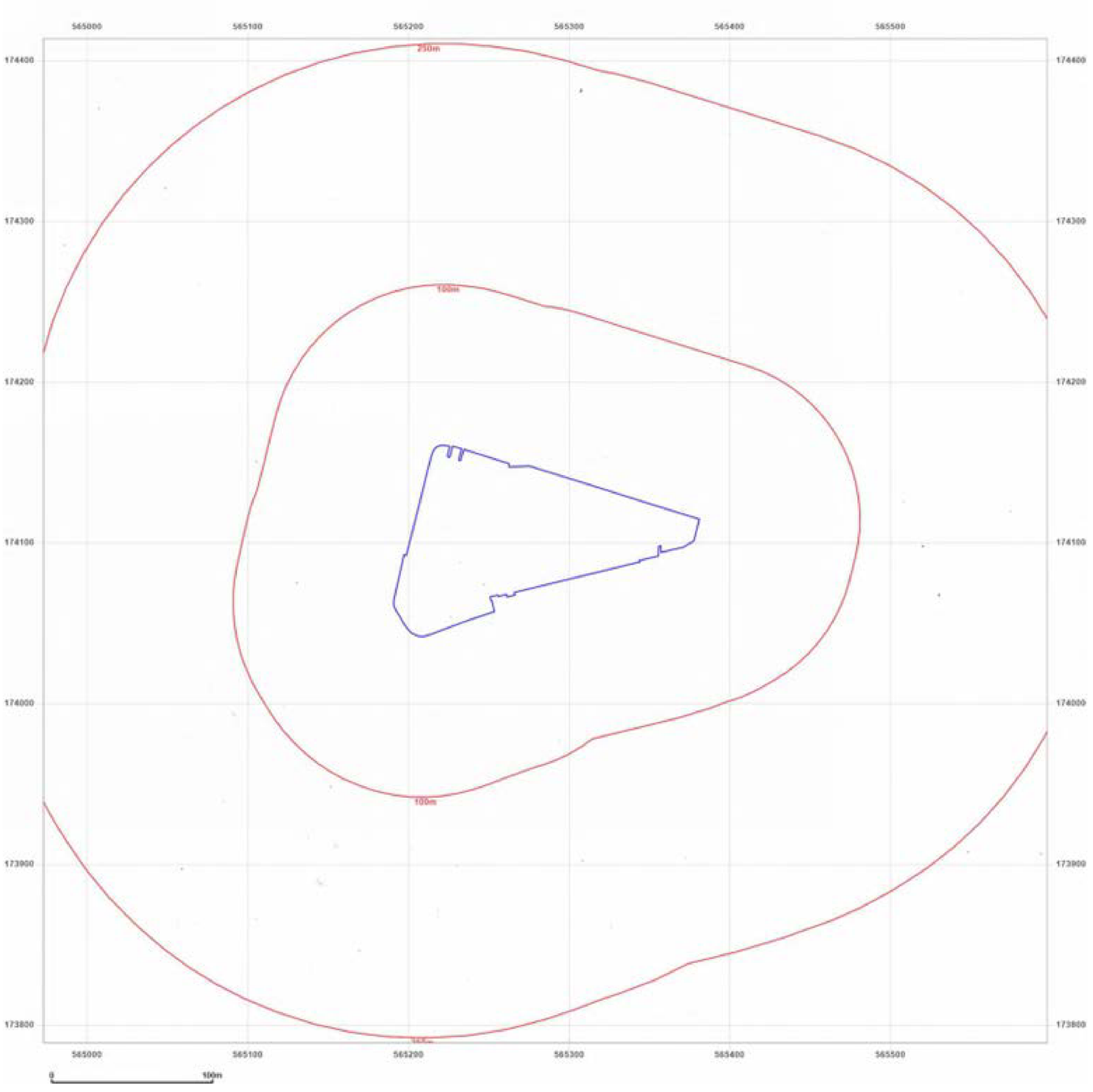
Dynamic Probing involves the driving of a metal cone into the ground via a series of steel rods. These rods are driven from the surface by a hammer system that lifts and drops a 63.5kg (SHDP) hammer onto the top of the rods through a set height, thus ensuring a consistent energy input. The number of hammer blows that are required to drive the cone down by each 100mm increment are recorded. These blow counts then provide a comparative assessment from which correlations have been published, based on dynamic energy, which permits engineering parameters to be generated. (The Dynamic Probe 'Super Heavy' (SHDP) Tests were conducted in accordance with BS 1377; 1990; Part 9, Clause 3.2).

2 The Long Barn,
Norton Farm, Selborne Road,
Alton, Hampshire GU34 3NB

0333 600 1221
enquiries@groundandwater.co.uk

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APPENDIX C: GroundSure Historical Mapping



Groundsure INSIGHTS

Site Details:

GWPR6764

Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: County Series

Map date: 1864

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1864
Revised 1864
Edition N/A
Copyright N/A
Levelled N/A

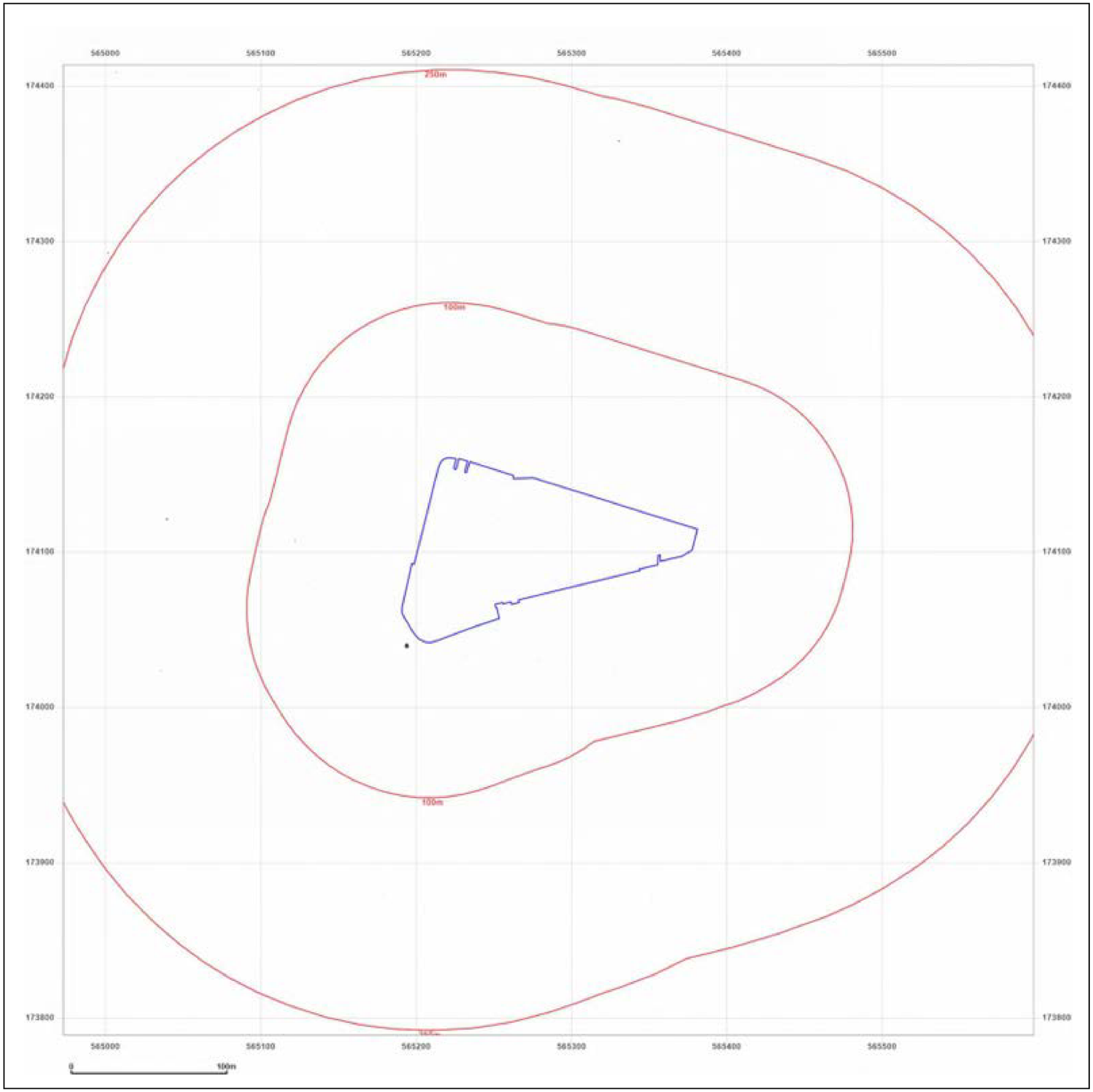
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Map Name: County Series

Map date: 1864

Scale: 1:2,500

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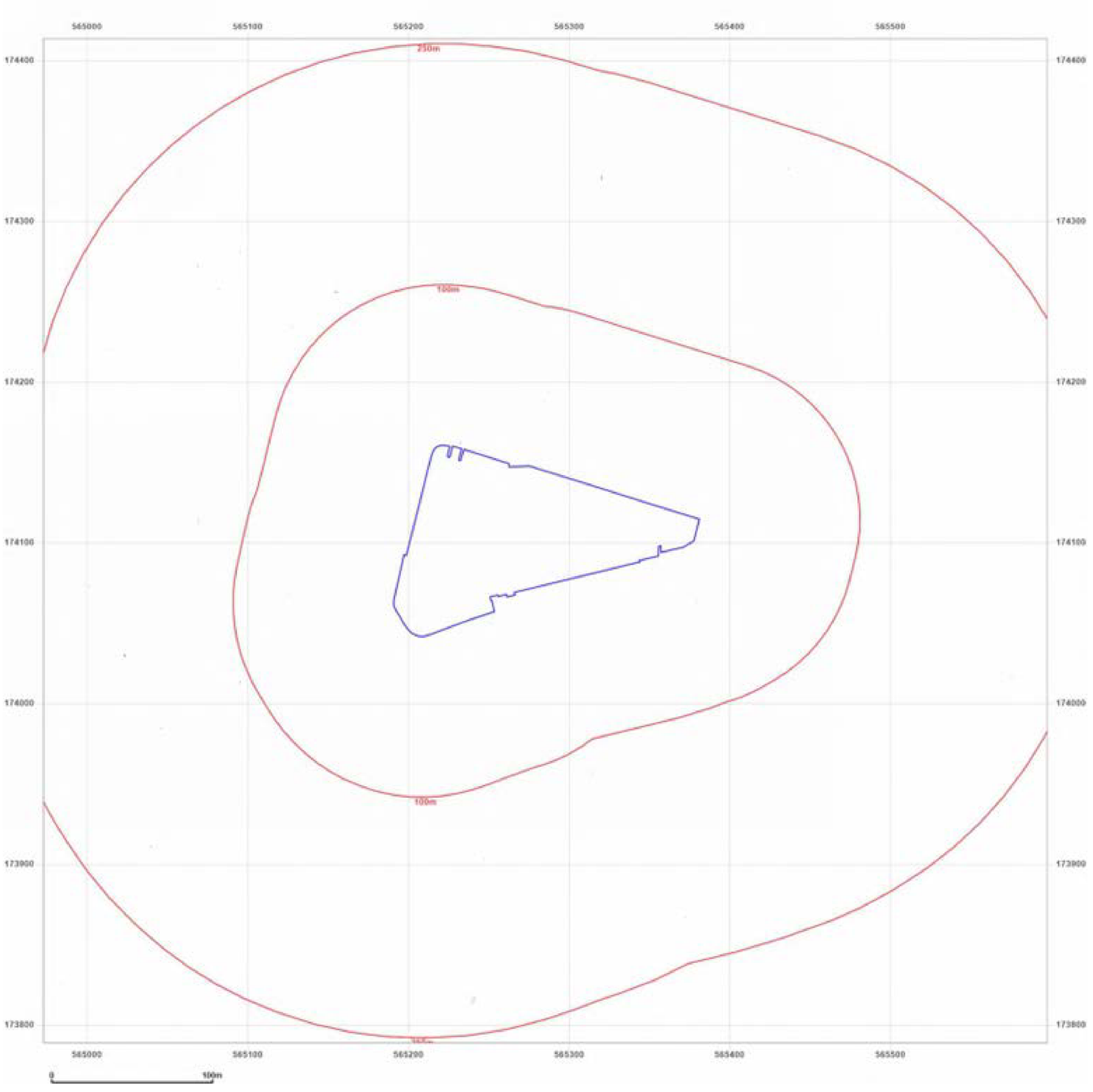
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Map Name: County Series

Map date: 1866

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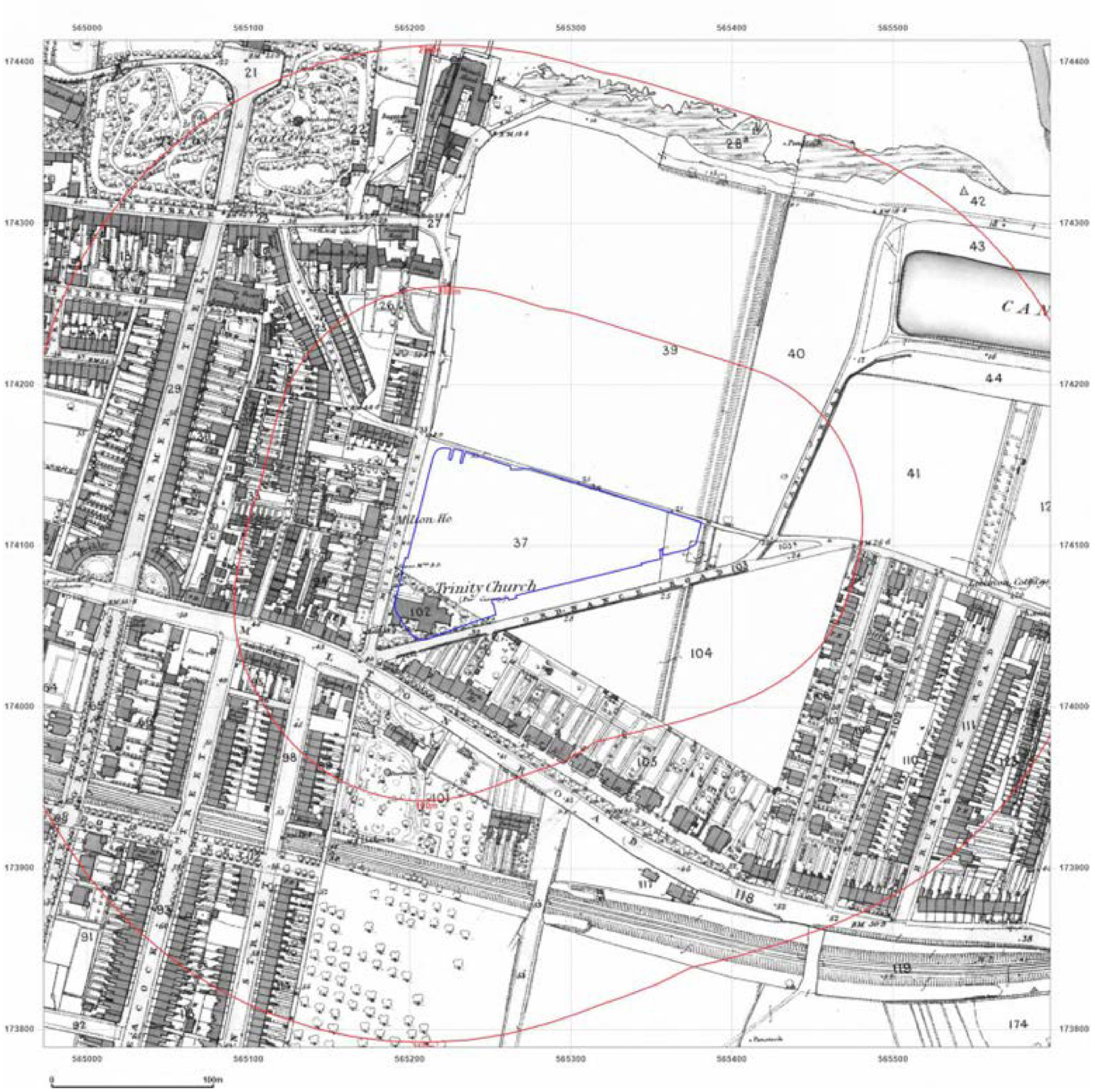
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Map date: **1866**

Scale: 1:2,500

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Edition N/A
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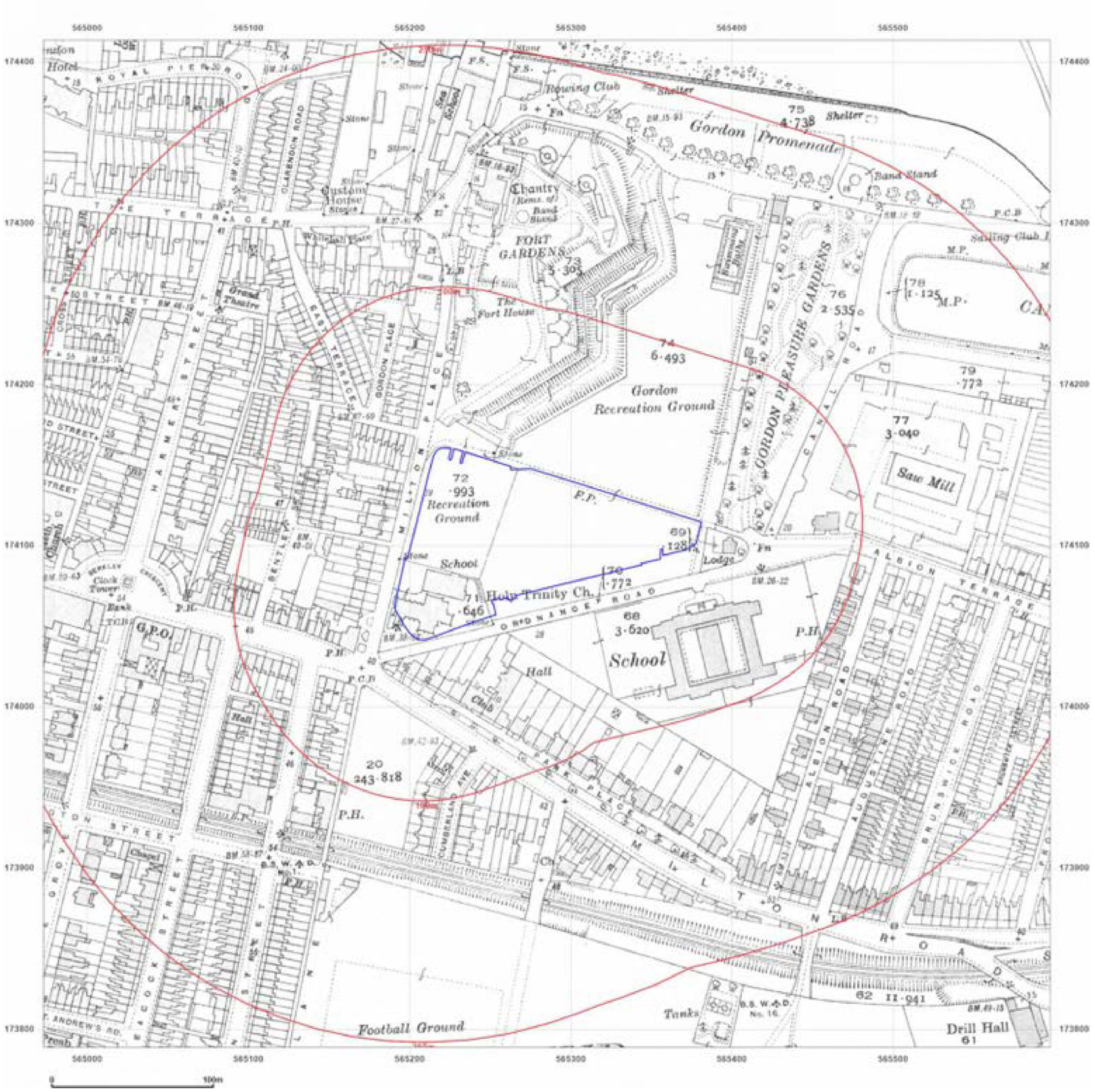
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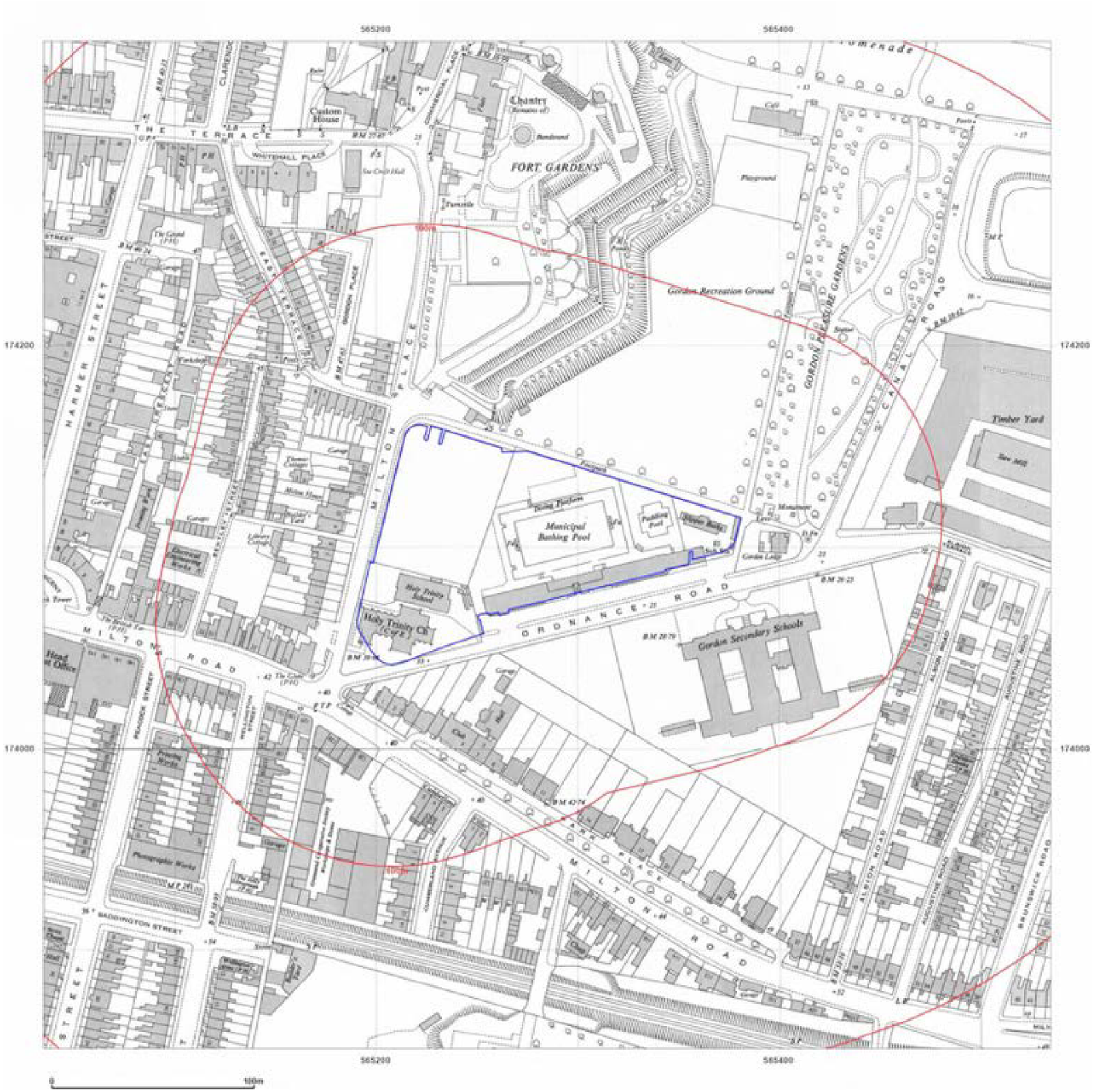
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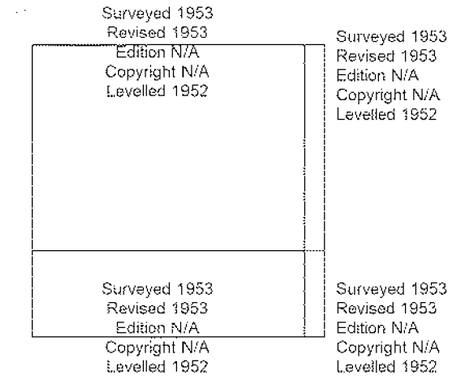
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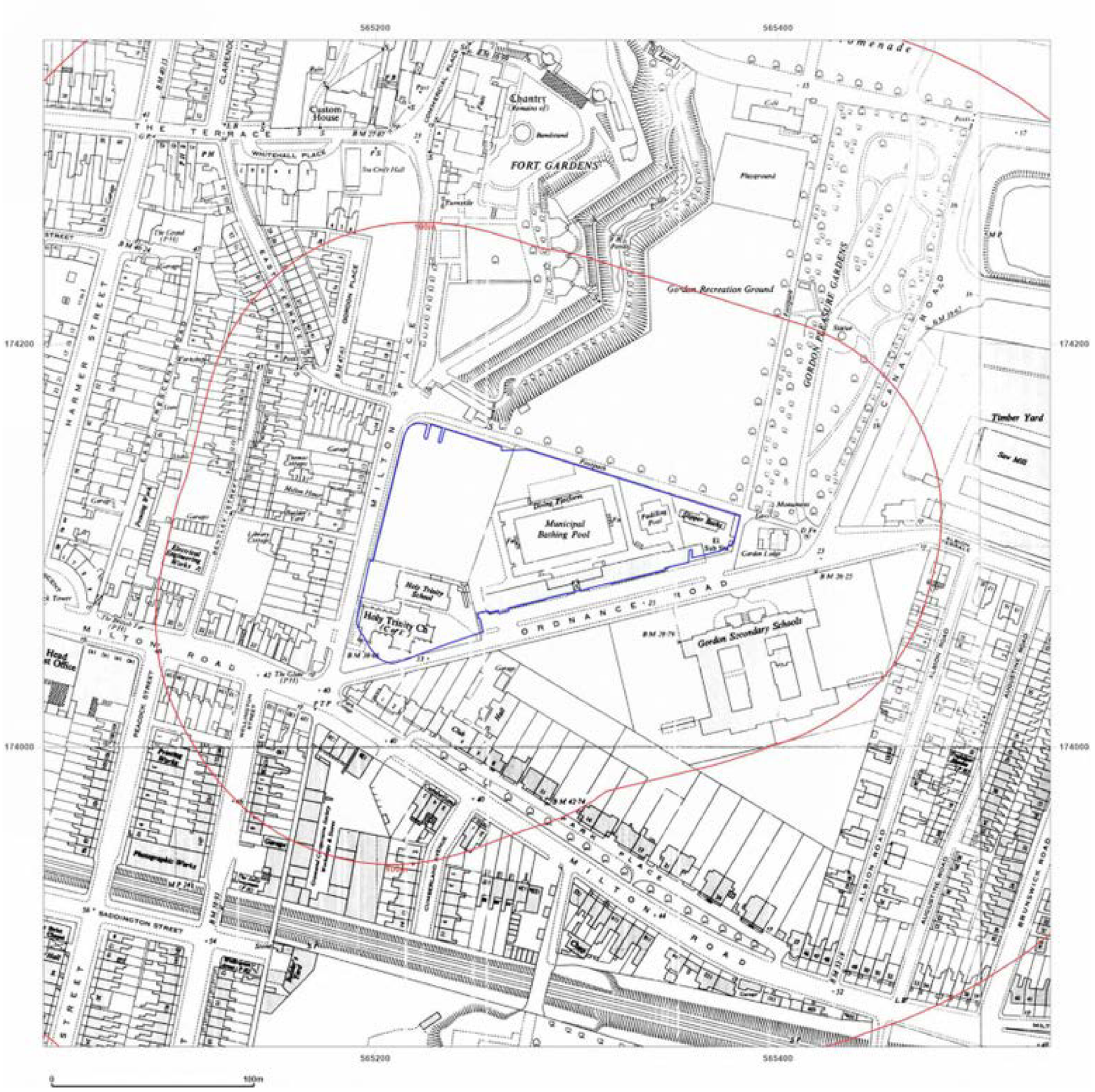
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Scale: 1:1,250

