



# Homes & Communities Agency

## Plot 1, Newton Heath, Manchester

### Geo-Environmental Desk Study and Ground Investigation Report

## January 2014

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## 1.0 EXECUTIVE SUMMARY

<p>Site Status</p>	<p>The site is located at Plot 1, Weir Pumps in the Newton Heath area of Manchester, and comprises a vacant development plot of approximately 2.47 ha. The site was formerly used as railway sidings, and is surrounded by mainly commercial/industrial properties or derelict plots, with railway land to the south.</p>
<p>Desk Study</p>	<p>The following environmental setting or the site was established based on the desk study information:</p> <ul style="list-style-type: none"> <li>• Environmental Processes – No significant impacted activities within 250m of the site.</li> <li>• History - The site was formerly a farm, then dissected by tramways/mineral railway until disuse circa 1990.</li> <li>• Geology –Made Ground over Glacial Till with Coal Measures at depth.</li> <li>• Hydrogeology - The bedrock is classified as a Principal Aquifer overlain by Unproductive Strata (Glacial Till). The site is not located in a Groundwater Source Protection Zone (SPZ).</li> <li>• Hydrology - The nearest surface water feature is the Rochdale Canal, located approximately 40m to the north of the site.</li> </ul>
<p>Previous Site Investigations &amp; Gap Analysis</p>	<p>A previous ground investigation by Parkman Environment was undertaken on Areas 1 to 4 of the former Weir Pumps site in 2003. The report also reviews four previous investigations undertaken in 1993, 1995, 1999 and 2002:</p> <ul style="list-style-type: none"> <li>• The 1993 to 2002 reports identified 'no significant sources of contamination' on Plot 1.</li> <li>• The 1999 investigation comprised 4 trial pits, mostly in the north-western end of the site, formerly used for car parking. No significant findings of contamination were reported.</li> <li>• The Parkman 2003 investigation comprised a further 3 trial pits and 2 cable tool boreholes.</li> <li>• No visual or olfactory evidence of contamination was noted.</li> <li>• Gas monitoring indicated Plot 1 to be Characteristic Situation (CS) 1 as defined by CIRIA C149.</li> <li>• Elevated concentrations of copper and zinc were detected in Made Ground, compared to ICRL guidance values. Some PAH and DRO were detected in water samples. Leachability testing indicated similar leachable organic contaminants.</li> <li>• A Quantitative Risk Assessment for groundwater was undertaken for Plots 1 to 3 combined. The results indicated no risk to controlled waters.</li> <li>• Suggested remedial options were the provision of hardstanding across the site, or redevelopment for commercial/industrial purposes with business units and landscaping.</li> </ul> <p>A second edition of this report was produced by Mouchel Parkman in September 2006, to update the report in accordance with current legislation, and to update the estimated remediation costs.</p> <ul style="list-style-type: none"> <li>• The ground gas Characteristic Situation was updated to CS2 in line with the Wilson and Card paper.</li> <li>• Contaminant concentrations were reassessed against CLEA Soil Guideline Values, following the withdrawal of ICRL. However, the previously detected elevated concentrations of copper and zinc were still compared to outdated ICRL values in the absence of generally adopted guidance for phytotoxic contaminants.</li> <li>• No risks to human health were identified for Area 3 (Plot 1) for a commercial end-use.</li> <li>• Gas 'venting' was recommended for future business units, and the removal from site of any PCB contaminated material identified during redevelopment.</li> </ul> <p>Based on the desk study information and the review of the previous site investigation reports, the following data gaps were identified:</p> <ul style="list-style-type: none"> <li>• Two limited previous stages of intrusive investigation were undertaken. Large areas of the site were not intrusively investigated.</li> <li>• Some elevated metals and PAH were detected; however, these contaminants were compared to now outdated guidelines, and areas of contamination were not delineated.</li> <li>• An updated ground gas assessment is required in line with CIRIA C665, BS 8485:2007 and BS 8576:2013.</li> </ul>
<p>Preliminary Risk Assessment</p>	<p>The site is considered to pose a low risk in relation to land contamination.</p>



<p>WYG Ground Investigation</p>	<p>WYG undertook a site investigation of Plot 1 on 20<sup>th</sup> and 22<sup>nd</sup> August 2013, followed by 6 gas monitoring visits. The investigation comprised:</p> <ul style="list-style-type: none"> <li>• 4 No. window sample holes (WS101 to WS104) to maximum depths 2.0m bgl.</li> <li>• 4 No. machine excavated trial pits (TP101 to TP104) to depths between 2.8m and 3.6m bgl.</li> <li>• Full-time supervision by a WYG consultant, to record the ground conditions and obtain soil samples.</li> <li>• In-situ Standard Penetration Tests (SPTs).</li> <li>• Installation of monitoring wells in all four window sample holes.</li> <li>• Chemical and Geotechnical laboratory testing.</li> <li>• 6 No. visits to site to monitor for ground gas and groundwater levels (27/08/13 to 26/09/13).</li> </ul>
<p>Ground Conditions</p>	<p>Ground conditions encountered comprised grass or tarmac over granular Made Ground of black ashly gravelly fine to coarse sand with occasional cobble-sized fragments of brick. This was generally underlain by cohesive Made Ground of reworked grey-brown or black sandy gravelly clay. Underlying Glacial Till comprising sandy gravelly clay was encountered in all exploratory locations.</p> <p>No significant visual or olfactory observations or significant in-ground obstructions were noted during the investigation.</p> <p>Groundwater was not observed during the investigation and subsequent monitoring recorded groundwater levels in the monitoring wells at depths between 0.1 and 0.8 m bgl.</p>
<p>Laboratory Testing and Land Gas Monitoring Results</p>	<p>Soil samples underwent testing as follows:</p> <ul style="list-style-type: none"> <li>• 8 No. site specific soils suites, which included the following determinands: arsenic, water soluble boron, beryllium, cadmium, total chromium, hexavalent chromium, copper, free cyanide, lead, mercury, nickel, selenium, zinc, vanadium, pH, water soluble sulphate, phenol and speciated 16 Polycyclic Aromatic Hydrocarbons (PAHs).</li> <li>• 4 No. Total Petroleum Hydrocarbons (TPH CWG).</li> <li>• 4 No. asbestos screen.</li> <li>• 4 No. Fraction Organic Carbon (FOC).</li> </ul> <p>Only one slightly elevated concentration of benzo(a)pyrene in Made Ground exceeded the applicable screening values for a commercial end-use.</p> <p>Asbestos fibres were not detected in any samples of the Made Ground that were screened.</p> <p>Based on the worse case peak and steady gas concentrations and flow rates recorded during monitoring, the site is Characteristic Situation (CS) 1, in accordance with CIRIA C665.</p>
<p>Tier 1 Contaminated Land Risk Assessment</p>	<p>Overall, the site poses a <b>low</b> risk.</p> <p>The contamination risk posed to future site users is considered to be low based on the likelihood of separation from the Made Ground by building footprint or hardstanding.</p> <p>The risk to construction workers, controlled waters and flora and fauna is considered to be low.</p> <p>The risk to future potable water supplies is considered to be low to moderate but may require suitable mitigation to refine the risk posed, dependant on building design and subject to Local Authority Development Control approval.</p>
<p>Geotechnical Assessment</p>	<ul style="list-style-type: none"> <li>• Coarse particles and/or remnant sub-structures within the Made Ground may present a degree of obstruction to the installation of new foundations, the digging of services trenches and the like. The breaking out of foundation walls and slabs may be required in some areas.</li> <li>• The potential instability of the near surface Made Ground may require the use of shoring during the excavations of trenches and the like.</li> <li>• Groundwater levels of between 0.1m to 0.8m bgl have been recorded across the site during monitoring. If, during excavation and construction, groundwater is encountered at shallow depth, groundwater control measures may be required for the construction of new basements, substructures or deeper trench excavations.</li> <li>• Firm to stiff sandy clay deposits exist at relatively shallow depth below the Made Ground. Where the clay is within approximately 1m or so of final site levels, standard strip foundations may be suitable for two to three storey buildings. For areas of thicker Made Ground, trench fill foundations (or reinforced strip foundations supported on improved ground) may be feasible.</li> </ul>

# Geo-Environmental Desk Study & Ground Investigation Report

## Plot 1, Newton Heath



	<p>Taller or heavier structures may require piled foundations.</p> <ul style="list-style-type: none"><li>• In accordance with BRE Special Digest 1:2005 Concrete in aggressive ground, based on chemical analysis of soils, the site is classified as Design Sulphate Class DS1 and ACEC Class AC1.</li><li>• The stability of the site is not considered to be at risk from the historical mining of coal.</li></ul>
Conclusions and Recommendations	Overall, the site poses a <b>low</b> risk and may require suitable mitigation to refine the risk posed to new development, dependant on proposed end-use, building design and subject to Local Authority Development Control approval.
This sheet is intended as a summary of the assessment of the site. It does not provide a definitive analysis.	



## 2.0 INTRODUCTION

### 2.1 Instruction

WYG Environment Planning Transport Limited (WYG) was commissioned by the Homes & Communities Agency (HCA) to undertake a desk study and a preliminary geo-environmental investigation and assessment of a parcel of land known as Plot 1, Newton Heath, Manchester (see Figures 1 and 2). The land was formerly part of the Weir Pumps factory complex.

### 2.2 Aims and Objectives

The principal aim of the commissioned work is to provide a preliminary land contamination and geotechnical assessment of the site to support marketing of the land to potential developers.

### 2.3 Proposed Development

It is understood that there are currently no firm development proposals for the site, but that likely developments would be of a commercial nature providing employment opportunities.

### 2.4 Scope of Services

In order to achieve the above stated aims and objectives, the following scope of works was determined:

- Desk top study and site walkover inspection.
- Review of third party reports.
- Preliminary ground investigation.
- Reporting of factual information gathered.
- Interpretation of results, including a Tier 1 human health and controlled waters assessment, confirmation of a conceptual site model and risk assessment, preliminary geotechnical assessment and identification of potential constraints on developments of the type outlined above, to the extent allowed by the preliminary investigations carried out.



## 2.5 Report Conditions

Attention is drawn to the report conditions included in Appendix A and our tender ref: A083215/Newton Heath/Tender/HCA Newton Heath Tender July 2013.



### 3.0 SITE DESCRIPTION

Plot 1 is located along the south side of Grimshaw Lane in the Newton Heath area of Manchester. A Site Location Plan and Site Plan are provided as Figure 1 and Figure 2 respectively.

A site visit was undertaken on 1<sup>st</sup> July 2013. A summary of the findings based on the walkover inspection and OS mapping is provided in Table 3.1 below.

**Table 3.1 – Summary of Site Details**

<b>Site Address</b>	Grimshaw Lane, Newton Heath, Manchester, M40 8HN
<b>Grid Reference</b>	386989, 399723
<b>Area</b>	2.47 ha
<b>Site Description</b>	Former railway sidings land, granular Made Ground partially overgrown with grass and wild shrubs. Chain-link perimeter fence and locked gates
<b>Site Access</b>	Pedestrian and vehicle access off Grimshaw Lane
<b>Topography</b>	Mostly flat and level. Gypsy bunds at site gates and across middle of site
<b>Surrounding Land Uses</b>	North-east: Grimshaw Lane, derelict land and bakery beyond
	South-east: Briscoe Lane, former aeroplane factory beyond
	South-west: Railway land
	North-west: Canned food factory



## 4.0 DESK STUDY

### 4.1 Environmental Setting

Regulatory authority information relevant to the site and its surroundings has been obtained from the following sources:

- Environmental database;
- Government website [www.magic.gov.uk](http://www.magic.gov.uk); and,
- Environment Agency (EA) website, *What's in your Backyard?*

Relevant information is summarised below. A copy of the environmental database is included in Appendix B. Distances stated are approximate and are taken from the nearest boundary of the site to the database recorded entries.

#### 4.1.1 Waste

There are no historical landfills, active BGS recorded landfill sites, registered landfill sites or local authority recorded landfill sites at the site or within a 250m radius.

There are 2 no. Licensed Waste Management Facilities within 250m of the site; these are located approximately 70m south of the site associated with waste treatment and approximately 180m northwest associated with material recycling including recycling drums.

#### 4.1.2 Industrial Processes

There are no contaminated land register entries and notices, enforcement and prohibition notices, active Integrated Pollution Control (IPC) authorisations, Integrated Pollution Prevention Control (IPPC) authorisations, Local Authority Pollution Prevention and Control (LAPPC) authorisations, Local Authority Integrated Pollution Prevention and Control (LAIPPC) or prosecutions relating to authorised processes at the site or within a 250m radius.

There is 1 no. IPPC associated with soft drinks manufacture approximately 120m west of the site.



The environmental database lists 12 no. active Contemporary Trade Directory Entries within 250m of the site. Relevant entries include vehicle repairers, approximately 90m west of the site. Other entries include cleaning, insulation material, meat wholesale, printers and a pallet business.

There are no recorded active petrol filling stations within 250m of the site.

#### **4.1.3 Health and Safety**

There are no registered Control of Major Accident Hazard (COMAH) sites, explosive sites, Notifications of Installations Handling Hazardous Substances (NIHHS) sites, planning hazardous substances consents / enforcements or registered radioactive substances permits relating to the site or within a 250m radius of the site.

#### **4.1.4 Environmentally Sensitive Sites**

The environmental database indicates that there are no Special Protection Areas (SPAs) or Sites of Special Scientific Interest (SSSI) within 500m of the site.

### **4.2 Site History**

Available extracts of historical Ordnance Survey (OS) maps provided by the environmental database were used to research the history of the site and the surrounding area. The on-site and off-site history and a summary of potentially contaminative uses are detailed below.

Copies of all historical Ordnance Survey maps reviewed are included in Appendix C.

#### **4.2.1 On Site**

The north-western part of the site was occupied by Wild's Farm until about 1922. The site is bounded by Grimshaw Lane to the north and the railway at Ardwick Junction to the south. By 1908, various sidings associated with the adjacent Park Engineering Works were present across the site. The sidings appear to have become disused by the 1990s.



#### **4.2.2 Site Surroundings**

The earliest available map (1848) reviewed indicates the site was primarily surrounded by open land with various ponds. By 1893, a dye works was located immediately northwest with a cement works, corporation yard, gas plant works and another dye works beyond. By 1908, the majority of land to the north and north east was occupied by pits (one later a reservoir, circa 1922) and mineral railway sidings, with Park Engineering Works (significantly extended circa 1948) present approximately 100m northeast of the site. Further clay pits were present beyond the railway, approximately 75m south of the site. Buildings adjacent to the railway (one a chemical works circa 1948) are also present approximately 100m southwest of the site during this time.

By 1922, residential development had occurred approximately 100m to 200m southwest of the site in addition to the presence of a brick works (Philips Park) approximately 120m south of the site. By 1932, the Avro Works (Aeroplane) is present immediately east of the site (later annotated as a warehouse). The pits are no longer present to the north of the site circa 1948 and some of the land has been developed as a sports ground with further sports development to the north.

By 1966, the former brick works has been redeveloped as an abattoir and by 1981 further works have been developed adjacent to the railway approximately 100m south of the site.

Recently, the former Engineering works site was demolished in 2007, and redeveloped as a bakery.

#### **4.2.3 Historical Potentially Contaminative Uses**

Based on the site history, the following potentially contaminative uses at and within 250m of the site have been identified:

- On site – Farm, tramway/mineral railway/sidings/car park.
- Northeast – Engineering works/clay pits/mineral railway.
- East - Works.
- South & South West – Railway.
- West – Dye works.



## 4.3 Geology, Hydrogeology and Hydrology

### 4.3.1 Geology

Details of the geology underlying the site have been obtained from the following sources:

- BGS Sheet No. 85 (Manchester) Solid Edition, 1:50,000 scale;
- BGS Sheet No. 85 (Manchester) Drift Edition, 1:63,360 scale;
- BGS Sheet SJ 89 NE, 1:10,560 scale;
- the Coal Authority Coal Mining Report; and
- Environmental database search.

#### Made Ground

The geological map shows Made Ground deposits to be present at the site.

#### Superficial Geology

The geological map indicates that the site is underlain by Glacial Till.

Referring to Urban Soil and Soil Chemistry data provided by the British Geological Survey (BGS), the environmental database indicates concentrations of a range of metals similar to the surrounding conditions associated with arsenic, cadmium, chromium, lead, with slightly higher concentrations of arsenic, chromium, nickel possibly associated with the Made Ground.

#### Solid Geology

The Bradford Fault strikes across the northeastern tip of the site. To the northeast of the fault, the solid geology comprises Chester Pebble Beds. On the other side of the fault, the site is indicated to be underlain by Pennine Upper Coal Measures.

The 1:10,560 scale map does not show any coal seams outcropping on the site. However, the vertical geological section presented on the map shows a 0.7m thick coal seam in the Coal Measures



sequence which, if present, would outcrop on or just to the north of the site and dip down to the south-west underneath the site.

### Radon

The environmental database indicates that the site not in a radon affected area, as less than 1% of homes are above the Action Level. The environmental database does not recommend that radon protection measures are required in the construction of new dwellings or extensions on any part of the site.

### Mining

The environmental database indicates that the site is located within an area that may be affected by coal mining activity.

A Coal Mining Report has been obtained from The Coal Authority for the area which includes Plot 1. A copy of the report is included in Appendix D.

In summary, the coal mining report states that:

- The site is in the likely zone of influence from workings in three seams of coal at 130m to 600m depth, last worked in 1964.
- Any ground movement from these workings should have stopped by now.
- The property is in an area where the Coal Authority believes there is coal at or close to the surface. This coal may have been worked at some time in the past.
- There are no known coal mine entries within, or within 20m of, the site boundary.

There is a former BGS recorded mineral site approximately 200m south of the site associated with opencast Glacial Till extraction at Philips Park Brick Works.

Nearby BGS boreholes do not indicate the presence of Coal Measures at shallow depths.

### Ground Stability

Table 4.1 indicates the potential ground stability issues associated with the site, according to the environmental database.



**Table 4.1: Ground Stability Hazards**

Ground Stability Hazard	Risk
Collapsible Ground	Very Low
Compressible Ground	No Hazard
Ground Dissolution	No Hazard
Landslide	Very Low
Running Sand	Very Low
Shrinking or Swelling Clay	Very Low

### 4.3.2 Hydrogeology

Details of the hydrogeology of the site and its environs have been obtained from the following:

- Environment Agency (EA) website 'What's in your Backyard?'
- Environmental database.

#### Groundwater Classification

Sources indicate that the site is located on:

- a Principal Principal Aquifer associated with the Coal Measures (Bedrock) - predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers.

A Principal Aquifer associated with Sandstone bedrock is located immediately northeast of the site.

The Aquifer is overlain by Unproductive Strata (Superficial Glacial Till). These are drift deposits with low permeability that have negligible significance for water supply or river base flow. The impermeable nature of the Glacial Till may offer some protection to the underlying aquifer.

The environmental database indicates these strata are overlain by soils of a potential high leaching. However, soil information in this urban area is based on fewer observations than elsewhere, therefore



a worst case scenario is assumed.

The site is not located in an existing nitrate vulnerable zone.

#### Groundwater Abstraction

The site is not located within a Source Protection Zone (SPZ) for a potable groundwater supply.

The environmental database indicates that there is 1 no. current licensed groundwater abstraction within 1km of the site, located approximately 235m west of the site associated with general construction use for Hanson Quarry Products.

#### **4.3.3 Hydrology**

Details of the hydrology of the area within a 250m radius have been obtained from the following sources:

- Environmental database;
- Ordnance Survey 1:25,000 scale map, 109 Manchester; and,
- Environment Agency website, *'What's in your Backyard?'*

#### Watercourses

The nearest surface water feature is the Rochdale Canal, located approximately 40m to the north of the site. The canal has good current ecological status but does not require chemical quality assessment.

#### Surface Water Abstractions

There are no active surface water abstractions within 250m of the site.

#### Discharge Consents

There are no active consents to discharge to surface waters within 250m of the site.

#### Pollution Incidents





The environmental database indicates that there have been no Pollution Incidents to Controlled Waters within 250m of the site within the last 10 years.

Flood Potential

The environmental database indicates that the site is not located within an area considered to be at risk from flooding.



## 5.0 PREVIOUS SITE INVESTIGATIONS

Two previous environmental interpretative reports pertaining to Plot 1 (formerly Area 3) have been provided by the HCA for review. A summary of the reports is given below.

### **Parkman Environment Report August 2003**

A report pertaining to Plot 1 was produced by Parkman Environment in 2003. The report details a geo-environmental ground investigation undertaken on Areas 1 to 4 of the former Weir Pumps site. The report also reviews four previous investigations undertaken in 1993 (Miller Environmental) 1995 (MEL), 1999 (PB Kennedy & Donkin) and 2002 (a desk study by Arup). Pertinent information is summarised below:

- The 1993 to 2002 investigation reports identified 'no significant sources of contamination' on Plot 1.
- The 1999 investigation by PB Kennedy & Donkin comprised 4 trial pits, mostly concentrated in the north-western end of the site, formerly used for car parking. No significant findings of contamination were reported.
- The Parkman 2003 investigation comprised a further 3 trial pits and 2 cable tool boreholes.
- Made Ground, consisting of gravelly sand or sandy gravel of ash, brick, and clinker with cobbles of brick and concrete, was encountered from ground level to depths of 0.25m to 1.8m bgl. Cohesive Made Ground of sandy gravelly clay with gravel of ash, slag, coal, brick, limestone and mudstone was encountered in most locations. Natural Glacial Clay was encountered beneath the Made Ground.
- Groundwater was not encountered during the main investigation, but was recorded at depths between 0.38m and 1.35m bgl during monitoring.
- No visual or olfactory evidence of contamination was noted.
- Gas monitoring indicated Plot 1 to be Characteristic Situation (CS) 1 as defined by CIRIA C149 (now superseded by CIRIA C665).



- 4 no. soil samples of granular Made Ground and 2 no. samples of cohesive Made Ground were submitted for chemical testing. Ground water analysis and leachability testing were also undertaken.
- Elevated concentrations of copper and zinc were detected in Made Ground samples, compared to ICRCL guidance values. Some elevated Polycyclic Aromatic Hydrocarbons (PAH) and Diesel Range Organics (DRO) were detected in ground water samples, compared to UK Drinking Water Standards. Leachability testing indicated similar leachable organic contaminants compared to UKDWS.
- A Detailed Quantitative Risk Assessment (DQRA) for groundwater was undertaken for Plots 1 to 3 combined. The results indicated no risk to controlled waters.
- Suggested remedial options for Plot 1 were the provision of hard-standing across the site, or redevelopment for commercial/industrial purposes with business units and landscaping.

### **Parkman Environment Report September 2006**

- A second edition of the 2003 report was produced by Mouchel Parkman in September 2006. The aim was to update the report in accordance with (at the time) current legislation, and to update the estimated remediation costs.
- The ground gas Characteristic Situation was updated to CS2 in line with the withdrawal of CIRIA C149 and the introduction of the recommendations of the Wilson and Card paper.
- Contaminant concentrations were reassessed in line with CLEA Soil Guideline Values, following the withdrawal of ICRCL. However, the previously detected elevated concentrations of copper and zinc were still compared to outdated ICRCL values in the absence of generally adopted guidance for phytotoxic contaminants.
- No risks to human health were identified for Area 3 (Plot 1) for a commercial end-use.
- In addition to the recommendations made in the 2003 report, gas 'venting' was recommended for future business units.