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Copyright N/A
Levelled N/A

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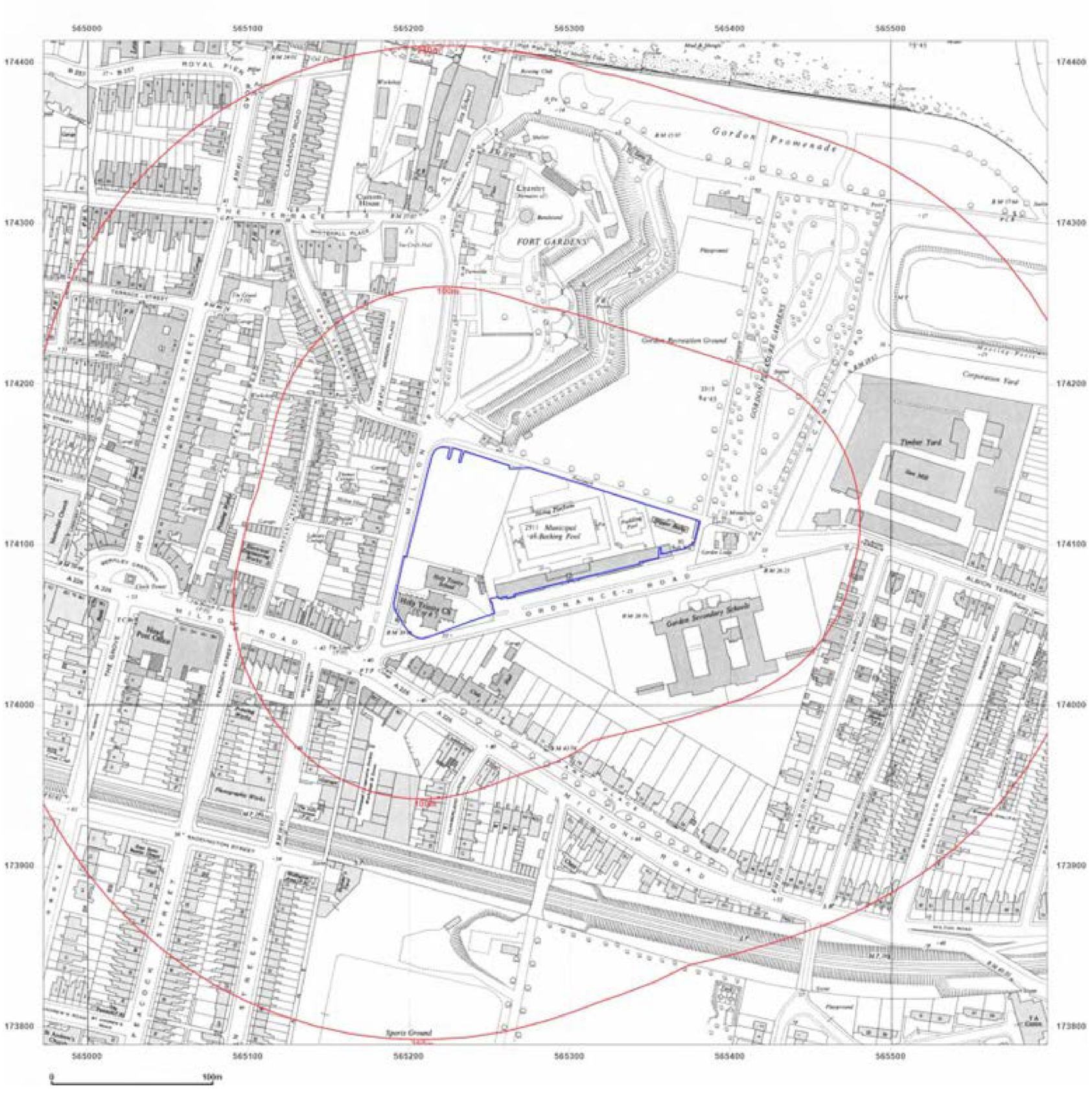
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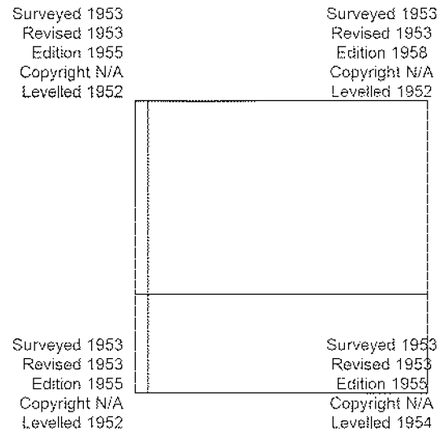
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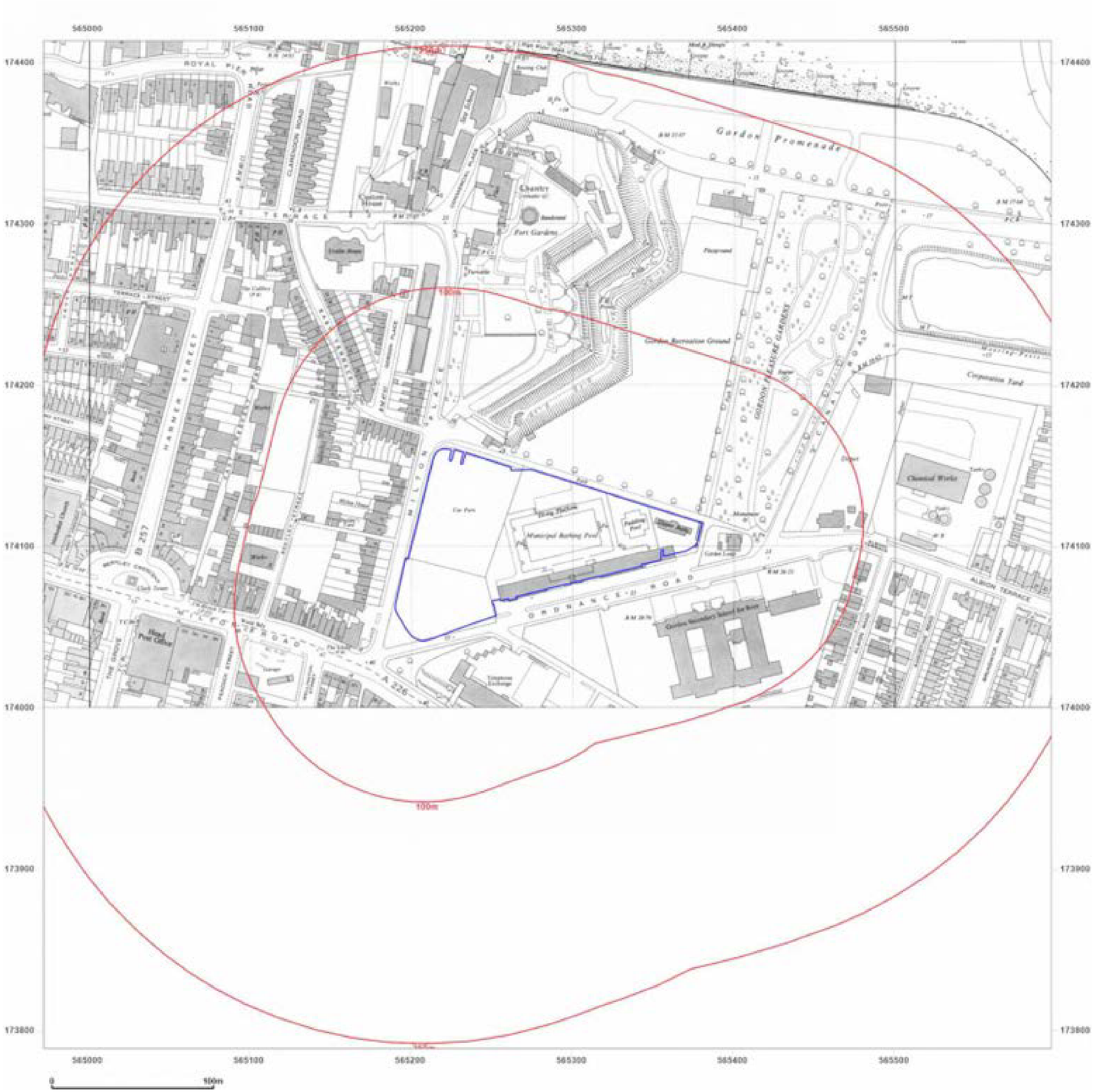
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Map date: **1969**

Scale: 1:2,500

Printed at: 1:2,500

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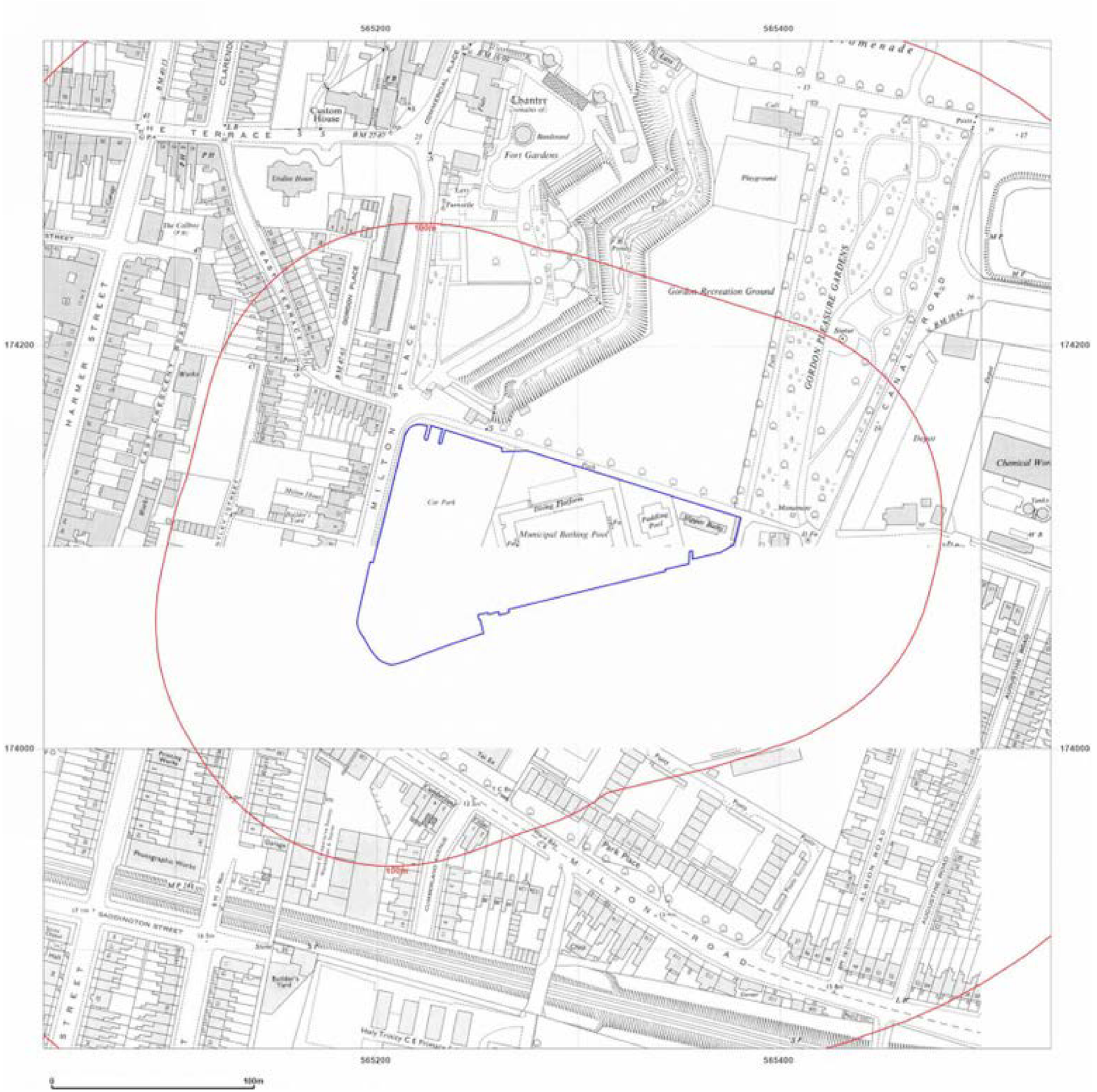
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Site Details:

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Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: National Grid

Map date: **1964-1970**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1953
Revised 1964
Edition N/A
Copyright 1964
Levelled 1952

Surveyed 1953
Revised 1967
Edition N/A
Copyright 1967
Levelled 1952

Surveyed 1953
Revised 1970
Edition N/A
Copyright 1970
Levelled 1952

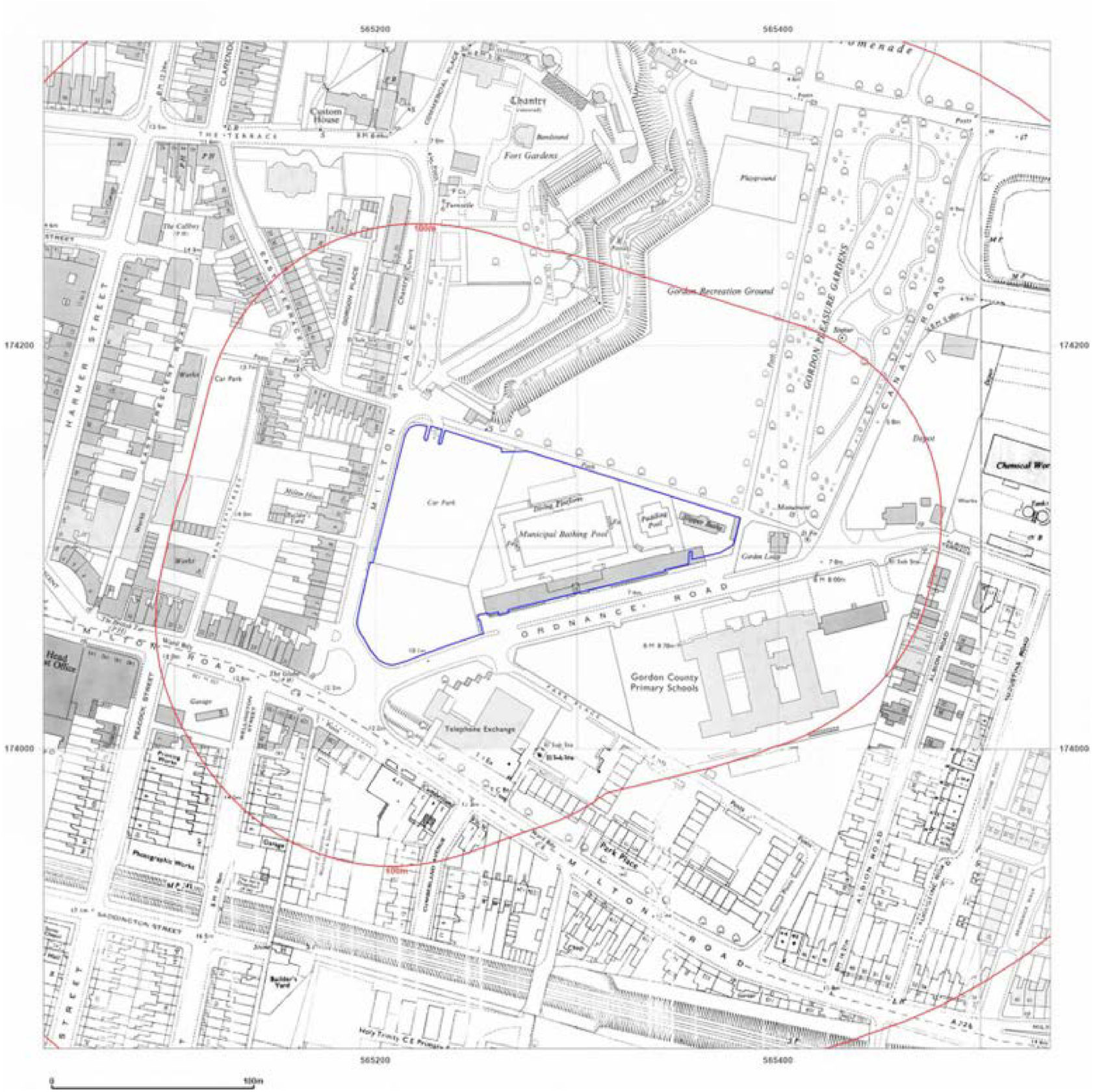
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Groundsure INSIGHTS

Site Details:

GWPR6764

Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: National Grid

Map date: **1974-1978**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1953 Revised 1975 Edition N/A Copyright 1976 Levelled 1952	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 1978 Levelled 1952	Surveyed 1953 Revised 1975 Edition N/A Copyright 1976 Levelled 1952

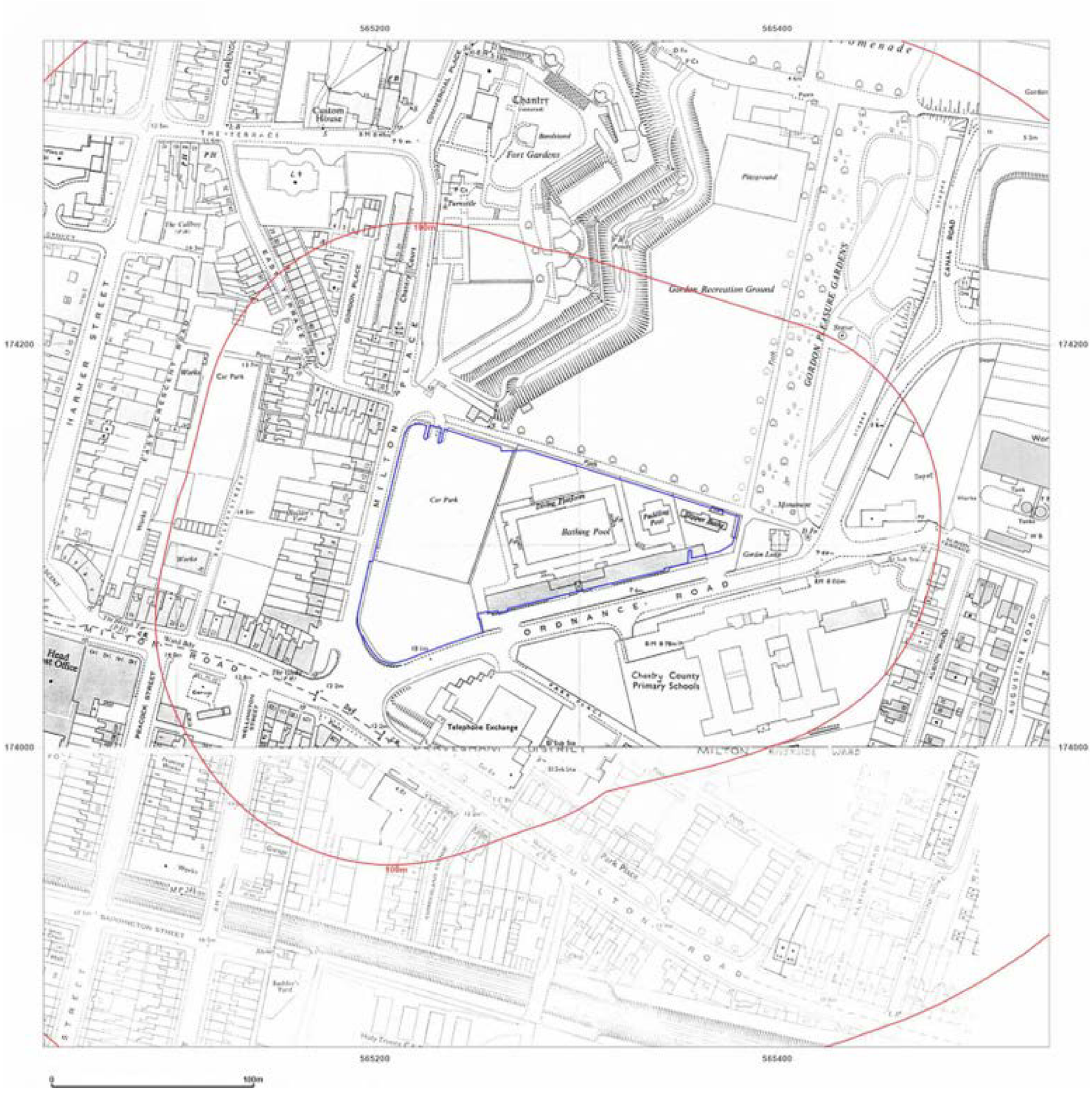
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Groundsure INSIGHTS

Site Details:

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Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: National Grid

Map date: **1976-1981**

Scale: 1:1,250

Printed at: 1:2,000

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Revised N/A
Edition N/A
Copyright 1980
Levelled 1952

Surveyed 1953
Revised 1976
Edition N/A
Copyright 1976
Levelled 1952

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
Levelled 1952

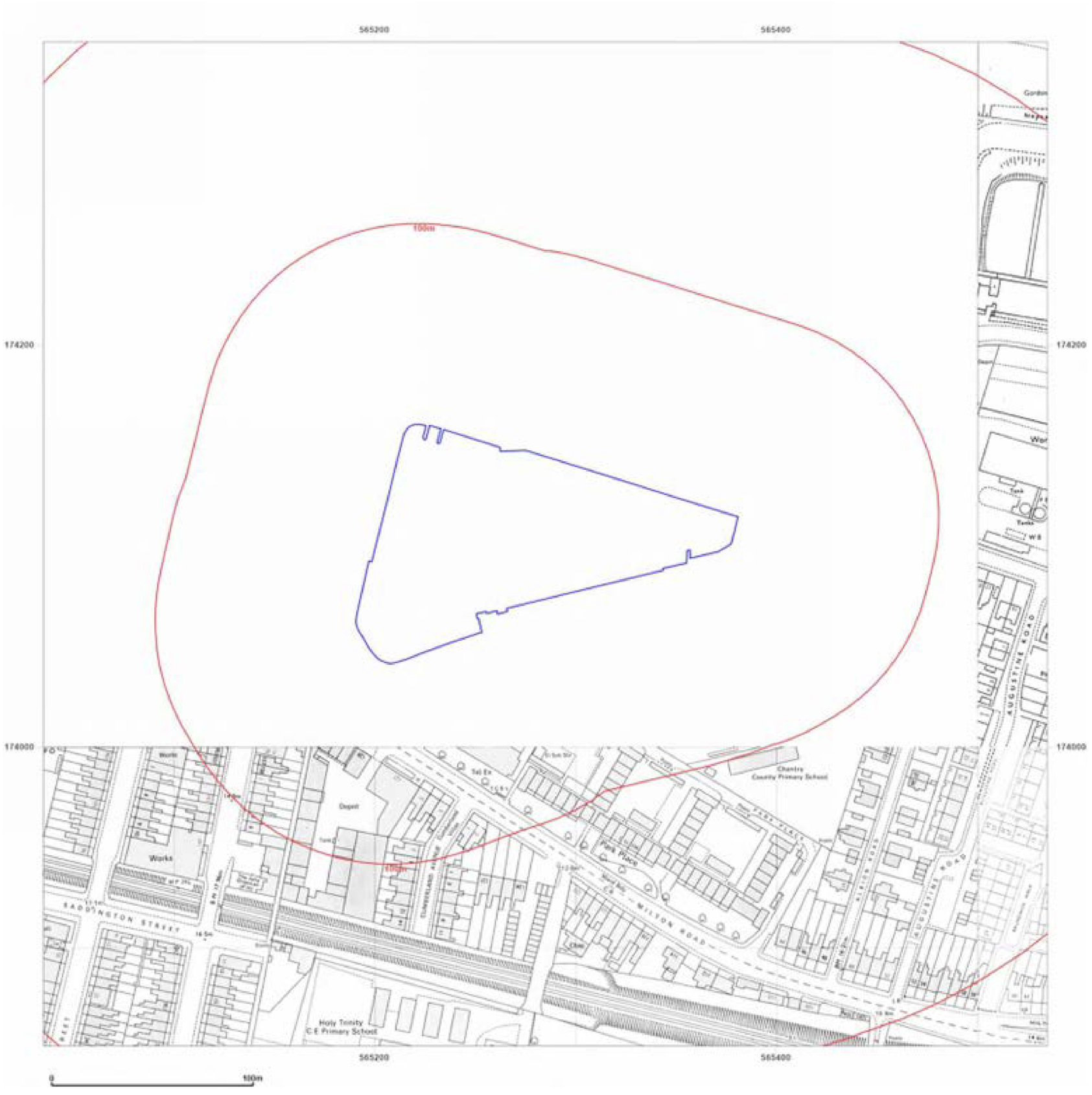
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Site Details:

GWPR6764

Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

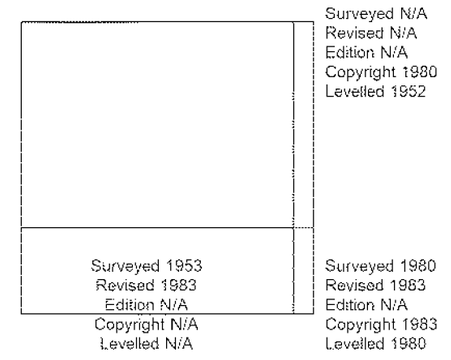
Map Name: National Grid

Map date: **1980-1983**

Scale: 1:1,250

Printed at: 1:2,000

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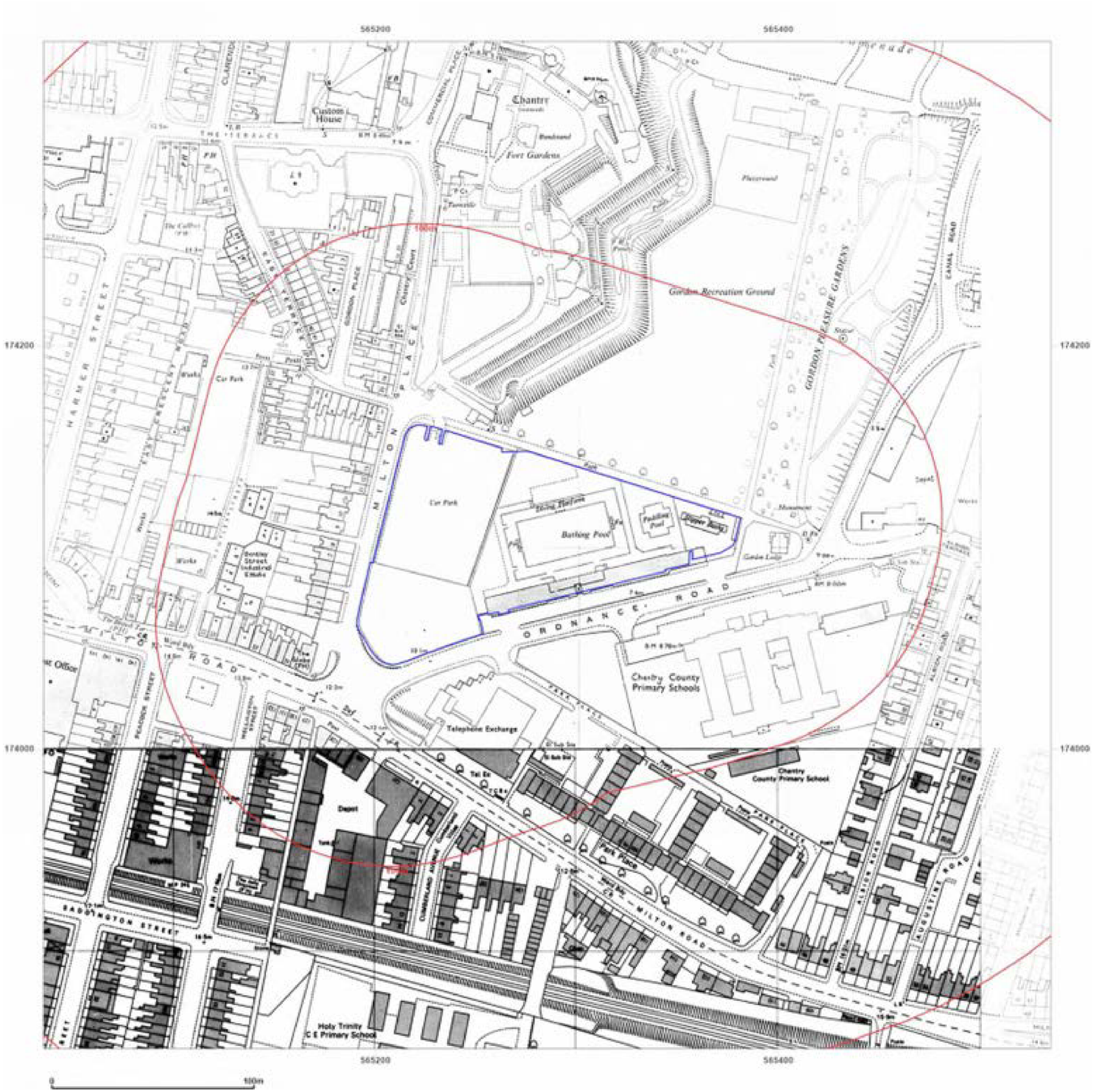
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Site Details:

GWPR6764

Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: National Grid

Map date: **1983-1986**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1976
Revised 1986
Edition N/A
Copyright 1986
Levelled 1976

Surveyed 1953
Revised 1983
Edition N/A
Copyright 1984
Levelled 1980

Surveyed 1980
Revised 1983
Edition N/A
Copyright 1983
Levelled 1980

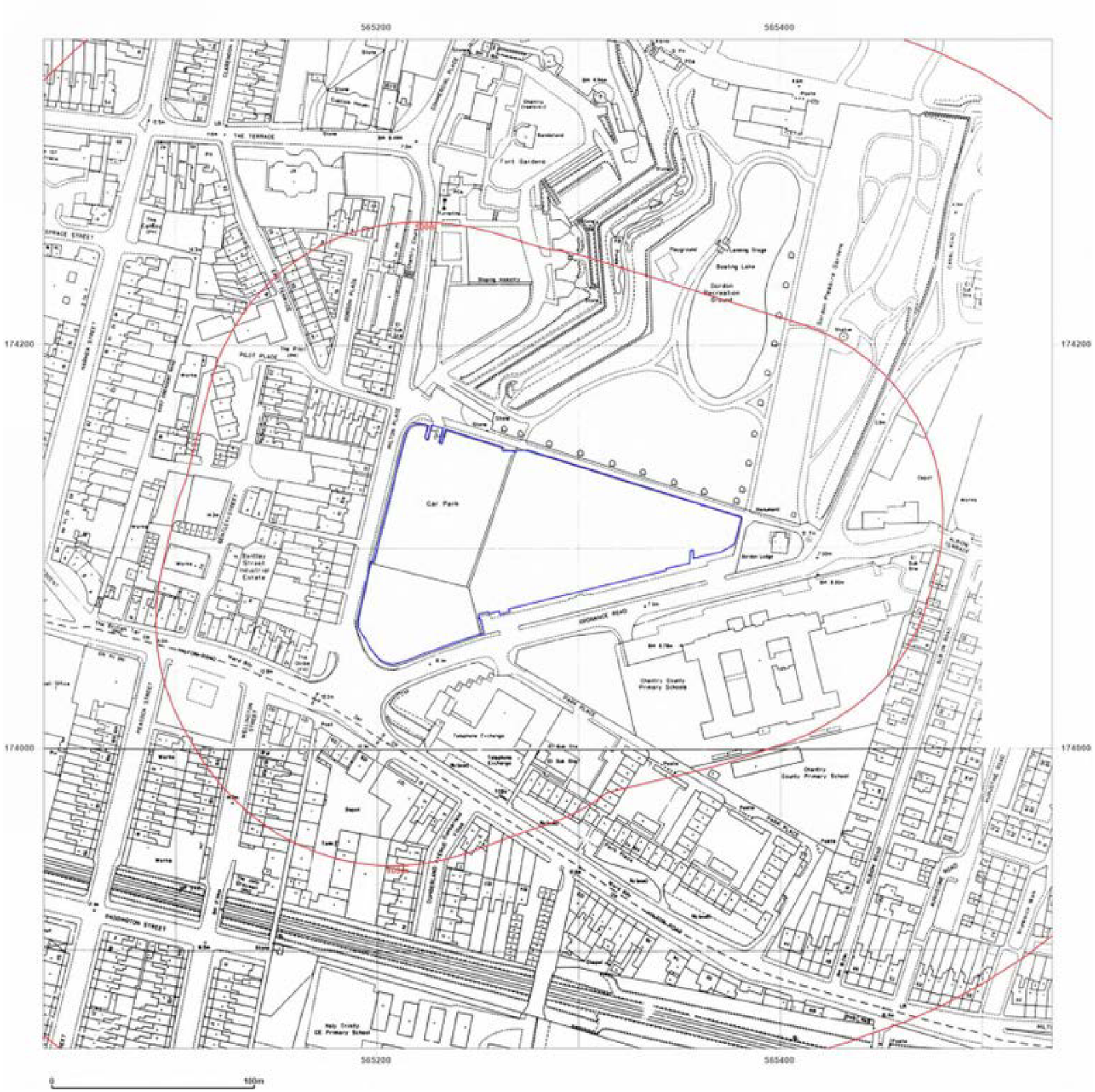
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Site Details:

GWPR6764

Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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Revised N/A
Edition N/A
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Site Details:

GWPR6764

Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: National Grid
Map date: 1993
Scale: 1:1,250
Printed at: 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

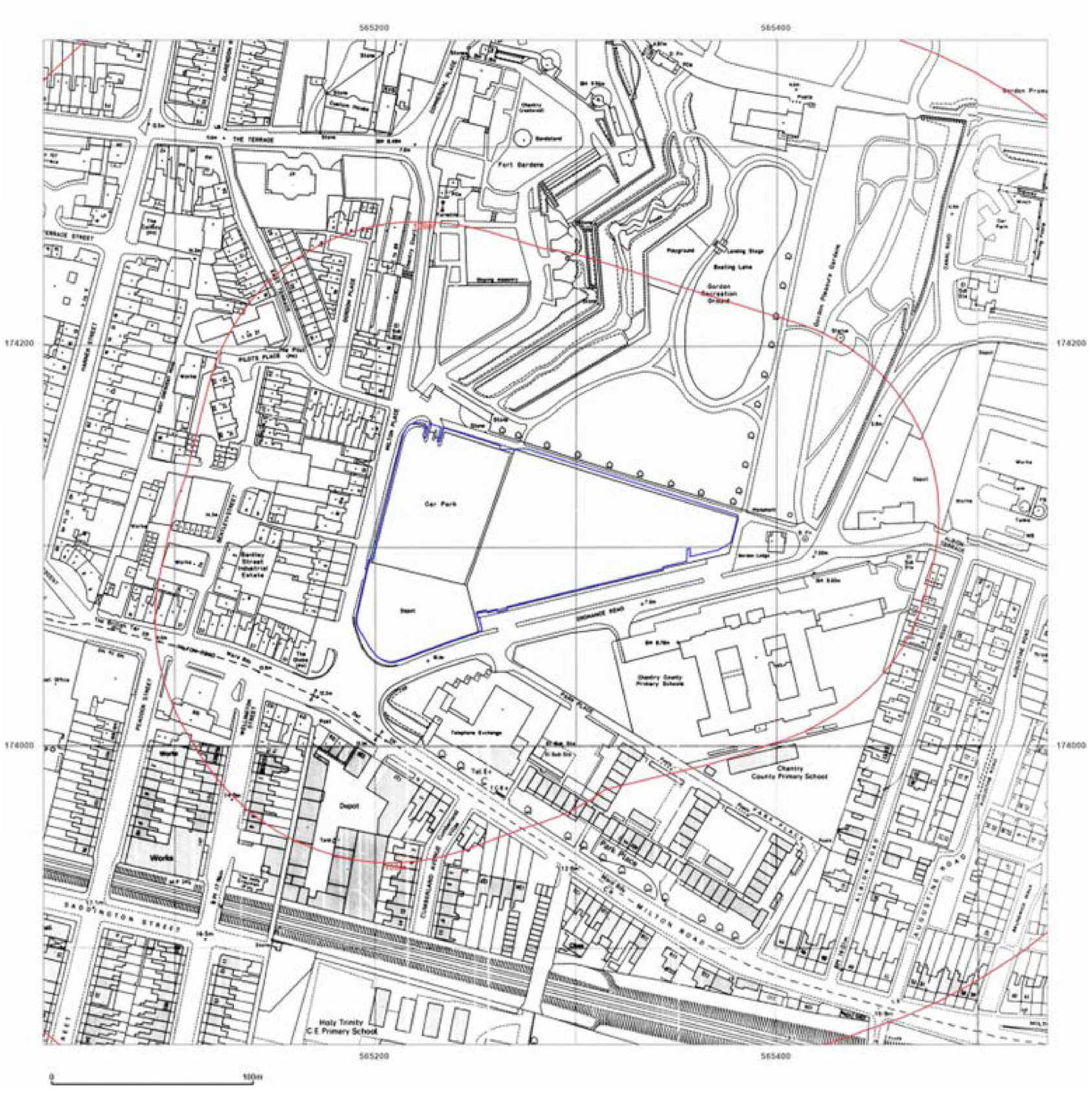
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Site Details:

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Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: National Grid

Map date: **1992-1993**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1991 Revised N/A Edition N/A Copyright 1993 Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright 1993 Levelled N/A
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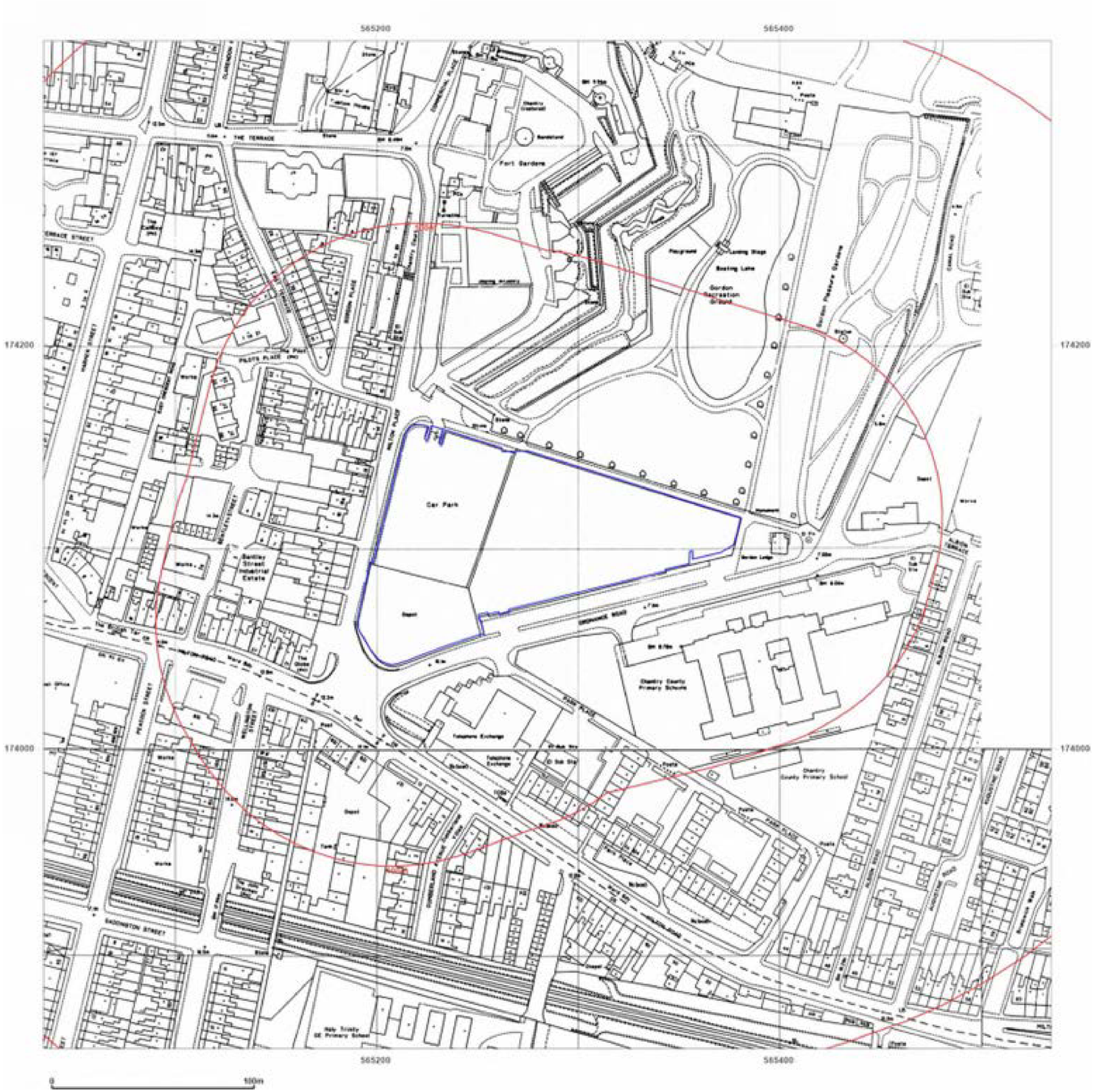
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Site Details:

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Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1991
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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

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Site Details:

GWPR6764

Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

N
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2003

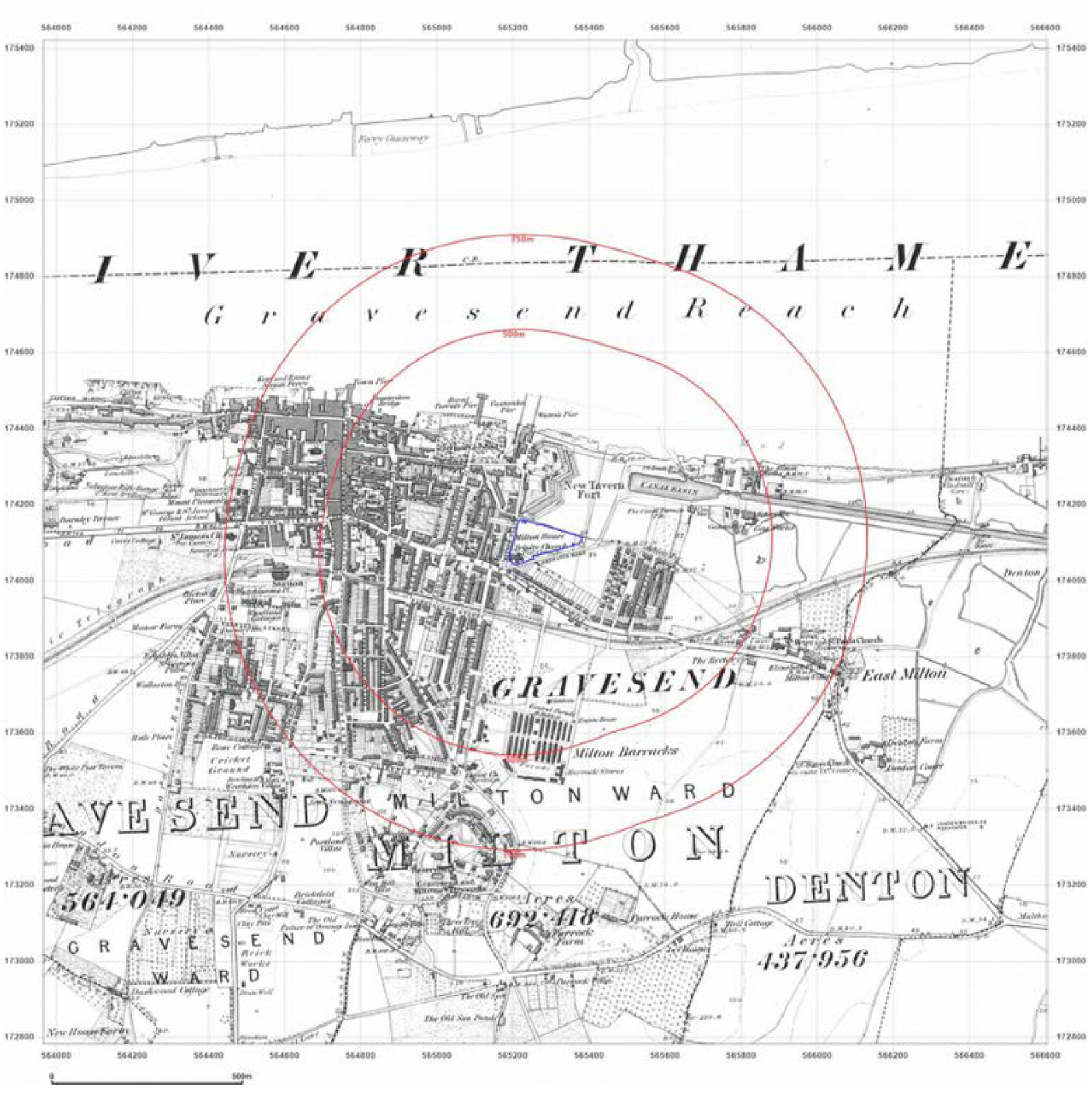
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Site Details:

GWPR6764

Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: County Series

Map date: **1865**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1865
Revised 1865
Edition N/A
Copyright N/A
Levelled N/A

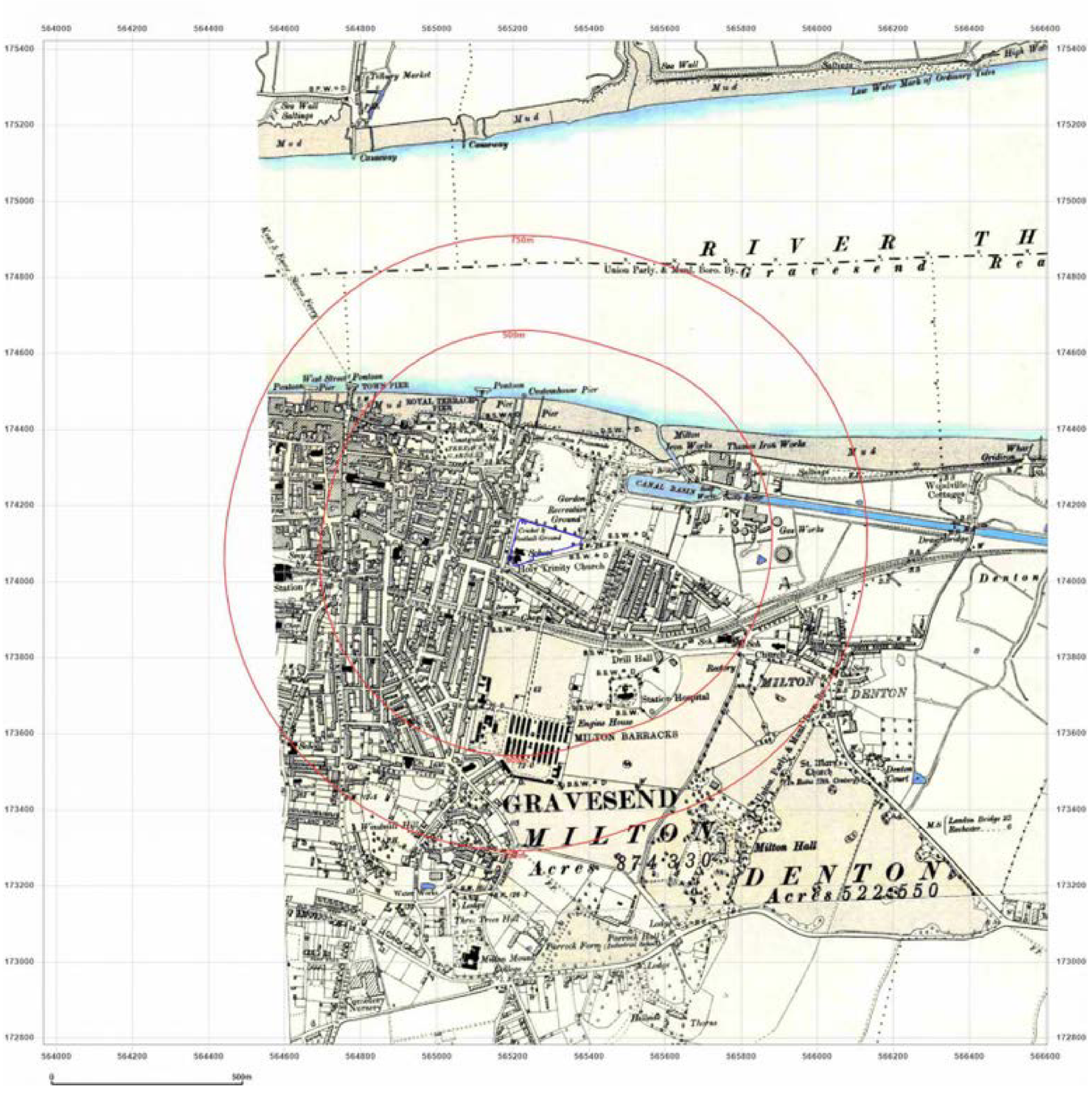
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Site Details:

GWPR6764

Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: County Series

Map date: 1888

Scale: 1:10,560

Printed at: 1:10,560

N
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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 N/A
Levelled N/A

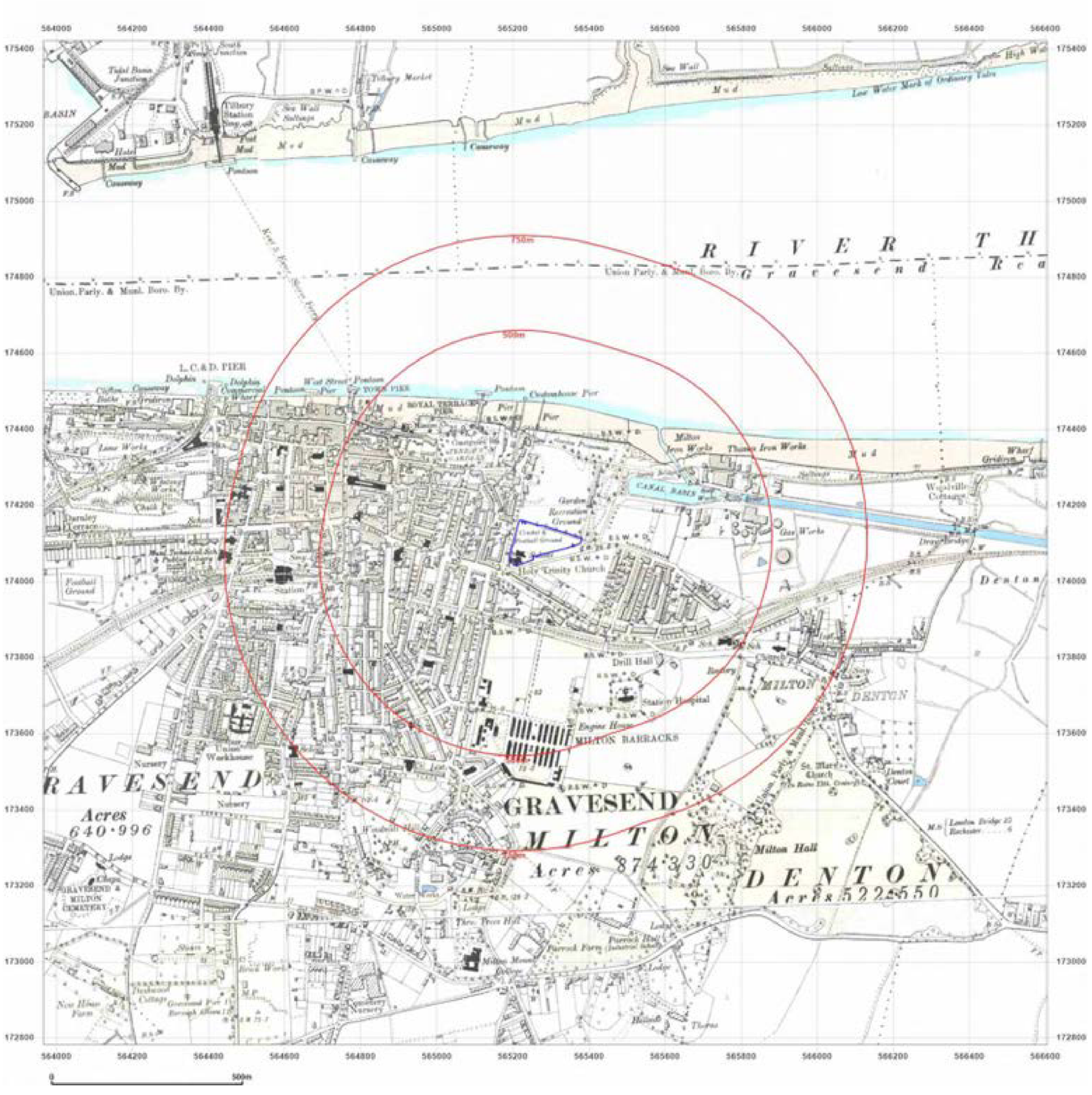
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Site Details:

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Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

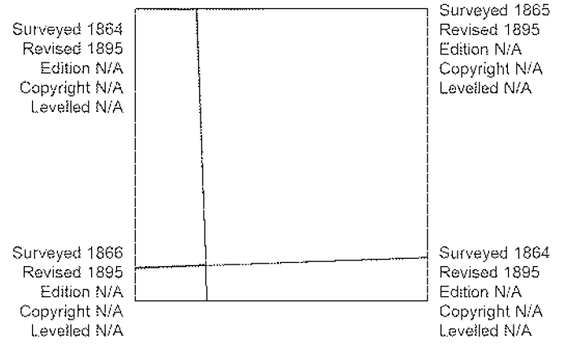
Map Name: County Series

Map date: **1895**

Scale: 1:10,560

Printed at: 1:10,560

N
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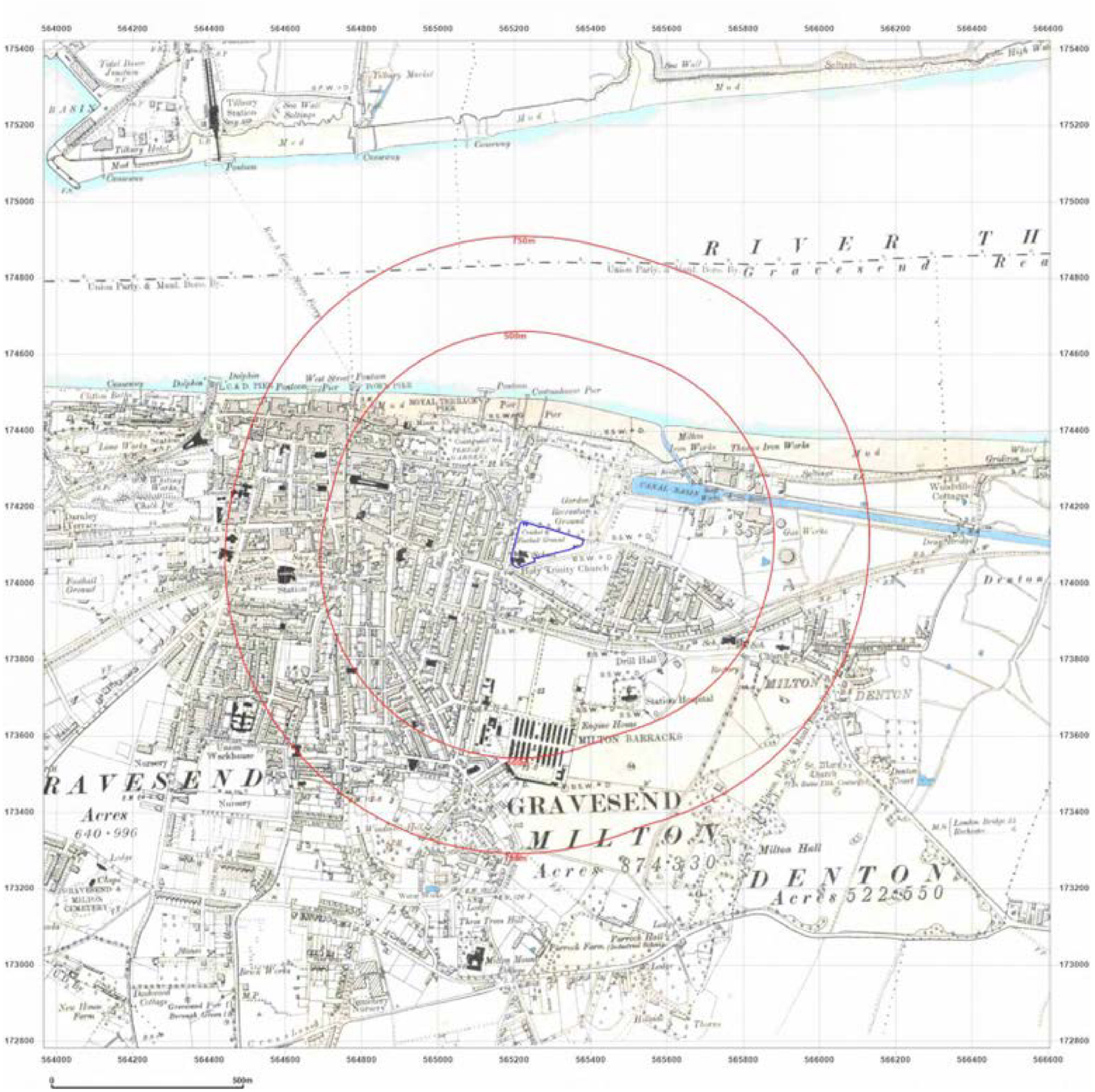
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Site Details:

GWPR6764

Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: County Series

Map date: **1895**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1862
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A

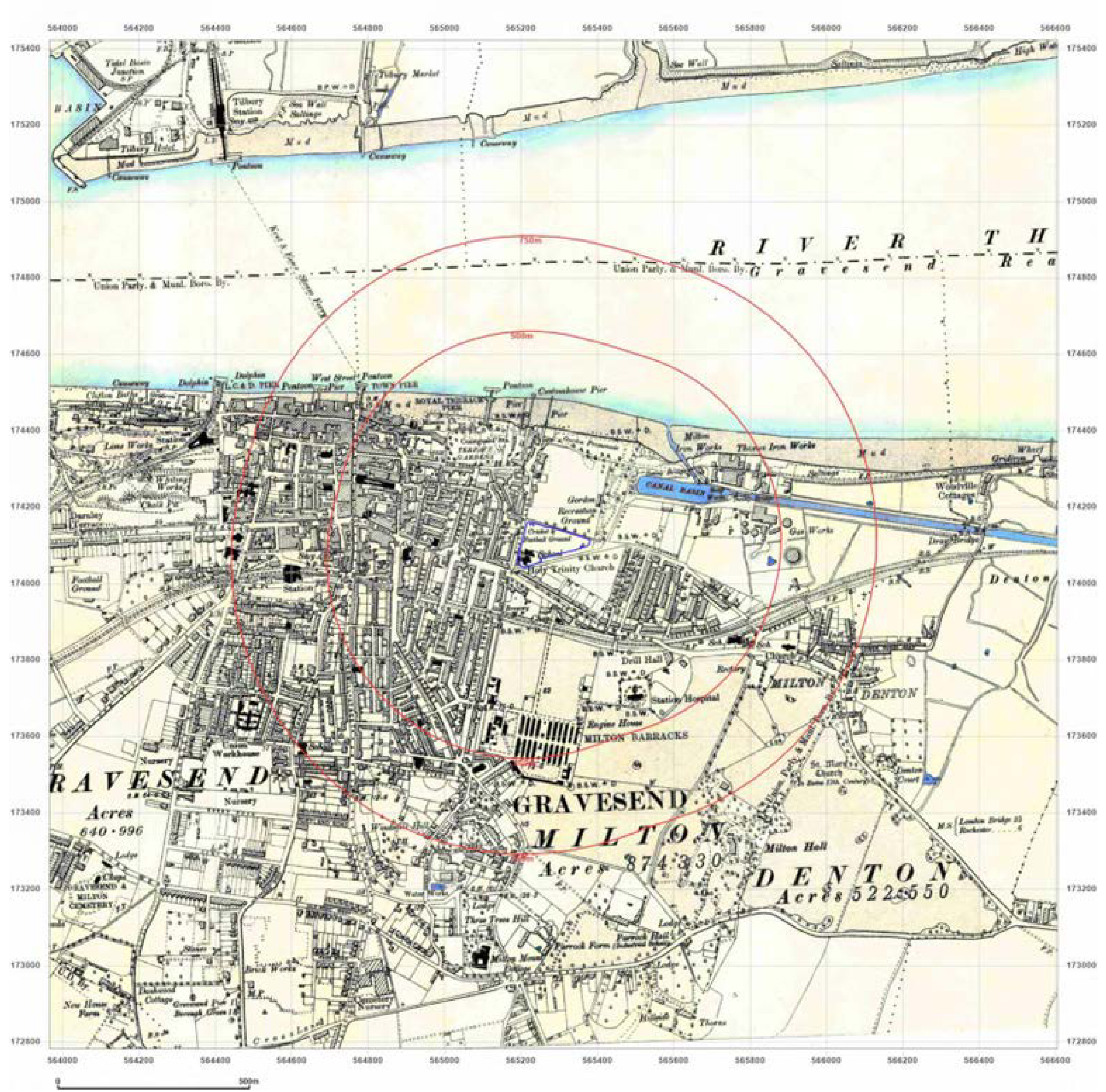
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Site Details:

GWPR6764

Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: County Series

Map date: **1895**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1866
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

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Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

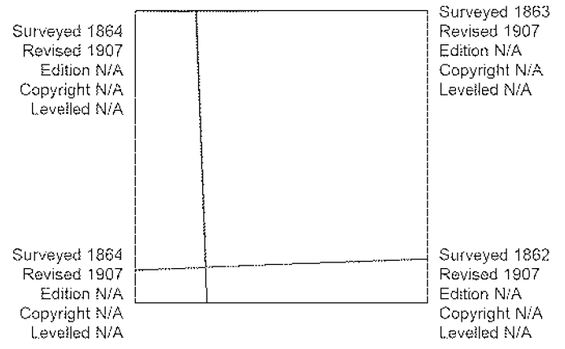
Map Name: County Series

Map date: **1907**

Scale: 1:10,560

Printed at: 1:10,560

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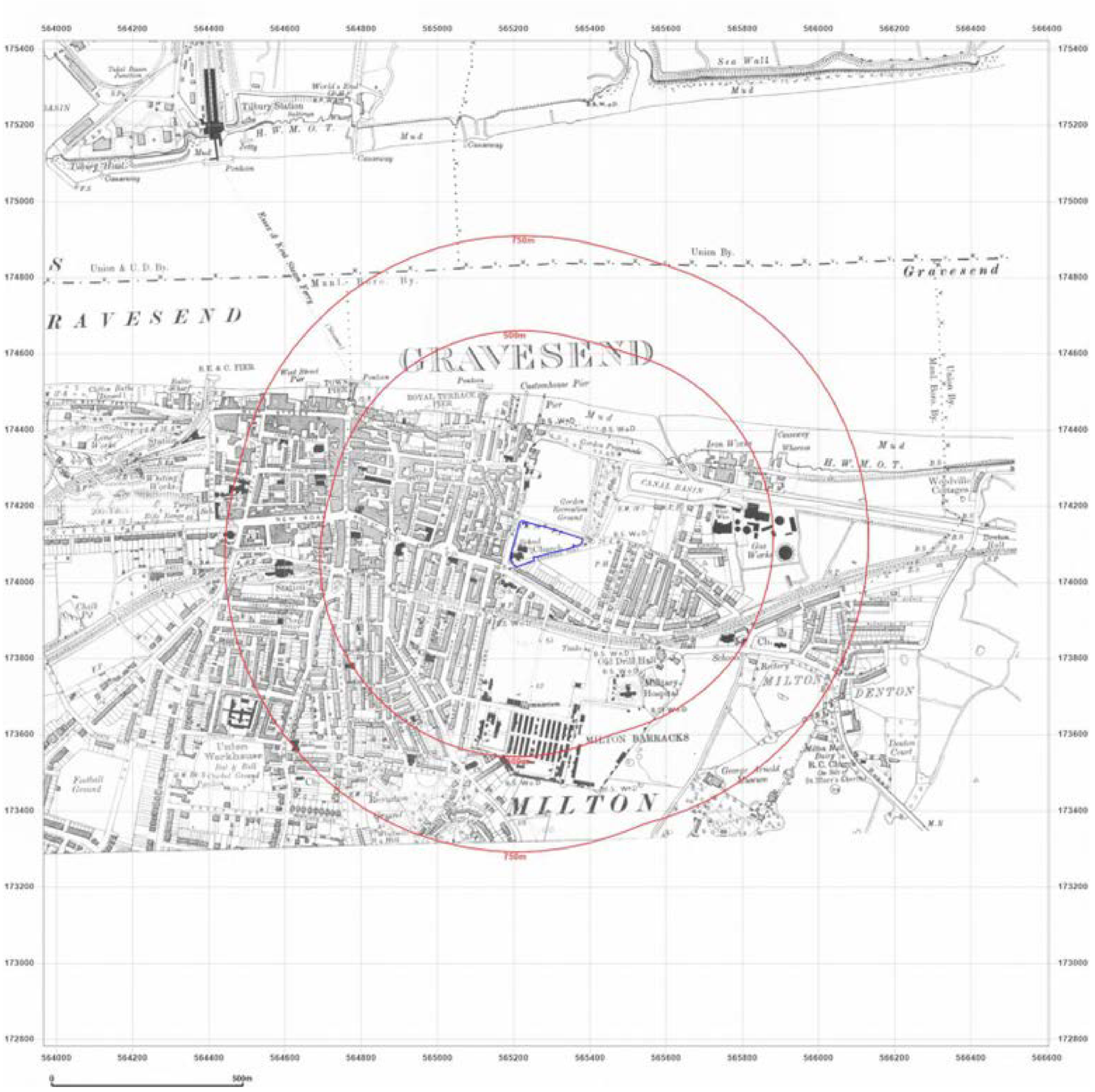
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Site Details:

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Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

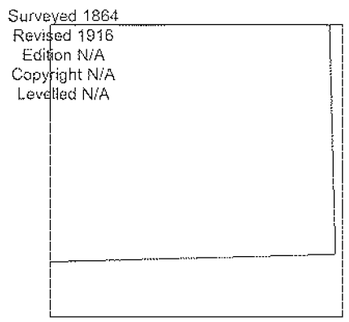
Map Name: County Series

Map date: **1916**

Scale: 1:10,560

Printed at: 1:10,560

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Site Details:

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Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: County Series

Map date: 1923

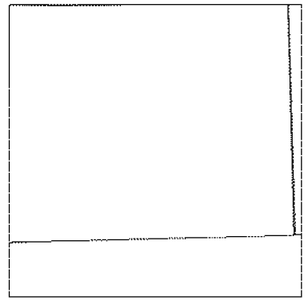
Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1864
Revised 1923
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1862
Revised 1923
Edition N/A
Copyright N/A
Levelled N/A



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Site Details:

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Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

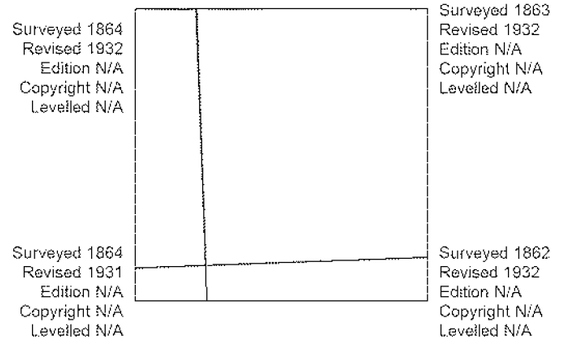
Map Name: County Series

Map date: **1931-1932**

Scale: 1:10,560

Printed at: 1:10,560

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Site Details:

GWPR6764

Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
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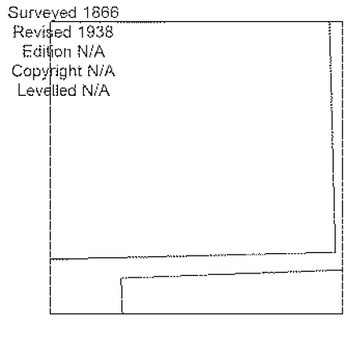
Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560

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Site Details:

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Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1864
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

Surveyed 1864
Revised 1938
Edition N/A
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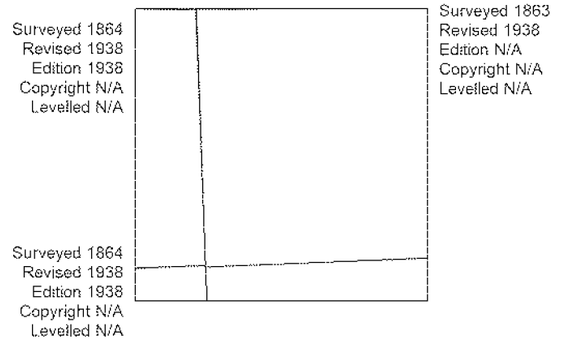
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Map Name: County Series
Map date: 1938
Scale: 1:10,560
Printed at: 1:10,560

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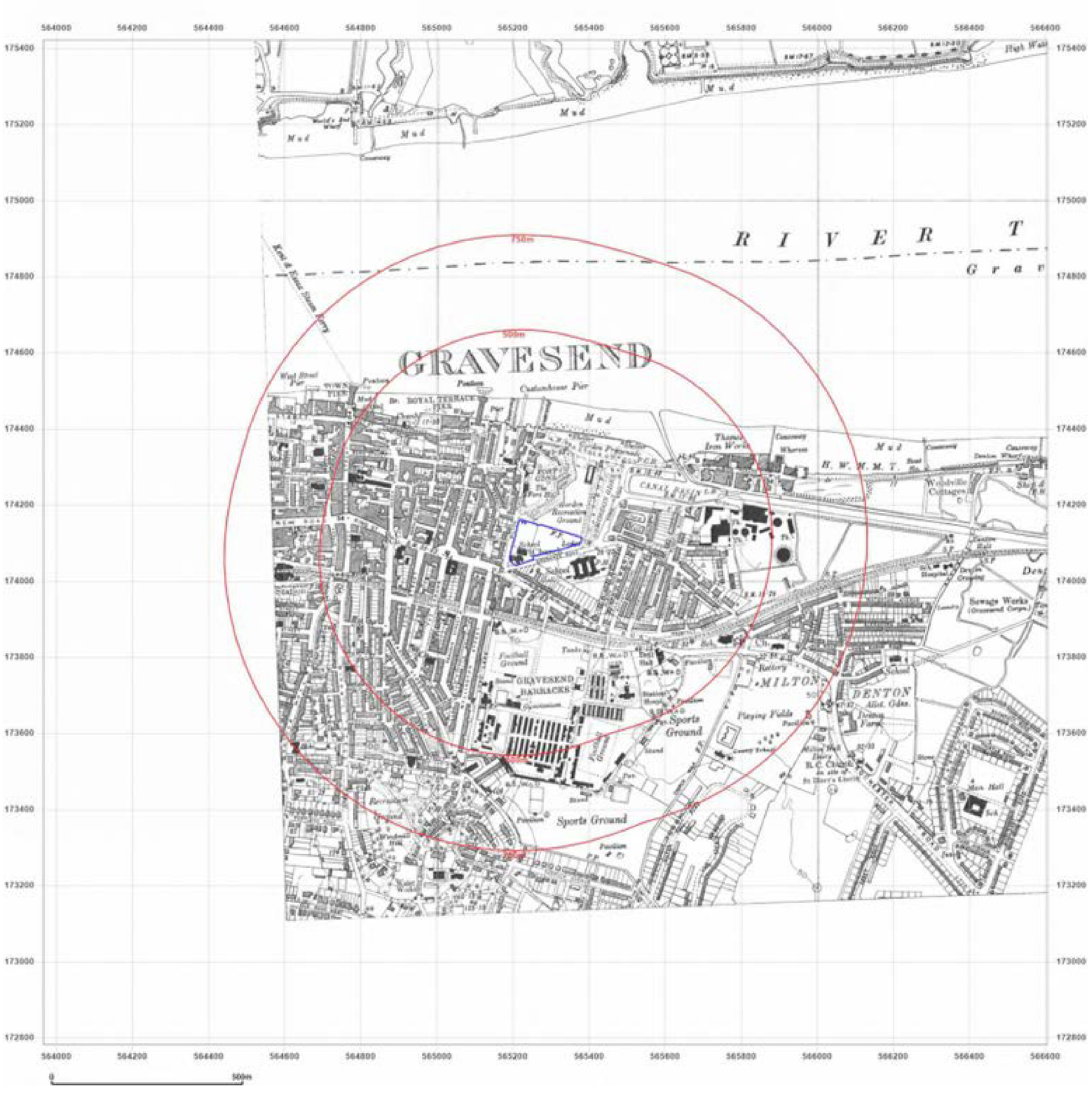
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Site Details:

GWPR6764

Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: County Series

Map date: **1951**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1863
Revised 1948
Edition 1951
Copyright N/A
Levelled N/A

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Site Details:

GWPR6764

Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: Provisional
Map date: **1955**
Scale: 1:10,560
Printed at: 1:10,560

N
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Surveyed 1864
Revised 1955
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1864
Revised 1955
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1864
Revised 1955
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1863
Revised 1955
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

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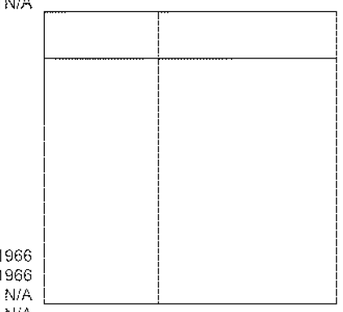
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Grid Ref: 565285, 174101

Map Name: Provisional
Map date: **1966-1967**
Scale: 1:10,560
Printed at: 1:10,560

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Surveyed 1966
Revised 1966
Edition N/A
Copyright N/A
Levelled N/A

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



Surveyed 1966
Revised 1966
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1966
Revised 1966
Edition N/A
Copyright N/A
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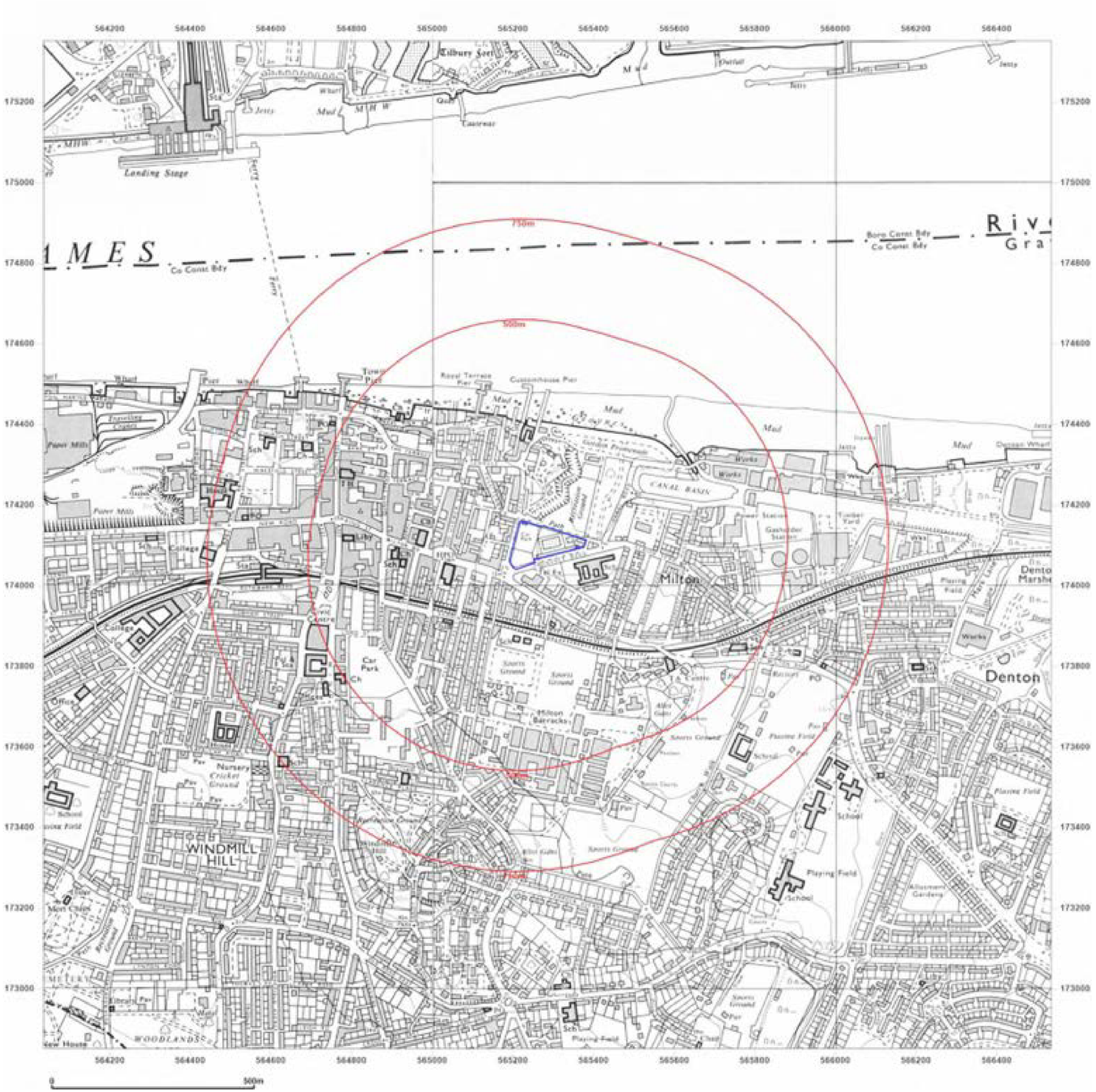
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Site Details:

GWPR6764

Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: National Grid

Map date: **1971-1973**

Scale: 1:10,000

Printed at: 1:10,000

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Revised 1973
Edition N/A
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Surveyed 1972
Revised 1973
Edition N/A
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Revised 1971
Edition N/A
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Levelled N/A

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Revised 1973
Edition N/A
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Levelled N/A

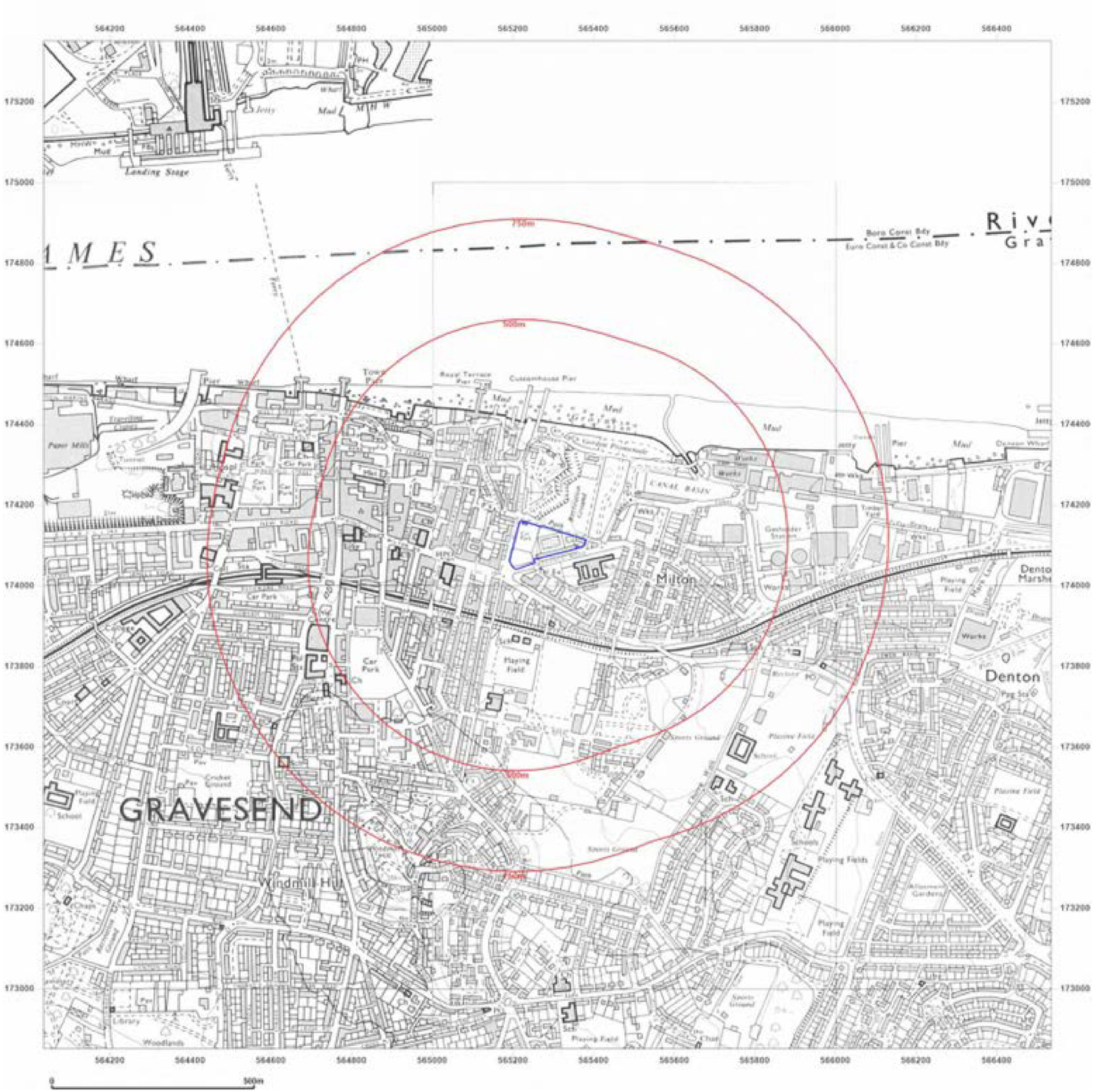
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Groundsure INSIGHTS

Site Details:

GWPR6764

Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: National Grid

Map date: **1977-1982**

Scale: 1:10,000

Printed at: 1:10,000

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Revised 1982
Edition N/A
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Surveyed 1977
Revised 1977
Edition N/A
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Surveyed 1980
Revised 1981
Edition N/A
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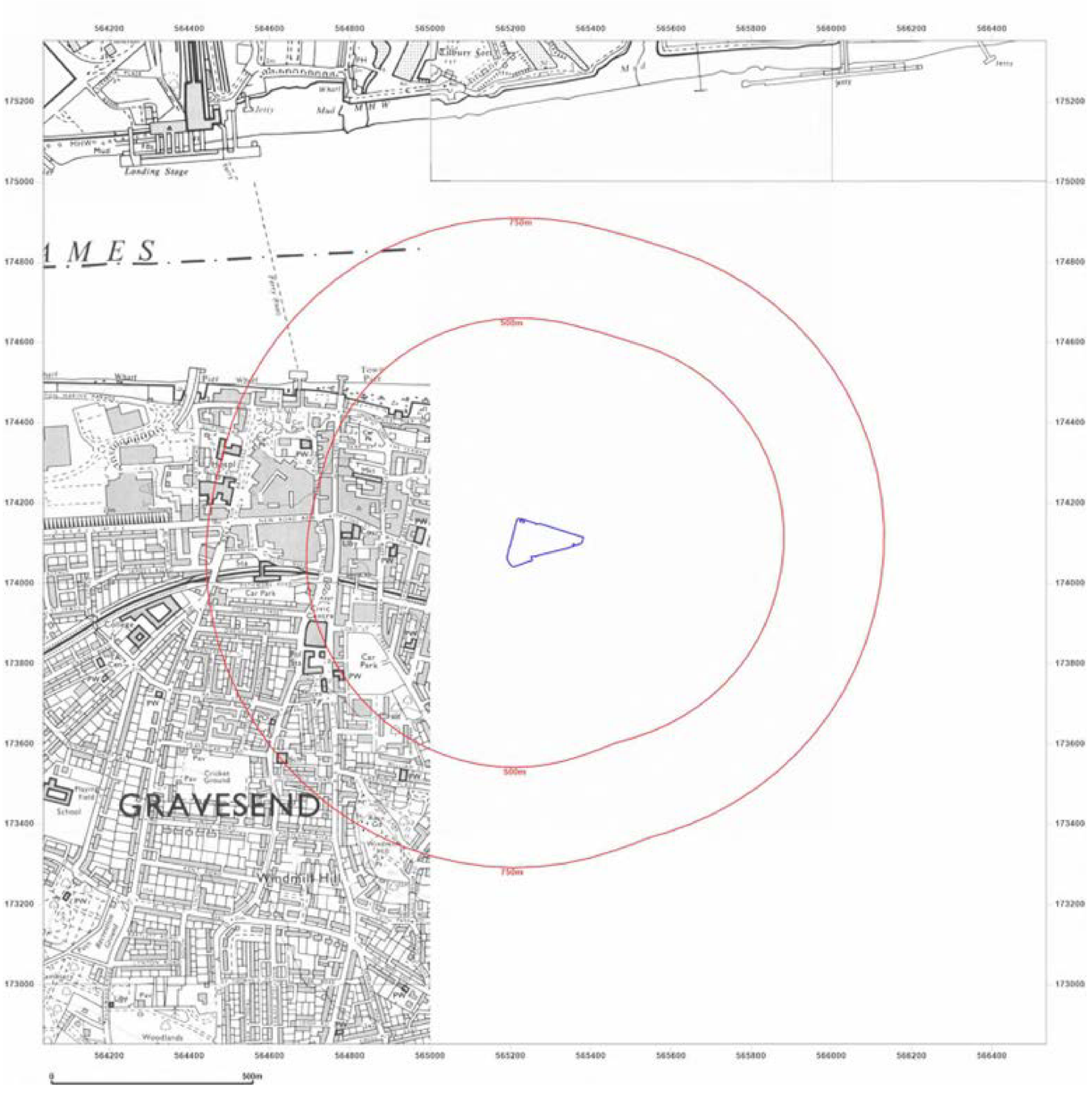
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Groundsure INSIGHTS