## 5.1 Peer Review and Gap Analysis

Based on the desk study information and the peer review of the previous site investigation reports, the following data gaps were identified:

- Two limited previous stages of intrusive investigation were undertaken. Large areas of the site were not intrusively investigated.
- Some elevated metals, PAH and DRO were detected; however, the metal contaminants were compared to now outdated guidelines, and the DQRA indicated no risk to controlled waters from contamination.
- Comparison of the summarised Parkman metal contaminant concentrations with WYG Tier 1 Screening Values for a commercial end-use indicates no elevated concentrations were detected.
- An updated ground gas assessment is required in line with CIRIA C665, BS 8485:2007 and BS 8576:2013.



## 6.0 SUMMARY OF PRELIMINARY CONCEPTUAL SITE MODEL

The site has been considered in line with the current UK guidelines, namely the Contaminated Land (England) Regulations 2000 and Part II A of the Environmental Protection Act 1990, in accordance with current guidance.

For a risk of pollution or environmental harm to occur as a result of ground contamination, all of the following elements must be present:

- A source, i.e. a substance that is capable of causing pollution or harm;
- A receptor (or target), i.e. something which could be adversely affected by the contaminant; and
- A pathway, i.e. a route by which the contaminant can reach the receptor.

If one of these elements is absent there can be no significant risk. If all are present then the magnitude of the risk is a function of the magnitude and mobility of the source, the sensitivity of the receptor and the nature of the migration pathway.

Potential sources, pathways and receptors have been identified and the risks associated with possible pollutant linkages outlined. The site assessment is undertaken based on the likely end use of the site as a residential development.

**Table 6.1 –Preliminary Conceptual Site Model (CSM)**

<b>On Site Sources</b>	Made Ground and historical use as farm/mineral railway/car park (ground gases and potential contamination). Some elevated metals, PAH and DRO detected in previous investigation.
<b>Off Site Sources</b>	Possible inorganic and organic contamination in the immediate area surrounding the site associated with former and current industrial uses.
<b>Pathways</b>	Ingestion, inhalation and dermal contact with soil/dust. Leaching and groundwater migration. Migration of ground gases.
<b>Receptors</b>	Human health, controlled waters, structures, landscaping.
<b>Preliminary Risk Assessment</b>	Overall, the site is considered to pose a moderate risk to future site users, specifically pertaining to future human health. It is recommended that a ground investigation is undertaken to help refine this preliminary risk assessment.



## 7.0 WYG INVESTIGATIONS

### 7.1 Fieldworks Undertaken

The intrusive investigation works were undertaken on 20<sup>th</sup> August and 22<sup>nd</sup> August 2013, with follow-up monitoring of borehole installations between 27<sup>th</sup> August and 26<sup>th</sup> September 2013.

The works were undertaken in general accordance with BS 10175: Code of Practice for Site Investigations of Potentially Contaminative Sites, BS5930 (+A2), BS EN1997-2, BS EN ISO 14688 and 14689, and BS8576:2013.

Following review of the desk study information and the previous site investigation reports, the rationale for the recent WYG ground investigation was:

- exploratory holes to be positioned to fill obvious data gaps;
- a mix of window sample boreholes, in-situ Standard Penetration Tests (SPTs) and trial pitting to allow monitoring wells to be installed, chemical and geotechnical samples to be obtained, geotechnical parameters to be derived, and visual inspection of near-surface ground conditions to be made;
- trial pitting to allow characterisation and inspection of any in-ground obstructions.

The works undertaken comprised the following:

- 4 No. window sample holes (WS101 to WS104) to depths of 2.0m bgl.
- 4 No. machine excavated trial pits (TP101 to TP104) to depths between 2.8m and 3.6m bgl.
- Full-time supervision by a WYG consultant, to record the ground conditions and obtain soil samples.
- In-situ Standard Penetration Tests (SPTs).
- Installation of monitoring wells in all four window sample holes.
- Chemical and Geotechnical laboratory testing.
- 6 No. visits to site to monitor for ground gas and groundwater levels (27/08/13 to 26/09/13).



An exploratory hole location plan is presented as Figure 3. The exploratory holes were positioned to provide overall site coverage and gain ground information in areas not previously investigated.

Detailed engineering logs are presented as Appendix E and a summary of the encountered ground conditions is provided in Section 8.

## **7.2 Laboratory Analysis**

### **7.2.1 Soils Chemical Testing**

Soil samples underwent testing at Jones Forensic Environmental Laboratory, an MCERTS/UKAS accredited laboratory in Deeside, Flintshire, as follows:

- 8 No. site specific soils suites, which included the following determinands: arsenic, water soluble boron, cadmium, total chromium, hexavalent chromium, copper, free cyanide, lead, mercury, nickel, selenium, zinc, pH, water soluble sulphate, phenol, speciated 16 Polycyclic Aromatic Hydrocarbons (PAHs) and Extractable Petroleum Hydrocarbons (EPH C8-C40).
- 4 No. Total Petroleum hydrocarbons (TPH CWG).
- 4 No. asbestos screen.
- 4 No. Fraction Organic Carbon (FOC).

Full copies of the chemical laboratory testing results and the accreditation details for each determinand analysed are included in Appendix F.

### **7.2.2 Geotechnical Laboratory Testing**

Geotechnical samples underwent the following testing at Professional Soils Laboratory (PSL), a UKAS accredited laboratory in Doncaster, as follows:

- 6 No. moisture content.
- 6 No. Atterberg Limits.



- 5 No. water soluble sulphate (2:1 water:soil extract) and pH value.
- 3 No. organic content.

Full copies of the geotechnical laboratory testing results are included in Appendix G.



## 8.0 ENCOUNTERED GROUND CONDITIONS

A summary of the encountered geological conditions is presented below, with detailed information presented on the exploratory hole logs included in Appendix E.

### 8.1 Made Ground

Surface ground conditions in the north-western half of the site generally comprise tarmac. In the south-eastern half of the site, the surface is overgrown by grass, wild shrubs and trees.

Below the surface, the upper layer of Made Ground generally comprises black ashy gravelly fine to coarse sand with occasional cobble-sized fragments of brick. Gravel is angular fine to coarse, of brick, concrete, clinker, sandstone with occasional slate, pottery and plastic fragments, to a maximum depth of 0.8m bgl.

This is generally underlain by cohesive Made Ground of reworked grey-brown or black sandy gravelly clay with occasional relict rootlets. Sand is fine to coarse of ash. Gravel is angular fine to coarse of brick, concrete, sandstone, clinker and coal, to a maximum depth of 1.3m bgl.

### 8.2 Superficial Deposits

Underlying the Made Ground at TP101 is a band of soft to firm slightly sandy clay, from 0.6m to 1.0m bgl.

All locations encountered a natural deposit of firm to stiff brown-grey mottled sandy clay (Glacial Till), to a maximum excavated depth of 3.6m bgl.

### 8.3 Solid Deposits

Bedrock was not encountered during the investigation.

**Table 8.1 Summary of Encountered Ground Conditions**

Stratum	Depth Encountered (m bgl)	Depth to Base (m bgl)	Thickness (m)	SPT Range (N)
Tarmac and sub-base	Ground level	0.05-0.20	0.05-0.20	N/A



Made Ground – granular	0-2.0	0.4-0.8	0.3-0.6	N/A
Made Ground – cohesive	0.3-0.8	0.4-1.3	0.1-0.8	7-11
Glacial Till (sandy gravelly clay)	0.4-1.3	2.0*-3.6*	>0.7* - >2.8*	14-24

Note: \*Not fully penetrated. N/A – Not Applicable.. Made Ground overlain by grass or tarmac at ground level.

## 8.4 Groundwater

Groundwater was observed at 1.3m bgl in WS103 and at 2.7m bgl in TP101 during the main investigation.

Gas monitoring wells were installed in the Made Ground in all four window sample holes (WS101 to WS104). Subsequently, groundwater levels have been monitored on six occasions (between 27/08/13 and 26/09/13).

Table 8.2 below summarises the groundwater encountered and the range of levels monitored to date. Full results are included in Appendix H.

**Table 8.2 Groundwater Levels Monitored**

Location	Water strike during drilling (m bgl) in Stratum	Response Zone (m bgl) in Stratum	Monitored Water Level Range (m bgl)
WS101	N/A	0.3-1.3 (MG)	<b>0.1-0.45</b>
WS102	N/A	0.3-1.1 (MG)	<b>0.6-0.8</b>
WS103	1.3	0.3-1.0 (MG)	<b>0.3-0.8</b>
WS104	N/A	0.1-0.4 (MG)	<b>0.2-0.4</b>

Note: MG – Made Ground. N/A – Not Applicable.

## 8.5 Observed Contamination

Made Ground was encountered in all exploratory locations and where encountered generally comprised black ashy fine to coarse sand with occasional cobble-sized fragments of brick with gravel of angular fine to coarse of brick, concrete, clinker, sandstone with occasional slate, pottery and plastic fragments, or reworked grey-brown or black ashy sandy clay with occasional relict rootlets and gravel of angular fine to coarse of brick, concrete, sandstone, clinker and coal; however, significant visual and olfactory observations of contamination were not noted during the investigation works.



## 8.6 Observed Obstructions

Significant in-ground obstructions were not encountered during the site investigation works.



## 9.0 GROUND GAS RESULTS AND ASSESSMENT

### 9.1 Ground Gas Results

Six ground gas and groundwater level monitoring visits have been undertaken, on 27/08/13, 03/09/13, 10/09/13, 17/09/13, 23/09/13 and 26/09/13. Visits were conducted across a range of barometric conditions. The gas monitoring was undertaken in accordance with BS 8576:2013. Table 9.1 below summarises the ground gas results and the results are presented in Appendix H.

Elevated methane was not detected in any exploratory hole. No carbon dioxide concentrations were detected. Normal oxygen levels were recorded in all boreholes. No significant concentrations of hydrogen sulphide were recorded. Slightly elevated concentrations of carbon monoxide were detected on 10/09/13 in WS101, and on 17/09/13 and 23/09/13 in WS102, WS103 and WS104.

Significant flow rates were not recorded during the monitoring period.

Semi-quantitative analysis of concentrations of VOCs was obtained using a hand-held photo-ionisation detector (PID). No significantly elevated concentrations were recorded.

**Table 9.1: Summary of Ground Gas Results (based on 6 no. visits)**

Location	Response Zone (m bgl) & Strata	Max. Methane Conc. %	Max. Carbon Dioxide Conc. %	Min. Oxygen conc. %	Max. Flow Rate (l/hr)	Water Level Range (m bgl)
WS101	0.3-1.3 (MG)	<0.1	<0.1*	20.5*	<0.1*	<b>0.1-0.45</b>
WS102	0.3-1.1 (MG)	<0.1	<0.1*	20.3*	<0.1*	<b>0.6-0.8</b>
WS103	0.3-1.0 (MG)	<0.1	<0.1*	20.3*	<0.1*	<b>0.3-0.8</b>
WS104	0.1-0.4 (MG)	<0.1	<0.1*	20.2*	<0.1*	<b>0.2-0.4</b>

Note: MG – Made Ground. \* - Peak and steady the same.

### 9.2 Ground Gas Assessment

Ground gas results have been assessed using the methodology described in CIRIA C665. The methodology uses volume flow rates to assess the risk from ground gas.

In accordance with the CIRIA methodology, a conservative Gas Screening Value (GSV) is calculated using a worst case scenario (i.e. highest gas concentration combined with highest flow rate). Where



readings are not recorded above the instrument detection limit, the value of the instrument detection limit is used to calculate the GSV. The calculation of the GSV is as follows:

$$\begin{aligned} 0.1\% \text{ CH}_4 \times 0.1 \text{ l/hr} &= 0.0001 \text{ l/hr CH}_4 \\ 0.1\% \text{ CO}_2 \times 0.1 \text{ l/hr} &= 0.0001 \text{ l/hr CO}_2 \end{aligned}$$

Based on the worse case peak and steady gas concentrations and flow rates, the site is Characteristic Situation (CS) 1 (very low risk), in accordance with CIRIA C665. This is typical of natural soil with a low organic content and 'typical' Made Ground. These conditions are considered similar to those observed on site.

Based on these values, gas mitigation measures as prescribed in BS 8485:2007 (Table 2) for the end use (commercial) are not considered to be required.

Ultimately, the proposals for gas protection measures will be subject to Local Authority Planning and Building Control approval.



## 10.0 GROUND CONTAMINATION ASSESSMENT

### 10.1 Soils Contamination Assessment Methodology

In order to assess the Tier 1 environmental risk posed by potential contaminants within the underlying soils WYG undertook an initial screen of the laboratory results using Tier 1 Screening Values (TSVs) for a commercial end use. The TSVs are based on published screening values modelled using CLEA v1.06 to remove the plant uptake exposure pathway. A conservative 1% Soil Organic Matter (SOM) has been used for the purpose of this initial screening assessment. The following published sources have been used:

- Environment Agency published screening values (April, May and July 2009).
- The LQM/CIEH Generic Assessment Criteria (GAC) for Human Health Risk Assessment (2nd Edition), 2009 published screening values.
- The EIC/AGS/CL:AIRE Soil Generic Assessment Criteria for Human Health Risk Assessment, January 2010 published values.
- WYG derived TSV for lead using CLEA Model V1.06, based on pH 7 and 1% SOM, as further detailed below.
- A published acute effect for an infant from one dose (ingestion) of 3g soil, for freely available cyanide.

At present there is currently no published SGV for lead. A previous SGV published for lead has been withdrawn by the EA as it was derived using a version of the CLEA model that has now been superseded and withdrawn from use. Interim guidance given on the EA CLEA website has indicated that the EA will consider setting the Health Criteria Value (HCV) as an intake dose, and not a blood lead level as it was for the previously published SGV. WYG has derived a SGV/HCV for lead for the site based on use of the current CLEA model and input criteria provided by the CLEA team.

Where EPH values are reported, professional judgement has been used in relation to whether these pose a risk to human health.



The chemical results are provided in Appendix F and a summary of the screening values used, and those concentrations which exceed them, is given in the section below.

Contaminant concentrations below the TSVs are considered not to warrant further risk assessment. Concentrations of potential contaminants above the TSVs require further consideration of the potential pollutant linkages. It should be noted that exceedance of the TSVs does not necessarily mean that the site requires remediation.

It is considered that at depths greater than 1m, the probability of human exposure via the direct contact pathways is significantly reduced, leaving inhalation of volatile compounds as the dominant pathway with regard to human health risks. Typically, volatile compounds only significantly affect the indoor inhalation pathway.

## 10.2 Controlled Waters Contamination Assessment Methodology

The site is not considered to be located in a sensitive area with respect to groundwater or surface water, nor did the monitoring wells provide significant yield of groundwater for analysis; therefore a controlled waters contamination assessment has not been undertaken.

## 10.3 Site Contamination Assessment

### 10.3.1 Initial Tier 1 Soils Screening

An assessment of the chemical results has been undertaken in accordance with the methodology described above.

For the determinands analysed, there was only one slightly elevated concentration of benzo(a)pyrene detected, in a sample of Made Ground from 0.4m at WS102, which exceeded the applicable screening values for a commercial end-use. A summary of the exceedance is provided in Table 10.1 below.

**Table 10.1 Summary of Tier 1 Soil Screening Exceedances for Commercial End-Use**

Determinand	TSV (mg/kg)	Total no. of tests	Conc. Range (mg/kg)	No. elevated above TSV	Location of exceedance
Benzo(a)pyrene	14	8	0.06 – 15.4	1	WS102 at 0.4m bgl (15.4mg/kg)



## 11.0 CONTAMINATION RISK ASSESSMENT

The site is being considered for future development and has been assessed on the basis of its suitability for the proposed end use, in line with current UK guidance including the National Planning Policy Framework (NPPF), March 2012.

For a risk of pollution or environmental harm to occur as a result of ground contamination, all of the following elements must be present:

- A source, i.e. a substance that is capable of causing pollution or harm;
- A receptor (or target), i.e. something which could be adversely affected by the contaminant; and
- A pathway, i.e. a route by which the contaminant can reach the receptor.

If one of these elements is absent there can be no significant risk. If all are present then the magnitude of the risk is a function of the magnitude and mobility of the source, the sensitivity of the receptor and the nature of the migration pathway.

Potential sources, pathways and receptors have been identified and the risks associated with possible pollutant linkages outlined. At this stage and in accordance with current guidance the following significant sources, pathways and receptors have been defined for the proposed future commercial end-use.

### 11.1 Potential Hazard Sources

#### 11.1.1 On-site Sources

Based on the findings and the chemical test results at the site, it is considered there are limited potential on-site contamination sources. Those identified are:

- The Parkman site investigations detected elevated concentrations of copper and zinc in Made Ground; however, comparison of the summarised Parkman metal contaminant concentrations with WYG Tier 1 Screening Values for a commercial end-use indicates no



elevated concentrations were detected.

- The Parkman site investigations detected some elevated PAH and DRO detected in water samples. Leachability testing indicated similar leachable contaminants. However, the DQRA indicated no risk to controlled waters from contamination
- The recent WYG investigation detected one slightly elevated concentration of benzo(a)pyrene in a sample of Made Ground from 0.4m at WS102.

### 11.1.2 Off-Site Sources

Based on surrounding historical industrial land uses identified during the desk study, it is considered that there are potential off-site hazard sources present, although these are similar to the historical use of the site.

## 11.2 Contamination Pathways

Potential contamination pathways, listed below, have been considered, although the end-use of the site is currently unknown:

- Dermal contact;
- Inhalation of vapours or dusts;
- Ingestion of dusts;
- Leaching to surface run-off/drainage;
- Leaching to groundwater;
- Lateral and vertical migration of groundwater;
- Migration along/into service conduits and pipe work; and,
- Ground gas and vapour migration and accumulation.

## 11.3 Contamination Receptors

Receptors that may be affected by potential contamination are:

- Future site users;



- Development workers;
- Underlying groundwater (Principal Aquifer);
- Surface waters (surface water off-site);
- Adjacent properties and land users (predominantly commercial and residential buildings);
- Future buildings and installations; and,
- Flora (landscaping).

By considering the sources, pathways and receptors, a preliminary assessment of the environmental risk is made with reference to the significance and degree of the risk. This assessment is based on consideration of whether the source contamination can reach a receptor and hence whether it is of major or minor significance.

The risk assessment has been carried out by assessing the severity of the potential consequence, the sensitivity of the target and the likelihood of occurrence, based on the categories given below (Tables 11.1 to 11.3).

**Table 11.1: Potential Hazard Severity Definition**

Category	Definition
Severe	Acute risks to human health, catastrophic damage to buildings/property, major pollution of controlled waters
Medium	Chronic risk to human health, pollution of sensitive controlled waters, significant effects on sensitive ecosystems or species.
Mild	Pollution of non sensitive waters, significant damage to buildings or structures
Minor	Requirement for protective equipment during site works to mitigate health effects, damage to non sensitive ecosystems or species, minor damage to buildings or structures

The likelihood of an event (probability) takes into account both the presence of the hazard and target and the integrity of the pathway and has been assessed based on the categories given below.

**Table 11.2: Probability of Risk Definition**

Category	Definition
High likelihood	Pollutant linkage may be present, and risk is almost certain to occur in long term, or there is evidence of harm to the receptor
Likely	Pollutant linkage may be present, and it is probable that the risk will occur over the long term



Low likelihood	Pollutant linkage may be present, and there is a possibility of the risk occurring, although there is no certainty that it will do so
Unlikely	Pollutant linkage may be present, but the circumstances under which harm would occur are improbable

The potential severity of the risk and the probability of the risk occurring have been combined in accordance with the following matrix in order to give a level of risk for each potential hazard.

**Table 11.3: Level of Risk for Potential Hazard Definition**

		Potential Severity			
		Severe	Medium	Mild	Minor
Probability of Risk	High Likelihood	High	High	Moderate	Low/Moderate
	Likely	High	Moderate	Low/Moderate	Low
	Low Likelihood	Moderate	Low/Moderate	Low	Low
	Unlikely	Low/Moderate	Low	Low	Low

### 11.4 Ground Contamination Risk Assessment

The preliminary risk assessment based on the desk top study has been refined using the ground investigation data obtained.

Based on the mostly commercial/industrial location of the site and the likely nature of future development, the contamination risk posed to future site users, controlled waters and flora and fauna is considered to be **low**.

Based on the correct use of PPE, the risk to construction workers is considered to be **low**.

The risk to future potable water supplies is considered to be **low**, although may require suitable mitigation when specifying materials and construction details for water supply pipes.



The risk to the site from ground gas is considered to be **low**, based on gas monitoring results to date. Ground gas mitigation measures are unlikely to be required, subject to Local Authority Development Control approval.



**Table 11.4 Revised Contamination Risk Assessment (post site investigation)**

On Site						
Source	Pathway	Receptor	Severity	Probability	Risk	Justification
Slightly elevated benzo(a)pyrene in Made Ground	Dermal contact, Ingestion and/or inhalation	Human Health – Future site users	Medium	Unlikely	Low	Chemical analysis indicates 1 no. slightly elevated concentration of benzo(a)pyrene. Exposure to future site users will depend on the site end-use. As the site is likely to be redeveloped for commercial end-use with either building footprint or ground floor hardstanding, the risk to future site users is considered to limit potential exposure.
		Human Health – Construction Workers	Minor	Low	Low	The risk rating is based on the use of Personal Protective Equipment (PPE) and appropriate working procedures.
	Direct contact/plant root uptake	Flora and fauna (gardens & landscaping)	Minor	Low	Low	There may be a requirement to import a suitable growing medium if landscaping is required.
	Leaching, and lateral and vertical migration of groundwater	Controlled Waters – Principal Aquifer	Mild	Low	Low	The Made Ground at the site is likely to be covered by future hardstanding or building footprint, limiting percolation. The aquifer is afforded some protection by the relatively impermeable overlying Glacial Till.
		Controlled Waters – Surface Waters	Medium	Unlikely	Low	The risk is low based on the mostly commercial/industrial location of the site, and the nearby canal is unlikely to be in hydraulic continuity with groundwater.
		Adjacent Properties and Land Uses	Minor	Unlikely	Low	The risk is based upon the low sensitivity of the receptors.



# Geo-Environmental Desk Study & Ground Investigation Report

## Plot 1, Newton Heath



On Site						
Source	Pathway	Receptor	Severity	Probability	Risk	Justification
Slightly elevated benzo(a)pyrene in Made Ground	Migration along service conduits, pipework	Human Health	Medium	Unlikely	Low	The presence of potential hydrocarbons may require mitigation for future potable water pipelines.
Ground gas generation and accumulation / migration.	Generation and migration / accumulation of ground gases	Human Health – Future site users	Medium	Unlikely	Low	Ground gas monitoring has led to the site being classed as Characteristic Situation 1, which would require no mitigation measures incorporated into building design, subject to Local Authority Regulatory control.
		Future Buildings, Installations and Adjacent Properties	Mild	Unlikely	Low	
		Human Health – Construction workers	Medium	Unlikely	Low	The risk rating is based on the use of Personal Protective Equipment (PPE) and appropriate working procedures.



## 12.0 GEOTECHNICAL ASSESSMENT

It is understood that development proposals for the site are for a commercial end-use; however without firm development plans, only a general assessment can be made at this stage.

In summary, the ground conditions comprise (with increasing depth):

- an impersistent, thin, surface cover of grass and topsoil, or poor condition tarmac;
- granular Made Ground mostly comprising black ashy gravelly fine to coarse sand with occasional cobble-sized fragments of brick, to a maximum depth of 0.8m bgl.
- cohesive Made Ground of reworked grey-brown or black ashy sandy gravelly clay with occasional relict rootlets, to a maximum depth of 1.3m bgl.
- firm to stiff brown-grey mottled sandy clay (Glacial Till).

The following geotechnical characteristics will need to be taken into account when designing and constructing future developments on this site, but are not considered to be significant impediments to such developments.

- Coarse particles and/or remnant sub-structures within the Made Ground (e.g. possible rail track beds, drainage runs) may present a degree of obstruction to the installation of new foundations, the digging of services trenches and the like.
- The potential instability of the near surface Made Ground may require the use of shoring during the excavations of trenches and the like.
- Groundwater was encountered in all three monitoring wells, at depths between 0.1 and 0.8m bgl. If during excavation and construction, groundwater is encountered at shallow depth, groundwater control measures may be required for the construction of new basements, substructures or deeper trench excavations.
- Firm becoming stiff natural sandy clay deposits exist below the Made Ground. Standard spread footing foundations established on the natural clay may be suitable for standard low rise structures. Taller or heavier structures may require piled foundations.



- In accordance with BRE Special Digest 1:2005 *Concrete in aggressive ground*, based on chemical analysis of soils, the site is classified as Design Sulphate Class DS1 and ACEC Class AC1.
- The stability of the site is not considered to be at risk from the historical mining of coal.



## 13.0 CONCLUSIONS & RECOMMENDATIONS

### 13.1 Conclusions

Ground conditions encountered generally comprise an upper layer of coarse granular Made Ground comprising black ashy gravelly fine to coarse sand with occasional cobble-sized fragments of brick, over cohesive Made Ground of reworked grey-brown or black ashy sandy gravelly clay with occasional relict rootlets, underlain by a natural deposit of firm becoming stiff sandy Clay (Glacial Till). Groundwater levels of between 0.1m to 0.8m bgl have been recorded across the site during monitoring.

The recent WYG investigation has indicated one slightly elevated concentration of benzo(a)pyrene in the Made Ground. No Made Ground samples that were screened for asbestos recorded the presence of asbestos fibres.

No elevated ground gas concentrations were recorded during the monitoring. The site has been classified as CS1 and would not require suitable mitigation measures appropriate for the building design, based on BS8485:2007. Ultimately, the proposals for gas protection measures will be subject to Local Authority Development control.

Overall, the site poses a **low** risk. The contamination risk posed to future site users is considered to be low to moderate based on the presence of elevated contaminant concentrations identified but the likelihood of separation from the Made Ground by building footprint or hardstanding may reduce the risk to low. The risk to construction workers, controlled waters and flora and fauna is considered to be low. The risk to future potable water supplies is considered to be low to moderate and may require suitable mitigation to refine the risk posed.

Based on the site investigation information obtained and risk assessment undertaken, it is considered that the site may be classified as Category 4: Human Health in line with Part IIA Statutory Guidance, April 2012; therefore, the site is unlikely to be classified as 'contaminated land'.

In relation to the National Planning Policy Framework, March 2012 – Paragraphs 120 and 121, it is not considered that there would be unacceptable risks from pollution or land stability. It is considered



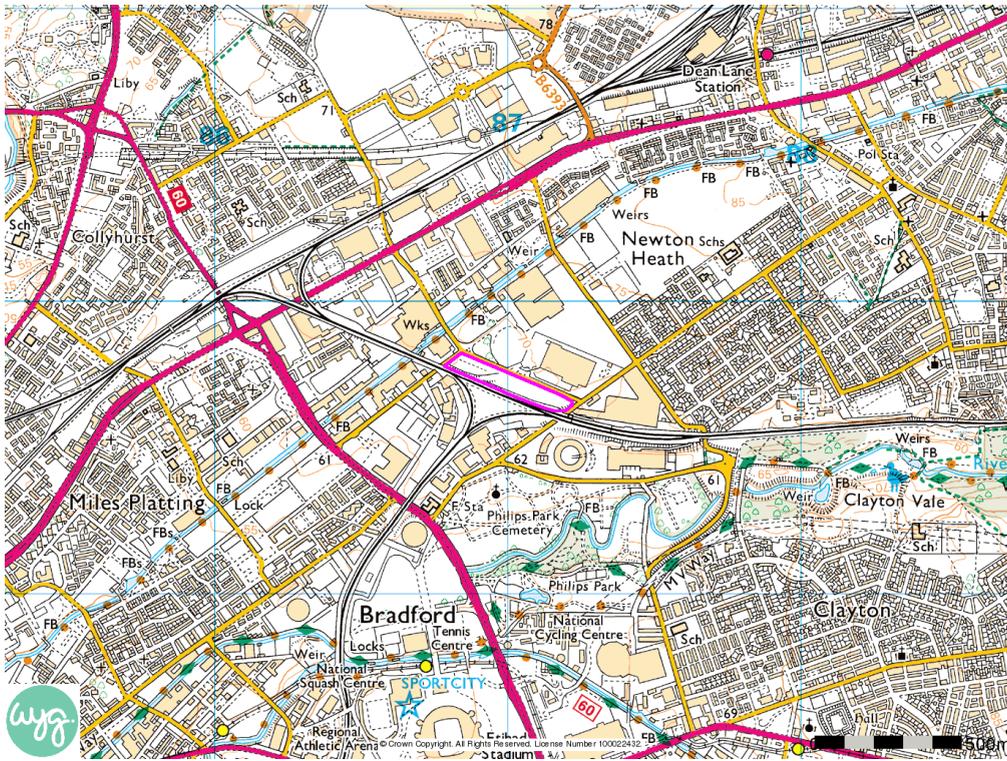
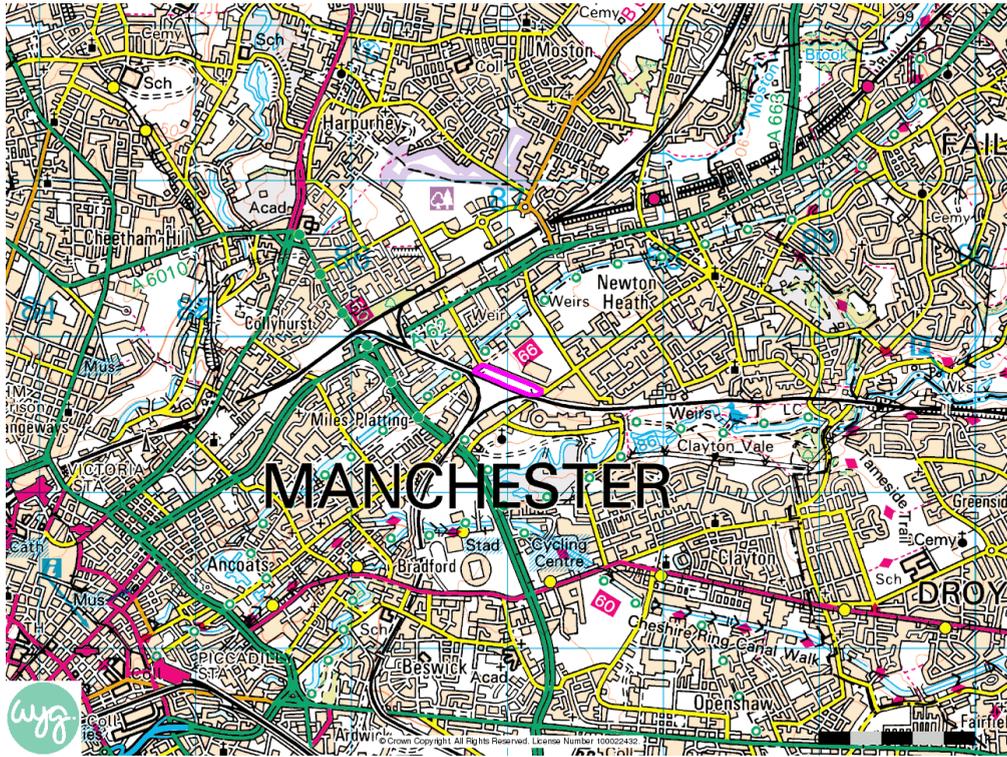
that the following remedial/mitigation measures may be required, but ultimately, these will depend on the form of development and regulatory requirements.

### **13.2 Recommendations**

Subject to consideration of development type and regulatory approvals, it may be necessary to provide a suitably protective cover layer of hardstanding, and/or a suitable thickness of clean cover for any landscaped areas. Any excavated Made Ground will need to be removed by a suitably licenced contractor, subject to further analysis. During redevelopment, construction workers will require appropriate PPE for contact with the Made Ground, and a procedure for identifying and dealing with asbestos will be necessary.



## Figures



 - Site Location

**Quay West at MediaCity UK**  
Trafford Wharf Road  
Salford Quays  
Manchester M17 1HH

**Tel: 0161 872 3223**  
**Fax: 0161 872 3192**  
**E-mail enquiries @wyg.com**



Project : Plot 1, Newton Heath, Manchester

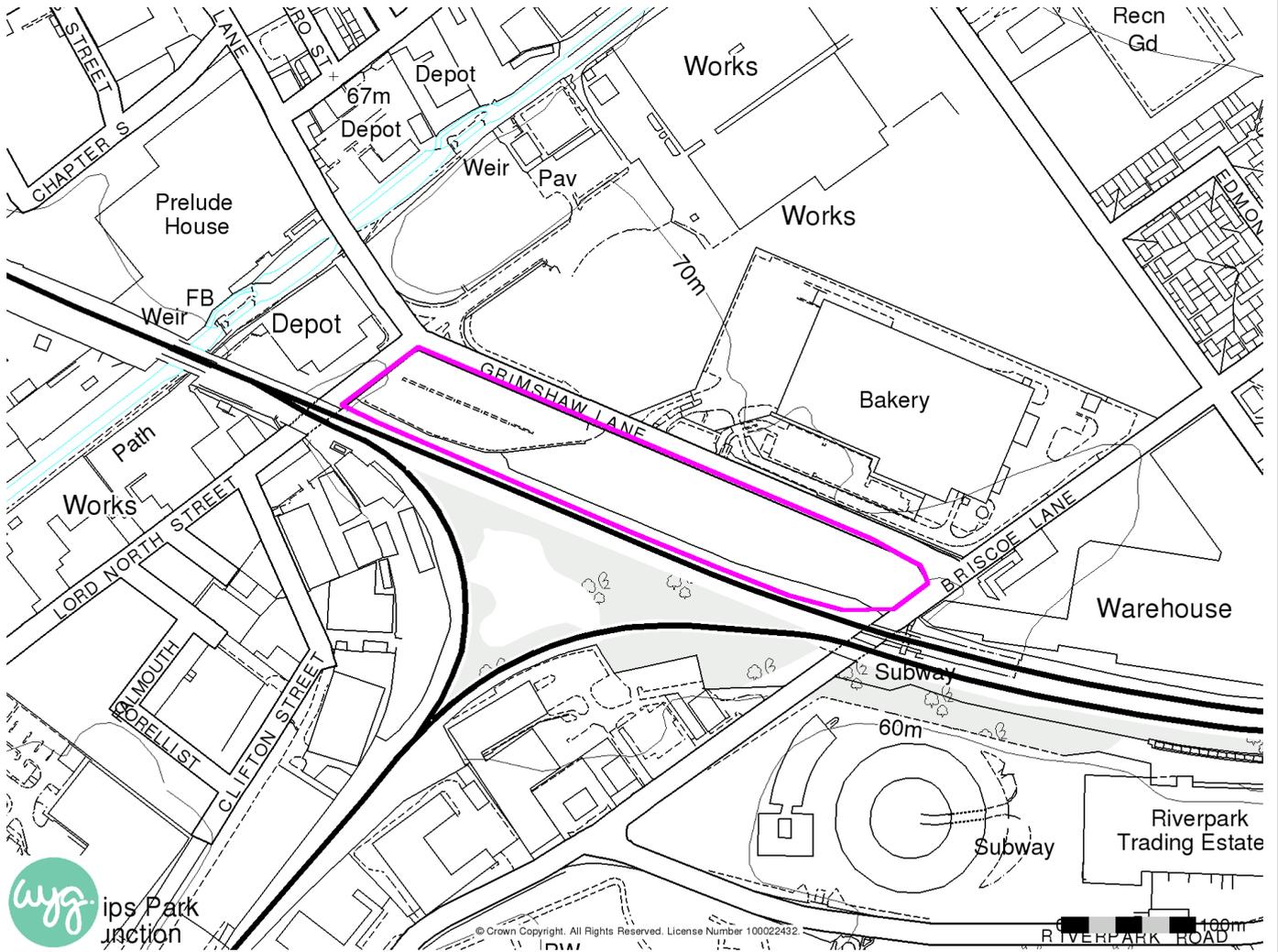
Client : Homes & Communities Agency

Figure 1 – Site Location Plan

Project No.: A083215

Date: September 2013

**Environmental Consultancy**  
**Ground Technologies & Investigation**



 - Site Boundary

**Quay West at MediaCity UK**  
Trafford Wharf Road  
Salford Quays  
Manchester M17 1HH  
  
Tel: 0161 872 3223  
Fax: 0161 872 3192  
E-mail enquiries @wyg.com



Project : Plot 1, Newton Heath, Manchester

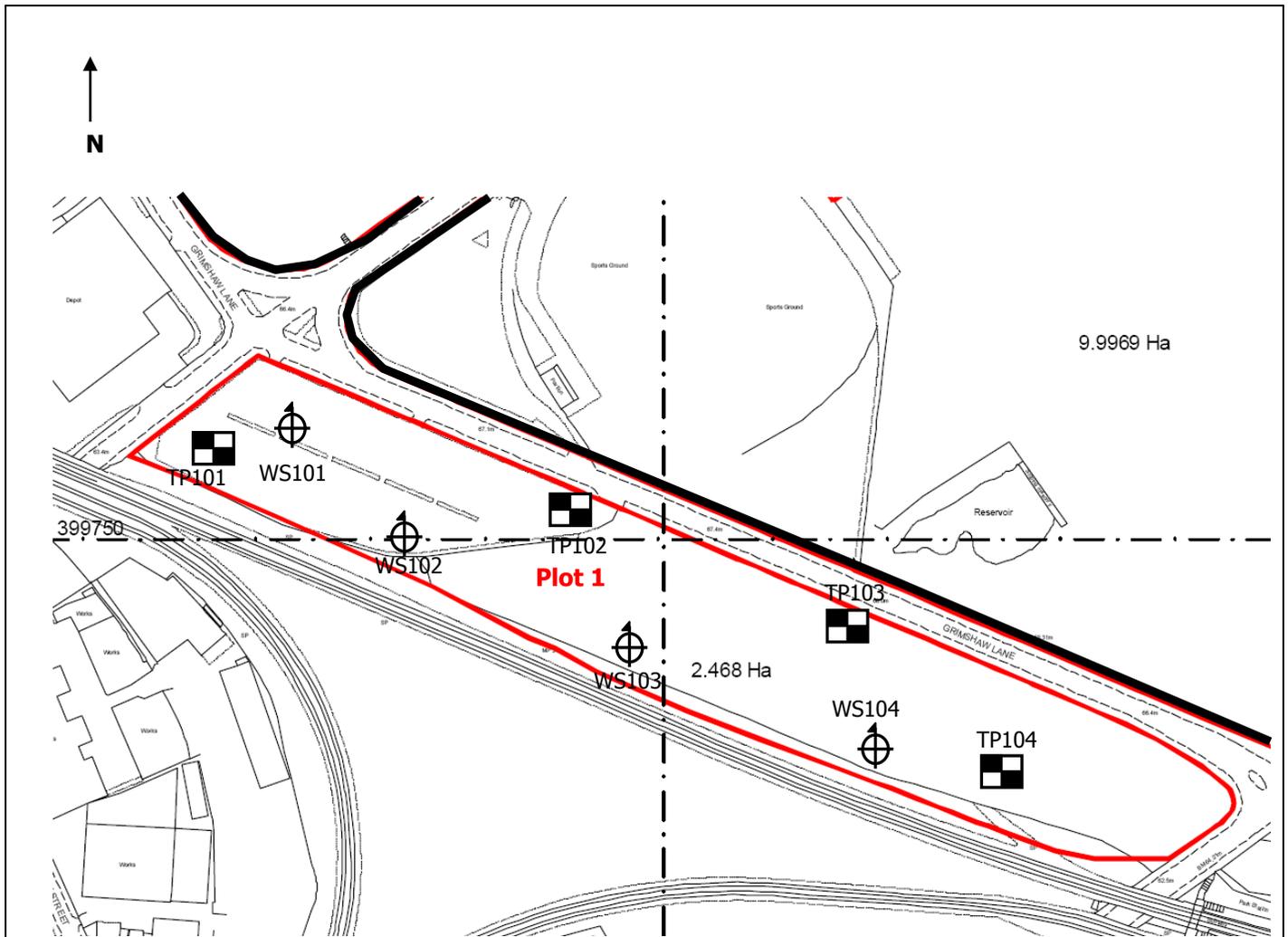
Client : Homes & Communities Agency

Figure 2 – Site Plan

Project No.: A083215

Date: September 2013

Environmental Consultancy  
Ground Technologies & Investigation



**Key:**



Plot Boundary



Window Sample Hole with Monitoring Well (WS)



Trial Pit (TP)

**Notes:**

1. Plan indicative, not drawn to scale.
2. CAT scanning prior to any excavation.
3. Hand dug pits to 1.2m prior to any drilling.

**Site Location:**

Plot 1  
Grimshaw Lane  
Newton Heath  
Manchester  
M40 8HN

Approximate Grid Ref: 386989, 399750

Approximate Site Area: 2.47 ha

**Quay West at MediaCity UK**  
Trafford Wharf Road  
Salford Quays  
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Environmental Consultancy  
Ground Technologies & Investigation

Project : Plot 1, Newton Heath, Manchester

Client : Homes & Communities Agency

Figure 3 – Exploratory Hole Plan

Project No.: A083215

Date: September 2013



## Appendices



## **Appendix A – Report Conditions**



## **APPENDIX A - REPORT CONDITIONS**

### **GROUND INVESTIGATION**

This report is produced solely for the benefit of the Homes & Communities Agency and no liability is accepted for any reliance placed on it by any other party unless specifically agreed in writing otherwise.

This report refers, within the limitations stated, to the condition of the site at the time of the inspections. No warranty is given as to the possibility of future changes in the condition of the site.

This report is based on a visual site inspection, reference to accessible referenced historical records, information supplied by those parties referenced in the text and preliminary discussions with local and Statutory Authorities. Some of the opinions are based on unconfirmed data and information and are presented as the best that can be obtained without further extensive research. Where ground contamination is suspected but no physical site test results are available to confirm this, the report must be regarded as initial advice only, and further assessment should be undertaken prior to activities related to the site. Where test results undertaken by others have been made available these can only be regarded as a limited sample. The possibility of the presence of contaminants, perhaps in higher concentrations, elsewhere on the site cannot be discounted.

Whilst confident in the findings detailed within this report because there are no exact UK definitions of these matters, being subject to risk analysis, we are unable to give categoric assurances that they will be accepted by Authorities or Funds etc. without question as such bodies often have unpublished, more stringent objectives. This report is prepared for the proposed uses stated in the report and should not be used in a different context without reference to WYGE. In time improved practices or amended legislation may necessitate a re-assessment.

The assessment of ground conditions within this report is based upon the findings of the study undertaken. We have interpreted the ground conditions in between locations on the assumption that conditions do not vary significantly. However, no investigation can inspect each and every part of the site and therefore changes or variances in the physical and chemical site conditions as described in this report cannot be discounted.

The report is limited to those aspects of land contamination specifically reported on and is necessarily restricted and no liability is accepted for any other aspect especially concerning gradual or sudden pollution incidents. The opinions expressed cannot be absolute due to the limitations of time and resources imposed by the agreed brief and the possibility of unrecorded previous use and abuse of the site and adjacent sites. The report concentrates on the site as defined in the report and provides an opinion on surrounding sites. If migrating pollution or contamination (past or present) exists further extensive research will be required before the effects can be better determined.



## **Appendix B – Environmental Database Report**



## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

48456150\_1\_1

**Customer Reference:**

A083215 Plot 1

**National Grid Reference:**

387000, 399720

**Slice:**

A

**Site Area (Ha):**

2.67

**Search Buffer (m):**

1000

#### Site Details:

Plot 1

Grimshaw Lane

Newton Heath

Manchester

#### Client Details:

Ms K Ellis

WYG Environment Planning Transport Ltd

Quay West

Trafford Park Road

Salford Quays

Manchester

M17 1HH



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## Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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## Report Version v47.0



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Contaminated Land Register Entries and Notices					
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Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 5				2
Integrated Pollution Prevention And Control	pg 5		2		
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 6		2	11	5
Local Authority Pollution Prevention and Control Enforcements	pg 8				1
Nearest Surface Water Feature	pg 8		Yes		
Pollution Incidents to Controlled Waters	pg 8		1		6
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality	pg 10		1	1	1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points	pg 11			2	
Substantiated Pollution Incident Register	pg 12			2	1
Water Abstractions	pg 13		3		4 (*27)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 21	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 21	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 21	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
<b>Waste</b>					
BGS Recorded Landfill Sites	pg 22			1	
Historical Landfill Sites	pg 22			3	4
Integrated Pollution Control Registered Waste Sites	pg 23		1		
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 23		2	3	2
Local Authority Recorded Landfill Sites					
Registered Landfill Sites	pg 25			1	3
Registered Waste Transfer Sites	pg 27			1	3
Registered Waste Treatment or Disposal Sites	pg 29		1	3	1



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Hazardous Substances</b>					
Control of Major Accident Hazards Sites (COMAH)	pg 33				3
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)	pg 33				1
Planning Hazardous Substance Consents	pg 33				3
Planning Hazardous Substance Enforcements					
<b>Geological</b>					
BGS 1:625,000 Solid Geology	pg 34	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 34	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 43		2	1	3
BGS Urban Soil Chemistry	pg 44		Yes	Yes	Yes
BGS Urban Soil Chemistry Averages	pg 46	Yes			
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas	pg 47	Yes	n/a	n/a	n/a
Mining Instability	pg 47	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 47	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 47	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 47	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 47	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
<b>Industrial Land Use</b>					
Contemporary Trade Directory Entries	pg 48		29	53	86
Fuel Station Entries	pg 62			1	2



## Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
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Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves	pg 63				1
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National Parks					
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Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p><b>Discharge Consents</b></p> <p>Operator: United Utilities Water Plc  Property Type: Sewerage Network - Sewers - Water Company  Location: Lord North/Clifton St, Manchester, Greater Manchester  Authority: Environment Agency, North West Region  Catchment Area: Not Supplied  Reference: 01man0069  Permit Version: 3  Effective Date: 3rd September 2010  Issued Date: 3rd September 2010  Revocation Date: Not Supplied  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Shooters Brook  <b>Status: Varied under EPR 2010</b>  Positional Accuracy: Located by supplier to within 10m</p>	A12SE (W)	204	1	386620 399660
1	<p><b>Discharge Consents</b></p> <p>Operator: United Utilities Water Plc  Property Type: Sewerage Network - Sewers - Water Company  Location: Lord North/Clifton St, Manchester, Greater Manchester  Authority: Environment Agency, North West Region  Catchment Area: Not Supplied  Reference: 01man0069  Permit Version: 2  Effective Date: 14th April 2009  Issued Date: 14th April 2009  Revocation Date: 2nd September 2010  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Shooters Brook  <b>Status: Post National Rivers Authority Legislation where issue date &gt; 31/08/1989</b>  Positional Accuracy: Located by supplier to within 10m</p>	A12SE (W)	204	1	386620 399660
1	<p><b>Discharge Consents</b></p> <p>Operator: United Utilities Water Plc  Property Type: Sewerage Network - Sewers - Water Company  Location: Lord North/Clifton St, Manchester, Greater Manchester  Authority: Environment Agency, North West Region  Catchment Area: Not Given  Reference: 01MAN0069  Permit Version: 1  Effective Date: 1st January 1995  Issued Date: Not Supplied  Revocation Date: 13th April 2009  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Shooters Brook  <b>Status: Post National Rivers Authority Legislation where issue date &gt; 31/08/1989</b>  Positional Accuracy: Located by supplier to within 100m</p>	A12SE (W)	204	1	386620 399660
2	<p><b>Discharge Consents</b></p> <p>Operator: United Utilities Water Plc  Property Type: Sewerage Network - Sewers - Water Company  Location: Briscoe Lane Cso, Philips Park, Manchester, Greater Manchester  Authority: Environment Agency, North West Region  Catchment Area: Not Given  Reference: 016982735  Permit Version: 2  Effective Date: 31st August 1999  Issued Date: Not Supplied  Revocation Date: Not Supplied  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Medlock  <b>Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 100m</p>	A9NW (SE)	395	1	387470 399340