Site Details:

GWPR6764

Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: National Grid

Map date: **1990-1992**

Scale: 1:10,000

Printed at: 1:10,000

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Edition N/A
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Surveyed 1990
Revised 1991
Edition N/A
Copyright N/A
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Surveyed 1988
Revised 1990
Edition N/A
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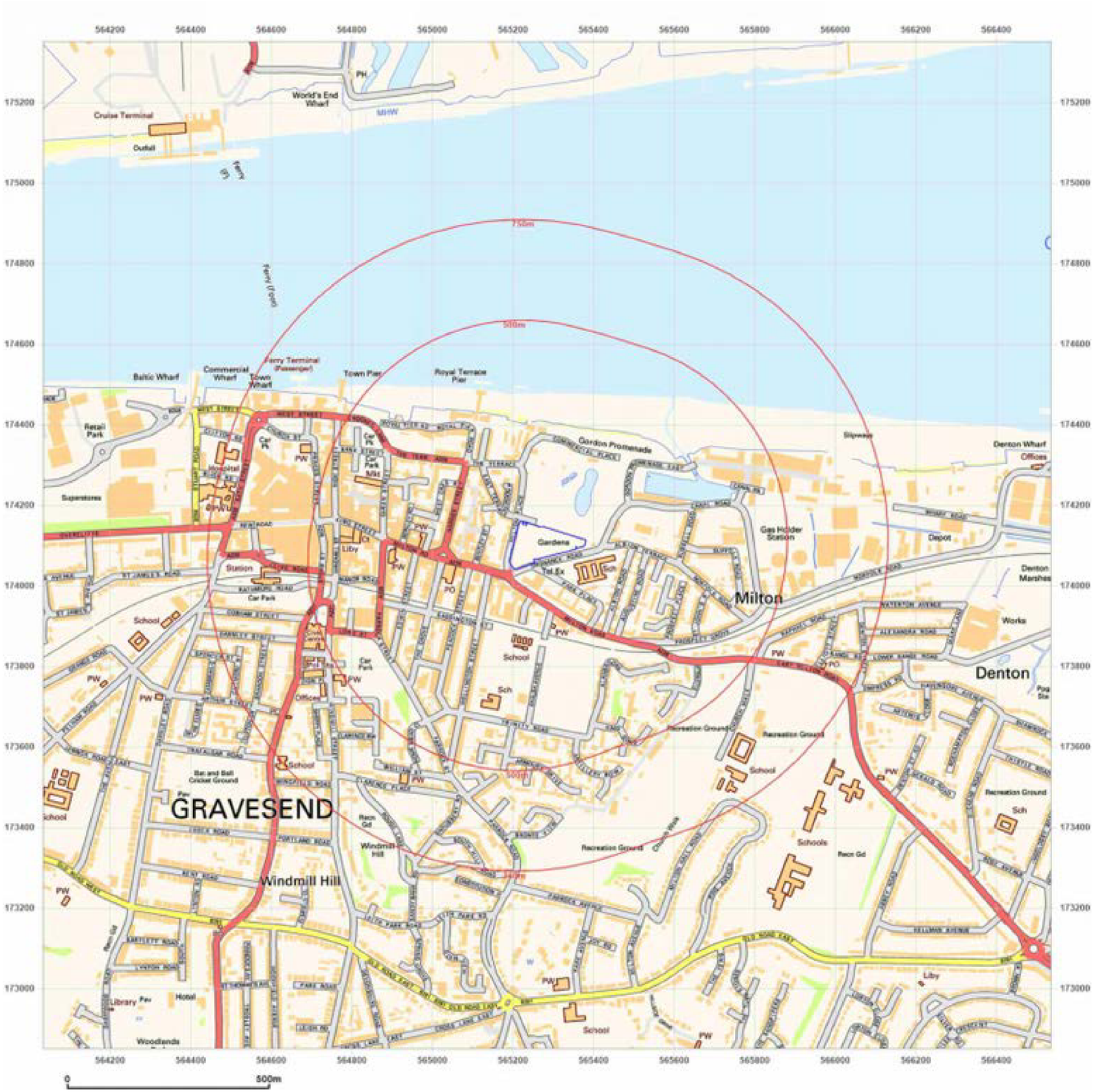
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Site Details:

GWPR6764

Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: National Grid

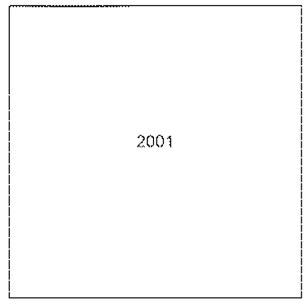
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Scale: 1:10,000

Printed at: 1:10,000

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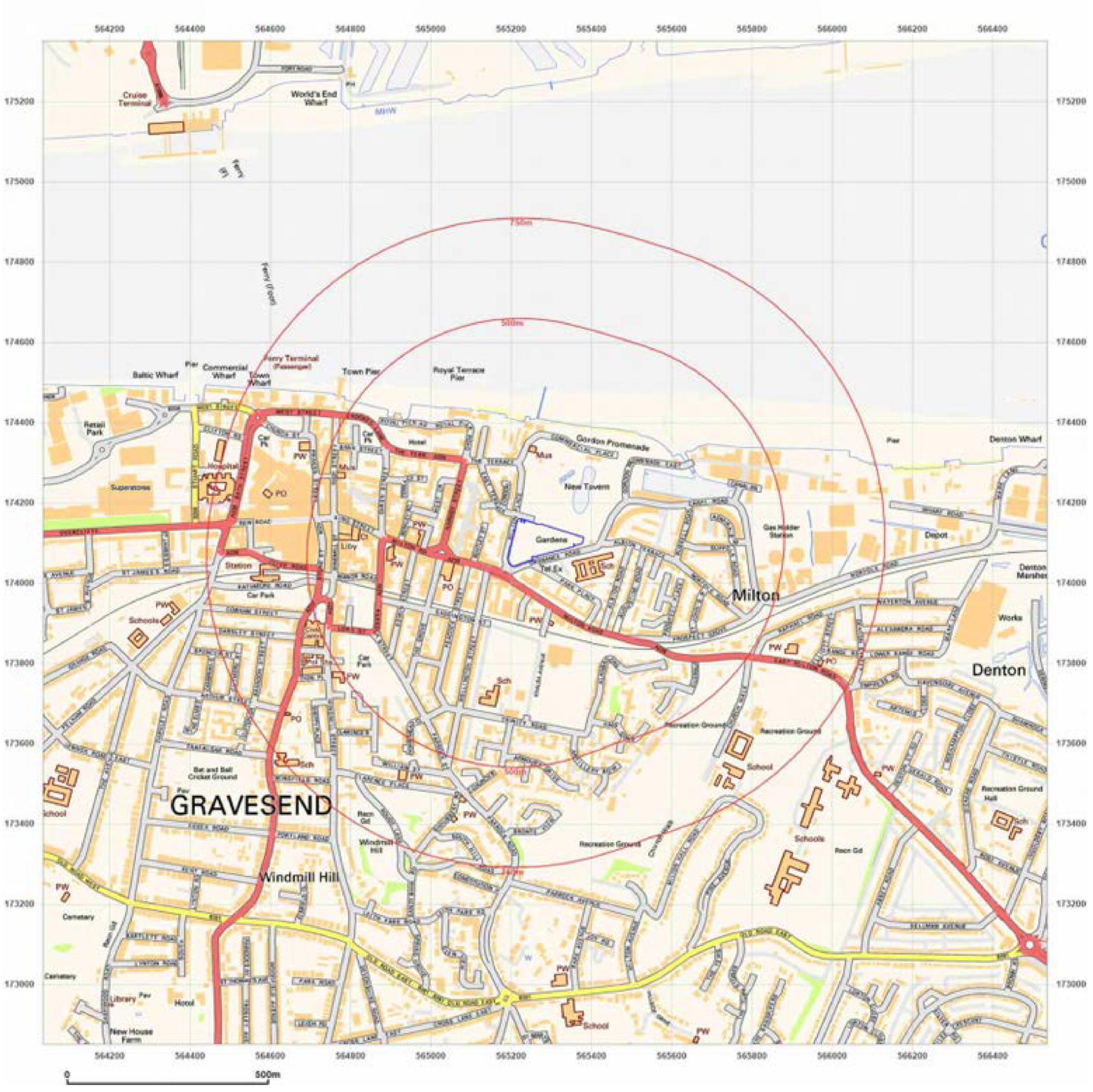
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Site Details:

GWPR6764

Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

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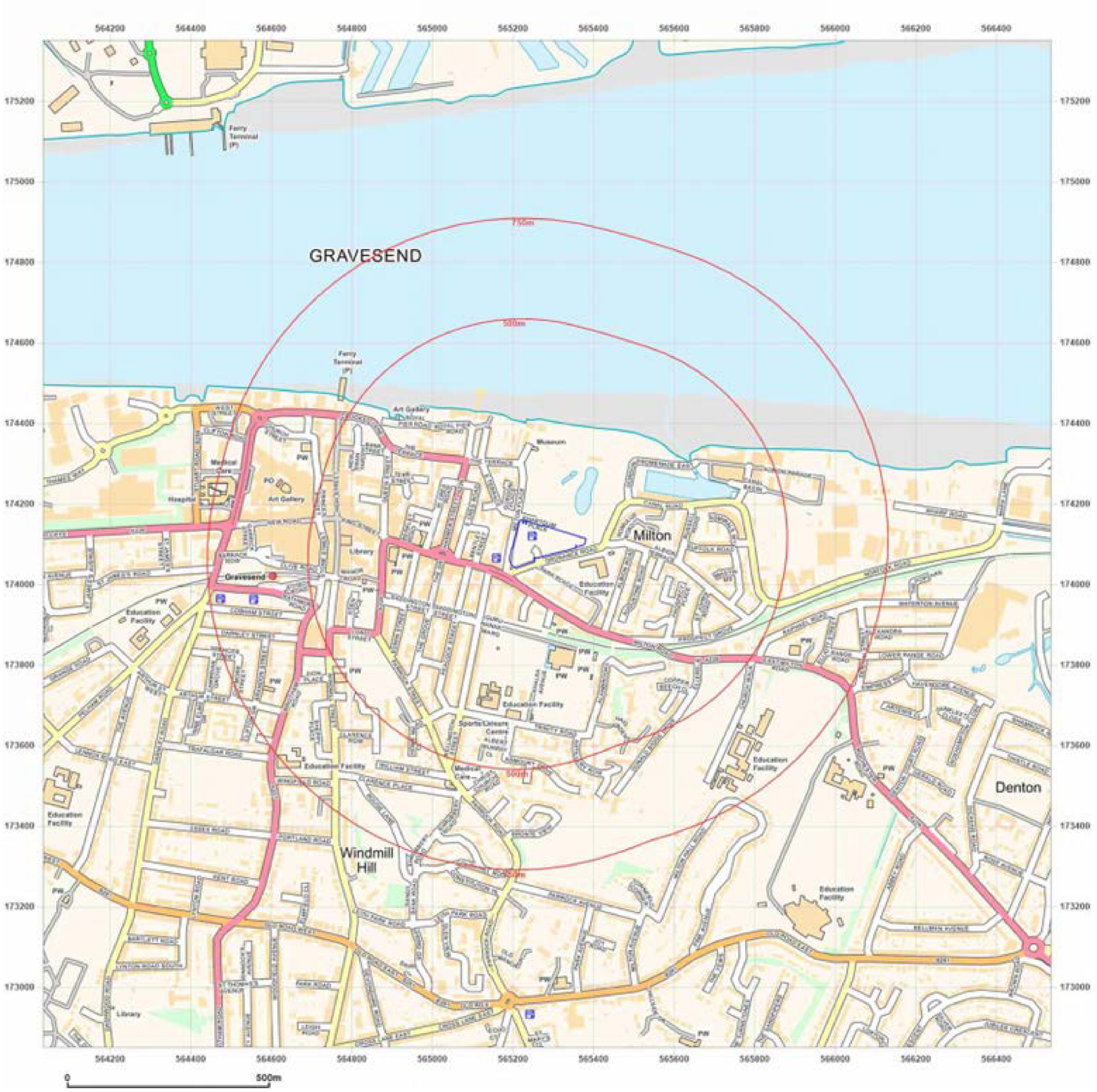
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Groundsure INSIGHTS

Site Details:

GWPR6764

Client Ref: GWPR6764
Report Ref: GS-N56-VJ7-NWI-2A2
Grid Ref: 565285, 174101

Map Name: National Grid

Map date: 2025

Scale: 1:10,000

Printed at: 1:10,000

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2025

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Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

GWPR6764

Order Details

Date: 04/12/2025

Your ref: GWPR6764

Our Ref: GS-O7U-BP4-49Z-Y3M

Site Details

Location: 565266 174103

Area: 1.23 ha

Authority: Gravesham Borough Council ↗



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Summary of findings p. 2 >

Aerial image p. 9 >

OS MasterMap site plan p.14 >

Insight User Guide ↗

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Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	0	4	49	145	-
23 >	1.2 >	Historical tanks >	0	0	13	59	-
26 >	1.3 >	Historical energy features >	1	4	14	42	-
28	1.4	Historical petrol stations	0	0	0	0	-
28 >	1.5 >	Historical garages >	0	3	25	12	-
30	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
31 >	2.1 >	Historical industrial land uses >	0	8	72	183	-
41 >	2.2 >	Historical tanks >	0	0	22	85	-
45 >	2.3 >	Historical energy features >	1	4	24	72	-
49	2.4	Historical petrol stations	0	0	0	0	-
49 >	2.5 >	Historical garages >	0	4	32	19	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
52	3.1	Active or recent landfill	0	0	0	0	-
52	3.2	Historical landfill (BGS records)	0	0	0	0	-
53	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
53 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	1	-
53 >	3.5 >	Historical waste sites >	0	0	0	1	-
54	3.6	Licensed waste sites	0	0	0	0	-
54 >	3.7 >	Waste exemptions >	0	0	0	24	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
56 >	4.1 >	Recent industrial land uses >	0	3	22	-	-
58	4.2	National Geographic Database (NGD) - Current or recent tanks	0	0	0	-	-
58 >	4.3 >	Current or recent petrol stations >	0	0	1	0	-
59	4.4	Electricity cables	0	0	0	0	-
59	4.5	Gas pipelines	0	0	0	0	-

59	4.6	Sites determined as Contaminated Land	0	0	0	0	-
59 >	4.7 >	Control of Major Accident Hazards (COMAH) >	0	0	0	1	-
59	4.8	Regulated explosive sites	0	0	0	0	-
60 >	4.9 >	Hazardous substance storage/usage >	0	0	0	3	-
60	4.10	Historical licensed industrial activities (IPC)	0	0	0	0	-
60	4.11	Licensed industrial activities (Part A(1))	0	0	0	0	-
61 >	4.12 >	Licensed pollutant release (Part A(2)/B) >	0	0	1	3	-
61 >	4.13 >	Radioactive Substance Authorisations >	0	0	0	2	-
62 >	4.14 >	Licensed Discharges to controlled waters >	0	0	1	12	-
64	4.15	Pollutant release to surface waters (Red List)	0	0	0	0	-
64	4.16	Pollutant release to public sewer	0	0	0	0	-
64	4.17	List 1 Dangerous Substances	0	0	0	0	-
65	4.18	List 2 Dangerous Substances	0	0	0	0	-
65 >	4.19 >	Pollution Incidents (EA/NRW) >	0	1	1	11	-
66	4.20	Pollution inventory substances	0	0	0	0	-
67	4.21	Pollution inventory waste transfers	0	0	0	0	-
67	4.22	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
68 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
70 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
72 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
73 >	5.4 >	Groundwater vulnerability- soluble rock risk >	Identified (within 0m)				
74 >	5.5 >	Groundwater vulnerability- local information >	Identified (within 0m)				
75 >	5.6 >	Groundwater abstractions >	0	0	0	0	9
78	5.7	Surface water abstractions	0	0	0	0	0
78 >	5.8 >	Potable abstractions >	0	0	0	0	2
79 >	5.9 >	Source Protection Zones >	0	0	0	1	-
79	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m

80	6.1	Water Network (OS MasterMap)	0	0	0	-	-
80 >	6.2 >	Surface water features >	0	0	5	-	-
81 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
81	6.4	WFD Surface water bodies	0	0	0	-	-
81 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
83 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
84	7.2	Historical Flood Events	0	0	0	-	-
84 >	7.3 >	Flood Defences >	0	0	1	-	-
84 >	7.4 >	Areas Benefiting from Flood Defences >	0	1	2	-	-
85	7.5	Flood Storage Areas	0	0	0	-	-
86 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
87 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
88 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
90 >	9.1 >	Groundwater flooding >	High (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
91 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	1
92 >	10.2 >	Conserved wetland sites (Ramsar sites) >	0	0	0	0	1
92	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
92	10.4	Special Protection Areas (SPA)	0	0	0	0	0
93	10.5	National Nature Reserves (NNR)	0	0	0	0	0
93	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
93	10.7	Designated Ancient Woodland	0	0	0	0	0
93	10.8	Biosphere Reserves	0	0	0	0	0
94	10.9	Forest Parks	0	0	0	0	0
94	10.10	Marine Conservation Zones	0	0	0	0	0
94 >	10.11 >	Green Belt >	0	0	0	0	2

94	10.12	Proposed Ramsar sites	0	0	0	0	0
95	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
95	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
95	10.15	Nitrate Sensitive Areas	0	0	0	0	0
95 >	10.16 >	Nitrate Vulnerable Zones >	0	0	0	1	1
97	10.17	SSSI Impact Risk Zones	0	-	-	-	-
98 >	10.18 >	SSSI Units >	0	0	0	0	1
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
100	11.1	World Heritage Sites	0	0	0	-	-
101	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
101	11.3	National Parks	0	0	0	-	-
101 >	11.4 >	Listed Buildings >	0	6	26	-	-
103 >	11.5 >	Conservation Areas >	1	1	2	-	-
103 >	11.6 >	Scheduled Ancient Monuments >	0	1	0	-	-
104	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
105 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
106 >	12.2 >	Open Access Land >	0	0	1	-	-
106	12.3	Tree Felling Licences	0	0	0	-	-
106	12.4	Environmental Stewardship Schemes	0	0	0	-	-
106	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
107 >	13.1 >	Priority Habitat Inventory >	0	2	4	-	-
108 >	13.2 >	Habitat Networks >	2	2	1	-	-
108	13.3	Open Mosaic Habitat	0	0	0	-	-
108	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
110 >	14.1 >	10k Availability >	Identified (within 500m)				
111 >	14.2 >	Artificial and made ground (10k) >	2	2	3	3	-

113 >	14.3 >	Superficial geology (10k) >	1	1	2	5	-
114	14.4	Landslip (10k)	0	0	0	0	-
115 >	14.5 >	Bedrock geology (10k) >	1	0	3	0	-
116	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	**Geology 1:50,000 scale** >	On site	0-50m	50-250m	250-500m	500-2000m
117 >	15.1 >	50k Availability >	Identified (within 500m)				
118 >	15.2 >	Artificial and made ground (50k) >	0	2	2	2	-
119 >	15.3 >	Artificial ground permeability (50k) >	0	1	-	-	-
120 >	15.4 >	Superficial geology (50k) >	1	1	2	2	-
121 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
121	15.6	Landslip (50k)	0	0	0	0	-
121	15.7	Landslip permeability (50k)	None (within 50m)				
122 >	15.8 >	Bedrock geology (50k) >	1	0	1	0	-
123 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
123	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	**Boreholes** >	On site	0-50m	50-250m	250-500m	500-2000m
124 >	16.1 >	BGS Boreholes >	0	3	24	-	-
Page	Section	**Natural ground subsidence** >					
126 >	17.1 >	Shrink swell clays >	Low (within 50m)				
128 >	17.2 >	Running sands >	Low (within 50m)				
130 >	17.3 >	Compressible deposits >	High (within 50m)				
132 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
133 >	17.5 >	Landslides >	Very low (within 50m)				
135 >	17.6 >	Ground dissolution of soluble rocks >	High (within 50m)				
Page	Section	**Mining and ground workings** >	On site	0-50m	50-250m	250-500m	500-2000m
137	18.1	BritPits	0	0	0	0	-
138 >	18.2 >	Surface ground workings >	4	4	52	-	-
140 >	18.3 >	Underground workings >	0	0	0	0	1
140	18.4	Underground mining extents	0	0	0	0	-

141	18.5	Historical Mineral Planning Areas	0	0	0	0	-
141 >	18.6 >	Non-coal mining >	1	0	1	0	10
142	18.7	JPB mining areas	None (within 0m)				
143	18.8	The Coal Authority non-coal mining	0	0	0	0	-
143 >	18.9 >	Researched mining >	0	0	0	1	-
143	18.10	Mining record office plans	0	0	0	0	-
143	18.11	BGS mine plans	0	0	0	0	-
144	18.12	Coal mining	None (within 0m)				
144	18.13	Brine areas	None (within 0m)				
144	18.14	Gypsum areas	None (within 0m)				
144	18.15	Tin mining	None (within 0m)				
144	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes >	On site	0-50m	50-250m	250-500m	500-2000m
145 >	19.1 >	Natural cavities >	0	0	0	1	-
146 >	19.2 >	Mining cavities >	0	0	0	0	3
146	19.3	Reported recent incidents	0	0	0	0	-
146	19.4	Historical incidents	0	0	0	0	-
Page	Section	Radon >					
147 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
149 >	21.1 >	BGS Estimated Background Soil Chemistry >	1	4	-	-	-
149	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
150	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
151	22.1	Underground railways (London)	0	0	0	-	-
151	22.2	Underground railways (Non-London)	0	0	0	-	-
152	22.3	Railway tunnels	0	0	0	-	-
152 >	22.4 >	Historical railway and tunnel features >	0	0	4	-	-
152	22.5	Royal Mail tunnels	0	0	0	-	-

153	22.6	Historical railways	0	0	0	-	-
153 >	**22.7 >**	**Railways >**	0	0	8	-	-
153	22.8	Crossrail 2	0	0	0	0	-
154	22.9	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 31/05/2021

Site Area: 1.23ha

Recent site history - 2018 aerial photograph



Capture Date: 01/09/2018

Site Area: 1.23ha

Recent site history - 2014 aerial photograph



Capture Date: 31/07/2014

Site Area: 1.23ha

Recent site history - 2009 aerial photograph



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Capture Date: 27/09/2009

Site Area: 1.23ha

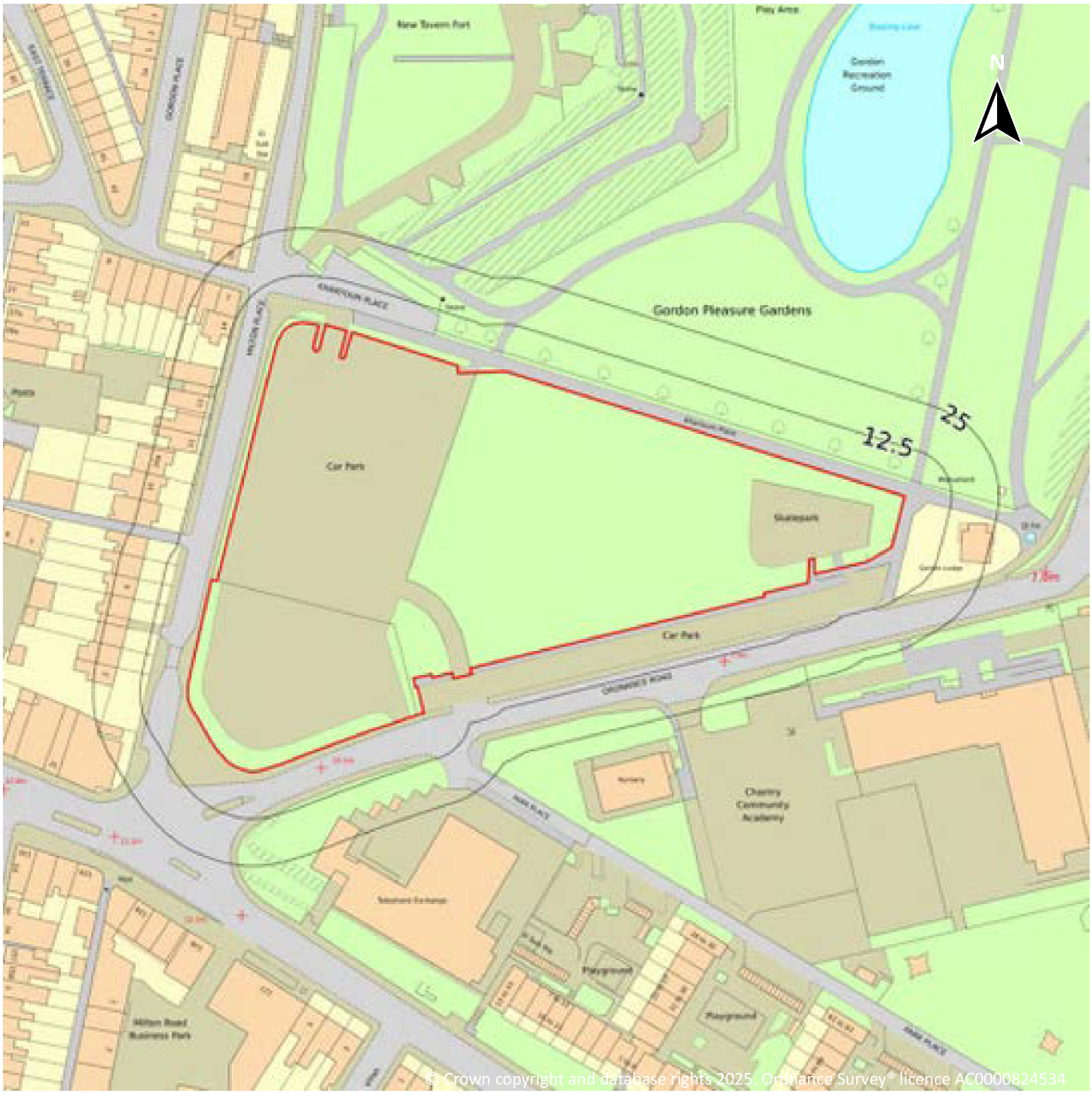
Recent site history - 1999 aerial photograph