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	<p><b>Discharge Consents</b></p> <p>Operator: United Utilities Water Plc  Property Type: Sewage Disposal Works - Water Company  Location: Riverpark Road, Manchester, Greater Manchester  Authority: Environment Agency, North West Region  Catchment Area: Not Given  Reference: 01MAN0337  Permit Version: 1  Effective Date: 1st January 1995  Issued Date: Not Supplied  Revocation Date: 1st January 1995  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Medlock  <b>Status: Consent revoked or revised: New Consent issued (Section 37(1))</b>  Positional Accuracy: Located by supplier to within 100m</p>	A9NW (SE)	396	1	387460 399330
2	<p><b>Discharge Consents</b></p> <p>Operator: United Utilities Water Plc  Property Type: Sewage Disposal Works - Water Company  Location: Riverpark Road, Manchester, Greater Manchester  Authority: Environment Agency, North West Region  Catchment Area: Not Supplied  Reference: 016982735  Permit Version: 1  Effective Date: 30th September 1994  Issued Date: Not Supplied  Revocation Date: 30th August 1999  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Medlock  <b>Status: New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Manually corrected supplier location</p>	A9NW (SE)	396	1	387460 399330
2	<p><b>Discharge Consents</b></p> <p>Operator: United Utilities Water Plc  Property Type: Sewerage Network - Sewers - Water Company  Location: Clayton Sso Bank Street, Urmston, Trafford, Greater Manchester  Authority: Environment Agency, North West Region  Catchment Area: Not Given  Reference: 016940385  Permit Version: 1  Effective Date: 23rd November 1982  Issued Date: Not Supplied  Revocation Date: 31st March 1998  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Medlock  <b>Status: Consent revoked: Discharge ceased (Water Resources Act 1991, Schedule 10 &amp; 6)</b>  Positional Accuracy: Located by supplier to within 100m</p>	A9NW (SE)	417	1	387480 399320
2	<p><b>Discharge Consents</b></p> <p>Operator: United Utilities Water Plc  Property Type: Sewage Disposal Works - Water Company  Location: River Park Road/Bank St, Manchester, Greater Manchester  Authority: Environment Agency, North West Region  Catchment Area: Not Given  Reference: 01MAN0119  Permit Version: 2  Effective Date: 1st January 1995  Issued Date: Not Supplied  Revocation Date: Not Supplied  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Unknown  Environment:  Receiving Water: Not Supplied  <b>Status: Post National Rivers Authority Legislation where issue date &gt; 31/08/1989</b>  Positional Accuracy: Located by supplier to within 100m</p>	A9NW (SE)	431	1	387490 399310



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	<p><b>Discharge Consents</b></p> <p>Operator: United Utilities Water Plc  Property Type: Sewage Disposal Works - Water Company  Location: River Park Road/Bank St, Manchester, Greater Manchester  Authority: Environment Agency, North West Region  Catchment Area: Not Supplied  Reference: 01man0119  Permit Version: 1  Effective Date: 1st April 1991  Issued Date: Not Supplied  Revocation Date: 31st December 1994  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Not Supplied  Environment:  Receiving Water: Not Supplied  <b>Status: Authorisation revokedRevoked</b>  Positional Accuracy: Located by supplier to within 10m</p>	A9NW (SE)	431	1	387490 399310
3	<p><b>Discharge Consents</b></p> <p>Operator: United Utilities Water Plc  Property Type: Sewerage Network - Sewers - Water Company  Location: Hulme Hall Lane Opp Falmo, Manchester, Greater Manchester  Authority: Environment Agency, North West Region  Catchment Area: Not Given  Reference: 01MAN0260  Permit Version: 1  Effective Date: 1st January 1995  Issued Date: Not Supplied  Revocation Date: Not Supplied  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Shooters Brook  <b>Status: Post National Rivers Authority Legislation where issue date &gt; 31/08/1989</b>  Positional Accuracy: Located by supplier to within 100m</p>	A12SE (SW)	447	1	386520 399420
4	<p><b>Discharge Consents</b></p> <p>Operator: United Utilities Water Plc  Property Type: Sewerage Network - Sewers - Water Company  Location: Bank Street Cso, Clayton, Greater Manchester  Authority: Environment Agency, North West Region  Catchment Area: Not Given  Reference: 016982847  Permit Version: 2  Effective Date: 15th September 1996  Issued Date: Not Supplied  Revocation Date: Not Supplied  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Medlock  <b>Status: Authorisation revokedRevoked</b>  Positional Accuracy: Located by supplier to within 100m</p>	A9NW (SE)	494	1	387490 399230
4	<p><b>Discharge Consents</b></p> <p>Operator: United Utilities Water Plc  Property Type: Sewerage Network - Sewers - Water Company  Location: Bank Street Cso, Clayton, Greater Manchester  Authority: Environment Agency, North West Region  Catchment Area: Not Supplied  Reference: 016982847  Permit Version: 1  Effective Date: 3rd January 1995  Issued Date: Not Supplied  Revocation Date: 14th September 1996  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Medlock  <b>Status: Authorisation revokedRevoked</b>  Positional Accuracy: Located by supplier to within 10m</p>	A9NW (SE)	494	1	387490 399230



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<p><b>Discharge Consents</b></p> <p>Operator: United Utilities Water Plc  Property Type: Sewerage Network - Pumping Station - Water Company  Location: River Park Road, Sso, Manchester, Greater Manchester  Authority: Environment Agency, North West Region  Catchment Area: Not Given  Reference: 01man0118  Permit Version: 1  Effective Date: 15th September 1993  Issued Date: Not Supplied  Revocation Date: 15th September 1993  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Medlock  <b>Status: Authorisation revokedRevoked</b>  Positional Accuracy: Located by supplier to within 100m</p>	A14SE (E)	564	1	387750 399450
6	<p><b>Discharge Consents</b></p> <p>Operator: United Utilities Water Plc  Property Type: Sewage Disposal Works - Water Company  Location: Mill St/Forge Lane, Manchester, Greater Manchester  Authority: Environment Agency, North West Region  Catchment Area: Not Given  Reference: 01man0099  Permit Version: 1  Effective Date: 1st January 1995  Issued Date: Not Supplied  Revocation Date: 26th August 1999  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Medlock  <b>Status: Post National Rivers Authority Legislation where issue date &gt; 31/08/1989</b>  Positional Accuracy: Located by supplier to within 100m</p>	A8NW (S)	625	1	386830 399080
6	<p><b>Discharge Consents</b></p> <p>Operator: United Utilities Water Plc  Property Type: Sewage Disposal Works - Water Company  Location: Mill St @ -Park Inn-, Manchester, Greater Manchester  Authority: Environment Agency, North West Region  Catchment Area: Not Given  Reference: 01man0100  Permit Version: 1  Effective Date: 1st January 1995  Issued Date: Not Supplied  Revocation Date: 18th July 1995  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Medlock  <b>Status: Authorisation revokedRevoked</b>  Positional Accuracy: Located by supplier to within 100m</p>	A8NW (S)	626	1	386850 399070
7	<p><b>Discharge Consents</b></p> <p>Operator: United Utilities Water Plc  Property Type: Sewage Disposal Works - Water Company  Location: Bradford Rd Gas Works Opposite Elm Street, Bradford, Manchester, Greater Manchester  Authority: Environment Agency, North West Region  Catchment Area: Not Given  Reference: 016982626  Permit Version: 1  Effective Date: 30th September 1994  Issued Date: Not Supplied  Revocation Date: 2nd October 1998  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Medlock  <b>Status: Consent revoked: Discharge ceased (Water Resources Act 1991, Schedule 10 &amp; 6)</b>  Positional Accuracy: Manually corrected supplier location</p>	A8SW (S)	852	1	386670 398900



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<p><b>Discharge Consents</b></p> <p>Operator: United Utilities Water Plc  Property Type: Sewage Disposal Works - Water Company  Location: Bradford Rd Gas Works Opposite Elm Street, Bradford, Manchester, Greater Manchester  Authority: Environment Agency, North West Region  Catchment Area: Not Given  Reference: 01MAN0299  Permit Version: 1  Effective Date: 1st January 1995  Issued Date: Not Supplied  Revocation Date: 30th September 1994  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Medlock  <b>Status: Revoked (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	852	1	386670 398900
8	<p><b>Discharge Consents</b></p> <p>Operator: United Utilities Water Plc  Property Type: Sewerage Network - Sewers - Water Company  Location: Work 6/Work 5 Sewer Const, Manchester, Greater Manchester  Authority: Environment Agency, North West Region  Catchment Area: Not Given  Reference: 01MAN0321  Permit Version: 1  Effective Date: 1st January 1995  Issued Date: Not Supplied  Revocation Date: Not Supplied  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: River Irk  <b>Status: Post National Rivers Authority Legislation where issue date &gt; 31/08/1989</b>  Positional Accuracy: Located by supplier to within 100m</p>	A11NE (W)	882	1	385910 399890
9	<p><b>Integrated Pollution Controls</b></p> <p>Name: Degussa Ltd  Location: Manox House, Coleshill Street, Manchester, Greater Manchester, M40 7aa  Authority: Environment Agency, North West Region  Permit Reference: BC9682  Dated: 24th November 1998  Process Type: IPC minor (non-substantial) variation to previous variation  Description: 4.5 A (A) Inorganic Chemical processes within the Chemical Industry  <b>Status: Authorisation revokedRevoked</b>  Positional Accuracy: Manually positioned to the address or location</p>	A7NW (SW)	737	1	386176 399365
9	<p><b>Integrated Pollution Controls</b></p> <p>Name: Degussa Ltd  Location: Manox House, Coleshill Street, Manchester, Greater Manchester, M40 7aa  Authority: Environment Agency, North West Region  Permit Reference: AO1292  Dated: 31st January 1995  Process Type: IPC new application  Description: 4.5 A (A) Inorganic Chemical processes within the Chemical Industry  <b>Status: Authorisation superseded by a substantial or non substantial variationSuperseded</b>  Positional Accuracy: Manually positioned to the address or location</p>	A7NW (SW)	737	1	386176 399365
10	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Princes Ltd  Location: Princes Soft Drinks Division (Uk), Lord North Street, Newton Heath,, Manchester, M40 2HJ  Authority: Environment Agency, North West Region  Permit Reference: Tp3832pn  Original Permit Ref: Tp3832pn  Effective Date: 13th October 2005  <b>Status: Superseded By Variation</b>  Application Type: Application  App. Sub Type: New  Positional Accuracy: Automatically positioned to the address  Activity Code: 6.8 A(1) (D) (II)  Activity Description: Animal, Vegetable &amp; Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day  Primary Activity: Y</p>	A13NW (W)	124	1	386668 399739



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Princes Ltd            Location: Princes Soft Drinks, Lord North Street, Newton Heath,, Manchester, M40 2HJ            Authority: Environment Agency, North West Region            Permit Reference: CP3138CX            Original Permit Ref: Tp3832pn            Effective Date: 11th July 2012  <b>Status: Effective</b>            Application Type: Variation            App. Sub Type: Standard            Positional Accuracy: Automatically positioned to the address            Activity Code: 6.8 A(1) (D) (II)            Activity Description: Animal, Vegetable &amp; Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day            Primary Activity: Y</p>	A12SE (W)	137	1	386660 399724
12	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Trafford Rubber Products            Location: North Manchester Sites, 55 Clifton Street, Miles Platting, Manchester, Greater Manchester, M10 8hf            Authority: Manchester City Council, Environmental Health Department            Permit Reference: PPC/63/93            Dated: 12th September 1994            Process Type: Local Authority Air Pollution Control            Description: PG6/28 Rubber processes  <b>Status: Authorisation revokedRevoked</b>            Positional Accuracy: Located by supplier to within 10m</p>	A13SW (SW)	178	2	386737 399605
13	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Drummer Boy Trading Company            Location: Bower Street, Newton Heath, Manchester, M12 6BL            Authority: Manchester City Council, Environmental Health Department            Permit Reference: PPC/96/97            Dated: 17th October 1997            Process Type: Local Authority Air Pollution Control            Description: PG6/15 Coating in drum manufacturing and reconditioning processes  <b>Status: Authorisation revokedRevoked</b>            Positional Accuracy: Located by supplier to within 10m</p>	A13NW (N)	208	2	386887 400025
14	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Mathers Foundry Ltd            Location: Park Works, Ten Acres Lane/Briscoe Lane, Newton Heath, M40 2BA            Authority: Manchester City Council, Environmental Health Department            Permit Reference: PPC/B/26/05/AW            Dated: 15th December 1997            Process Type: Local Authority Pollution Prevention and Control            Description: PG2/4 Iron, steel and non-ferrous metal foundry processes  <b>Status: Permitted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13NW (N)	265	2	386996 400044
14	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Mathers Foundry Ltd            Location: Park Works, Ten Acres Lane/Briscoe Lane, Newton Heath, M10 6ba            Authority: Manchester City Council, Environmental Health Department            Permit Reference: PPC/B/26/05/AW            Dated: 15th December 1997            Process Type: Local Authority Pollution Prevention and Control            Description: PG2/3 Electrical and rotary furnaces  <b>Status: Permitted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13NW (N)	265	2	386996 400044
15	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Northern Butchers Hide Markets Ltd            Location: 228 Briscoe Lane, Newton Heath, MANCHESTER, Lancashire, M40 2XG            Authority: Manchester City Council, Environmental Health Department            Permit Reference: PPC/52/93            Dated: 1st March 1995            Process Type: Local Authority Air Pollution Control            Description: PG6/21 Hide and skin processes  <b>Status: Authorisation revokedRevoked</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13SW (SW)	267	2	386831 399468
16	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Weir Pumps            Location: Park Works, Newton Heath, MANCHESTER, Lancashire, M40 2BA            Authority: Manchester City Council, Environmental Health Department            Permit Reference: 37/93            Dated: 10th February 1993            Process Type: Local Authority Air Pollution Control            Description: PG2/3 Electrical and rotary furnaces  <b>Status: Authorised</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13NE (N)	305	2	387069 400057



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Grm Insulation Solutions            Location: Block 1, Riverpark Road, Eastlands, Manchester, M40 2xp            Authority: Manchester City Council, Environmental Health Department            Permit Reference: Not Supplied            Dated: Not Supplied            Process Type: Local Authority Pollution Prevention and Control            Description: PG6/32 Adhesive coating  <b>Status: Permitted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A14SW (SE)	328	2	387491 399459
18	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Weir Pumps            Location: Park Works, Newton Heath, Manchester, Lancashire, M40 2ba            Authority: Manchester City Council, Environmental Health Department            Permit Reference: 37/93            Dated: 10th February 1993            Process Type: Local Authority Pollution Prevention and Control            Description: PG2/4 Iron, steel and non-ferrous metal foundry processes  <b>Status: Permitted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A18SE (N)	351	2	387122 400084
19	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Hanson Aggregates            Location: Norton Street, Miles Platting, MANCHESTER, Lancashire, M40 8HD            Authority: Manchester City Council, Environmental Health Department            Permit Reference: PPC/B/04/05/AW            Dated: 5th August 1992            Process Type: Local Authority Air Pollution Control            Description: PG3/1 Blending, packing, loading and use of bulk cement  <b>Status: Authorised</b>            Positional Accuracy: Manually positioned to the address or location</p>	A12NE (W)	368	2	386419 399814
20	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: North Manchester Commercials            Location: Briscoe Lane, Newton Heath, MANCHESTER, Lancashire, M40 2NL            Authority: Manchester City Council, Environmental Health Department            Permit Reference: PPC/78/95/03            Dated: 1st November 1995            Process Type: Local Authority Air Pollution Control            Description: PG6/34 Respraying of road vehicles  <b>Status: Authorisation revokedRevoked</b>            Positional Accuracy: Manually positioned to the address or location</p>	A8NW (SW)	379	2	386776 399369
21	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Tcs - Monsall            Location: 571 Oldham Road, Newton Heath, MANCHESTER, Lancashire, M40 5AF            Authority: Manchester City Council, Environmental Health Department            Permit Reference: PPC/PFS/RM/023/06            Dated: 22nd December 1998            Process Type: Local Authority Air Pollution Control            Description: PG1/14 Petrol filling station  <b>Status: Authorised</b>            Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	467	2	386495 400145
22	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Manchester Cabins Ltd            Location: Harden Works, Oldham Road, MANCHESTER, Lancashire, M40 8AG            Authority: Manchester City Council, Environmental Health Department            Permit Reference: 64/93            Dated: 14th January 1994            Process Type: Local Authority Air Pollution Control            Description: PG6/29 Di-isocyanate processes  <b>Status: Authorisation revokedRevoked</b>            Positional Accuracy: Located by supplier to within 10m</p>	A18SW (N)	481	2	386819 400302
23	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Sapphire Garage Ltd            Location: Unit 1-3 Quantum Trading Park, Monsall Road, Manchester, M40 8fx            Authority: Manchester City Council, Environmental Health Department            Permit Reference: PPC/B/01/10/RM            Dated: 8th March 2010            Process Type: Local Authority Pollution Prevention and Control            Description: PG6/34 Respraying of road vehicles  <b>Status: Permitted</b>            Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	497	2	386641 400277



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Olympia Furniture Ltd            Location: Holt Street, Off Oldham Road, Newton Heath, Manchester, Lancashire, M10 9ax            Authority: Manchester City Council, Environmental Health Department            Permit Reference: PPC/67/94            Dated: 1st February 1995            Process Type: Local Authority Air Pollution Control            Description: PG6/32 Adhesive coating  <b>Status: Authorisation revokedRevoked</b>            Positional Accuracy: Located by supplier to within 10m</p>	A18SW (N)	537	2	386780 400355
25	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Duo Plastics Ltd            Location: Vickers Street, Manchester, Lancashire, M10 8fa            Authority: Manchester City Council, Environmental Health Department            Permit Reference: PPC/B/21/05/AW            Dated: 21st June 1993            Process Type: Local Authority Air Pollution Control            Description: PG6/17 Printing of flexible packaging  <b>Status: Authorised</b>            Positional Accuracy: Located by supplier to within 10m</p>	A12SW (W)	657	2	386171 399545
26	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Pst Concrete Fence Ltd            Location: Bank Street, Clayton, Manchester, Greater Manchester, M11 4by            Authority: Manchester City Council, Environmental Health Department            Permit Reference: PPC/101/00            Dated: 1st December 1995            Process Type: Local Authority Air Pollution Control            Description: PG3/10 China and ball clay  <b>Status: Authorisation revokedRevoked</b>            Positional Accuracy: Located by supplier to within 10m</p>	A9SW (SE)	941	2	387499 398736
27	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Asda Eastlands            Location: Ashton New Road, Bradford, Manchester, Lancashire, M11 4bd            Authority: Manchester City Council, Environmental Health Department            Permit Reference: PPC/PFS/RM/004/06            Dated: 14th June 2002            Process Type: Local Authority Air Pollution Control            Description: PG1/14 Petrol filling station  <b>Status: Authorised</b>            Positional Accuracy: Located by supplier to within 10m</p>	A3NW (S)	951	2	386914 398707
28	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Briscoe Lane Service Station            Location: 86-90 Briscoe Lane, Newton Heath, MANCHESTER, M40 2TH            Authority: Manchester City Council, Environmental Health Department            Permit Reference: PPC/PFS/RM/049/06            Dated: 28th December 2001            Process Type: Local Authority Air Pollution Control            Description: PG1/14 Petrol filling station  <b>Status: Authorised</b>            Positional Accuracy: Manually positioned to the address or location</p>	A20SW (NE)	982	2	388016 400228
29	<p><b>Local Authority Pollution Prevention and Control Enforcements</b></p> <p>Location: Vickers Street, Manchester, Lancashire, M40 8pu            Type: Air Pollution Control Enforcement Notice            Reference: 42/93            Date Issued: 24th December 1996            Enforcement Date: Not Supplied            Details: Empty Containers Often Stored Without Lids            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SW (W)	660	2	386179 399519
	<b>Nearest Surface Water Feature</b>	A13NW (NW)	94	-	386778 399894
30	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Agriculture: Manure Compound            Location: M C R Abatoir, Riverpark Road            Authority: Environment Agency, North West Region            Pollutant: General Biodegradable : Solid Manure            Note: Not Supplied            Incident Date: 6th January 1999            Incident Reference: 362            Catchment Area: Not Given            Receiving Water: Not Given            Cause of Incident: Not Given            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A13SE (SE)	227	1	387200 399400



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Manufacturing: Metal Fabrication            Location: Nall St, Levenshulme, MANCHESTER, Greater Manchester            Authority: Environment Agency, North West Region            Pollutant: Organic Chemicals : Oils: Mixed / Unidentified / Waste            Note: Not Supplied            Incident Date: 10th May 1999            Incident Reference: 28748            Catchment Area: River Mersey (Etherow)            Receiving Water: River Stretch (Freshwater)            Cause of Incident: Un-Consented Works            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 10m</p>	A9NE (SE)	591	1	387700 399300
32	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Given            Location: Greater Manchester            Authority: Environment Agency, North West Region            Pollutant: Miscellaneous - Fire water / Foam            Note: None Pollution Found            Incident Date: 17th April 1996            Incident Reference: 96610796            Catchment Area: Medlock            Receiving Water: Not Given            Cause of Incident: Fire            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A8NW (SW)	656	1	386700 399100
33	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Given            Location: Greater Manchester            Authority: Environment Agency, North West Region            Pollutant: Unknown            Note: None Affected; None Pollution Found            Incident Date: 20th September 1996            Incident Reference: 96612071            Catchment Area: Irk            Receiving Water: Not Given            Cause of Incident: Other Incident/Unknown            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A12NW (W)	815	1	386001 400001
34	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Given            Location: Greater Manchester            Authority: Environment Agency, North West Region            Pollutant: Unknown            Note: Rochdale Canal; None Pollution Found            Incident Date: 23rd May 1995            Incident Reference: 95611216            Catchment Area: Rochdale Canal            Receiving Water: Not Given            Cause of Incident: Not Given            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A18NE (N)	856	1	387200 400600
35	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Private Sewage (Non-PLC): Sewerage Systems            Location: Location Description Not Available            Authority: Environment Agency, North West Region            Pollutant: Crude Sewage            Note: River Medlock            Incident Date: 1st September 1995            Incident Reference: 95632224            Catchment Area: Medlock            Receiving Water: Not Given            Cause of Incident: Blocked Sewer            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A15SW (E)	913	1	388100 399400
36	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Pollution Found Source Not Determined            Location: Location Description Not Available            Authority: Environment Agency, North West Region            Pollutant: Miscellaneous - Unknown            Note: Not Supplied            Incident Date: 21st April 1993            Incident Reference: 93630820            Catchment Area: Rochdale Canal            Receiving Water: Not Given            Cause of Incident: Unknown            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A19NE (NE)	970	1	387700 400500



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>River Quality</b> Name: Rochdale Canal GQA Grade: River Quality B Reach: Qsl At Summit To Empress Processing Estimated Distance (km): 27.6 Flow Rate: Flow greater than 80 cumecs Flow Type: Canal Year: 2000	A13NW (NW)	46	1	386854 399897
	<b>River Quality</b> Name: Medlock GQA Grade: River Quality E Reach: Lords Bk To Irwell Estimated Distance (km): 9.5 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A9NW (SE)	473	1	387359 399183
	<b>River Quality</b> Name: Ashton Canal GQA Grade: River Quality C Reach: Robertsons To Rochdale Canal Estimated Distance (km): 6.4 Flow Rate: Flow greater than 80 cumecs Flow Type: Canal Year: 2000	A8SE (S)	872	1	387067 398759



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	<p><b>River Quality Chemistry Sampling Points</b></p> <p>Name: Rochdale Canal            Reach: Empress Processing To Ashton Canal            Estimated Distance: 0.30            Objective: Not Supplied            Positional Accuracy: Located by supplier to within 10m            Year: 1990            GQA Grade: Not Supplied            Compliance: Not Supplied            Year: 1993            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 1994            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 1995            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 1996            GQA Grade: River Quality Chemistry GQA Grade B - Good            Compliance: Not Supplied            Year: 1997            GQA Grade: River Quality Chemistry GQA Grade B - Good            Compliance: Not Supplied            Year: 1998            GQA Grade: River Quality Chemistry GQA Grade B - Good            Compliance: Not Supplied            Year: 1999            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 2000            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 2001            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 2002            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 2003            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 2004            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 2005            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 2006            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 2007            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 2008            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 2009            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied</p>	A12SE (W)	490	1	386363 399530



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	<p><b>River Quality Chemistry Sampling Points</b></p> <p>Name: Rochdale Canal            Reach: Qsl At Summit To Empress Processing            Estimated Distance: 27.60            Objective: Not Supplied            Positional Accuracy: Located by supplier to within 10m            Year: 1990            GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good            Compliance: Not Supplied            Year: 1993            GQA Grade: River Quality Chemistry GQA Grade B - Good            Compliance: Not Supplied            Year: 1994            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 1995            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 1996            GQA Grade: River Quality Chemistry GQA Grade B - Good            Compliance: Not Supplied            Year: 1997            GQA Grade: River Quality Chemistry GQA Grade B - Good            Compliance: Not Supplied            Year: 1998            GQA Grade: River Quality Chemistry GQA Grade B - Good            Compliance: Not Supplied            Year: 1999            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 2000            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 2001            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 2002            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 2003            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 2004            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 2005            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 2006            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 2007            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 2008            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied            Year: 2009            GQA Grade: River Quality Chemistry GQA Grade A - Very Good            Compliance: Not Supplied</p>	A12SE (W)	490	1	386363 399530
38	<p><b>Substantiated Pollution Incident Register</b></p> <p>Authority: Environment Agency - North West Region, South Area            Incident Date: 14th May 2004            Incident Reference: 237969            Water Impact: Category 4 - No Impact            Air Impact: Category 3 - Minor Incident            Land Impact: Category 2 - Significant Incident            Positional Accuracy: Located by supplier to within 10m            Pollutant: Organic Chemicals : Other Organic Wastes</p>	A12NE (NW)	336	1	386517 399982
39	<p><b>Substantiated Pollution Incident Register</b></p> <p>Authority: Environment Agency - North West Region, South Area            Incident Date: 25th December 2003            Incident Reference: 208157            Water Impact: Category 3 - Minor Incident            Air Impact: Category 2 - Significant Incident            Land Impact: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 10m            Pollutant: Atmospheric Pollutants And Effects: Smoke            Pollutant: Contaminated Water: Firefighting Run-Off</p>	A14SW (SE)	437	1	387592 399415



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	<p><b>Substantiated Pollution Incident Register</b></p> <p>Authority: Environment Agency - North West Region, South Area            Incident Date: 19th March 2005            Incident Reference: 299985            Water Impact: Category 2 - Significant Incident            Air Impact: Category 4 - No Impact            Land Impact: Category 4 - No Impact            Positional Accuracy: Located by supplier to within 10m            Pollutant: Crude Sewage</p>	A9NW (SE)	506	1	387500 399223
41	<p><b>Water Abstractions</b></p> <p>Operator: Cochrane &amp; Gibbs Ltd            Licence Number: 2569006022            Permit Version: Not Supplied            Location: Rochdale Canal, Bower Street, Newton Heath, MANCHESTER            Authority: Environment Agency, North West Region            Abstraction: Boiler Feed &amp; Manufacturing            Abstraction Type: Not Supplied            Source: Canal            Daily Rate (m3): 773            Yearly Rate (m3): 168202            Details: Additional Purpose: Boiler feed; Licence Status: Revoked            Authorised Start: Not Supplied            Authorised End: Not Supplied            Permit Start Date: Not Supplied            Permit End Date: Not Supplied            Positional Accuracy: Located by supplier to within 100m</p>	A13NW (N)	189	1	386901 400001
42	<p><b>Water Abstractions</b></p> <p>Operator: Hanson Quarry Products Europe Limited            Licence Number: 2569005061            Permit Version: 3            Location: Borehole At Norton Street, Miles Platting, Manchester            Authority: Environment Agency, North West Region            Abstraction: Construction: General Use (Medium Loss)            Abstraction Type: Water may be abstracted from a single point            Source: Groundwater            Daily Rate (m3): Not Supplied            Yearly Rate (m3): Not Supplied            Details: At Norton Street, Miles Platting            Authorised Start: 01 January            Authorised End: 31 December            Permit Start Date: 13th August 2012            Permit End Date: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A12NE (W)	236	1	386550 399790
42	<p><b>Water Abstractions</b></p> <p>Operator: Hanson Quarry Products Europe Ltd            Licence Number: 2569005061            Permit Version: 2            Location: Borehole At Norton Street, Miles Platting, Manchester            Authority: Environment Agency, North West Region            Abstraction: Construction: General Use (Medium Loss)            Abstraction Type: Water may be abstracted from a single point            Source: Groundwater            Daily Rate (m3): Not Supplied            Yearly Rate (m3): Not Supplied            Details: At Norton Street, Miles Platting            Authorised Start: 01 January            Authorised End: 31 December            Permit Start Date: 1st July 2000            Permit End Date: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A12NE (W)	236	1	386550 399790
43	<p><b>Water Abstractions</b></p> <p>Operator: V H E Construction Limited            Licence Number: 2569006040            Permit Version: Not Supplied            Location: The River, Medlock, MANCHESTER            Authority: Environment Agency, North West Region            Abstraction: Dust Suppression            Abstraction Type: Not Supplied            Source: Surface            Daily Rate (m3): 20            Yearly Rate (m3): 2000            Details: Licence Status: Lapsed            Authorised Start: Not Supplied            Authorised End: Not Supplied            Permit Start Date: Not Supplied            Permit End Date: Not Supplied            Positional Accuracy: Located by supplier to within 100m</p>	A8NW (S)	617	1	386800 399100



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	<p><b>Water Abstractions</b></p> <p>Operator: British Waterways Board  Licence Number: 2569006030  Permit Version: Not Supplied  Location: Location Description Not Available  Authority: Environment Agency, North West Region  Abstraction: Not Supplied  Abstraction Type: Not Supplied  Source: Canal  Daily Rate (m3): 0  Yearly Rate (m3): 0  Details: Ashton Canal  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	865	1	386900 398800
44	<p><b>Water Abstractions</b></p> <p>Operator: British Waterways Board  Licence Number: 2569006992  Permit Version: Not Supplied  Location: Ashton Canal, MANCHESTER  Authority: Environment Agency, North West Region  Abstraction: Drinking; Cooking; Sanitary; Washing For Industrial Premises  Abstraction Type: Not Supplied  Source: Canal  Daily Rate (m3): 0  Yearly Rate (m3): 1136500  Details: Licence Status: Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	870	1	386900 398795
45	<p><b>Water Abstractions</b></p> <p>Operator: Watney Mann (North) Ltd  Licence Number: 2569005004  Permit Version: Not Supplied  Location: Two Boreholes, NEWTON HEATH  Authority: Environment Agency, North West Region  Abstraction: Cooling &amp; Manufacturing  Abstraction Type: Not Supplied  Source: Groundwater  Daily Rate (m3): 1364  Yearly Rate (m3): 478435  Details: Additional Purpose: Cooling; Licence Status: Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A23SW (N)	980	1	386900 400800
	<p><b>Water Abstractions</b></p> <p>Operator: British Waterways Board  Licence Number: 2569006030  Permit Version: Not Supplied  Location: Manchester, MANCHESTER  Authority: Environment Agency, North West Region  Abstraction: Not Supplied  Abstraction Type: Not Supplied  Source: Canal  Daily Rate (m3): 0  Yearly Rate (m3): 0  Details: Ashton Canal  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A4NW (SE)	1292	1	387600 398400



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: British Waterways  Licence Number: 2569006996  Permit Version: 100  Location: Ashton Canal, Manchester [Vitacom]  Authority: Environment Agency, North West Region  Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss)</p> <p>Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): 0  Yearly Rate (m3): 227300  Details: (British Vita Ltd)  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st April 1969  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A4NW (SE)	1297	1	387600 398395
	<p><b>Water Abstractions</b></p> <p>Operator: British Waterways Board  Licence Number: 2569006030  Permit Version: Not Supplied  Location: Manchester, MANCHESTER  Authority: Environment Agency, North West Region  Abstraction: Not Supplied  Abstraction Type: Not Supplied  Source: Canal  Daily Rate (m3): 0  Yearly Rate (m3): 0  Details: Ashton Canal  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A6SE (SW)	1320	1	385900 398800
	<p><b>Water Abstractions</b></p> <p>Operator: British Waterways  Licence Number: 2569006990  Permit Version: 100  Location: Ashton Canal, Manchester [Distillers, Ancoats]  Authority: Environment Agency, North West Region  Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss)</p> <p>Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): 0  Yearly Rate (m3): 750090  Details: (Lancashire Tar Distillers)  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st April 1969  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A6SE (SW)	1324	1	385900 398795
	<p><b>Water Abstractions</b></p> <p>Operator: British Waterways Board  Licence Number: 2569006030  Permit Version: Not Supplied  Location: Manchester, MANCHESTER  Authority: Environment Agency, North West Region  Abstraction: Not Supplied  Abstraction Type: Not Supplied  Source: Canal  Daily Rate (m3): 0  Yearly Rate (m3): 0  Details: Ashton Canal  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A4NE (SE)	1368	1	387800 398400



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: Canal And River Trust  Licence Number: 2569006997  Permit Version: 100  Location: Ashton Canal Manchester Clayton Analine  Authority: Environment Agency, North West Region  Abstraction: Other Industrial/Commercial/Public Services: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): 0  Yearly Rate (m3): 3500420  Details: Land At Ciba  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st April 1969  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A4NE (SE)	1372	1	387800 398395
	<p><b>Water Abstractions</b></p> <p>Operator: Air Products (Chemicals) Plc  Licence Number: 2569006037  Permit Version: 101  Location: Borehole 1 On Premises At Croft Street, Clayton, Manchester  Authority: Environment Agency, North West Region  Abstraction: Chemicals: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Premises At Croft Street, Clayton, Manchester  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 10th September 2007  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A4NE (SE)	1414	1	387860 398379
	<p><b>Water Abstractions</b></p> <p>Operator: Air Products Chemicals Ltd  Licence Number: 2569006037  Permit Version: 100  Location: Boreholes X 2 On Premises At Croft Street Clayton Manchester  Authority: Environment Agency, North West Region  Abstraction: Chemicals: General Cooling (Existing Licences Only) (Low Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): 655  Yearly Rate (m3): 111832  Details: Premises Croft St, Clayton, M/Cr  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st July 1996  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A4NE (SE)	1415	1	387900 398400
	<p><b>Water Abstractions</b></p> <p>Operator: Air Products (Chemicals) Plc  Licence Number: 2569006037  Permit Version: 101  Location: Borehole 2 On Premises At Croft Street, Clayton, Manchester  Authority: Environment Agency, North West Region  Abstraction: Chemicals: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Premises At Croft Street, Clayton, Manchester  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 10th September 2007  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A4NE (SE)	1417	1	387859 398375



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: Victor Wolf Ltd  Licence Number: 2569007020  Permit Version: Not Supplied  Location: Two Boreholes, Croft Street, Clayton, MANCHESTER  Authority: Environment Agency, North West Region  Abstraction: Cooling  Abstraction Type: Not Supplied  Source: Groundwater  Daily Rate (m3): 2182  Yearly Rate (m3): 372772  Details: Licence Status: Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A4NE (SE)	1419	1	387900 398395
	<p><b>Water Abstractions</b></p> <p>Operator: Air Products (Chemicals) Plc  Licence Number: 2569006036  Permit Version: 101  Location: Borehole On Premises At Clayton, Manchester  Authority: Environment Agency, North West Region  Abstraction: Chemicals: Non-Evaporative Cooling  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Premises At Clayton, Manchester  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 10th September 2007  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A5SW (SE)	1585	1	388027 398277
	<p><b>Water Abstractions</b></p> <p>Operator: British Waterways Board  Licence Number: 2569006030  Permit Version: Not Supplied  Location: Manchester, MANCHESTER  Authority: Environment Agency, North West Region  Abstraction: Not Supplied  Abstraction Type: Not Supplied  Source: Canal  Daily Rate (m3): 0  Yearly Rate (m3): 0  Details: Ashton Canal  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A5SW (SE)	1606	1	388100 398300
	<p><b>Water Abstractions</b></p> <p>Operator: Ciba Specialty Chemicals Plc  Licence Number: 2569006026  Permit Version: 101  Location: Borehole At Premises, Clayton, Manchester  Authority: Environment Agency, North West Region  Abstraction: Chemicals: General Cooling (Existing Licences Only) (Low Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): 2837  Yearly Rate (m3): 633949  Details: Premises At Clayton Manchester  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th July 2000  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A4SE (SE)	1608	1	387700 398100



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: Ciba Specialty Chemicals Plc  Licence Number: 2569006026  Permit Version: 101  Location: Borehole At Premises, Clayton, Manchester  Authority: Environment Agency, North West Region  Abstraction: Chemicals: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Premises At Clayton Manchester  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 25th July 2000  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A4SE (SE)	1608	1	387700 398100
	<p><b>Water Abstractions</b></p> <p>Operator: Canal And River Trust  Licence Number: 2569006995  Permit Version: 100  Location: Ashton Canal, Manchester  Authority: Environment Agency, North West Region  Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): 0  Yearly Rate (m3): 68190  Details: Land At Air Products  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st April 1969  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A5SW (SE)	1610	1	388100 398295
	<p><b>Water Abstractions</b></p> <p>Operator: Air Products Chemicals Ltd  Licence Number: 2569006036  Permit Version: 100  Location: Borehole On Premises At Clayton Manchester  Authority: Environment Agency, North West Region  Abstraction: Chemicals: General Cooling (Existing Licences Only) (Low Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): 3600  Yearly Rate (m3): 372772  Details: Premises At Clayton, Manchester  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st July 1996  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	A4SE (SE)	1638	1	388000 398200
	<p><b>Water Abstractions</b></p> <p>Operator: Air Products Chemicals Ltd  Licence Number: 2569006036  Permit Version: 100  Location: Borehole On Premises At Clayton Manchester  Authority: Environment Agency, North West Region  Abstraction: Chemicals: Process Water  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Premises At Clayton, Manchester  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st July 1996  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A4SE (SE)	1638	1	388000 398200



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: Manchester City Football Club Limited  Licence Number: Nw/069/0006/005  Permit Version: 1  Location: Borehole At Openshaw, West Ashton  Authority: Environment Agency, North West Region  Abstraction: Sports Grounds/Facilities: Horticultural Watering  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 14th November 2012  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	(S)	1667	1	387681 398032
	<p><b>Water Abstractions</b></p> <p>Operator: Manchester City Football Club Limited  Licence Number: Nw/069/0006/005  Permit Version: 1  Location: Borehole At Openshaw, West Ashton  Authority: Environment Agency, North West Region  Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 14th November 2012  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	(S)	1667	1	387681 398032
	<p><b>Water Abstractions</b></p> <p>Operator: Manchester City Football Club Limited  Licence Number: Nw/069/0006/005  Permit Version: 1  Location: Borehole At Openshaw, West Ashton  Authority: Environment Agency, North West Region  Abstraction: Private Water Undertaking: General Use (Medium Loss)  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Not Supplied  Authorised Start: 01 April  Authorised End: 31 March  Permit Start Date: 14th November 2012  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	(S)	1667	1	387681 398032
	<p><b>Water Abstractions</b></p> <p>Operator: City Of Manchester  Licence Number: 2569005038  Permit Version: Not Supplied  Location: River Irk, Collyhurst, MANCHESTER  Authority: Environment Agency, North West Region  Abstraction: Manufacturing  Abstraction Type: Not Supplied  Source: Surface  Daily Rate (m3): 546  Yearly Rate (m3): 93557  Details: Licence Status: Revoked  Authorised Start: Not Supplied  Authorised End: Not Supplied  Permit Start Date: Not Supplied  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	(NW)	1697	1	385300 400600



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: Packaging Products Ltd  Licence Number: 2569005015  Permit Version: 100  Location: B/Hole, Little Green Works, Collyhurst Rd, Manchester 10  Authority: Environment Agency, North West Region  Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss)</p> <p>Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): 1637  Yearly Rate (m3): 438689  Details: Premises At Little Green Works  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 21st February 1995  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	(W)	1813	1	385001 400101
	<p><b>Water Abstractions</b></p> <p>Operator: Packaging Products (Coatings) Ltd  Licence Number: 2569005015  Permit Version: 102  Location: B/Hole, Little Green Works, Collyhurst Rd, Manchester 10  Authority: Environment Agency, North West Region  Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss)</p> <p>Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Premises At Little Green Works  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 9th February 2011  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	(W)	1814	1	385000 400100
	<p><b>Water Abstractions</b></p> <p>Operator: Packaging Products Ltd  Licence Number: 2569005015  Permit Version: 101  Location: B/Hole, Little Green Works, Collyhurst Rd, Manchester 10  Authority: Environment Agency, North West Region  Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss)</p> <p>Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Premises At Little Green Works  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 28th October 2004  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	(W)	1814	1	385000 400100
	<p><b>Water Abstractions</b></p> <p>Operator: Manchester Abattoir  Licence Number: 2569006021  Permit Version: 100  Location: Borehole At Clayton Mill Bridge, Manchester  Authority: Environment Agency, North West Region  Abstraction: Slaughtering: General Use (Medium Loss)</p> <p>Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): 909  Yearly Rate (m3): 250030  Details: Land At Phillips Park, Manchester  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 22nd May 1998  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 100m</p>	(E)	1884	1	389100 399500



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: City Of Manchester Licence Number: 2569005031 Permit Version: Not Supplied Location: Borehole, Collyhurst, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Manufacturing Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 364 Yearly Rate (m3): 124742 Details: Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(NW)	1886	1	385200 400800
	<b>Water Abstractions</b> Operator: Manchester City Council Licence Number: 2569006006 Permit Version: Not Supplied Location: Borehole, Openshaw, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Manufacturing Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 2273 Yearly Rate (m3): 2273 Details: Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1924	1	387800 397800
	<b>Groundwater Vulnerability</b> Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 17 Derbyshire & North Staffordshire Scale: 1:100,000	A13NE (NE)	0	1	387121 399800
	<b>Groundwater Vulnerability</b> Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 17 Derbyshire & North Staffordshire Scale: 1:100,000	A13SE (W)	0	1	387004 399719
	<b>Drift Deposits</b> Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 17 Derbyshire & North Staffordshire Scale: 1:100,000	A13SE (W)	0	1	387004 399719
	<b>Bedrock Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	A13SE (W)	0	3	387004 399719
	<b>Bedrock Aquifer Designations</b> Aquifer Designation: Principal Aquifer	A13NE (NE)	0	3	387130 399795
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Unproductive Strata	A13SE (W)	0	3	387004 399719
	<b>Extreme Flooding from Rivers or Sea without Defences</b> None				
	<b>Flooding from Rivers or Sea without Defences</b> None				
	<b>Areas Benefiting from Flood Defences</b> None				
	<b>Flood Water Storage Areas</b> None				
	<b>Flood Defences</b> None				



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	<p><b>BGS Recorded Landfill Sites</b></p> <p>Site Name: Clayton Vale            Location: Clayton, MANCHESTER, Gt Manchester, M11            Authority: British Geological Survey, National Geoscience Information Service            Ground Water: Information not available            Surface Water: Information not available            Geology: N/A            Positional Accuracy: Positioned by the supplier            Boundary Accuracy: Moderate</p>	A14SW (E)	471	3	387676 399525
47	<p><b>Historical Landfill Sites</b></p> <p>Licence Holder: Messrs H Evers            Location: Mitchell Street, Newton Heath, Manchester, Greater Manchester            Name: Land adjacent to Mitchell Street            Operator Location: Not Supplied            Boundary Accuracy: As Supplied            Provider Reference: EAHLD16455            First Input Date: 1st May 1973            Last Input Date: 31st December 1984            Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial and Household Waste            EA Waste Ref: Not Supplied            Regis Ref: Not Supplied            WRC Ref: 4200/9171            BGS Ref: Not Supplied            Other Ref: F008, RD/LIC/013/76</p>	A14NW (NE)	444	1	387467 400041
48	<p><b>Historical Landfill Sites</b></p> <p>Licence Holder: Central Electricity Generating Board            Location: Bank Bridge Road, Manchester            Name: Clayton Vale Power Station            Operator Location: Not Supplied            Boundary Accuracy: As Supplied            Provider Reference: EAHLD16480            First Input Date: 31st December 1965            Last Input Date: 31st December 1968            Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste, and Liquid Sludge            EA Waste Ref: Not Supplied            Regis Ref: Not Supplied            WRC Ref: 4200/9729            BGS Ref: Not Supplied            Other Ref: RD/LIC/045/76,GDO F001</p>	A14SW (E)	457	1	387661 399522
49	<p><b>Historical Landfill Sites</b></p> <p>Licence Holder: Not Supplied            Location: Clayton, Manchester, Greater Manchester            Name: Clayton Vale            Operator Location: Stuart Street Power Station            Boundary Accuracy: As Supplied            Provider Reference: EAHLD32041            First Input Date: 31st December 1901            Last Input Date: Not Supplied            Specified Waste Type: Deposited Waste included Inert and Industrial Waste            EA Waste Ref: Not Supplied            Regis Ref: Not Supplied            WRC Ref: Not Supplied            BGS Ref: 2777            Other Ref: Not Supplied</p>	A14SW (E)	471	1	387676 399525
50	<p><b>Historical Landfill Sites</b></p> <p>Licence Holder: North West Gas            Location: Bradeley Hall Road, Haslington, Crewe, Cheshire            Name: Bradford Road Works            Operator Location: Not Supplied            Boundary Accuracy: As Supplied            Provider Reference: EAHLD16491            First Input Date: 7th December 1979            Last Input Date: 1st December 1983            Specified Waste Type: Deposited Waste included Inert, Industrial and Special Waste            EA Waste Ref: Not Supplied            Regis Ref: Not Supplied            WRC Ref: 4200/9286            BGS Ref: Not Supplied            Other Ref: RD/LIC/180/79, GDO F058, 0381</p>	A8NW (SW)	520	1	386754 399225