Capture Date: 03/09/1999

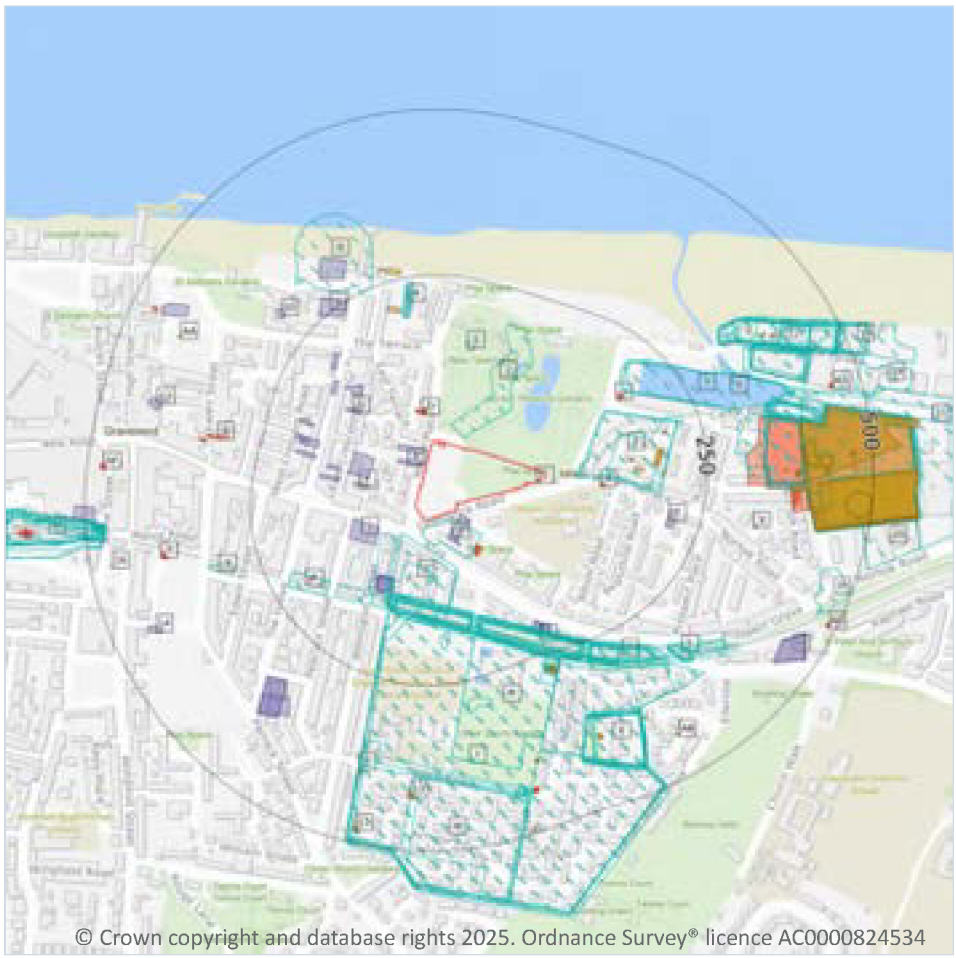
Site Area: 1.23ha

OS MasterMap site plan



Site Area: 1.23ha

1 Past land use



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

1.1 Historical industrial land uses

Records within 500m	198

Potentially contaminative land use features digitised from historical Ordnance Survey® mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 15 >**

ID	Location	Land use	Dates present	Group ID
B	10m S	Telephone Exchange	1973 - 1981	2216808

ID	Location	Land use	Dates present	Group ID
2	14m N	Unspecified Ground Workings	1955 - 1981	2280321
C	36m SW	Brewery	1895	2207547
C	49m SW	Brewery	1888	2159119
E	52m E	Sawmill	1932	2313752
E	54m E	Sawmill	1938 - 1951	2272176
C	61m S	Brewery	1895	2308979
C	81m S	Brewery	1895	2242940
C	85m S	Unspecified Tank	1895	2190539
E	99m E	Unspecified Works	1981	2182397
C	119m S	Cuttings	1916	2260015
C	120m S	Cuttings	1938	2262171
C	121m S	Cuttings	1895	2228506
H	121m S	Cuttings	1938	2224869
C	125m S	Cuttings	1955 - 1981	2320835
H	126m S	Cuttings	1932	2325595
H	126m S	Cuttings	1895	2318211
H	126m S	Cuttings	1895	2324749
C	127m S	Cuttings	1951	2213863
C	127m S	Cuttings	1895	2288828
C	127m S	Cuttings	1907	2318233
C	127m S	Cuttings	1938	2324035
C	128m SW	Cuttings	1955 - 1981	2229417
C	130m S	Cuttings	1888	2258801
C	132m S	Cuttings	1923	2269165
C	139m SW	Cuttings	1955 - 1981	2252369
I	142m S	Barracks	1938	2236102
5	144m N	Unspecified Tank	1955 - 1981	2221051
I	146m S	Barracks	1932 - 1938	2241091

ID	Location	Land use	Dates present	Group ID
I	147m S	Barracks	1955 - 1973	2220626
I	153m S	Barracks	1923	2304167
H	162m S	Cuttings	1916	2287361
H	162m S	Cuttings	1895	2285218
H	163m S	Cuttings	1938	2263723
H	167m S	Cuttings	1888	2297814
H	168m S	Cuttings	1955 - 1981	2290139
K	169m SW	Cuttings	1955 - 1966	2209840
K	169m SW	Cuttings	1973	2274381
H	172m S	Cuttings	1907	2207053
H	172m S	Cuttings	1938	2264612
H	172m S	Cuttings	1895	2302079
H	172m S	Cuttings	1951	2322215
C	172m S	Unspecified Heap	1955	2186818
L	172m NE	Canal Basin	1888	2264311
H	175m S	Cuttings	1923	2209380
L	175m NE	Canal Basin	1895	2273341
6	182m NE	Disused Canal	1966	2267240
M	187m S	Barracks	1951	2221536
M	187m S	Barracks	1938	2247959
N	190m N	Coastguard Station	1895	2309116
N	192m N	Coastguard Station	1888	2282740
N	197m N	Coastguard Station	1895	2293020
O	248m NW	Unspecified Wharf	1932 - 1951	2275753
P	254m S	Cuttings	1938	2251473
P	258m S	Cuttings	1907	2317066
P	258m S	Cuttings	1938	2320322
P	258m S	Cuttings	1951	2328474

ID	Location	Land use	Dates present	Group ID
P	259m S	Cuttings	1888 - 1895	2318880
P	262m S	Cuttings	1923	2257818
H	265m S	Unspecified Tanks	1938	2230731
H	266m S	Tanks	1916	2174782
H	269m S	Unspecified Tanks	1932	2246333
H	270m S	Unspecified Tanks	1951	2203269
H	270m S	Unspecified Tanks	1907	2307840
H	273m S	Unspecified Tanks	1923	2213703
M	277m S	Unspecified Quarry	1865	2185178
9	289m W	Railway Building	1955	2195547
Q	293m E	Unspecified Commercial/Industrial	1932	2271924
Q	309m E	Power Station	1973	2158347
S	315m SE	Cuttings	1916	2240164
S	318m SE	Cuttings	1938	2223782
S	320m SE	Cuttings	1907	2238388
S	320m SE	Cuttings	1938	2285375
S	320m SE	Cuttings	1951	2307685
U	328m NE	Iron Works	1895	2297867
U	330m NE	Iron Works	1888	2302459
U	331m NE	Iron Works	1895	2246647
S	332m SE	Cuttings	1923	2298997
U	332m NE	Iron Works	1938	2242599
Q	336m E	Unspecified Commercial/Industrial	1938	2236071
Q	336m E	Unspecified Commercial/Industrial	1938	2258803
U	336m NE	Soap Works	1865 - 1888	2236361
Q	337m E	Electricity Works	1923	2167384
Q	337m E	Electric Works	1916	2173888
Q	338m E	Coal Store	1865	2169837

ID	Location	Land use	Dates present	Group ID
S	338m SE	Railway Station	1916	2228773
U	339m NE	Unspecified Works	1966 - 1973	2238917
U	342m NE	Unspecified Works	1981	2205693
S	342m SE	Railway Station	1938	2234427
Q	342m E	Railway Sidings	1966	2277719
W	344m S	Barracks	1895	2270209
S	345m SE	Railway Building	1923	2195819
U	349m NE	Soap Works	1895	2204618
Q	350m E	Railway Sidings	1907	2203015
Q	350m E	Railway Sidings	1938 - 1951	2272315
Q	351m E	Railway Sidings	1938	2247197
U	351m NE	Unspecified Works	1966 - 1981	2300827
Q	351m E	Railway Sidings	1938	2249030
U	352m NE	Soap Works	1895	2292018
U	352m NE	Iron Works	1932	2207092
U	353m NE	Soap Works	1895	2210618
X	353m S	Military Hospital	1916	2231418
U	354m NE	Unspecified Works	1955	2256872
X	356m S	Hospital	1938	2203609
X	356m S	Hospital	1895	2271885
Q	357m E	Railway Sidings	1923 - 1932	2230146
X	357m S	Hospital	1932	2278948
X	358m S	Military Hospital	1938	2306242
X	361m S	Hospital	1895	2224287
X	361m S	Hospital	1923 - 1938	2270172
X	361m S	Hospital	1951	2295730
X	361m S	Hospital	1907	2301818
X	362m S	Station Hospital	1895	2288447

ID	Location	Land use	Dates present	Group ID
X	364m S	Station Hospital	1888	2225999
U	367m NE	Iron Works	1938 - 1951	2299870
I	374m S	Barracks	1916	2330734
Q	375m E	Unspecified Works	1955	2182565
Q	375m E	Unspecified Commercial/Industrial	1966	2269849
W	382m S	Barracks	1907	2293463
W	385m S	Barracks	1865	2324418
W	388m S	Barracks	1888	2285959
U	390m NE	Iron Works	1907	2309167
Q	392m E	Gas Works	1907	2202788
Q	392m E	Gas Works	1888 - 1895	2329608
Q	394m E	Unspecified Tanks	1895	2315504
Q	395m E	Unspecified Tank	1938	2253277
Q	395m E	Unspecified Tanks	1907	2268695
Q	395m E	Unspecified Tanks	1951	2278855
Q	395m E	Unspecified Commercial/Industrial	1938 - 1951	2255705
Q	395m E	Unspecified Tank	1932	2284824
Q	395m E	Gasometers	1888	2268834
U	396m NE	Iron Works	1916	2271252
Q	396m E	Gas Works	1895	2290023
Q	396m E	Gas Works	1865	2331282
Q	397m E	Unspecified Tank	1938	2209879
Q	397m E	Gas Works	1895	2325548
Q	397m E	Gas Works	1916 - 1923	2300346
Q	397m E	Unspecified Tank	1938	2302565
Q	398m E	Gasometer	1895	2161481
Q	398m E	Gasometers	1865	2296554
Q	398m E	Unspecified Tank	1907	2318194

ID	Location	Land use	Dates present	Group ID
Q	399m E	Gasometer	1895	2161434
Q	399m E	Gasometers	1865	2314119
Q	399m E	Gasometers	1916	2294773
Q	399m E	Unspecified Tanks	1938	2290752
Q	399m E	Gasometers	1923	2223255
Q	399m E	Gasometers	1895	2267533
11	400m E	Timber Yard	1973 - 1981	2250413
U	401m NE	Iron Works	1923	2288467
Q	408m E	Refuse Heap	1888	2204999
Q	408m E	Refuse Heap	1895	2297916
Q	413m E	Refuse Heap	1895	2302522
Q	413m E	Refuse Heap	1895	2308927
Q	415m E	Unspecified Ground Workings	1938 - 1951	2293314
Q	415m E	Unspecified Heap	1932	2323441
Q	416m E	Unspecified Tank	1895	2327566
Q	417m E	Unspecified Tank	1938	2314183
Q	418m E	Gasometers	1865	2291742
Q	419m E	Gasometer	1895	2261241
Q	420m E	Gas Holder Station	1973 - 1981	2321505
Q	422m E	Gasometer	1923	2250546
I	427m S	Engine House	1888 - 1895	2252447
Q	428m E	Unspecified Tank	1932	2210279
Q	428m E	Unspecified Tank	1951	2312798
Q	428m E	Unspecified Tank	1938	2324945
I	429m S	Engine House	1895 - 1907	2222187
I	434m S	Engine House	1895	2230335
I	435m S	Engine House	1865	2329121
U	439m NE	Iron Works	1888	2236996

ID	Location	Land use	Dates present	Group ID
U	440m NE	Iron Works	1895	2323432
U	440m NE	Iron Works	1895	2329264
U	443m NE	Iron Works	1895	2243828
15	447m E	Unspecified Heap	1865	2186820
Q	462m E	Unspecified Tanks	1973 - 1981	2302956
AE	469m W	Railway Sidings	1990	2229259
AE	469m W	Railway Sidings	1971	2287784
AE	469m W	Railway Sidings	1977	2330977
AE	469m W	Railway Building	1895	2221688
AE	471m W	Railway Building	1895	2266007
AE	471m W	Railway Sidings	1895	2290267
AE	471m W	Railway Sidings	1966	2277668
AE	471m W	Railway Sidings	1955	2285580
AE	472m W	Railway Sidings	1932 - 1951	2205457
AE	473m W	Railway Sidings	1923	2246454
AE	474m W	Railway Sidings	1907	2240976
AE	474m W	Railway Sidings	1895	2269307
AE	474m W	Railway Sidings	1938	2252863
AE	475m W	Railway Sidings	1938	2234535
AE	478m W	Railway Sidings	1865	2249490
AE	479m W	Railway Building	1865	2257381
AE	480m W	Railway Building	1932	2300375
18	481m NE	Unspecified Wharves	1938	2213164
AE	481m W	Railway Building	1938	2308199
AE	481m W	Railway Building	1865	2195691
AE	483m W	Railway Building	1938	2234082
19	489m E	Unspecified Works	1966	2182558
20	491m E	Unspecified Works	1981	2182564

ID	Location	Land use	Dates present	Group ID
AE	497m W	Railway Sidings	1916	2211374

This data is sourced from Ordnance Survey® / Groundsure.

1.2 Historical tanks

Records within 500m	72

Tank features digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 15 >**

ID	Location	Land use	Dates present	Group ID
C	92m S	Unspecified Tank	1983	432033
C	92m S	Unspecified Tank	1984	422597
C	93m S	Unspecified Tank	1996	407766
C	93m S	Unspecified Tank	1997	417941
C	93m S	Unspecified Tank	1993	426056
E	131m E	Unspecified Tank	1976 - 1980	414472
E	140m E	Tanks	1967 - 1980	420808
E	170m E	Tanks	1967 - 1976	423313
E	170m E	Tanks	1980	402810
E	182m E	Unspecified Tank	1967 - 1980	405323
E	192m E	Unspecified Tank	1976	403725
E	192m E	Unspecified Tank	1980	401359
N	201m N	Unspecified Tank	1953	394713
N	256m N	Unspecified Tank	1958	394719
N	267m N	Tanks	1932	380001
N	268m N	Tanks	1932	380002
H	269m S	Tanks	1955	412440

ID	Location	Land use	Dates present	Group ID
H	272m S	Tanks	1953	430472
H	274m S	Tanks	1909 - 1932	413021
H	275m S	Tanks	1953	399470
Q	317m E	Unspecified Tank	1953 - 1969	411166
V	331m E	Unspecified Tank	1969	402883
V	331m E	Unspecified Tank	1967	411492
V	331m E	Unspecified Tank	1976	418910
V	332m E	Unspecified Tank	1980	403472
Q	365m E	Tanks	1932	380005
Q	367m E	Unspecified Tank	1967	418951
Q	367m E	Unspecified Tank	1953	428135
Q	367m E	Unspecified Tank	1958	405192
Q	367m E	Unspecified Tank	1969	414561
Q	368m E	Tanks	1932	380004
U	376m NE	Unspecified Tank	1976 - 1980	425453
Q	376m E	Gasholder Station	1969	403037
Q	379m E	Unspecified Tank	1866	394720
Q	382m E	Tanks	1932	380006
Q	383m E	Tanks	1932	380003
Q	386m E	Tanks	1932	380007
Q	387m E	Unspecified Tank	1967 - 1969	401417
X	387m SE	Unspecified Tank	1953 - 1955	408083
X	389m S	Unspecified Tank	1953	422124
X	389m S	Unspecified Tank	1970	431970
X	389m S	Unspecified Tank	1955	411083
U	390m NE	Unspecified Tank	1980	394726
Q	393m E	Gas Works	1897 - 1909	417340
I	394m S	Unspecified Tank	1984 - 1993	408302

ID	Location	Land use	Dates present	Group ID
I	395m S	Unspecified Tank	1983	421714
Q	395m E	Unspecified Tank	1932	394722
Q	396m E	Gasometers	1897 - 1909	400683
Q	397m E	Tanks	1932	380008
Q	397m E	Gas Works	1866	420096
Q	399m E	Gasometers	1866	404618
Q	402m E	Gasholder Station	1967	429463
AA	411m NW	Unspecified Tank	1955	406635
AA	411m NW	Unspecified Tank	1953	410767
13	412m S	Unspecified Tank	1952 - 1984	413249
Q	417m E	Gasholder Station	1976	412600
Q	418m E	Gasholder Station	1980	398546
Q	420m E	Unspecified Tank	1953 - 1958	425779
Q	428m E	Unspecified Tank	1932	394715
AB	434m SE	Unspecified Tank	1897	407795
AB	434m SE	Unspecified Tank	1932	423338
Q	451m E	Unspecified Tank	1866	394721
Q	461m E	Gasholder	1969	418322
Q	461m E	Gasholder	1967	399110
Q	461m E	Gasholder	1976	413418
Q	462m E	Gasholder	1980	405109
Q	466m E	Tanks	1897 - 1932	419122
16	467m W	Unspecified Tank	1994	388813
Q	469m E	Tanks	1953 - 1958	406024
17	474m S	Unspecified Tank	1932 - 1970	399475
Q	486m E	Unspecified Tank	1953 - 1958	422786
I	489m S	Unspecified Tank	1953 - 1970	431684

This data is sourced from Ordnance Survey® / Groundsure.

1.3 Historical energy features

Records within 500m	**61**

Energy features digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 15 >**

ID	Location	Land use	Dates present	Group ID
1	**On site**	**Electricity Substation**	**1958**	**269182**
D	43m N	Electricity Substation	1993	281968
D	45m N	Electricity Substation	1986	292121
D	45m N	Electricity Substation	1980	312792
D	48m NW	Electricity Substation	1976	305236
B	61m SE	Electricity Substation	1993	302165
B	63m SE	Electricity Substation	1976	305948
B	63m SE	Electricity Substation	1980	307950
B	63m SE	Electricity Substation	1986	317694
B	63m SE	Electricity Substation	1983	281945
B	64m SE	Electricity Substation	1993 - 1997	297528
B	68m SE	Electricity Substation	1952	301548
B	68m SE	Electricity Substation	1981 - 1984	317674
4	91m E	Electricity Substation	1976 - 1993	305424
J	158m NE	Electricity Substation	1993	266425
J	161m NE	Electricity Substation	1980 - 1986	310621
J	163m NE	Electricity Substation	1980	266416
K	189m SW	Electricity Substation	1983 - 1984	310720
K	189m SW	Electricity Substation	1993 - 1997	284128
R	299m W	Electricity Substation	1978	269181
Q	309m E	Power Station	1967 - 1969	292991

ID	Location	Land use	Dates present	Group ID
R	324m W	Electricity Substation	1983 - 1986	322293
R	330m W	Electricity Substation	1994 - 1996	312369
Q	334m E	Electricity Works	1909	266122
Q	376m E	Gasholder Station	1969 - 1976	297062
Q	377m E	Electricity Transformers	1969	312523
Q	377m E	Electricity Transformers	1967	316813
Q	378m E	Electricity Transformers	1976	314167
Q	379m E	Electricity Substation	1980	273136
Y	383m W	Electricity Substation	1986 - 1994	301209
Y	386m W	Electricity Transformer	1972	276609
Z	386m S	Electricity Substation	1953 - 1955	302107
Z	390m S	Electricity Substation	1983 - 1997	314573
Q	393m E	Gas Works	1897 - 1909	304565
Q	396m E	Gasometers	1897 - 1909	304464
Q	397m E	Gas Works	1866	277354
Q	399m E	Gasometers	1866	320910
U	402m NE	Electricity Substation	1976	302945
U	402m NE	Electricity Substation	1980	283974
Q	402m E	Gasholder Station	1967	309201
Q	418m E	Gasholder Station	1980	285243
I	434m S	Electricity Substation	1983	281498
I	436m S	Electricity Substation	1993 - 1997	309430
I	436m S	Electricity Substation	1952	282623
I	436m S	Electricity Substation	1981 - 1984	303726
AD	451m E	Electricity Transformer	1976	276771
AD	451m E	Electricity Substation	1953 - 1969	284961
AD	453m E	Electricity Substation	1980	283326
AA	461m NW	Electricity Substation	1978 - 1996	312538

ID	Location	Land use	Dates present	Group ID
Q	461m E	Gasholder	1969	295562
Q	461m E	Gasholder	1976	315663
Q	461m E	Gasholder	1967	317473
Q	462m E	Gasholder	1980	300695
AF	471m W	Electricity Substation	1994 - 1996	312163
AF	471m W	Electricity Substation	1978 - 1986	284578
AG	484m SE	Electricity Substation	1983 - 1992	277470
AG	484m SE	Electricity Substation	1994	309272
AG	484m SE	Electricity Substation	1993	320284
AG	486m SE	Electricity Substation	1976	299899
AG	486m SE	Electricity Substation	1953	303676
AG	487m SE	Electricity Substation	1955	311997

This data is sourced from Ordnance Survey® / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

Petrol stations digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey® / Groundsure.

1.5 Historical garages

Records within 500m	40

Garages digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 15 >**

ID	Location	Land use	Dates present	Group ID
A	7m W	Garage	1953	81476
B	11m S	Garage	1953 - 1958	93255
A	12m W	Garage	1958	81478
3	64m SW	Garage	1964 - 1980	91385
F	75m W	Garages	1953	82270
F	78m W	Garages	1958	82273
C	100m SW	Garage	1955	92484
C	100m SW	Garage	1970	91980
C	100m SW	Garage	1953	94619
C	104m SW	Garage	1981	85289
C	104m SW	Garage	1952	94600
G	116m NW	Garage	1953	81473
F	121m W	Garage	1953	81475
F	124m W	Garages	1958	82272
G	129m NW	Garages	1958	82271
F	164m W	Garage	1953	81474
G	164m NW	Garage	1953	81472
F	164m W	Garages	1953	82269
F	180m W	Garages	1958	82274
F	181m W	Garage	1958	81477
G	183m NW	Garage	1958 - 1976	93390
H	199m S	Garage	1953	82770
H	199m S	Garage	1970	85421
7	201m E	Garage	1953 - 1958	93102
H	205m S	Garage	1955	84828
H	212m S	Garage	1952	85125
H	212m S	Garage	1981	95731
8	233m NW	Boat Repair Works	1953	82338

ID	Location	Land use	Dates present	Group ID
O	280m NW	Boat Repair Shed	1958	82103
10	292m NW	Garage	1953 - 1955	93823
T	320m SW	Garage	1994	87960
T	320m SW	Garage	1972	84392
T	338m SW	Garage	1986	93785
T	346m SW	Garage	1953 - 1955	85908
12	402m W	Garage	1953 - 1955	86869
AA	418m NW	Garages	1953 - 1955	84263
14	423m SW	Garage	1953 - 1955	91446
AC	438m SE	Garage	1993 - 1994	88131
AC	438m SE	Garage	1992	87623
AE	484m W	Garages	1953 - 1955	91031

This data is sourced from Ordnance Survey® / Groundsure.

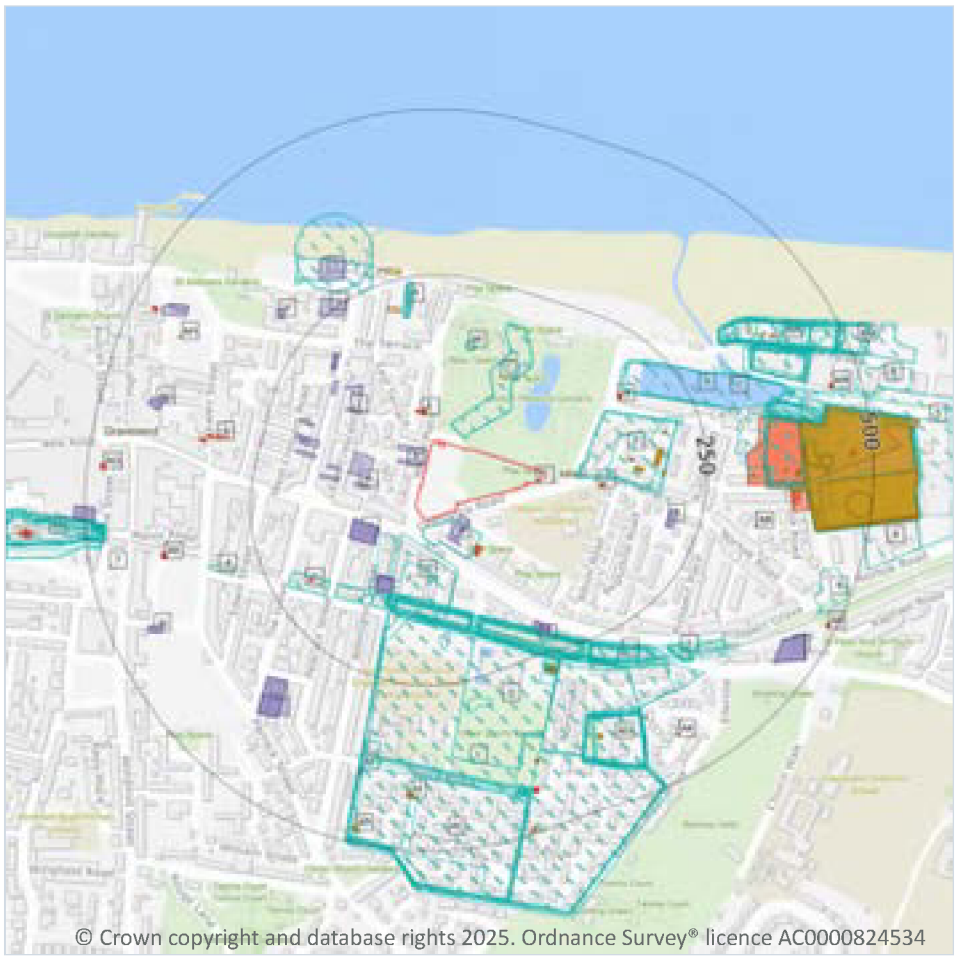
1.6 Historical military land

Records within 500m	0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey® / Groundsure / other sources.

2 Past land use - un-grouped



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

2.1 Historical industrial land uses

Records within 500m	263

Potentially contaminative land use features digitised from historical Ordnance Survey® mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 31 >**

ID	Location	Land Use	Date	Group ID
B	10m S	Telephone Exchange	1981	2216808
B	10m S	Telephone Exchange	1973	2216808
C	14m N	Unspecified Ground Workings	1981	2280321

ID	Location	Land Use	Date	Group ID
C	14m N	Unspecified Ground Workings	1973	2280321
C	14m N	Unspecified Ground Workings	1955	2280321
C	14m N	Unspecified Ground Workings	1966	2280321
D	36m SW	Brewery	1895	2207547
D	49m SW	Brewery	1888	2159119
F	52m E	Sawmill	1932	2313752
F	54m E	Sawmill	1938	2272176
F	54m E	Sawmill	1951	2272176
D	61m S	Brewery	1895	2308979
D	81m S	Brewery	1895	2242940
D	81m S	Brewery	1895	2242940
D	85m S	Unspecified Tank	1895	2190539
F	99m E	Unspecified Works	1981	2182397
D	119m S	Cuttings	1916	2260015
D	120m S	Cuttings	1938	2262171
D	121m S	Cuttings	1895	2228506
K	121m S	Cuttings	1938	2224869
D	125m S	Cuttings	1981	2320835
D	125m S	Cuttings	1973	2320835
D	125m S	Cuttings	1955	2320835
D	125m S	Cuttings	1966	2320835
K	126m S	Cuttings	1932	2325595
K	126m S	Cuttings	1895	2324749
K	126m S	Cuttings	1895	2318211
D	127m S	Cuttings	1938	2324035
D	127m S	Cuttings	1951	2213863
D	127m S	Cuttings	1907	2318233
D	127m S	Cuttings	1895	2288828

ID	Location	Land Use	Date	Group ID
D	128m SW	Cuttings	1981	2229417
D	128m SW	Cuttings	1973	2229417
D	128m SW	Cuttings	1955	2229417
D	128m SW	Cuttings	1966	2229417
D	130m S	Cuttings	1888	2258801
D	132m S	Cuttings	1923	2269165
D	139m SW	Cuttings	1981	2252369
D	139m SW	Cuttings	1973	2252369
D	139m SW	Cuttings	1955	2252369
D	139m SW	Cuttings	1966	2252369
L	142m S	Barracks	1938	2236102
M	144m N	Unspecified Tank	1981	2221051
M	144m N	Unspecified Tank	1973	2221051
M	144m N	Unspecified Tank	1955	2221051
M	144m N	Unspecified Tank	1966	2221051
L	146m S	Barracks	1932	2241091
L	147m S	Barracks	1973	2220626
L	147m S	Barracks	1955	2220626
L	147m S	Barracks	1966	2220626
L	153m S	Barracks	1923	2304167
K	162m S	Cuttings	1916	2287361
K	162m S	Cuttings	1895	2285218
K	163m S	Cuttings	1938	2263723
K	167m S	Cuttings	1888	2297814
K	168m S	Cuttings	1981	2290139
K	168m S	Cuttings	1973	2290139
K	168m S	Cuttings	1955	2290139
K	168m S	Cuttings	1966	2290139

ID	Location	Land Use	Date	Group ID
O	169m SW	Cuttings	1973	2274381
O	169m SW	Cuttings	1955	2209840
O	169m SW	Cuttings	1966	2209840
K	172m S	Cuttings	1938	2264612
K	172m S	Cuttings	1951	2322215
K	172m S	Cuttings	1907	2207053
K	172m S	Cuttings	1895	2302079
D	172m S	Unspecified Heap	1955	2186818
P	172m NE	Canal Basin	1888	2264311
K	175m S	Cuttings	1923	2209380
P	175m NE	Canal Basin	1895	2273341
P	175m NE	Canal Basin	1895	2273341
2	182m NE	Disused Canal	1966	2267240
Q	187m S	Barracks	1938	2247959
Q	187m S	Barracks	1951	2221536
R	190m N	Coastguard Station	1895	2309116
R	190m N	Coastguard Station	1895	2309116
R	192m N	Coastguard Station	1888	2282740
R	197m N	Coastguard Station	1895	2293020
T	248m NW	Unspecified Wharf	1932	2275753
T	248m NW	Unspecified Wharf	1932	2275753
U	254m S	Cuttings	1938	2251473
U	258m S	Cuttings	1907	2317066
U	258m S	Cuttings	1938	2320322
U	258m S	Cuttings	1951	2328474
U	259m S	Cuttings	1888	2318880
U	262m S	Cuttings	1923	2257818
L	263m S	Barracks	1938	2241091

ID	Location	Land Use	Date	Group ID
T	264m NW	Unspecified Wharf	1938	2275753
T	264m NW	Unspecified Wharf	1951	2275753
U	264m S	Cuttings	1895	2318880
K	265m S	Unspecified Tanks	1938	2230731
K	265m S	Unspecified Tanks	1938	2230731
K	266m S	Tanks	1916	2174782
K	269m S	Unspecified Tanks	1932	2246333
K	270m S	Unspecified Tanks	1938	2230731
K	270m S	Unspecified Tanks	1951	2203269
K	270m S	Unspecified Tanks	1907	2307840
K	273m S	Unspecified Tanks	1923	2213703
Q	277m S	Unspecified Quarry	1865	2185178
4	289m W	Railway Building	1955	2195547
W	293m E	Unspecified Commercial/Industrial	1932	2271924
W	309m E	Power Station	1973	2158347
Y	315m SE	Cuttings	1916	2240164
Y	318m SE	Cuttings	1938	2223782
Y	320m SE	Cuttings	1938	2285375
Y	320m SE	Cuttings	1951	2307685
Y	320m SE	Cuttings	1907	2238388
AA	328m NE	Iron Works	1895	2297867
AA	330m NE	Iron Works	1888	2302459
AA	331m NE	Iron Works	1895	2246647
AA	331m NE	Iron Works	1895	2246647
Y	332m SE	Cuttings	1923	2298997
AA	332m NE	Iron Works	1938	2242599
AA	333m NE	Iron Works	1938	2242599
AA	336m NE	Iron Works	1895	2246647

ID	Location	Land Use	Date	Group ID
W	336m E	Unspecified Commercial/Industrial	1938	2236071
W	336m E	Unspecified Commercial/Industrial	1938	2258803
AA	336m NE	Soap Works	1888	2236361
W	337m E	Electricity Works	1923	2167384
W	337m E	Electric Works	1916	2173888
W	338m E	Coal Store	1865	2169837
Y	338m SE	Railway Station	1916	2228773
AA	339m NE	Unspecified Works	1973	2238917
AA	339m NE	Unspecified Works	1966	2238917
AA	342m NE	Unspecified Works	1981	2205693
Y	342m SE	Railway Station	1938	2234427
W	342m E	Railway Sidings	1966	2277719
AC	344m S	Barracks	1895	2270209
AC	344m S	Barracks	1895	2270209
Y	345m SE	Railway Building	1923	2195819
AA	349m NE	Soap Works	1895	2204618
W	350m E	Railway Sidings	1938	2272315
W	350m E	Railway Sidings	1951	2272315
W	350m E	Railway Sidings	1907	2203015
W	351m E	Railway Sidings	1938	2247197
AA	351m NE	Unspecified Works	1981	2300827
AA	351m NE	Unspecified Works	1973	2300827
AA	351m NE	Unspecified Works	1966	2300827
W	351m E	Railway Sidings	1938	2249030
AA	352m NE	Soap Works	1895	2292018
AA	352m NE	Soap Works	1895	2292018
AA	352m NE	Soap Works	1865	2236361
AA	352m NE	Iron Works	1932	2207092

ID	Location	Land Use	Date	Group ID
AA	353m NE	Soap Works	1895	2210618
AD	353m S	Military Hospital	1916	2231418
AA	354m NE	Unspecified Works	1955	2256872
AD	356m S	Hospital	1938	2203609
AD	356m S	Hospital	1895	2271885
W	357m E	Railway Sidings	1932	2230146
W	357m E	Railway Sidings	1923	2230146
AD	357m S	Hospital	1932	2278948
AD	358m S	Military Hospital	1938	2306242
AD	361m S	Hospital	1938	2270172
AD	361m S	Hospital	1951	2295730
AD	361m S	Hospital	1907	2301818
AD	361m S	Hospital	1895	2224287
AD	362m S	Station Hospital	1895	2288447
AD	362m S	Station Hospital	1895	2288447
AD	364m S	Station Hospital	1888	2225999
AC	364m S	Barracks	1895	2270209
AD	364m S	Hospital	1923	2270172
AA	367m NE	Iron Works	1938	2299870
AA	367m NE	Iron Works	1951	2299870
L	374m S	Barracks	1916	2330734
W	375m E	Unspecified Works	1955	2182565
W	375m E	Unspecified Commercial/Industrial	1966	2269849
AC	382m S	Barracks	1907	2293463
AC	385m S	Barracks	1865	2324418
AC	388m S	Barracks	1888	2285959
AA	390m NE	Iron Works	1907	2309167
W	392m E	Gas Works	1907	2202788

ID	Location	Land Use	Date	Group ID
W	392m E	Gas Works	1895	2329608
W	393m E	Gas Works	1888	2329608
W	394m E	Unspecified Tanks	1895	2315504
W	395m E	Unspecified Tank	1938	2253277
W	395m E	Unspecified Tanks	1951	2278855
W	395m E	Unspecified Tanks	1907	2268695
W	395m E	Unspecified Commercial/Industrial	1938	2255705
W	395m E	Unspecified Commercial/Industrial	1951	2255705
W	395m E	Unspecified Tank	1932	2284824
W	395m E	Gasometers	1888	2268834
AA	396m NE	Iron Works	1916	2271252
W	396m E	Gas Works	1895	2290023
W	396m E	Gas Works	1865	2331282
W	397m E	Unspecified Tank	1938	2209879
W	397m E	Gas Works	1895	2325548
W	397m E	Gas Works	1895	2325548
W	397m E	Gas Works	1923	2300346
W	397m E	Gas Works	1916	2300346
W	397m E	Unspecified Tank	1938	2302565
W	398m E	Gasometer	1895	2161481
W	398m E	Gasometers	1865	2296554
W	398m E	Unspecified Tank	1907	2318194
W	399m E	Gasometer	1895	2161434
W	399m E	Gasometers	1865	2314119
W	399m E	Gasometers	1916	2294773
W	399m E	Unspecified Tanks	1938	2290752
W	399m E	Gasometers	1923	2223255
W	399m E	Gasometers	1895	2267533

ID	Location	Land Use	Date	Group ID
W	399m E	Gasometers	1895	2267533
5	400m E	Timber Yard	1981	2250413
AA	401m NE	Iron Works	1923	2288467
W	408m E	Refuse Heap	1888	2204999
W	408m E	Refuse Heap	1895	2297916
W	413m E	Refuse Heap	1895	2302522
W	413m E	Refuse Heap	1895	2308927
W	413m E	Refuse Heap	1895	2308927
W	415m E	Unspecified Ground Workings	1938	2293314
W	415m E	Unspecified Ground Workings	1951	2293314
W	415m E	Unspecified Heap	1932	2323441
W	415m E	Unspecified Heap	1932	2323441
W	416m E	Unspecified Tank	1895	2327566
W	417m E	Unspecified Tank	1938	2314183
W	418m E	Gasometers	1865	2291742
W	419m E	Gasometer	1895	2261241
W	420m E	Gas Holder Station	1973	2321505
W	422m E	Gasometer	1923	2250546
L	427m S	Engine House	1895	2252447
W	428m E	Unspecified Tank	1932	2210279
W	428m E	Unspecified Tank	1938	2324945
W	428m E	Unspecified Tank	1951	2312798
L	429m S	Engine House	1895	2222187
L	429m S	Engine House	1895	2222187
W	431m E	Gas Holder Station	1981	2321505
L	432m S	Engine House	1888	2252447
L	434m S	Engine House	1907	2222187
L	434m S	Engine House	1895	2230335

ID	Location	Land Use	Date	Group ID
L	435m S	Engine House	1865	2329121
AA	439m NE	Iron Works	1888	2236996
AA	440m NE	Iron Works	1895	2323432
AA	440m NE	Iron Works	1895	2329264
AA	443m NE	Iron Works	1895	2243828
6	447m E	Unspecified Heap	1865	2186820
W	462m E	Unspecified Tanks	1981	2302956
W	462m E	Unspecified Tanks	1973	2302956
AN	469m W	Railway Sidings	1990	2229259
AN	469m W	Railway Sidings	1977	2330977
AN	469m W	Railway Sidings	1971	2287784
AN	469m W	Railway Building	1895	2221688
AN	469m W	Railway Building	1895	2221688
AN	471m W	Railway Sidings	1895	2290267
AN	471m W	Railway Building	1895	2266007
AN	471m W	Railway Sidings	1955	2285580
AN	471m W	Railway Sidings	1966	2277668
AN	472m W	Railway Sidings	1932	2205457
AN	473m W	Railway Sidings	1923	2246454
AN	474m W	Railway Sidings	1938	2205457
AN	474m W	Railway Sidings	1951	2205457
AN	474m W	Railway Sidings	1907	2240976
AN	474m W	Railway Sidings	1895	2269307
AN	474m W	Railway Sidings	1938	2252863
AN	475m W	Railway Sidings	1938	2234535
AN	478m W	Railway Sidings	1865	2249490
AN	479m W	Railway Building	1865	2257381
AN	480m W	Railway Building	1932	2300375

ID	Location	Land Use	Date	Group ID
AQ	481m NE	Unspecified Wharves	1938	2213164
AQ	481m NE	Unspecified Wharves	1938	2213164
AN	481m W	Railway Building	1938	2308199
AN	481m W	Railway Building	1865	2195691
AN	483m W	Railway Building	1938	2234082
8	489m E	Unspecified Works	1966	2182558
9	491m E	Unspecified Works	1981	2182564
AN	497m W	Railway Sidings	1916	2211374

This data is sourced from Ordnance Survey® / Groundsure.

2.2 Historical tanks

Records within 500m **107**

Tank features digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 31 >**

ID	Location	Land Use	Date	Group ID
D	92m S	Unspecified Tank	1983	432033
D	92m S	Unspecified Tank	1984	422597
D	93m S	Unspecified Tank	1993	426056
D	93m S	Unspecified Tank	1997	417941
D	93m S	Unspecified Tank	1996	407766
F	131m E	Unspecified Tank	1976	414472
F	131m E	Unspecified Tank	1980	414472
F	140m E	Tanks	1967	420808
F	140m E	Tanks	1976	420808
F	140m E	Tanks	1980	420808
F	140m E	Tanks	1969	420808
F	170m E	Tanks	1967	423313

ID	Location	Land Use	Date	Group ID
F	170m E	Tanks	1976	423313
F	170m E	Tanks	1980	402810
F	170m E	Tanks	1969	423313
F	182m E	Unspecified Tank	1969	405323
F	182m E	Unspecified Tank	1967	405323
F	182m E	Unspecified Tank	1976	405323
F	182m E	Unspecified Tank	1980	405323
F	192m E	Unspecified Tank	1976	403725
F	192m E	Unspecified Tank	1980	401359
R	201m N	Unspecified Tank	1953	394713
R	256m N	Unspecified Tank	1958	394719
R	267m N	Tanks	1932	380001
R	268m N	Tanks	1932	380002
K	269m S	Tanks	1955	412440
K	272m S	Tanks	1953	430472
K	274m S	Tanks	1932	413021
K	274m S	Tanks	1909	413021
K	275m S	Tanks	1953	399470
W	317m E	Unspecified Tank	1958	411166
W	317m E	Unspecified Tank	1969	411166
W	317m E	Unspecified Tank	1953	411166
W	317m E	Unspecified Tank	1967	411166
AB	331m E	Unspecified Tank	1969	402883
AB	331m E	Unspecified Tank	1967	411492
AB	331m E	Unspecified Tank	1976	418910
AB	332m E	Unspecified Tank	1980	403472
W	365m E	Tanks	1932	380005
W	367m E	Unspecified Tank	1953	428135

ID	Location	Land Use	Date	Group ID
W	367m E	Unspecified Tank	1967	418951
W	367m E	Unspecified Tank	1958	405192
W	367m E	Unspecified Tank	1969	414561
W	368m E	Tanks	1932	380004
AA	376m NE	Unspecified Tank	1976	425453
W	376m E	Gasholder Station	1969	403037
AA	377m NE	Unspecified Tank	1980	425453
W	379m E	Unspecified Tank	1866	394720
W	382m E	Tanks	1932	380006
W	383m E	Tanks	1932	380003
W	386m E	Tanks	1932	380007
W	387m E	Unspecified Tank	1969	401417
AD	387m SE	Unspecified Tank	1953	408083
W	387m E	Unspecified Tank	1967	401417
AD	387m SE	Unspecified Tank	1955	408083
AD	389m S	Unspecified Tank	1953	422124
AD	389m S	Unspecified Tank	1970	431970
AD	389m S	Unspecified Tank	1955	411083
AA	390m NE	Unspecified Tank	1980	394726
W	393m E	Gas Works	1897	417340
W	393m E	Gas Works	1909	417340
L	394m S	Unspecified Tank	1984	408302
L	395m S	Unspecified Tank	1983	421714
W	395m E	Unspecified Tank	1932	394722
W	396m E	Gasometers	1897	400683
W	396m E	Gasometers	1909	400683
L	397m S	Unspecified Tank	1993	408302
W	397m E	Tanks	1932	380008

ID	Location	Land Use	Date	Group ID
W	397m E	Gas Works	1866	420096
W	399m E	Gasometers	1866	404618
W	402m E	Gasholder Station	1967	429463
AH	411m NW	Unspecified Tank	1955	406635
AH	411m NW	Unspecified Tank	1953	410767
AI	412m S	Unspecified Tank	1953	413249
AI	412m S	Unspecified Tank	1983	413249
AI	412m S	Unspecified Tank	1970	413249
AI	412m S	Unspecified Tank	1952	413249
AI	412m S	Unspecified Tank	1981	413249
AI	412m S	Unspecified Tank	1984	413249
AI	413m S	Unspecified Tank	1955	413249
W	417m E	Gasholder Station	1976	412600
W	418m E	Gasholder Station	1980	398546
W	420m E	Unspecified Tank	1953	425779
W	420m E	Unspecified Tank	1958	425779
W	428m E	Unspecified Tank	1932	394715
AK	434m SE	Unspecified Tank	1897	407795
AK	434m SE	Unspecified Tank	1932	423338
W	451m E	Unspecified Tank	1866	394721
W	461m E	Gasholder	1969	418322
W	461m E	Gasholder	1967	399110
W	461m E	Gasholder	1976	413418
W	462m E	Gasholder	1980	405109
W	466m E	Tanks	1897	419122
W	466m E	Tanks	1909	419122
W	466m E	Tanks	1932	419122
7	467m W	Unspecified Tank	1994	388813

ID	Location	Land Use	Date	Group ID
W	469m E	Tanks	1953	406024
W	470m E	Tanks	1958	406024
AP	474m S	Unspecified Tank	1953	399475
AP	474m S	Unspecified Tank	1970	399475
AP	475m S	Unspecified Tank	1955	399475
AP	475m S	Unspecified Tank	1932	399475
W	486m E	Unspecified Tank	1958	422786
W	486m E	Unspecified Tank	1953	422786
L	489m S	Unspecified Tank	1955	431684
L	489m S	Unspecified Tank	1953	431684
L	489m S	Unspecified Tank	1970	431684

This data is sourced from Ordnance Survey® / Groundsure.

2.3 Historical energy features

Records within 500m	**101**

Energy features digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 31 >**

ID	Location	Land Use	Date	Group ID
1	**On site**	**Electricity Substation**	**1958**	**269182**
E	43m N	Electricity Substation	1993	281968
E	45m N	Electricity Substation	1980	312792
E	45m N	Electricity Substation	1986	292121
E	48m NW	Electricity Substation	1976	305236
B	61m SE	Electricity Substation	1993	302165
B	63m SE	Electricity Substation	1976	305948
B	63m SE	Electricity Substation	1980	307950
B	63m SE	Electricity Substation	1986	317694

ID	Location	Land Use	Date	Group ID
B	63m SE	Electricity Substation	1983	281945
B	64m SE	Electricity Substation	1993	297528
B	64m SE	Electricity Substation	1997	297528
B	64m SE	Electricity Substation	1996	297528
B	68m SE	Electricity Substation	1952	301548
B	68m SE	Electricity Substation	1981	317674
B	68m SE	Electricity Substation	1984	317674
I	91m E	Electricity Substation	1993	305424
I	91m E	Electricity Substation	1976	305424
I	91m E	Electricity Substation	1980	305424
I	91m E	Electricity Substation	1986	305424
N	158m NE	Electricity Substation	1993	266425
N	161m NE	Electricity Substation	1980	310621
N	161m NE	Electricity Substation	1986	310621
N	163m NE	Electricity Substation	1980	266416
O	189m SW	Electricity Substation	1984	310720
O	189m SW	Electricity Substation	1983	310720
O	189m SW	Electricity Substation	1993	284128
O	189m SW	Electricity Substation	1997	284128
O	189m SW	Electricity Substation	1996	284128
X	299m W	Electricity Substation	1978	269181
W	309m E	Power Station	1969	292991
W	309m E	Power Station	1967	292991
X	324m W	Electricity Substation	1983	322293
X	324m W	Electricity Substation	1986	322293
X	324m W	Electricity Substation	1983	322293
X	330m W	Electricity Substation	1994	312369
X	330m W	Electricity Substation	1996	312369

ID	Location	Land Use	Date	Group ID
W	334m E	Electricity Works	1909	266122
W	376m E	Gasholder Station	1969	297062
W	377m E	Electricity Transformers	1969	312523
W	377m E	Electricity Transformers	1967	316813
W	378m E	Electricity Transformers	1976	314167
W	379m E	Electricity Substation	1980	273136
AE	383m W	Electricity Substation	1986	301209
AE	386m W	Electricity Substation	1994	301209
AE	386m W	Electricity Transformer	1972	276609
AF	386m S	Electricity Substation	1953	302107
AF	386m S	Electricity Substation	1955	302107
AF	390m S	Electricity Substation	1983	314573
AF	390m S	Electricity Substation	1984	314573
AF	392m S	Electricity Substation	1993	314573
AF	392m S	Electricity Substation	1997	314573
AF	392m S	Electricity Substation	1996	314573
W	393m E	Gas Works	1897	304565
W	393m E	Gas Works	1909	304565
W	396m E	Gasometers	1897	304464
W	396m E	Gasometers	1909	304464
W	397m E	Gas Works	1866	277354
W	399m E	Gasometers	1866	320910
AA	402m NE	Electricity Substation	1976	302945
AA	402m NE	Electricity Substation	1980	283974
W	402m E	Gasholder Station	1967	309201
W	417m E	Gasholder Station	1976	297062
W	418m E	Gasholder Station	1980	285243
L	434m S	Electricity Substation	1983	281498

ID	Location	Land Use	Date	Group ID
L	436m S	Electricity Substation	1993	309430
L	436m S	Electricity Substation	1997	309430
L	436m S	Electricity Substation	1996	309430
L	436m S	Electricity Substation	1952	282623
L	436m S	Electricity Substation	1981	303726
L	436m S	Electricity Substation	1984	303726
AM	451m E	Electricity Substation	1953	284961
AM	451m E	Electricity Substation	1967	284961
AM	451m E	Electricity Transformer	1976	276771
AM	452m E	Electricity Substation	1958	284961
AM	452m E	Electricity Substation	1969	284961
AM	453m E	Electricity Substation	1980	283326
AH	461m NW	Electricity Substation	1994	312538
AH	461m NW	Electricity Substation	1996	312538
AH	461m NW	Electricity Substation	1978	312538
W	461m E	Gasholder	1969	295562
W	461m E	Gasholder	1967	317473
W	461m E	Gasholder	1976	315663
W	462m E	Gasholder	1980	300695
AH	462m NW	Electricity Substation	1983	312538
AH	462m NW	Electricity Substation	1986	312538
AH	462m NW	Electricity Substation	1983	312538
AO	471m W	Electricity Substation	1994	312163
AO	471m W	Electricity Substation	1996	312163
AO	471m W	Electricity Substation	1978	284578
AO	472m W	Electricity Substation	1983	284578
AO	472m W	Electricity Substation	1986	284578
AO	472m W	Electricity Substation	1983	284578

ID	Location	Land Use	Date	Group ID
AR	484m SE	Electricity Substation	1983	277470
AR	484m SE	Electricity Substation	1983	277470
AR	484m SE	Electricity Substation	1992	277470
AR	484m SE	Electricity Substation	1994	309272
AR	484m SE	Electricity Substation	1993	320284
AR	486m SE	Electricity Substation	1976	299899
AR	486m SE	Electricity Substation	1953	303676
AR	487m SE	Electricity Substation	1955	311997

This data is sourced from Ordnance Survey® / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

Petrol stations digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey® / Groundsure.

2.5 Historical garages

Records within 500m	55

Garages digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 31 >**

ID	Location	Land Use	Date	Group ID
A	7m W	Garage	1953	81476
B	11m S	Garage	1958	93255
A	12m W	Garage	1958	81478
B	27m S	Garage	1953	93255
G	64m SW	Garage	1980	91385

ID	Location	Land Use	Date	Group ID
G	64m SW	Garage	1969	91385
G	65m SW	Garage	1976	91385
G	65m SW	Garage	1964	91385
H	75m W	Garages	1953	82270
H	78m W	Garages	1958	82273
D	100m SW	Garage	1955	92484
D	100m SW	Garage	1953	94619
D	100m SW	Garage	1970	91980
D	104m SW	Garage	1952	94600
D	104m SW	Garage	1981	85289
J	116m NW	Garage	1953	81473
H	121m W	Garage	1953	81475
H	124m W	Garages	1958	82272
J	129m NW	Garages	1958	82271
H	164m W	Garage	1953	81474
J	164m NW	Garage	1953	81472
H	164m W	Garages	1953	82269
H	180m W	Garages	1958	82274
H	181m W	Garage	1958	81477
J	183m NW	Garage	1976	93390
J	183m NW	Garage	1964	93390
J	184m NW	Garage	1958	93390
J	184m NW	Garage	1969	93390
K	199m S	Garage	1953	82770
K	199m S	Garage	1970	85421
S	201m E	Garage	1958	93102
S	202m E	Garage	1953	93102
K	205m S	Garage	1955	84828

ID	Location	Land Use	Date	Group ID
K	212m S	Garage	1952	85125
K	212m S	Garage	1981	95731
3	233m NW	Boat Repair Works	1953	82338
T	280m NW	Boat Repair Shed	1958	82103
V	292m NW	Garage	1953	93823
V	292m NW	Garage	1955	93823
Z	320m SW	Garage	1994	87960
Z	320m SW	Garage	1972	84392
Z	338m SW	Garage	1986	93785
Z	346m SW	Garage	1955	85908
Z	347m SW	Garage	1953	85908
AG	402m W	Garage	1955	86869
AG	402m W	Garage	1953	86869
AH	418m NW	Garages	1953	84263
AH	419m NW	Garages	1955	84263
AJ	423m SW	Garage	1955	91446
AJ	424m SW	Garage	1953	91446
AL	438m SE	Garage	1993	88131
AL	438m SE	Garage	1994	88131
AL	438m SE	Garage	1992	87623
AN	484m W	Garages	1955	91031
AN	485m W	Garages	1953	91031

This data is sourced from Ordnance Survey® / Groundsure.

3 Waste and landfill



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Site Outline

Search buffers in metres (m)

Historical landfill (EA/NRW)

Historical waste sites

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m	0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey®/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m	1

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on **page 52 >**

ID	Location	Details		
1	425m E	Site Address: Gas Works - Canal, Gravesend, Kent Licence Holder Address: -	Waste Licence: Yes Site Reference: GR12 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 01/01/1976 Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m	1

Waste site records derived from Local Authority planning records and high detail historical mapping.