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	<p><b>Historical Landfill Sites</b></p> <p>Licence Holder: Central Electricity Generating Board            Location: Bank Bridge Road, Manchester            Name: Clayton Vale Power Station            Operator Location: Not Supplied            Boundary Accuracy: As Supplied            Provider Reference: EAHLD16476            First Input Date: 31st December 1901            Last Input Date: 31st December 1980            Specified Waste: Deposited Waste included Inert and Industrial Waste            Type:            EA Waste Ref: Not Supplied            Regis Ref: Not Supplied            WRC Ref: 4200/9178            BGS Ref: Not Supplied            Other Ref: GDO F001,RD/LIC/045/76</p>	A14SE (E)	522	1	387734 399550
52	<p><b>Historical Landfill Sites</b></p> <p>Licence Holder: Manchester City Council            Location: Northampton Road, Harpurhey, Manchester, Greater Manchester            Name: Moston Brook            Operator Location: Not Supplied            Boundary Accuracy: As Supplied            Provider Reference: EAHLD16424            First Input Date: 1st May 1974            Last Input Date: 1st December 1977            Specified Waste: Deposited Waste included Inert, Industrial, Commercial, Household and            Type: Special Waste, and Liquid Sludge            EA Waste Ref: Not Supplied            Regis Ref: Not Supplied            WRC Ref: 4200/9660            BGS Ref: Not Supplied            Other Ref: F006</p>	A18NW (N)	856	1	386732 400671
53	<p><b>Historical Landfill Sites</b></p> <p>Licence Holder: Not Supplied            Location: Greater Manchester            Name: New Viaduct Street            Operator Location: Not Supplied            Boundary Accuracy: As Supplied            Provider Reference: EAHLD16497            First Input Date: Not Supplied            Last Input Date: Not Supplied            Specified Waste: Not Supplied            Type:            EA Waste Ref: Not Supplied            Regis Ref: Not Supplied            WRC Ref: Not Supplied            BGS Ref: Not Supplied            Other Ref: F045</p>	A7SE (SW)	881	1	386423 398976
54	<p><b>Integrated Pollution Control Registered Waste Sites</b></p> <p>Name: Evans Universal Ltd            Location: The Abattoir, Riverpark Road, MANCHESTER, M10 2XP            Authority: Environment Agency, North West Region            Permit Reference: AW8467            Dated: 15th October 1996            Process Type: IPC new application            Description: 5.1 A (C) Incineration within the Waste Disposal Industry  <b>Status: Application has met the requirements for authorisation (but not yet authorised)Not Yet Authorised</b>            Positional Accuracy: Automatically positioned to the address</p>	A14SW (SE)	238	1	387365 399456
55	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 102576            Location: Yard 3, Arkady Ind Est, Brisco Lane, Newton Heath, Manchester, Gt Manchester, M40 2XG            Operator Name: Wright Waste Solutions Ltd            Operator Location: Not Supplied            Authority: Environment Agency - North West Region, South Area            Site Category: HCl Waste TS + treatment  <b>Licence Status: Modified</b>            Issued: 8th September 2011            Last Modified: 7th March 2013            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A13SE (S)	71	1	387038 399593



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 53559            Location: Navigation Trading Estate, Bower Street, Newton Heath, Manchester, M40 2AR            Operator Name: Recon Packaging Ltd            Operator Location: Not Supplied            Authority: Environment Agency - North West Region, South Area            Site Category: Material Recycling Treatment Facilities  <b>Licence Status: Issued</b>            Issued: 12th March 1997            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 100m</p>	A13NW (NW)	183	1	386800 400000
57	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 53488            Location: Land/premises At, Bower Street, Newton Heath, Manchester, M40 2AF            Operator Name: Manchester Drums Ltd            Operator Location: Not Supplied            Authority: Environment Agency - North West Region, South Area            Site Category: Material Recycling Treatment Facilities  <b>Licence Status: Modified</b>            Issued: 12th August 1998            Last Modified: 1st November 2001            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A18SW (N)	279	1	386884 400098
58	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 53767            Location: Land At The Junction Of, Cheetham Street &amp; Goodier Street, Oldham Road, Manchester, M40 2BP            Operator Name: European Metal Recycling Ltd            Operator Location: Not Supplied            Authority: Environment Agency - North West Region, South Area            Site Category: Metal Recycling Sites (Mixed)  <b>Licence Status: Transferred</b>            Issued: 12th October 1993            Last Modified: 4th January 2005            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A12NE (NW)	379	1	386465 399982
58	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 50355            Location: Land/premises At, Irlam Street, Off Irlam Road, Manchester, M40 2BP            Operator Name: European Metal Recycling Ltd            Operator Location: Not Supplied            Authority: Environment Agency - North West Region, South Area            Site Category: Metal Recycling Sites (Mixed)  <b>Licence Status: Modified</b>            Issued: 4th January 2005            Last Modified: 11th December 2009            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A12NE (NW)	402	1	386446 399995



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 53518            Location: Old Leaches Yard, Beckford Street, Miles Platting, Manchester, M40 5AE            Operator Name: Anthony &amp; Darren James Benson            Operator Location: Not Supplied            Authority: Environment Agency - North West Region, South Area            Site Category: Household, Commercial And Industrial Transfer Stations  <b>Licence Status: Transferred</b>            Issued: 9th February 1993            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A17SW (NW)	633	1	386258 400130
60	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 103632            Location: 498 Oldham Road, Miles Platting, Manchester, Lancs, M40 5AA            Operator Name: Anthony O' Connor And Sons Ltd            Operator Location: Not Supplied            Authority: Environment Agency - North West Region, South Area            Site Category: Inert &amp; Excavation WTS with treatment  <b>Licence Status: Issued</b>            Issued: 23rd December 2011            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A17SW (NW)	647	1	386210 400075
	<p><b>Local Authority Landfill Coverage</b></p> <p>Name: Manchester City Council            - Had landfill data but passed it to the relevant environment agency</p>		0	5	387004 399719
61	<p><b>Registered Landfill Sites</b></p> <p>Licence Holder: H Evers (Messrs)            Licence Reference: 00013            Site Location: Mitchell Street, Newton Heath, Manchester, Greater Manchester            Licence Easting: Not Supplied            Licence Northing: Not Supplied            Operator Location: Taylor Road, Urmston, TRAFFORD, Greater Manchester, M31 3JL            Authority: Environment Agency - North West Region, South Area            Site Category: Landfill            Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled            Dated: 13th July 1978            Preceded By: Not Given            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Positioned by the supplier            Boundary Accuracy: Moderate            Authorised Waste: Construction And Demolition Wastes            Foundry Sand            Ind. Non-Haz. Waste            Slag, Boiler/Flue Cleanings            Prohibited Waste: Liquid Wastes            Sludge Wastes</p>	A14NW (NE)	437	1	387454 400030



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
62	<p><b>Registered Landfill Sites</b></p> <p>Licence Holder: North West Gas            Licence Reference: 00381/84/M1            Site Location: Bradford Road, Gasworks Site, Manchester, Greater Manchester            Licence Easting: 386700            Licence Northing: 399100            Operator Location: Welman House, Altrincham, Cheshire            Authority: Environment Agency - North West Region, South Area            Site Category: Landfill            Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled            Dated: 10th October 1985            Preceded By: Not Given            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Manually positioned to the address or location            Boundary Accuracy: Not Applicable            Authorised Waste: Constr'N/Demol. Inert/Non-Haz/Non-Tox            Non Leachate Forming Waste            Soil,Clay,Sand            Stone,Brick,Concrete,Slate            Carcasses And Flesh            Chemical Wastes            Food Waste            Liquid Wastes            Metal Scrap            Paper/Cardboard Waste            Plasterboard/Plaster            Plastic/Polythene (Including Sacks)            Sawdust/Bark            Sludge Wastes            Textiles, Rag,Wool,Cloth,Hessian Etc            Vegetable/Processing Waste            Waste Forming Polluting Leachate            Wood Waste/Timber</p> <p>Prohibited Waste</p>	A8NW (SW)	656	1	386700 399100
63	<p><b>Registered Landfill Sites</b></p> <p>Licence Holder: North West Gas            Licence Reference: 00180            Site Location: Bradford Road Gas Works, Manchester, Greater Manchester            Licence Easting: 386700            Licence Northing: 399000            Operator Location: Welman House, Altrincham, Cheshire            Authority: Environment Agency - North West Region, South Area            Site Category: Landfill            Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled            Dated: 22nd September 1983            Preceded By: Not Given            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Manually positioned to the road within the address or location            Boundary Accuracy: Not Applicable            Authorised Waste: Asbestos            Construction And Demolition Wastes            Liquid/Slurry/Sludge Wastes            Prohibited Waste: Notifiable Wastes N.O.S</p>	A8SW (SW)	748	1	386700 399000



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	<p><b>Registered Landfill Sites</b></p> <p>Licence Holder: C.E.G.B.            Licence Reference: 00045/76            Site Location: Clayton Vale Power Station, Bank Bridge Road, Manchester, Greater Manchester            Licence Easting: 388000            Licence Northing: 399500            Operator Location: Europa House, Stockport, Cheshire            Authority: Environment Agency - North West Region, South Area            Site Category: Landfill            Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled            Dated: 12th March 1979            Preceded By: Not Given            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Manually positioned to the address or location            Boundary Accuracy: Not Applicable            Authorised Waste: Construction And Demolition Wastes            Mine And Quarry Wastes - Mill Rejects            Pulverised Fuel Ash            Prohibited Waste: Liquid/Sludge Wastes</p>	A14SE (E)	792	1	388000 399500
65	<p><b>Registered Waste Transfer Sites</b></p> <p>Licence Holder: James Moores Ltd            Licence Reference: 00727/91            Site Location: Oldham Road, Miles Platting, Manchester, Greater Manchester            Operator Location: As Site Address            Authority: Environment Agency - North West Region, South Area            Site Category: Transfer            Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Licence Status: Record supersededSuperseded            Dated: 1st December 1991            Preceded By: Not Given            Licence:            Superseded By: 00727/M01/T01            Licence:            Positional Accuracy: Manually positioned to the address or location            Boundary Quality: Not Supplied            Authorised Waste: Bonded Asbestos Sheet/Piping            Contaminated Waste/Soils            Gmwda Group 1 - Non/V.Slow Decomp.Wast            Gmwda Group 2 - Slow Decomp./Slight So            Gmwda Group 3 - Decomp./Sol.Waste = No            Household Waste As Part Of Skip Waste            Max.Storage            Max.Storage Of Reclaimed Mat'L            Max.Waste Permitted By Licence-Stated            Plaster            Prohibited Waste: Asbestos            Ash, Clinker            Boiler Scale, Slag            Clinical Wastes            Cosmetic Products            Explosive Waste            Foundry Sand            Gas Under Pressure            Incinerator Residues            Liquid/Sludge Wastes            Malodorous Waste            Pretreated Waste Not Permit By Lic            Sewage            Soap, Detergents            Special Wastes            Veg. Food/Proc, Animal Carcass            Violently Reactive Waste            Waste In Drums            Waste N.O.S.</p>	A12NE (NW)	388	1	386460 399990



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
66	<p><b>Registered Waste Transfer Sites</b></p> <p>Licence Holder: B A Hibbert            Licence Reference: 00774/M01/T01            Site Location: Old Leaches Yard, Beckford Street, Miles Platting, Manchester, Greater Manchester, M40 5ae</p> <p>Operator Location: As Site Address            Authority: Environment Agency - North West Region, South Area            Site Category: Transfer            Max Input Rate: Very Small (Less than 10,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Licence Status: Operational as far as is knownOperational            Dated: 1st December 1997            Preceded By: 00774            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Manually positioned to the road within the address or location            Boundary Quality: Not Supplied            Authorised Waste: Gmwda Group 1 - Non/V.Slow Decomp.Wast            Gmwda Group 2 - Slow Decomp./Slight So            Gmwda Group 3 - Decomp./Sol.Waste = No            Max.Storage In Licence            Max.Waste Permitted By Licence</p> <p>Prohibited Waste: Asbestos            Explosive Waste            Liquid Wastes            Pressurised Wastes Or Containers            Sludge Wastes            Spec.Waste (Epa'90:S62/1996 Regs)            Waste In Drums            Waste N.O.S.            Waste React Violently With Water</p>	A17SE (NW)	557	1	386330 400100
66	<p><b>Registered Waste Transfer Sites</b></p> <p>Licence Holder: T J Mc Ivor            Licence Reference: 00774            Site Location: Old Leaches Yard, Beckford Street, Miles Platting, Manchester, Greater Manchester, M40 5ae</p> <p>Operator Location: 63 Brierley Avenue, FAILSWORTH, Greater Manchester, M35 0RF            Authority: Environment Agency - North West Region, South Area            Site Category: Transfer            Max Input Rate: Very Small (Less than 10,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Licence Status: Record supersededSuperseded            Dated: 1st February 1993            Preceded By: Not Given            Licence:            Superseded By: 00774/M01/T01            Licence:            Positional Accuracy: Manually positioned to the road within the address or location            Boundary Quality: Not Supplied            Authorised Waste: Gmwda Group 1 - Non/V.Slow Decomp.Wast            Gmwda Group 2 - Slow Decomp./Slight So            Gmwda Group 3 - Decomp./Sol.Waste = No            High-Dens/Hard/Bonded/Cement Asbestos            Max.Storage In Licence            Max.Storage Of Reclaimed Waste            Max.Waste Permitted By Licence</p> <p>Prohibited Waste: Explosive Waste            Gmwda Group 5 - Chemical/Toxic Waste            Liquid/Sludge Wastes            Special Wastes            Waste In Drums            Waste In Pressurised Cont'Rs            Waste N.O.S. - Pretreated Or Not            Waste Violently Reactive With Water</p>	A17SE (NW)	557	1	386330 400100



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	<p><b>Registered Waste Transfer Sites</b></p> <p>Licence Holder: Park Pit Landfill Ltd            Licence Reference: 00973            Site Location: Queens Road / Oldham Road, Miles Platting, Manchester, Greater Manchester            Operator Location: PO Box 54, Rydings Road, Wardle, ROCHDALE, Lancashire, OL12 9PS            Authority: Environment Agency - North West Region, South Area            Site Category: Transfer            Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Licence Status: Licence has completion certificateSurrendered            Dated: 1st October 1994            Preceded By: Not Given            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Manually positioned to the road within the address or location            Boundary Quality: Not Supplied            Authorised Waste: Asbestos Sheet/Piping - Comp./Bonded            Dyestuffs Waste            Fats And Greases            Gmwda Group 1 - Non/V.Slow Decomp.Wast            Gmwda Group 2 - Slow Decomp./Slight So            Gmwda Group 3 - Most Items            Max.Waste Permitted By Licence            Mineral Oils            Paint/Varnish            Polymeric Material, Products/Scrap            Tar, Pitch, Bitumen, Asphalts            Vegetable Oils            Prohibited Waste: Waste N.O.S.</p>	A12NW (W)	735	1	386060 399900
68	<p><b>Registered Waste Treatment or Disposal Sites</b></p> <p>Licence Holder: Recon Packaging Ltd            Licence Reference: 00840            Site Location: Navigation Trading Estate, Bower Street, Newton Heath, MANCHESTER, Greater Manchester, M10 6BX            Operator Location: As Site Address            Authority: Environment Agency - North West Region, South Area            Site Category: Recycling Drums            Max Input Rate: Very Small (Less than 10,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Licence Status: Operational as far as is knownOperational            Dated: 1st March 1997            Preceded By: Not Given            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Approximate location provided by supplier            Boundary Quality: Not Supplied            Authorised Waste: Cont'Rs With &lt; 1% Of Permitted Residue            Cont'Rs With Waste Cosmetics            Cont'Rs With Waste Latex            Cont'Rs With Waste Soap/Detergent            Max.Waste Permitted By Licence            Max.Waste Permitted By Licence Plus            Pre-Cleaned Empty Drums            Prohibited Waste: Drums Cont. Uk Red List Subs            Drums Cont.Subs In Eec Dir. 76/464            Drums Cont.Subs In Eec Dir. 80/68            Highly Malodorous Wastes            Pressurised Waste            Residues Of Haz.Chemicals            Residues Of Spec.Waste (Epa'90:S62)            Sub'S Control. Radioactive Subs Act'60            Subs React Violently With Water            Waste N.O.S.</p>	A13NW (NW)	184	1	386801 400001



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	<p><b>Registered Waste Treatment or Disposal Sites</b></p> <p>Licence Holder: Drummer Boy Trading Co Ltd            Licence Reference: 00782            Site Location: Bower Street, Newton Heath, MANCHESTER, Greater Manchester, M10 6BX            Operator Location: As Site Address            Authority: Environment Agency - North West Region, South Area            Site Category: Recycling Drums            Max Input Rate: Very Small (Less than 10,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Licence Status: Operational as far as is knownOperational            Dated: 12th August 1998            Preceded By: Not Given            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Located by supplier to within 100m            Boundary Quality: Not Supplied            Authorised Waste            Empty Used Ibc's With &lt; 2 Litre Liq Or 10 Litre Solid Residues Which May Include            Empty Used Packagescontainers With &lt; 1%Vol Residues Which May Include            Maximum Waste In Working Plan            Maximum Waste Permitted By Licence            Packagescontainers/Ibc's With &lt; 10%Vol Non-Haz. Residues Which May Include            Special Waste (As In Epa 1990:S62 Of 1996 Regs)            Starch Based Polymers            Surfactants            Water Based Adhesive Wastes            Prohibited Waste            Drums With Residues Of Subs In Prescribed Subs/Processes Regs 1989)            Drums/Cont'Rs With Residues Of List I Subs In Eec Directive 80/68/Eec            Material With Haz.Code H 1 - Explosive            Material With Haz.Code H 2 - Oxidising            Material With Haz.Code H 3a - Highly Flammable            Material With Haz.Code H 6 - Toxic            Material With Haz.Code H 7 - Carcinogenic            Material With Haz.Code H 9 - Infectious            Material With Haz.Code H10 - Teratogenic            Material With Haz.Code H11 - Mutagenic            Material With Haz.Code H12 - Can Release Toxic Gases            Material With Haz.Code H14 - Ecotoxic            Other Waste/Waste Not Otherwise Specified</p>	A18SW (N)	281	1	386880 400100



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	<p><b>Registered Waste Treatment or Disposal Sites</b></p> <p>Licence Holder: The Sheppard Group Ltd            Licence Reference: 00727/M01/T01            Site Location: E M R Moores Division, Irlam Street, Miles Platting, Manchester, Greater Manchester, M40 2bp            Operator Location: Alexandra Building, Alexandra Dock, Bootle, Liverpool, Merseyside            Authority: Environment Agency - North West Region, South Area            Site Category: Scrapyard - with Transfer Station            Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Licence Status: Operational as far as is knownOperational            Dated: 12th October 1993            Preceded By: 00943            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Manually positioned to the address or location            Boundary Quality: Not Supplied            Authorised Waste            Brake Fluid/Antifreeze            Cadmium &amp; Cpds            Carbides And Acetylides            Comp.Bonded Asbestos Sheet/Piping            Contaminated Soil - Class C            Copper &amp; Cpds            Electrical Goods/Tvs/Whiteware            Fuel Oil            Gmwda Group 1 - Non/V.Slow Decomp.Wast            Gmwda Group 2 - Slow Decomp./Slight So            Gmwda Group 3 - Only As Follows            Gmwda Group 5 - Only As Follows            Household Waste            Inorganic Acids            Iron &amp; Cpds            Kerosene And Derv.            Lead &amp; Cpds            Max.Waste Permitted By Licence            Mineral Oils            Organic Acids + Related Cmpds            Organo-Metallic Cmpds            Phenols, Analogues/Derivatives            Plaster            Plasterboard            Scrap Metal            Scrap Rubber (Including Tyres)            Silver &amp; Cpds            Tin &amp; Cpds            Titanium &amp; Cpds            Zinc &amp; Cpds            Prohibited Waste            Explosive Waste            Liquid Wastes            Mineral Processing Wastes            Pressurised Cont'Rs/Waste Therein            Slag, Boiler/Flue Cleanings            Sludge Wastes            Violently Reactive Wastes            Waste In Drums            Waste N.O.S.</p>	A12NE (NW)	393	1	386460 400000



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
71	<p><b>Registered Waste Treatment or Disposal Sites</b></p> <p>Licence Holder: Manchester Cabins Ltd            Licence Reference: 00863/92            Site Location: Albion Works, Drewett Street, Miles Platting, MANCHESTER, Greater Manchester, M10 8AR</p> <p>Operator Location: As Site Address            Authority: Environment Agency - North West Region, South Area            Site Category: Treatment            Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year)</p> <p>Waste Source: No known restriction on source of waste            Restrictions:            Licence Status: Site exempt from licenceExempt            Dated: 1st July 1993            Preceded By: Not Given            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Manually positioned to the road within the address or location            Boundary Quality: Not Supplied            Authorised Waste: Max.Storage Reclaimed Materials            Scrap Rubber (Including Tyres)</p> <p>Prohibited Waste: Explosive Waste            Liquid Wastes            Malodorous Waste            Pressurized Containers/Waste Therein            Sludge Wastes            Special Wastes            Violently Reactive Wastes            Waste In Drums            Waste N.O.S.</p>	A12NE (W)	446	1	386340 399750
72	<p><b>Registered Waste Treatment or Disposal Sites</b></p> <p>Licence Holder: Degussa Ltd Manox Division            Licence Reference: 00716/91            Site Location: Coleshill Street, Miles Platting, MANCHESTER, Greater Manchester, M10 7AA</p> <p>Operator Location: As Site Address            Authority: Environment Agency - North West Region, South Area            Site Category: Treatment            Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year)</p> <p>Waste Source: No known restriction on source of waste            Restrictions:            Licence Status: Site now IPC authorisedAuthorised            Dated: 1st September 1992            Preceded By: Not Given            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Manually positioned to the address or location            Boundary Quality: Not Supplied            Authorised Waste: Barium &amp; Cpds            Calcium &amp; Cpds            Cyanides - All Types            Inorganic Acids Ph &lt; 4.0            Max.Waste Permitted By Licence            Potassium &amp; Cpds            Sodium &amp; Cpds</p> <p>Prohibited Waste: Explosive Waste            Malodorous Waste            Pressurised Waste            Violently Reactive Wastes            Waste N.O.S.</p>	A7NW (SW)	767	1	386150 399350



# Hazardous Substances

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
73	<p><b>Control of Major Accident Hazards Sites (COMAH)</b></p> <p>Name: Transco Plc            Location: Bradford Road Holder, Bradford Road, Miles Platting, MANCHESTER, Greater Manchester, M10 7BL            Reference: 1029780            Type: Upper Tier            Status: <b>Active</b>            Positional Accuracy: Manually positioned to the address or location</p>	A8NW (SW)	569	4	386676 399205
74	<p><b>Control of Major Accident Hazards Sites (COMAH)</b></p> <p>Name: Degussa Limited            Location: Manox House, Coleshill Street, Manchester, M40 7AA            Reference: 17545            Type: Upper Tier            Status: <b>Record Ceased To Be Supplied Under COMAH Regulations</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NW (SW)	727	4	386181 399375
75	<p><b>Control of Major Accident Hazards Sites (COMAH)</b></p> <p>Name: National Grid Gas Plc            Location: Bradford Road Holder Station/Ngg Plc, Bradford Road, Miles Platting, Manchester, Greater Manchester, M10 7BL            Reference: Not Supplied            Type: Upper Tier            Status: <b>Active</b>            Positional Accuracy: Manually positioned to the address or location</p>	A7SW (SW)	978	4	386276 398945
76	<p><b>Notification of Installations Handling Hazardous Substances (NIHHS)</b></p> <p>Name: British Gas (North West) PLC            Location: Bradford Road Holder Station, Bradford Road, Miles Platting, MANCHESTER, Greater Manchester, M10 7BL            Status: <b>Record Ceased To Be Supplied Under NIHHS Regulations (1982)</b>            Positional Accuracy: Unknown</p>	A8NW (SW)	591	4	386672 399183
77	<p><b>Planning Hazardous Substance Consents</b></p> <p>Name: Bg Transco Plc            Location: Alan Turing Way, New Viaduct Street, MANCHESTER, Greater Manchester, M40 7            Authority: Manchester City Council, Planning Department            Application Ref: 059226/Hsc/North2/00            Hazardous Substance: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not)            Maximum Quantity: 0            Application date: 11th May 2000            Decision: <b>Deemed Consent Granted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A8NW (SW)	570	5	386680 399203
77	<p><b>Planning Hazardous Substance Consents</b></p> <p>Name: British Gas            Location: Bradford Road Holder Station, Miles Platting, Manchester, Greater Manchester, M10 7bl            Authority: Manchester City Council, Planning Department            Application Ref: 000001/HSC/NORTH2/92            Hazardous Substance: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not)            Maximum Quantity: 453.2            Application date: 24th September 1992            Decision: <b>Deemed Consent Granted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A8NW (SW)	588	5	386666 399189
78	<p><b>Planning Hazardous Substance Consents</b></p> <p>Name: Bg Transco Plc            Location: Gleden Street, Bradford Road, MANCHESTER, Greater Manchester, M40 7            Authority: Manchester City Council, Planning Department            Application Ref: 059225/Hsc/North2/00            Hazardous Substance: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not)            Maximum Quantity: 0            Application date: 11th May 2000            Decision: <b>Deemed Consent Granted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A7SW (SW)	974	5	386284 398945