Features are displayed on the Waste and landfill map on **page 52 >**

ID	Location	Address	Further Details	Date
2	482m E	Site Address: Nuralite Industrial Estate, Canal Road, Higham, Rochester, Kent, ME3 7JA	Type of Site: Land Reclamation Planning application reference: 20160637 Description: Scheme comprises land reclamation scheme to cover landfill site, including SUDS. Data source: Historic Planning Application Data Type: Point	-

This data is sourced from Ordnance Survey®/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m	0

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m	24

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

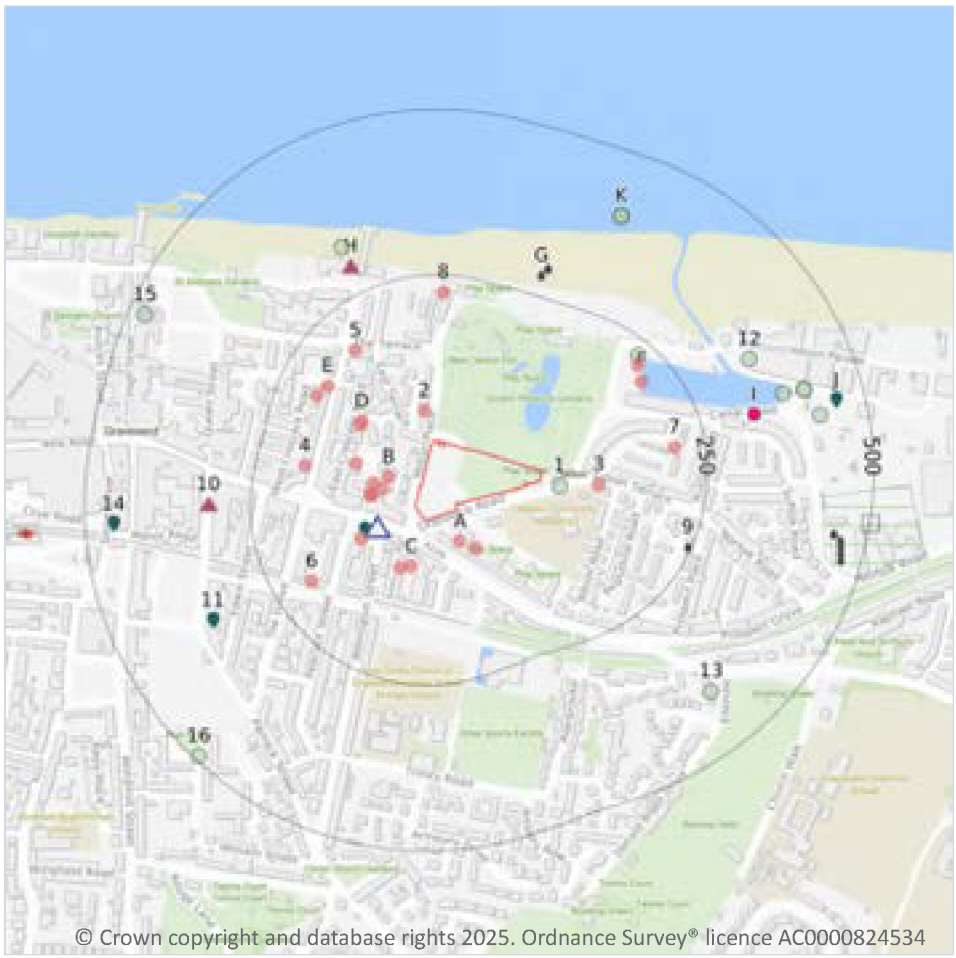
Features are displayed on the Waste and landfill map on **page 52 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	351m SW	Existing Car Park, Parrock Street, Gravesend, Da12 1er	WEX001127	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	351m SW	Existing Car Park, Parrock Street, Gravesend, Da12 1er	WEX001127	Using waste exemption	Not on a farm	Use of waste in construction
A	351m SW	Existing Car Park, Parrock Street, Gravesend, Da12 1er	WEX001127	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
A	351m SW	Existing Car Park, Parrock Street, Gravesend, Da12 1er	WEX001127	Using waste exemption	Not on a farm	Use of waste for a specified purpose
A	351m SW	Existing Car Park, Parrock Street, Gravesend, Da12 1er	WEX001127	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
A	351m SW	Existing Car Park, Parrock Street, Gravesend, Da12 1er	WEX001127	Using waste exemption	Not on a farm	Use of mulch
B	415m E	Feabrex House, Albion Parade, Gravesend, Da12 2rn	WEX164539	Treating waste exemption	Not on a farm	Mechanical treatment of end-of-life tyres
B	415m E	Feabrex House, Albion Parade, Gravesend, Da12 2rn	WEX164539	Using waste exemption	Not on a farm	Use of baled end-of-life tyres in construction

ID	Location	Site	Reference	Category	Sub-Category	Description
B	415m E	Albion Parade, Gravesend, Da12 2rn	WEX289569	Treating waste exemption	Not on a farm	Mechanical treatment of end-of-life tyres
B	415m E	Feabrex House, Albion Parade, Gravesend, Da12 2rn	WEX312075	Using waste exemption	Not on a farm	Use of baled end-of-life tyres in construction
C	426m W	19, Windmill Street, Gravesend, Da12 1as	WEX144855	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	426m W	19, Windmill Street, Gravesend, Da12 1as	WEX144855	Storing waste exemption	Not on a farm	Storage of waste in secure containers
C	426m W	19, Windmill Street, Gravesend, Da12 1as	WEX144855	Treating waste exemption	Not on a farm	Sorting mixed waste
C	426m W	19, Windmill Street, Gravesend, Da12 1as	WEX283084	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	426m W	19, Windmill Street, Gravesend, Da12 1as	WEX283084	Storing waste exemption	Not on a farm	Storage of waste in secure containers
C	426m W	19, Windmill Street, Gravesend, Da12 1as	WEX283084	Treating waste exemption	Not on a farm	Sorting mixed waste
C	426m W	19, Windmill Street, Gravesend, Da12 1as	WEX360506	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
C	426m W	19, Windmill Street, Gravesend, Da12 1as	WEX411917	Treating waste exemption	Not on a farm	Sorting mixed waste
C	426m W	19, Windmill Street, Gravesend, Da12 1as	WEX411917	Storing waste exemption	Not on a farm	Storage of waste in secure containers
C	426m W	19, Windmill Street, Gravesend, Da12 1as	WEX411917	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	430m W	19 Windmill Street Gravesend Kent Da12 1as	EPR/EF0307CK/A001	Treating waste exemption	Non-agricultural waste only	Sorting and de-naturing of controlled drugs for disposal
D	446m W	-	WEX411614	Using waste exemption	Not on a farm	Use of waste in construction
D	447m W	1, New Swan Yard, Gravesend, Da12 2en	WEX465921	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
3	485m S	-	WEX352658	Disposing of waste exemption	Not on a farm	Burning waste in the open

This data is sourced from the Environment Agency and Natural Resources Wales.

4 Current industrial land use



Site Outline
Search buffers in metres (m)
Recent industrial land uses
Current or recent petrol stations
Control of Major Accident Hazards
Hazardous substance storage/usage
Licensed pollutant release (Part A(2)/B)
Radioactive Substance Authorisations
Licensed Discharges to controlled waters
Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	25

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on page 56 >

ID	Location	Company	Address	Activity	Category
A	47m S	Telephone Exchange	Kent, DA12	Telecommunications Features	Infrastructure and Facilities
2	48m N	Electricity Sub Station	Kent, DA12	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
B	50m W	Rymech Ventilation & Plumbing Services	Unit 7 Bentley Street Industrial Estate, Bentley Street, Gravesend, Kent, DA12 2DH	Construction Completion Services	Construction Services
B	56m W	Bentley Street Industrial Estate	Kent, DA12	Business Parks and Industrial Estates	Industrial Features
A	64m SE	Electricity Sub Station	Kent, DA12	Electrical Features	Infrastructure and Facilities
B	70m W	D R P Castings	Unit 3 Bentley Street Industrial Estate, Bentley Street, Gravesend, Kent, DA12 2DH	Moulds, Dies and Castings	Industrial Products
B	70m W	Gravesend Transmissio n Services Ltd	Unit 1 Bentley Street Industrial Estate, Bentley Street, Gravesend, Kent, DA12 2DH	Vehicle Components	Industrial Products
B	70m W	Transmissio ns Services	Unit 1 Bentley Street Industrial Estate, Bentley Street, Gravesend, Kent, DA12 2DH	Vehicle Components	Industrial Products
B	70m W	Gravesend Transmissio n Services	Unit 1 Bentley Street Industrial Estate, Bentley Street, Gravesend, Kent, DA12 2DH	Vehicle Repair, Testing and Servicing	Repair and Servicing
C	74m S	Milton Road Business Park	Kent, DA12	Business Parks and Industrial Estates	Industrial Features
C	82m SW	Versatile Fixings Ltd	Unit 2 First Floor, Milton Road Business Park, 128, Milton Road, Gravesend, Kent, DA12 2PG	General Construction Supplies	Industrial Products
3	87m E	Electricity Sub Station	Kent, DA12	Electrical Features	Infrastructure and Facilities
B	95m SW	Esso	139, Milton Road, Gravesend, Kent, DA12 2RQ	Petrol and Fuel Stations	Road and Rail
B	104m W	Golden Motors Services	Unit 2 8, Bentley Street, Gravesend, Kent, DA12 2DH	Vehicle Repair, Testing and Servicing	Repair and Servicing
D	111m W	Gravesend Engineering Co Ltd	East Crescent Road, Gravesend, Kent, DA12 2AR	Industrial Engineers	Engineering Services
D	111m W	Works	Kent, DA12	Unspecified Works Or Factories	Industrial Features
4	176m W	Torela	41, Harmer Street, Gravesend, Kent, DA12 2AP	Clothing, Components and Accessories	Consumer Products

ID	Location	Company	Address	Activity	Category
E	180m NW	Chalmers	1, Harmer Street, Gravesend, Kent, DA12 2AP	Vehicle Parts and Accessories	Motoring
5	181m NW	A C C Worldwide	Acc House 43, The Terrace, Gravesend, Kent, DA12 2BJ	Distribution and Haulage	Transport, Storage and Delivery
E	189m NW	Euroguard Technical Services Ltd	Suite B Harmer House 5, Harmer Street, Gravesend, Kent, DA12 2AP	Pest and Vermin Control	Contract Services
6	192m SW	Electricity Sub Station	Kent, DA12	Electrical Features	Infrastructure and Facilities
7	202m E	Electricity Sub Station	Kent, DA12	Electrical Features	Infrastructure and Facilities
F	202m NE	Mooring Posts	Kent, DA12	Moorings and Unloading Facilities	Water
F	216m NE	Slipway	Kent, DA12	Moorings and Unloading Facilities	Water
8	224m N	Heritage Quay	Kent, DA12	Moorings and Unloading Facilities	Water

This data is sourced from Ordnance Survey®.

4.2 National Geographic Database (NGD) - Current or recent tanks

Records within 250m	0

Current or recent tanks identified from the Ordnance Survey® NGD.

This data is sourced from Ordnance Survey®.

4.3 Current or recent petrol stations

Records within 500m	1

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 56 >**

ID	Location	Company	Address	LPG	Status
B	67m SW	ESSO	139, Milton Road, Wellington Street, Gravesend, Kent, DA12 2RG	No	Open

This data is sourced from Experian.

4.4 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.5 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.6 Sites determined as Contaminated Land

Records within 500m	0

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.7 Control of Major Accident Hazards (COMAH)

Records within 500m	1

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

Features are displayed on the Current industrial land use map on **page 56 >**

ID	Location	Company	Address	Operational status	Tier
L	425m E	British Gas	British Gas, Gravesend Holder Station, Suffolk Road, Gravesend	Historical NIHHS Site	-

This data is sourced from the Health and Safety Executive.

4.8 Regulated explosive sites

Records within 500m	0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.9 Hazardous substance storage/usage

Records within 500m	3

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

Features are displayed on the Current industrial land use map on **page 56 >**

ID	Location	Details	
H	293m NW	Application reference number: No Details Application status: Historical Consent Application date: No Details Address: Port of London River Authority, River Thames Anchorages (Chapmans Anchorages), Gtr London, England	Details: No Details Enforcement: No Details Date of enforcement: No Details Comment: No Details
H	293m NW	Application reference number: No Details Application status: Historical Consent Application date: No Details Address: Port of London River Authority, Tilbury, Essex, England	Details: No Details Enforcement: No Details Date of enforcement: No Details Comment: No Details
10	314m W	Application reference number: 20020581 Application status: Approved Application date: 08/07/2002 Address: Transco PLC, Gravesend Holder Station, Suffolk Road, Gravesend, Kent, England, DA12 2SW	Details: Storage and distribution of natural gas. Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.10 Historical licensed industrial activities (IPC)

Records within 500m	0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed industrial activities (Part A(1))

Records within 500m	0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.12 Licensed pollutant release (Part A(2)/B)

Records within 500m	4

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 56 >**

ID	Location	Address	Details	
B	85m W	Clocktower Service Station, 139 Milton Road, Gravesend, Kent, DA12 2RQ	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
11	351m SW	Dappers Dry Cleaners, 161 Parrock Street, Gravesend, Kent, DA12 1ER	Process: Dry Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
J	456m E	Volumetric Concrete Ltd, Albion Parade, Gravesend, Lent, DA12 2RN	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
14	458m W	Railway Dry Cleaners, 6 Railway Place, Gravesend, Kent, DA12 1AP	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.13 Radioactive Substance Authorisations

Records within 500m	2

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

Features are displayed on the Current industrial land use map on **page 56 >**

ID	Location	Address	Details	
I	330m E	Magnox Electric Ltd, Canal Road, Gravesend, Kent, DA12 2RS	Operator: Magnox Electric Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AD7591 Date of approval: 31/03/1991	Effective from: 31/03/1991 Last date of update: 01/01/2015 Status: Revoked/cancelled

ID	Location	Address	Details	
I	330m E	Magnox Electric Ltd, Canal Road, Gravesend, Kent, DA12 2RS	Operator: Magnox Electric Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AD7605 Date of approval: 31/03/1991	Effective from: 31/03/1991 Last date of update: 01/01/2015 Status: Revoked/cancelled

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Licensed Discharges to controlled waters

Records within 500m **13**

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 56 >**

ID	Location	Address	Details	
9	245m SE	SCIENTIFIC SERVICES DEPARTMENT, SUF, SCIENTIFIC SERVICES DEPARTMENT, SUFFOLK ROAD, GRAVESEND, KENT	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTMR.0160 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 31/07/1974 Effective Date: 01/11/1978 Revocation Date: 27/09/1993
G	282m N	GORDON PROMENADE STORM OVERFLOW, GORDON PROMENADE STORM OVERFLOW, GRAVESEND KENT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: D00075 Permit Version: 1 Receiving Water: SALINE ESTUARY	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 01/04/1991 Effective Date: 01/04/1991 Revocation Date: -
G	282m N	GORDON PROMENADE CSO GRAVESEND, GORDON PROMENADE, GRAVESEND, KENT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CSSB.0114 Permit Version: 1 Receiving Water: RIVER THAMES(TIDAL)	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 14/10/1987 Effective Date: 14/10/1987 Revocation Date: -
G	294m N	MILTON ROAD GRAVESEND CSO, MILTON ROAD, GRAVESEND, KENT, DA12 2RQ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CASM.0007 Permit Version: 3 Receiving Water: TIDAL RIVER THAMES	Status: VARIED UNDER EPR 2010 Issue date: 16/03/2017 Effective Date: 16/03/2017 Revocation Date: 30/03/2017

ID	Location	Address	Details	
G	294m N	MILTON ROAD GRAVESEND CSO, MILTON ROAD, GRAVESEND, KENT, DA12 2RQ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CASM.0007 Permit Version: 2 Receiving Water: TIDAL RIVER THAMES	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 21/04/1999 Effective Date: 07/01/2000 Revocation Date: 15/03/2017
G	294m N	MILTON ROAD GRAVESEND CSO, MILTON ROAD, GRAVESEND, KENT, DA12 2RQ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CASM.0007 Permit Version: 1 Receiving Water: TIDAL RIVER THAMES	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 21/04/1999 Effective Date: 06/09/1999 Revocation Date: 06/01/2000
G	294m N	MILTON ROAD GRAVESEND CSO, MILTON ROAD, GRAVESEND, KENT, DA12 2RQ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CASM.0007 Permit Version: 4 Receiving Water: TIDAL RIVER THAMES	Status: VARIED UNDER EPR 2010 Issue date: 16/03/2017 Effective Date: 31/03/2017 Revocation Date: -
K	403m N	ALBION WHARF, GRAVESEND, KENT, ALBION WHARF, GRAVESEND, KENT	Effluent Type: MISCELLANEOUS DISCHARGES - UNSPECIFIED Permit Number: CPLR.0069 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 14/09/1972 Effective Date: 14/09/1972 Revocation Date: 23/12/1985
L	449m E	CANAL ROAD IND PARK, CANAL ROAD IND PARK, GRAVESEND, KENT	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: P03509 Permit Version: 1 Receiving Water: INTO LAND	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 19/03/1991 Effective Date: 19/03/1991 Revocation Date: 01/07/1991
L	461m E	CANAL ROAD IND PARK, CANAL ROAD IND PARK, GRAVESEND, KENT	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: P03509 Permit Version: 1 Receiving Water: INTO LAND	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 19/03/1991 Effective Date: 19/03/1991 Revocation Date: 01/07/1991
L	464m E	CANAL ROAD IND PARK, CANAL ROAD IND PARK, GRAVESEND, KENT	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: P03509 Permit Version: 1 Receiving Water: INTO LAND	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 19/03/1991 Effective Date: 19/03/1991 Revocation Date: 01/07/1991

ID	Location	Address	Details	
L	466m E	CANAL ROAD IND PARK, CANAL ROAD IND PARK, GRAVESEND, KENT	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: P03509 Permit Version: 1 Receiving Water: INTO LAND	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 19/03/1991 Effective Date: 19/03/1991 Revocation Date: 01/07/1991
L	469m E	CANAL ROAD IND PARK, CANAL ROAD IND PARK, GRAVESEND, KENT	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: P03509 Permit Version: 1 Receiving Water: INTO LAND	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 19/03/1991 Effective Date: 19/03/1991 Revocation Date: 01/07/1991

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to surface waters (Red List)

Records within 500m	0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 1 Dangerous Substances

Records within 500m	0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 List 2 Dangerous Substances

Records within 500m	0

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution Incidents (EA/NRW)

Records within 500m	13

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 56 >**

ID	Location	Details	
1	31m E	Incident Date: 19/06/2002 Incident Identification: 85967 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
F	227m NE	Incident Date: 22/07/2003 Incident Identification: 175727 Pollutant: Specific Waste Materials Pollutant Description: Other Specific Waste Material	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	325m NW	Incident Date: 29/09/2001 Incident Identification: 33683 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
12	355m NE	Incident Date: 19/09/2002 Incident Identification: 108953 Pollutant: Oils and Fuel Pollutant Description: Cutting Oils	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
J	382m E	Incident Date: 13/07/2001 Incident Identification: 16232 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
K	403m N	Incident Date: 06/06/2002 Incident Identification: 83286 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

ID	Location	Details	
K	403m N	Incident Date: 25/11/2002 Incident Identification: 122916 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
13	410m SE	Incident Date: 02/11/2003 Incident Identification: 199459 Pollutant: Oils and Fuel Pollutant Description: Petrol	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
J	413m E	Incident Date: 29/03/2003 Incident Identification: 147063 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
J	413m E	Incident Date: 29/03/2003 Incident Identification: 147063 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
J	428m E	Incident Date: 06/04/2001 Incident Identification: 15205 Pollutant: Contaminated Water Pollutant Description: Other Contaminated Water	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
15	475m NW	Incident Date: 25/06/2001 Incident Identification: 11446 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
16	494m SW	Incident Date: 26/02/2003 Incident Identification: 139622 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)

This data is sourced from the Environment Agency and Natural Resources Wales.

4.20 Pollution inventory substances

Records within 500m	**0**

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.21 Pollution inventory waste transfers

Records within 500m	0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

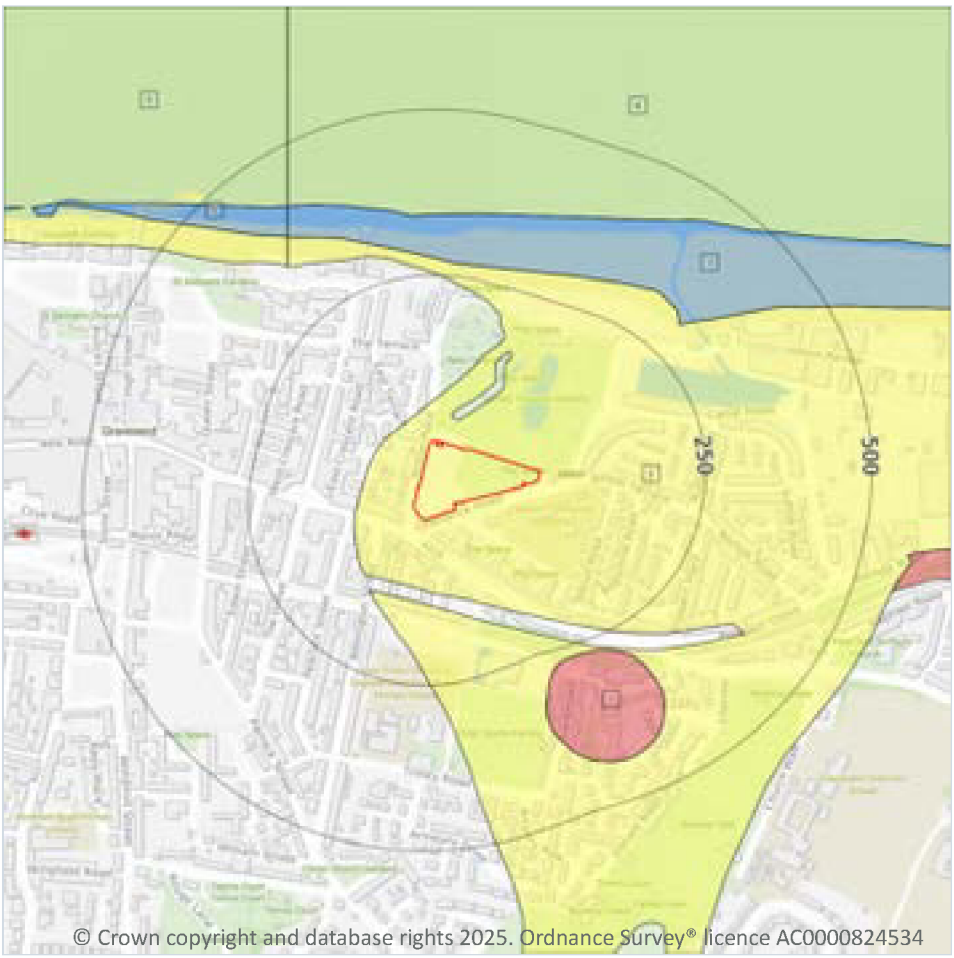
4.22 Pollution inventory radioactive waste

Records within 500m	0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive
- Unknown

5.1 Superficial aquifer

Records within 500m	6

Aquifer status of groundwater held within superficial geology.

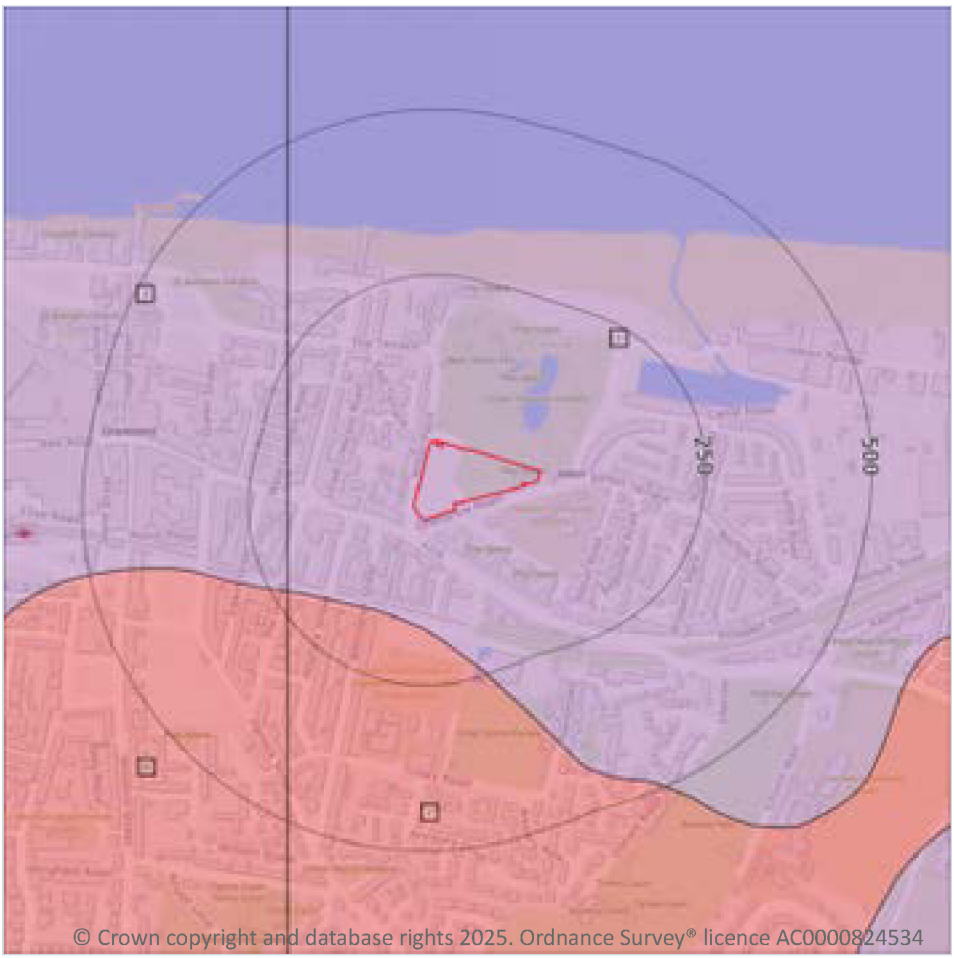
Features are displayed on the Hydrogeology map on page 68 >

ID	Location	Designation	Description
1	**On site**	**Secondary Undifferentiated**	**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**
2	267m S	Secondary A	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

ID	Location	Designation	Description
3	269m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
4	341m N	Secondary Undifferentiated	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
5	342m NW	Secondary Undifferentiated	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
6	378m NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Bedrock aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

5.2 Bedrock aquifer

Records within 500m **4**

Aquifer status of groundwater held within bedrock geology.

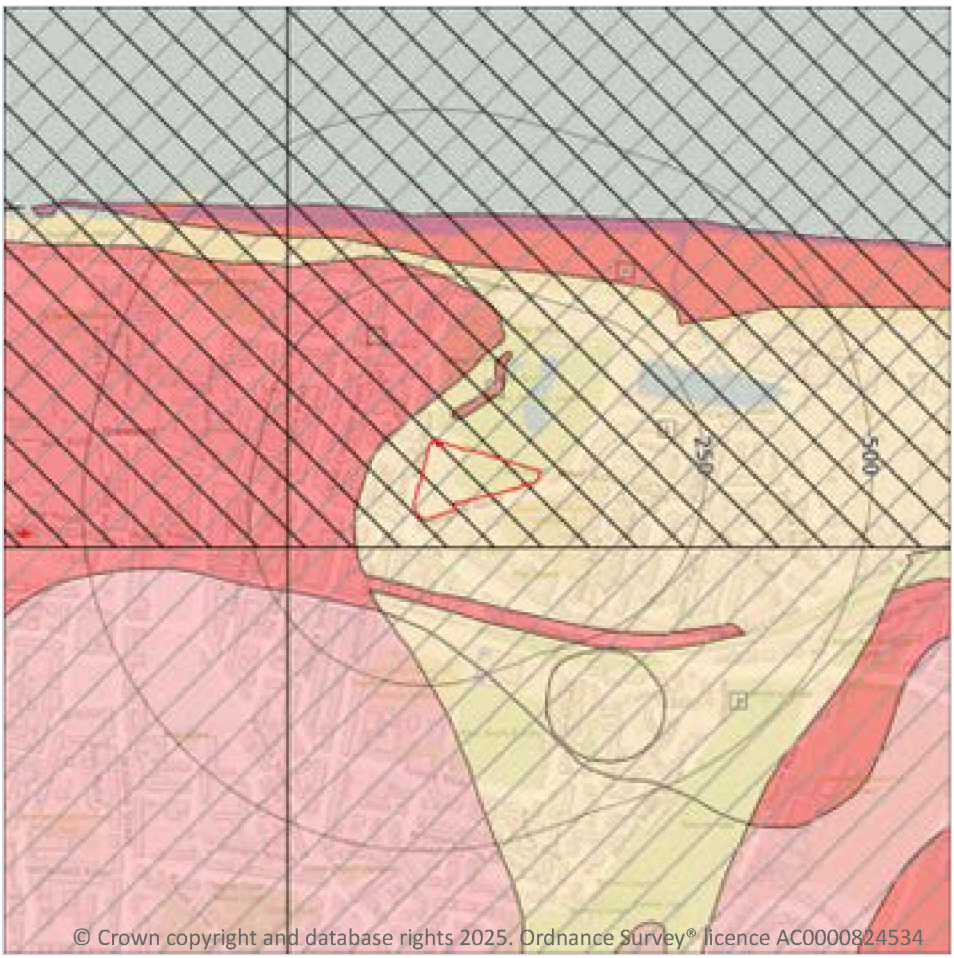
Features are displayed on the Bedrock aquifer map on **page 70 >**

ID	Location	Designation	Description
1	**On site**	**Principal**	**Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers**
2	153m S	Secondary A	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

ID	Location	Designation	Description
3	191m W	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
4	229m SW	Secondary A	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

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability
- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability
- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information
- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	4

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 72 >**