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS 1:625,000 Solid Geology</b> Description: Upper Westphalian (including Pennant Measures)	A13SE (S)	0	3	387004 399719
	<b>BGS 1:625,000 Solid Geology</b> Description: Permian and Triassic sandstones, undifferentiated, including Bunter and Keuper	A13SE (W)	0	3	387004 399719
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (W)	0	6	387000 399719
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NE (NE)	0	6	387129 399795
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (W)	0	6	387004 399719
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (NE)	91	6	387078 399832
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (N)	118	6	387000 399883



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A13NW (N)	178	6	386978 400000
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 90 - 120 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A13NW (NW)	179	6	386820 400000
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A13SW (SW)	189	6	386861 399503
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A13NW (N)	203	6	387000 399976
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A13NW (N)	217	6	387000 400000
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A13NE (N)	226	6	387004 400000



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A13SW (S)	254	6	387000 399411
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14SW (E)	272	6	387493 399636
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14NW (E)	298	6	387467 399876
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14NW (E)	298	6	387474 399851
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14NW (NE)	327	6	387396 399943
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 90 - 120 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A18SW (N)	335	6	386829 400157



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14SW (E)	336	6	387547 399563
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A14NW (NE)	351	6	387379 400000
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A13NE (NE)	368	6	387338 400024
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A14NW (NE)	377	6	387354 400028
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A14NW (NE)	404	6	387433 400000
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14NW (NE)	414	6	387429 400015



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	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A18SE (NE)	415	6	387265 400129
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14NW (NE)	421	6	387463 400000
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14SW (SE)	465	6	387622 399410
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic &lt;15 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A14SW (SE)	470	6	387615 399390
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14NE (E)	516	6	387721 399787
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A14NW (NE)	520	6	387608 400000



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	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A9NW (SE)	591	6	387653 399243
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A8SE (S)	627	6	387004 399000
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A18NW (N)	629	6	387000 400430
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A9NE (SE)	630	6	387717 399258
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium 1.8 - 2.2 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 300 - 600 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A8SW (S)	646	6	387000 399000
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A9SW (SE)	683	6	387466 399000



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A18SE (NE)	694	6	387331 400369
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A12NW (W)	711	6	386109 400000
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A18NW (N)	744	6	387000 400549
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A18NW (N)	762	6	386946 400577
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14SE (E)	779	6	388000 399719
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14SE (E)	779	6	388000 399650



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	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14SE (E)	783	6	388000 399565
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A12SW (W)	785	6	386000 399719
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A9SE (SE)	797	6	387687 399000
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A9SE (SE)	804	6	387699 399000
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14SE (E)	812	6	388000 399416
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A12NW (W)	816	6	386000 400000



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	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 300 - 600 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A9SE (SE)	828	6	387689 398963
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: RuSoilExAs</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 90 - 120 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A17SW (W)	838	6	386000 400072
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A9NE (E)	845	6	388000 399317
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14NE (E)	855	6	388000 400000
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;150 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A9SE (SE)	915	6	387690 398857
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A9NE (SE)	920	6	388006 399166



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	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium 1.8 - 2.2 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 300 - 600 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A7SE (SW)	945	6	386355 398930
	<p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium 1.8 - 2.2 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 300 - 600 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A7SW (SW)	946	6	386249 399000
79	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Philips Park Brick Works</p> <p>Location: , Clayton, Manchester, Lancashire</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Reference: 95125</p> <p>Type: Opencast</p> <p><b>Status: Ceased</b></p> <p>Operator: Unknown Operator</p> <p>Operator Location: Unknown Operator</p> <p>Periodic Type: Quaternary</p> <p>Geology: Till, Devensian</p> <p>Commodity: Common Clay and Shale</p> <p>Positional Accuracy: Located by supplier to within 10m</p>	A13SW (S)	194	3	386930 399504
80	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Philips Park Brick Works</p> <p>Location: , Clayton, Manchester, Lancashire</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Reference: 95126</p> <p>Type: Opencast</p> <p><b>Status: Ceased</b></p> <p>Operator: Unknown Operator</p> <p>Operator Location: Unknown Operator</p> <p>Periodic Type: Quaternary</p> <p>Geology: Till, Devensian</p> <p>Commodity: Common Clay and Shale</p> <p>Positional Accuracy: Located by supplier to within 10m</p>	A14SW (SE)	221	3	387359 399474
81	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Miles Platting Brick Works</p> <p>Location: , Miles Platting, Manchester, Lancashire</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Reference: 95121</p> <p>Type: Opencast</p> <p><b>Status: Ceased</b></p> <p>Operator: Unknown Operator</p> <p>Operator Location: Unknown Operator</p> <p>Periodic Type: Quaternary</p> <p>Geology: Till, Devensian</p> <p>Commodity: Common Clay and Shale</p> <p>Positional Accuracy: Located by supplier to within 10m</p>	A12SE (SW)	417	3	386605 399404
82	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Newton Brick Works</p> <p>Location: , Newton, Manchester, Lancashire</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Reference: 95120</p> <p>Type: Opencast</p> <p><b>Status: Ceased</b></p> <p>Operator: Unknown Operator</p> <p>Operator Location: Unknown Operator</p> <p>Periodic Type: Permian</p> <p>Geology: Manchester Marls Formation</p> <p>Commodity: Common Clay and Shale</p> <p>Positional Accuracy: Located by supplier to within 10m</p>	A18SE (NE)	514	3	387280 400195



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
83	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Mitchell Street Brickworks            Location: , Newton Heath, Manchester            Source: British Geological Survey, National Geoscience Information Service            Reference: 15091            Type: Opencast  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Unknown Operator            Periodic Type: Quaternary            Geology: Till, Devensian            Commodity: Common Clay and Shale            Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	883	3	387725 400380
84	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Cheetham Fold Clay Pit            Location: , Cheetham Fold, Manchester, Lancashire            Source: British Geological Survey, National Geoscience Information Service            Reference: 95124            Type: Opencast  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Unknown Operator            Periodic Type: Quaternary            Geology: Till, Devensian            Commodity: Common Clay and Shale            Positional Accuracy: Located by supplier to within 10m</p>	A15NW (E)	998	3	388174 399945
	<p><b>BGS Measured Urban Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service            Grid: 387070, 399770            Soil Sample Type: Topsoil            Sample Area: Manchester            Arsenic Measured 47.00 mg/kg            Concentration:            Cadmium Measured 1.40 mg/kg            Concentration:            Chromium Measured 205.00 mg/kg            Concentration:            Lead Measured 302.00 mg/kg            Concentration:            Nickel Measured 52.00 mg/kg            Concentration:</p>	A13NE (NE)	41	3	387070 399770
	<p><b>BGS Measured Urban Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service            Grid: 386860, 399870            Soil Sample Type: Topsoil            Sample Area: Manchester            Arsenic Measured 41.00 mg/kg            Concentration:            Cadmium Measured 1.80 mg/kg            Concentration:            Chromium Measured 96.00 mg/kg            Concentration:            Lead Measured 284.00 mg/kg            Concentration:            Nickel Measured 42.00 mg/kg            Concentration:</p>	A13NW (NW)	51	3	386860 399870
	<p><b>BGS Measured Urban Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service            Grid: 387220, 399210            Soil Sample Type: Topsoil            Sample Area: Manchester            Arsenic Measured 40.00 mg/kg            Concentration:            Cadmium Measured 1.00 mg/kg            Concentration:            Chromium Measured 71.00 mg/kg            Concentration:            Lead Measured 412.00 mg/kg            Concentration:            Nickel Measured 31.00 mg/kg            Concentration:</p>	A8NE (SE)	418	3	387220 399210



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>BGS Measured Urban Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service            Grid: 386750, 399310            Soil Sample Type: Topsoil            Sample Area: Manchester            Arsenic Measured 20.00 mg/kg            Concentration:            Cadmium Measured 1.10 mg/kg            Concentration:            Chromium Measured 68.00 mg/kg            Concentration:            Lead Measured 282.00 mg/kg            Concentration:            Nickel Measured 24.00 mg/kg            Concentration:</p>	A8NW (SW)	444	3	386750 399310
	<p><b>BGS Measured Urban Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service            Grid: 387740, 399600            Soil Sample Type: Topsoil            Sample Area: Manchester            Arsenic Measured 54.00 mg/kg            Concentration:            Cadmium Measured 1.90 mg/kg            Concentration:            Chromium Measured 93.00 mg/kg            Concentration:            Lead Measured 465.00 mg/kg            Concentration:            Nickel Measured 49.00 mg/kg            Concentration:</p>	A14SE (E)	521	3	387740 399600
	<p><b>BGS Measured Urban Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service            Grid: 386210, 399650            Soil Sample Type: Topsoil            Sample Area: Manchester            Arsenic Measured 16.00 mg/kg            Concentration:            Cadmium Measured 0.30 mg/kg            Concentration:            Chromium Measured 70.00 mg/kg            Concentration:            Lead Measured 120.00 mg/kg            Concentration:            Nickel Measured 23.00 mg/kg            Concentration:</p>	A12SW (W)	590	3	386210 399650
	<p><b>BGS Measured Urban Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service            Grid: 387720, 399180            Soil Sample Type: Topsoil            Sample Area: Manchester            Arsenic Measured 80.00 mg/kg            Concentration:            Cadmium Measured 1.00 mg/kg            Concentration:            Chromium Measured 87.00 mg/kg            Concentration:            Lead Measured 426.00 mg/kg            Concentration:            Nickel Measured 57.00 mg/kg            Concentration:</p>	A9NE (SE)	683	3	387720 399180
	<p><b>BGS Measured Urban Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service            Grid: 386260, 399250            Soil Sample Type: Topsoil            Sample Area: Manchester            Arsenic Measured 60.00 mg/kg            Concentration:            Cadmium Measured 1.20 mg/kg            Concentration:            Chromium Measured 94.00 mg/kg            Concentration:            Lead Measured 544.00 mg/kg            Concentration:            Nickel Measured 47.00 mg/kg            Concentration:</p>	A7NW (SW)	746	3	386260 399250



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>BGS Measured Urban Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service  Grid: 387330, 398700  Soil Sample Type: Topsoil  Sample Area: Manchester  Arsenic Measured 26.00 mg/kg  Concentration:  Cadmium Measured 1.20 mg/kg  Concentration:  Chromium Measured 80.00 mg/kg  Concentration:  Lead Measured 179.00 mg/kg  Concentration:  Nickel Measured 33.00 mg/kg  Concentration:</p>	A3NE (S)	937	3	387330 398700
	<p><b>BGS Measured Urban Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service  Grid: 386870, 398730  Soil Sample Type: Topsoil  Sample Area: Manchester  Arsenic Measured 20.00 mg/kg  Concentration:  Cadmium Measured 1.20 mg/kg  Concentration:  Chromium Measured 136.00 mg/kg  Concentration:  Lead Measured 308.00 mg/kg  Concentration:  Nickel Measured 41.00 mg/kg  Concentration:</p>	A8SW (S)	941	3	386870 398730
	<p><b>BGS Measured Urban Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service  Grid: 385840, 399740  Soil Sample Type: Topsoil  Sample Area: Manchester  Arsenic Measured 17.00 mg/kg  Concentration:  Cadmium Measured 3.60 mg/kg  Concentration:  Chromium Measured 77.00 mg/kg  Concentration:  Lead Measured 143.00 mg/kg  Concentration:  Nickel Measured 28.00 mg/kg  Concentration:</p>	A11NE (W)	946	3	385840 399740
	<p><b>BGS Urban Soil Chemistry Averages</b></p> <p>Source: British Geological Survey, National Geoscience Information Service  Sample Area: Manchester  Count Id: 300  Arsenic Minimum 3.00 mg/kg  Concentration:  Arsenic Average 28.00 mg/kg  Concentration:  Arsenic Maximum 1008.00 mg/kg  Concentration:  Cadmium Minimum 0.30 mg/kg  Concentration:  Cadmium Average 1.40 mg/kg  Concentration:  Cadmium Maximum 80.30 mg/kg  Concentration:  Chromium Minimum 29.00 mg/kg  Concentration:  Chromium Average 92.00 mg/kg  Concentration:  Chromium Maximum 1252.00 mg/kg  Concentration:  Lead Minimum 21.00 mg/kg  Concentration:  Lead Average 270.00 mg/kg  Concentration:  Lead Maximum 2687.00 mg/kg  Concentration:  Nickel Minimum 6.00 mg/kg  Concentration:  Nickel Average 32.00 mg/kg  Concentration:  Nickel Maximum 137.00 mg/kg  Concentration:</p>	A13SE (W)	0	3	387004 399719



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Coal Mining Affected Areas</b> Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SE (W)	0	7	387004 399719
	<b>Mining Instability</b> Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SE (W)	0	-	387004 399719
	<b>Non Coal Mining Areas of Great Britain</b> No Hazard				
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	3	387004 399719
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	179	3	387004 400001
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	3	387004 399719
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	179	3	387004 400001
	<b>Potential for Ground Dissolution Stability Hazards</b> No Hazard				
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	3	387004 399719
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	179	3	387004 400001
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	3	387004 399719
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	179	3	387004 400001
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	3	387004 399719
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	179	3	387004 400001
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	3	387004 399719
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	3	387004 399719



## Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Alloy Bodies Ltd            Location: Jubilee Works, Clifton Street, Miles Platting, Manchester, M40 8HN            Classification: Commercial Vehicle Bodybuilders &amp; Repairers            Status: <b>Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SW (W)	92	-	386754 399692
86	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Medic Bath Co Ltd            Location: Ashfield Works, Briscoe Lane, Manchester, M40 2XG            Classification: Disability Equipment - Manufacturers &amp; Suppliers            Status: <b>Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SE (S)	99	-	387057 399555
87	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: J C S Pallets            Location: Lord North Street, Manchester, M40 8AD            Classification: Pallets, Crates &amp; Packing Cases            Status: <b>Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A13NW (W)	124	-	386668 399739
87	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Princes Soft Drinks            Location: Lord North Street, Manchester, M40 2HJ            Classification: Soft Drinks - Manufacturers            Status: <b>Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A13NW (W)	124	-	386668 399739
87	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Clynder Cables Ltd            Location: 3, Lord North Street, MANCHESTER, M40 8AD            Classification: Cable &amp; Wire Equipment Manufacturers            Status: <b>Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A13NW (W)	124	-	386668 399739
88	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: 151 Products            Location: Block 1, Manchester Abattoir, Riverpark Rd, Manchester, Lancashire, M40 2XP            Classification: Distribution Services            Status: <b>Inactive</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A13SE (SE)	166	-	387139 399462
88	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Hbs Uk Cleaning Services            Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XP            Classification: Commercial Cleaning Services            Status: <b>Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	174	-	387128 399455
88	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Kurpas Meats Plc            Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XS            Classification: Meat - Wholesale            Status: <b>Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	174	-	387128 399455
89	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Coldchase Foods Ltd            Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XT            Classification: Meat - Wholesale            Status: <b>Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	190	-	387238 399442
89	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Riverpark Press            Location: Manchester Abattoir, Riverpark Rd, Manchester, Lancashire, M40 2XP            Classification: Printers            Status: <b>Active</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A13SE (SE)	222	-	387281 399422
90	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: North Manchester Commercials Ltd            Location: Briscoe Lane, Manchester, M40 2NL            Classification: Commercial Vehicle Dealers            Status: <b>Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SW (S)	199	-	386956 399488
90	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: North Manchester Commercials            Location: Briscoe Lane, Manchester, Lancashire, M40 2NL            Classification: Commercial Vehicle Dealers            Status: <b>Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SW (S)	199	-	386956 399488



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
90	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: N N C Contracts Hire Ltd            Location: Briscoe La, Manchester, Lancashire, M40 2NL            Classification: Commercial Vehicle Bodybuilders &amp; Repairers  <b>Status:</b> Inactive            Positional Accuracy: Manually positioned to the road within the address or location</p>	A13SW (S)	235	-	386958 399448
91	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Pennine Meats            Location: Manchester Abattoir, Riverpark Ind Est, Riverpark Rd, Manchester, Lancashire, M40 2XP            Classification: Meat - Wholesale  <b>Status:</b> Inactive            Positional Accuracy: Manually positioned within the geographical locality</p>	A13SE (SE)	218	-	387318 399446
92	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Anthony Burns Ltd            Location: Manchester Abattoir, Riverpark Road, Manchester, Lancashire, M40 2XP            Classification: Meat - Wholesale  <b>Status:</b> Active            Positional Accuracy: Automatically positioned to the address</p>	A14SW (SE)	238	-	387365 399456
92	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Choice Game Ltd            Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XR            Classification: Meat - Wholesale  <b>Status:</b> Inactive            Positional Accuracy: Automatically positioned to the address</p>	A14SW (SE)	238	-	387365 399456
92	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Samuel Howarth            Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XP            Classification: Meat - Wholesale  <b>Status:</b> Inactive            Positional Accuracy: Automatically positioned to the address</p>	A14SW (SE)	238	-	387365 399456
92	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Choice Game            Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XR            Classification: Meat - Wholesale  <b>Status:</b> Inactive            Positional Accuracy: Automatically positioned to the address</p>	A14SW (SE)	238	-	387365 399456
92	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Kurpas Meats            Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XS            Classification: Meat - Wholesale  <b>Status:</b> Inactive            Positional Accuracy: Automatically positioned to the address</p>	A14SW (SE)	238	-	387365 399456
92	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Harvey Ashworth (Manchester) Ltd            Location: Manchester Abattoir, Riverpark Rd, Manchester, M40 2XR            Classification: Meat - Wholesale  <b>Status:</b> Inactive            Positional Accuracy: Manually positioned to the address or location</p>	A14SW (SE)	238	-	387364 399456
92	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Robert Edward            Location: Manchester Abattoir, Riverpark Rd, Manchester, Lancashire, M40 2XP            Classification: Food Products - Manufacturers  <b>Status:</b> Inactive            Positional Accuracy: Manually positioned within the geographical locality</p>	A14SW (SE)	238	-	387364 399456
92	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: G R M Distribution Ltd            Location: Manchester Abattoir, Riverpark Rd, Manchester, Lancashire, M40 2XP            Classification: Insulation Materials  <b>Status:</b> Active            Positional Accuracy: Manually positioned within the geographical locality</p>	A14SW (SE)	239	-	387365 399456
92	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: T Ritchie C &amp; E Ltd            Location: Manchester Abattoir, Riverpark Road, Manchester, Lancashire, M40 2XS            Classification: Meat - Wholesale  <b>Status:</b> Inactive            Positional Accuracy: Automatically positioned to the address</p>	A14SW (SE)	239	-	387365 399456



## Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
92	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: United Cattle Products Ltd            Location: Manchester Abattoir, Riverpark Road, Manchester, Lancashire, M40 2XS            Classification: Meat - Wholesale  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A14SW (SE)	239	-	387365 399456
92	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Hbs (Uk) Cleaning Services            Location: Manchester Abattoir, Riverpark Rd, Manchester, Lancashire, M40 2XP            Classification: Commercial Cleaning Services  <b>Status: Active</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A14SW (SE)	239	-	387365 399456
92	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Hanson Business Support Uk Ltd            Location: Riverpark Rd, Manchester, Lancashire, M40 2XP            Classification: Commercial Cleaning Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A14SW (SE)	239	-	387365 399456
92	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Northern Optical            Location: Unit 8,9,Riverpark Rd, Manchester, Lancashire, M40 2XP            Classification: Optical Goods - Manufacturers  <b>Status: Active</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A14SW (SE)	239	-	387365 399456
92	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Kosmo Services            Location: Manchester Abattoir, Riverpark Rd, Manchester, Lancashire, M40 2XP            Classification: Commercial Cleaning Services  <b>Status: Active</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A14SW (SE)	239	-	387365 399456
93	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: K M H Printers            Location: Chapter Street, Manchester, Lancashire, M40 2AY            Classification: Printers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A13NW (NW)	250	-	386695 400024
94	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Grace Motor Engineers            Location: Chapter Street, Manchester, Lancashire, M40 2AY            Classification: Commercial Vehicle Servicing, Repairs, Parts &amp; Accessories  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12NE (NW)	254	-	386573 399919
95	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Mont Blanc            Location: Arkady, Unit 2 Briscoe La, Manchester, Lancashire, M40 2XG            Classification: Road Haulage Services  <b>Status: Active</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A13SW (S)	261	-	386928 399433
96	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Azura            Location: Chapter St, Manchester, M40 2AY            Classification: Soft Furnishings - Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12NE (NW)	265	-	386619 399985
97	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: S B Motorbodies (Mc) Ltd            Location: 2a Bower Street, Manchester, Lancashire, M40 2AF            Classification: Garage Services  <b>Status: Active</b>            Positional Accuracy: Manually positioned to the address or location</p>	A18SW (N)	267	-	386879 400086
97	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Nuglaze Panel            Location: Bower St, Manchester, Lancashire, M40 2BH            Classification: PVC-U Products - Manufacturers &amp; Suppliers  <b>Status: Active</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A18SW (N)	270	-	386893 400087
97	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Manchester Drums            Location: Bower Street, Newton Heath, Manchester, M40 2AF            Classification: Drums, Kegs, Barrels &amp; Casks  <b>Status: Active</b>            Positional Accuracy: Automatically positioned in the proximity of the address</p>	A18SW (N)	314	-	386884 400133



## Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
97	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Drummer Boy Trading Co Ltd            Location: Bower Street, Newton Heath, Manchester, M40 2AF            Classification: Drums, Kegs, Barrels &amp; Casks            Status: <b>Inactive</b>            Positional Accuracy: Automatically positioned in the proximity of the address</p>	A18SW (N)	314	-	386884 400133
98	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Anglo European Ltd            Location: 228, Briscoe Lane, Manchester, M40 2XG            Classification: Steel Manufacturers            Status: <b>Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SW (SW)	267	-	386831 399468
98	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Northern Butchers Hide Markets Ltd            Location: 228, Briscoe Lane, Manchester, M40 2XG            Classification: Leather Merchants &amp; Wholesalers            Status: <b>Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SW (SW)	267	-	386831 399468
98	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Anglo European            Location: 228 Briscoe La, Manchester, Lancashire, M40 2XG            Classification: Steel Manufacturers            Status: <b>Active</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13SW (SW)	267	-	386831 399467
99	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Tas Tyres            Location: 239-241, Briscoe Lane, Manchester, M40 2ST            Classification: Tyre Dealers            Status: <b>Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A14NW (E)	280	-	387468 399782
99	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Decorative Designs            Location: 239-241, Briscoe Lane, Manchester, M40 2ST            Classification: Stained Glass Designers &amp; Producers            Status: <b>Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A14NW (E)	280	-	387468 399782
99	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: James Lucas Ltd            Location: 239-241, Briscoe Lane, Manchester, M40 2ST            Classification: Bacon &amp; Ham Curers &amp; Merchants            Status: <b>Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A14NW (E)	280	-	387468 399782
100	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Asaka Computer Systems            Location: Riverpark Rd, Manchester, Lancashire, M40 2XP            Classification: Computer Manufacturers            Status: <b>Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A9NW (SE)	289	-	387352 399384
100	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: David Audley Ltd            Location: Manchester Abattoir, Riverpark Rd, Manchester, M40 2XT            Classification: Pet Foods &amp; Animal Feeds            Status: <b>Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A9NW (SE)	298	-	387369 399384
101	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Nortons Hiab Services Ltd            Location: Norton St, Miles Platting, Manchester, M40 8HD            Classification: Road Haulage Services            Status: <b>Active</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12NE (W)	323	-	386464 399746
102	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Autodeutsch            Location: Providence Works, Norton St, Miles Platting, Manchester, M40 8EH            Classification: Garage Services            Status: <b>Active</b>            Positional Accuracy: Manually positioned to the address or location</p>	A12SE (W)	325	-	386474 399686
102	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Manchester Crane Hire            Location: Norton St, Miles Platting, Manchester, M40 8HD            Classification: Crane Hire, Sales &amp; Service            Status: <b>Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12NE (W)	337	-	386451 399736



## Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
102	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: B S Diesels            Location: Norton St, Miles Platting, Manchester, M40 8HD            Classification: Commercial Vehicle Servicing, Repairs, Parts &amp; Accessories  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12NE (W)	345	-	386444 399732
102	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Audi Only            Location: Providence Works, Norton Street, Miles Platting, Manchester, M40 8EH            Classification: Garage Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned in the proximity of the address</p>	A12SE (W)	349	-	386448 399689
102	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Hanson Aggregates            Location: Norton St, Miles Platting, Manchester, M40 8HD            Classification: Concrete &amp; Mortar Ready Mixed  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SE (W)	364	-	386427 399718
102	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Hanson Aggregates            Location: Norton St, Miles Platting, Manchester, M40 8HD            Classification: Concrete Manufacturers &amp; Distributors  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SE (W)	364	-	386427 399718
102	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Feltham Hydraulics Ltd            Location: Unit 6, Providence Works, Norton St, Miles Platting, Manchester, Lancashire, M40 8EH            Classification: Hydraulic Equipment &amp; Accessories - Sales &amp; Service  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SE (W)	370	-	386421 399714
102	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Central Hydraulics (Manchester) Ltd            Location: Providence Works, Norton Street, Miles Platting, Manchester, M40 8EH            Classification: Hydraulic Engineers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	373	-	386423 399691
102	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Clad-It Eco Roofing Solutions Ltd            Location: Providence Works, Norton St, Miles Platting, Manchester, Lancashire, M40 8EH            Classification: Cladding Suppliers &amp; Installers  <b>Status: Active</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A12SE (W)	373	-	386423 399691
103	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Philips Park Cemetery            Location: Hulme Hall La, Manchester, Lancashire, M40 8HE            Classification: Cemeteries &amp; Crematoria  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A8NW (S)	333	-	386951 399346
104	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Welding Engineers (Mersey) Ltd            Location: Unit 2, Navigation Trading Estate, Bower Street, Newton Heath, Manchester, M40 2AR            Classification: Door Manufacturers - Industrial  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A18SW (N)	347	-	386977 400142
105	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Doug Priestley Transport            Location: Briscoe La, Manchester, Lancashire, M40 2XG            Classification: Road Haulage Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A8NW (SW)	362	-	386826 399366
106	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Norton Services Ltd            Location: Norton Street, Miles Platting, Manchester, M40 8HD            Classification: Freight Forwarders  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12NE (W)	368	-	386419 399814



## Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
106	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: K S L Crane Hire            Location: Norton Street, Miles Platting, Manchester, Lancashire, M40 8HD            Classification: Crane Hire, Sales &amp; Service  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12NE (W)	368	-	386419 399814
107	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Addax Products            Location: 36, Irlam Street, Manchester, M40 2BW            Classification: Stationery Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12NE (NW)	379	-	386490 400017
107	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: European Metal Recycling            Location: Irlam Street, MANCHESTER, M40 2BP            Classification: Recycling Centres  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A12NE (NW)	385	-	386471 400002
108	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Plant &amp; Automation Ltd            Location: Lord North Street, Manchester, M40 8HT            Classification: Tube Bending  <b>Status: Active</b>            Positional Accuracy: Automatically positioned in the proximity of the address</p>	A12SE (W)	379	-	386479 399557
108	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Vintage Wings &amp; Radiators            Location: Lord North Street, Manchester, M40 8HT            Classification: Classic Car Specialists  <b>Status: Active</b>            Positional Accuracy: Automatically positioned in the proximity of the address</p>	A12SE (W)	379	-	386479 399557
108	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Eyres Forgings Ltd            Location: Lord North Street, Manchester, M40 8HT            Classification: Engineers - General  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned in the proximity of the address</p>	A12SE (W)	379	-	386479 399557
109	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Permanoid Ltd            Location: 107, Hulme Hall Lane, Manchester, M40 8HH            Classification: Cable &amp; Wire Equipment Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	381	-	386443 399611
109	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Fixings North West Ltd            Location: 107, Hulme Hall Lane, Manchester, M40 8HH            Classification: Fasteners &amp; Fixing Devices  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	381	-	386443 399611
109	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Permanoid Ltd            Location: 107, Hulme Hall Lane, Manchester, M40 8HH            Classification: Cable &amp; Wire Equipment Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	381	-	386443 399611
110	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Tyco Control Systems Ltd            Location: Wormald Park, Grimshaw Lane, Manchester, M40 2WL            Classification: Automation Systems &amp; Equipment  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A18SW (NW)	383	-	386679 400168
110	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Wormald Fire Systems            Location: Wormald Park, Grimshaw Lane, Manchester, M40 2WL            Classification: Firefighting Equipment  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A18SW (NW)	383	-	386679 400168
111	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Fine Castings Ltd            Location: 800, Oldham Road, Manchester, M40 2AB            Classification: Fireplaces &amp; Mantelpieces  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	416	-	386540 400115



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
112	<b>Contemporary Trade Directory Entries</b> Name: Ensign Location: Ensign Garage, Robert Street, Manchester, M40 2DX Classification: Garage Services <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A18SW (N)	423	-	386792 400242
113	<b>Contemporary Trade Directory Entries</b> Name: Textino Location: Hulme Hall Lane, Manchester, M40 8YD Classification: Cleaning Materials & Equipment <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A12SE (W)	449	-	386354 399654
113	<b>Contemporary Trade Directory Entries</b> Name: Withers & Bolton Location: Hulme Hall Lane, Manchester, M40 8YD Classification: Hardware <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A12SE (W)	449	-	386354 399654
114	<b>Contemporary Trade Directory Entries</b> Name: Tyreworld Location: 704, Oldham Road, Manchester, M40 2AA Classification: Tyre Dealers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned in the proximity of the address	A18SW (NW)	461	-	386676 400252
115	<b>Contemporary Trade Directory Entries</b> Name: Monsal Service Station Location: 571, Oldham Road, Manchester, M40 5AF Classification: Petrol Filling Stations - 24 Hour <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A17SE (NW)	467	-	386495 400145
116	<b>Contemporary Trade Directory Entries</b> Name: United Aluminium Ltd Location: Holt St, Manchester, M40 5AX Classification: Aluminium Fabricators <b>Status: Inactive</b> Positional Accuracy: Manually positioned to the road within the address or location	A18SW (NW)	470	-	386746 400282
116	<b>Contemporary Trade Directory Entries</b> Name: Travis Perkins Trading Co Ltd Location: Holt St, Manchester, Lancashire, M40 5AX Classification: Builders' Merchants <b>Status: Active</b> Positional Accuracy: Manually positioned to the road within the address or location	A18SW (NW)	480	-	386741 400291
117	<b>Contemporary Trade Directory Entries</b> Name: Modern Waste Recycling Ltd Location: Hillbit House, New Street, Manchester, M40 8AW Classification: Recycling Centres <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A12NW (W)	497	-	386308 399919
117	<b>Contemporary Trade Directory Entries</b> Name: Worldwide Waste Management Ltd Location: Unit 1, Hillbit House, New St, Manchester, Lancashire, M40 8AW Classification: Recycling Centres <b>Status: Active</b> Positional Accuracy: Manually positioned within the geographical locality	A12NW (W)	497	-	386308 399919
117	<b>Contemporary Trade Directory Entries</b> Name: Boiler House Supplies Location: Hillbit House, New Street, Manchester, M40 8AW Classification: Boilers - Servicing, Replacements & Repairs <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A12NW (W)	497	-	386308 399919
117	<b>Contemporary Trade Directory Entries</b> Name: Majid Bros Plant Location: Hillbit House, New Street, Manchester, Lancashire, M40 8AW Classification: Machinery - Industrial & Commercial <b>Status: Inactive</b> Positional Accuracy: Manually positioned to the address or location	A12NW (W)	497	-	386308 399919
118	<b>Contemporary Trade Directory Entries</b> Name: Weir Pumps Ltd Location: Park Works, Grimshaw Lane, Manchester, M40 2BA Classification: Engineers - General <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A17SE (NW)	500	-	386591 400254



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
119	<b>Contemporary Trade Directory Entries</b> Name: Jewson Ltd Location: Beckford Street, Manchester, M40 5AJ Classification: Builders' Merchants <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A17SE (NW)	514	-	386373 400086
119	<b>Contemporary Trade Directory Entries</b> Name: Jewson Ltd Location: Beckford Street, MANCHESTER, M40 5AJ Classification: Builders' Merchants <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A17SE (NW)	514	-	386373 400086
119	<b>Contemporary Trade Directory Entries</b> Name: Beckford Street Location: Unit 16, Beckford St, Manchester, M40 5AE Classification: Tyre Dealers <b>Status: Active</b> Positional Accuracy: Manually positioned to the road within the address or location	A17SE (NW)	526	-	386346 400068
119	<b>Contemporary Trade Directory Entries</b> Name: Unit 6 Auto Location: Unit 6, Beckford St, Manchester, M40 5AE Classification: Garage Services <b>Status: Inactive</b> Positional Accuracy: Manually positioned to the road within the address or location	A17SE (NW)	541	-	386338 400084
119	<b>Contemporary Trade Directory Entries</b> Name: Manchester Safety Towers Location: Beckford St, Manchester, M40 5AE Classification: Scaffolding & Work Platforms <b>Status: Inactive</b> Positional Accuracy: Manually positioned to the road within the address or location	A17SE (NW)	543	-	386337 400085
119	<b>Contemporary Trade Directory Entries</b> Name: Manchester Safety Tower Sales Location: 2 Beckford St, Manchester, M40 5AE Classification: Scaffolding & Work Platforms <b>Status: Inactive</b> Positional Accuracy: Manually positioned to the road within the address or location	A17SE (NW)	544	-	386336 400086
120	<b>Contemporary Trade Directory Entries</b> Name: Maxi Haulage Ltd Location: 2, Monsall Road, Manchester, M40 8FZ Classification: Road Haulage Services <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A17SE (NW)	531	-	386635 400311
120	<b>Contemporary Trade Directory Entries</b> Name: Sapphire Garage Location: 1-3, Monsall Road, Manchester, M40 8FZ Classification: Car Body Repairs <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A17SE (NW)	531	-	386635 400311
121	<b>Contemporary Trade Directory Entries</b> Name: J B S Balers Location: 267, Sandal Street, Manchester, M40 7BB Classification: Recycling Services <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A7NE (SW)	533	-	386477 399346
122	<b>Contemporary Trade Directory Entries</b> Name: G J D Fabrications Ltd Location: Unit 3-4, Holt Street, Manchester, Lancashire, M40 5AX Classification: Aluminium Fabricators <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A18SW (N)	536	-	386759 400352
123	<b>Contemporary Trade Directory Entries</b> Name: Saville Whittle Ltd Location: Vickers Street, Manchester, M40 8EF Classification: Chemicals - Distributors & Wholesalers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A12SW (W)	544	-	386292 399549
123	<b>Contemporary Trade Directory Entries</b> Name: T Saville-Whittle Location: Vickers Street, Manchester, M40 8EF Classification: Chemicals - Distributors & Wholesalers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A12SW (W)	544	-	386292 399549



## Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
123	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Heubach (Uk)            Location: Vickers Street, Manchester, M40 8EF            Classification: Chemicals - Distributors &amp; Wholesalers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SW (W)	544	-	386292 399549
124	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Crawford Commercials            Location: 497 A Oldham Rd, Manchester, Lancashire, M40 5AA            Classification: Commercial Vehicle Breakdown &amp; Recovery Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12NW (W)	551	-	386282 400004
125	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Wintan Easy Foods Ltd            Location: Unit 6, Holt Street, MANCHESTER, M40 5AX            Classification: Food Products - Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A18SW (N)	553	-	386806 400374
125	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Howdens            Location: Unit 5, Holt Street, Manchester, M40 5AX            Classification: Builders' Merchants  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A18SW (N)	555	-	386788 400375
125	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: New Road Service Station            Location: Elvey House, 15, Baltimore Street, Manchester, M40 5AL            Classification: Garage Services  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A18NW (N)	590	-	386815 400411
126	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: D C D Co Ltd            Location: 256, Bradford Road, Manchester, M40 7BT            Classification: Meat - Wholesale  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	568	-	386577 399249
127	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Crescent Motors            Location: 17, Beckford Street, Manchester, M40 5AE            Classification: Garage Services  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	575	-	386342 400145
128	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Johnson &amp; Scott            Location: 497 Oldham Rd, Manchester, M40 5AA            Classification: Air Conditioning &amp; Refrigeration Contractors  <b>Status: Active</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12NW (W)	585	-	386236 399980
128	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Johnson &amp; Scott Refrigeration            Location: 497 Oldham Rd, Manchester, M40 5AA            Classification: Refrigeration Equipment - Commercial  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12NW (W)	586	-	386235 399980
129	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Grahams            Location: Vickers St, Manchester, Lancashire, M40 8PU            Classification: Packaging Materials Manufacturers &amp; Suppliers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A12SW (W)	591	-	386225 399590
129	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Duo Plastics Ltd            Location: Vickers Street, Manchester, M40 8PU            Classification: Polythene &amp; Plastic Sheeting Supplies  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SW (W)	592	-	386225 399590
130	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: The Boggart Brewery            Location: Unit 7, Wilsons Park, Monsall Road, Manchester, M40 8WN            Classification: Brewers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	602	-	386452 400282



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Honour Freight Solutions Ltd            Location: Wilsons Pk, Monsall Rd, Manchester, Lancashire, M40 8WN            Classification: Freight Forwarders  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A17SE (NW)	614	-	386461 400304
130	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Durham Duplex            Location: Wilsons Pk, Monsall Rd, Manchester, Lancashire, M40 8WN            Classification: Tool Sharpening, Repairing &amp; Servicing  <b>Status: Active</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A17SE (NW)	632	-	386421 400296
131	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: S L J            Location: Monsall Rd, Manchester, Lancashire, M40 8WT            Classification: Engineers - General  <b>Status: Active</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A17SE (NW)	604	-	386560 400356
131	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: High Access Cleaning &amp; Maintenance Ltd            Location: Unit 3, Ansa House, 7 Monsall Rd, Manchester, Lancashire, M40 8FY            Classification: Cleaning Materials &amp; Equipment  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A17SE (NW)	612	-	386557 400364
131	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Prestige Autos            Location: Wilsons House, Wilsons Park, Monsall Road, Manchester, Lancashire, M40 8WN            Classification: Car Dealers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A17SE (NW)	652	-	386533 400396
131	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Tresu            Location: Unit 1, Wilsons Park, Monsall Road, Manchester, Lancashire, M40 8WN            Classification: Printers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A17SE (NW)	652	-	386533 400396
131	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Data Design &amp; Assembly Services            Location: Unit 1-4a, Wilsons Park, Monsall Road, Manchester, Lancashire, M40 8WN            Classification: Electronic Engineers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A17SE (NW)	652	-	386533 400396
132	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Hadfields Ltd            Location: Harden Works, Oldham Road, Manchester, M40 8AG            Classification: Road Haulage Services  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A12NW (W)	617	-	386186 399923
132	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: T P Metcalfe            Location: Harden Works, Oldham Road, Manchester, Lancashire, M40 8AG            Classification: Commercial Vehicle Servicing, Repairs, Parts &amp; Accessories  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A12NW (W)	617	-	386186 399923
133	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Multiblend Chemicals Ltd            Location: 495, Oldham Road, Manchester, M40 5AA            Classification: Chemicals &amp; Allied Products  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A17SW (NW)	621	-	386242 400080
134	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: The Electricity Advisory Centre            Location: Monsall Rd, Wilsons Pk, Manchester, Lancashire, M40 8WN            Classification: Electricity Companies  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A17SE (NW)	622	-	386510 400348



## Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
134	<b>Contemporary Trade Directory Entries</b> Name: Power To Light Location: Unit 10f, Wilsons Park, Monsall Road, MANCHESTER, M40 8WN Classification: Electronic Equipment - Manufacturers & Assemblers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A17SE (NW)	643	-	386466 400344
134	<b>Contemporary Trade Directory Entries</b> Name: Data Design Location: Unit 10G, Wilsons Park, Monsall Road, Manchester, Lancashire, M40 8WN Classification: Electronic Equipment - Manufacturers & Assemblers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A17SE (NW)	643	-	386466 400344
134	<b>Contemporary Trade Directory Entries</b> Name: Abbey R X Location: Unit 10a, Wilsons Park, Monsall Road, Manchester, M40 8WN Classification: Optical Goods - Manufacturers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A17SE (NW)	643	-	386466 400344
135	<b>Contemporary Trade Directory Entries</b> Name: Mrs Mops Location: 17, Elstree Avenue, Manchester, M40 2UL Classification: Cleaning Services - Domestic <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A14NE (E)	637	-	387819 399865
136	<b>Contemporary Trade Directory Entries</b> Name: Kurt Lachenmeier (Uk) Ltd Location: Monsall Road, Manchester, M40 8PA Classification: Packaging & Wrapping Equipment & Supplies <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A17NE (NW)	643	-	386643 400434
136	<b>Contemporary Trade Directory Entries</b> Name: John Smith Ltd Location: Monsall Road, Manchester, M40 8PA Classification: Brewers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A17NE (NW)	643	-	386643 400434
137	<b>Contemporary Trade Directory Entries</b> Name: Draf Engineering Services Ltd Location: Unit 12c, Wilsons Park, Monsall Road, MANCHESTER, M40 8WN Classification: Pumps - Sales, Servicing & Repairs <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A17SE (NW)	658	-	386411 400321
137	<b>Contemporary Trade Directory Entries</b> Name: M & G Location: Unit 11B, Wilsons Park, Monsall Road, Manchester, M40 8WN Classification: Mot Testing Centres <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A17SE (NW)	659	-	386436 400341
138	<b>Contemporary Trade Directory Entries</b> Name: Sapphire Garage Location: Unit 1 2 3, Monsall Rd, Manchester, Lancashire, M40 8FZ Classification: Car Body Repairs <b>Status: Inactive</b> Positional Accuracy: Manually positioned within the geographical locality	A17SE (NW)	658	-	386514 400392
139	<b>Contemporary Trade Directory Entries</b> Name: Lennox Industries Location: Unit 22, Wilsons Pk, Monsall Rd, Manchester, Lancashire, M40 8WN Classification: Heating Equipment - Sales & Service <b>Status: Inactive</b> Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	676	-	386357 400302
140	<b>Contemporary Trade Directory Entries</b> Name: F Dunn & Sons Location: 222, Bradford Road, Manchester, M40 7BT Classification: Garage Services <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A7NE (SW)	712	-	386447 399153
141	<b>Contemporary Trade Directory Entries</b> Name: Degussa Ltd Location: Manox House, Coleshill Street, MANCHESTER, M40 7AA Classification: Chemicals & Allied Products <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A7NW (SW)	727	-	386181 399375



## Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
142	<b>Contemporary Trade Directory Entries</b> Name: Furnitrix Location: Unit 4, Dale House, Vickers Street, Manchester, M40 8EF Classification: Furniture Manufacturers - Home & Office <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A12SW (W)	745	-	386097 399495
142	<b>Contemporary Trade Directory Entries</b> Name: Evans Print Ltd Location: Unit 1, Dale House, Vickers Street, Manchester, M40 8EF Classification: T-Shirts <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A12SW (W)	745	-	386097 399495
142	<b>Contemporary Trade Directory Entries</b> Name: Bitz & Pieces Location: Unit 24, Dale House, Vickers Street, Manchester, M40 8EF Classification: Textile Manufacturing <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A12SW (W)	745	-	386097 399495
142	<b>Contemporary Trade Directory Entries</b> Name: G H Plastics Ltd Location: Unit 8, Vickers Street, Manchester, M40 8EF Classification: Polythene & Plastic Sheeting Supplies <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A12SW (W)	745	-	386097 399495
142	<b>Contemporary Trade Directory Entries</b> Name: W T Matthews Location: Unit 3, Dale House, Vickers Street, Manchester, M40 8EF Classification: Clothing & Fabrics - Manufacturers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A12SW (W)	745	-	386097 399495
142	<b>Contemporary Trade Directory Entries</b> Name: S & A Motors Location: Unit 5, Dale House, Vickers Street, Manchester, M40 8EF Classification: Garage Services <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A12SW (W)	745	-	386097 399495
142	<b>Contemporary Trade Directory Entries</b> Name: S A S Recovery Location: Unit 2, Dale House, Vickers Street, Manchester, M40 8EF Classification: Car Breakdown & Recovery Services <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A12SW (W)	745	-	386097 399495
143	<b>Contemporary Trade Directory Entries</b> Name: R Mobile Mechanic Location: 19, Lifton Avenue, Manchester, M40 8DD Classification: Garage Services <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A12SW (W)	759	-	386029 399713
144	<b>Contemporary Trade Directory Entries</b> Name: Sunde Technologies Ltd Location: Thorp Rd, Manchester, Lancashire, M40 5BJ Classification: Computer Manufacturers <b>Status: Active</b> Positional Accuracy: Manually positioned within the geographical locality	A18NE (N)	793	-	387140 400557
145	<b>Contemporary Trade Directory Entries</b> Name: Prescotts Transport Location: Briscoe Lane, Manchester, M40 2TX Classification: Road Haulage Services <b>Status: Inactive</b> Positional Accuracy: Automatically positioned in the proximity of the address	A19SE (NE)	802	-	387879 400111
146	<b>Contemporary Trade Directory Entries</b> Name: Sheridan Knitwear Location: Ground Floor, 371, Oldham Road, Manchester, M40 8EA Classification: Clothing & Fabrics - Manufacturers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A11NE (W)	814	-	385977 399882
147	<b>Contemporary Trade Directory Entries</b> Name: Uk Basements Ltd Location: 24, Kerswell Walk, Manchester, Lancashire, M40 2AH Classification: Damp & Dry Rot Control <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A19NW (NE)	857	-	387437 400501



## Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
148	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Robin Mills            Location: Amalex House, 182 Bradford Rd, Manchester, M40 7BE            Classification: Textile Manufacturing  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A7NW (SW)	862	-	386294 399071
148	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Ktec            Location: 146, Bradford Road, Manchester, M40 7AS            Classification: Joinery Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SW (SW)	910	-	386274 399027
149	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: A 2 Z Freight Services            Location: Unit 77, Cariocca Business Pk, Sawley Rd, Miles Platting, Manchester, Lancashire, M40 8BB            Classification: Freight Forwarders  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A11SE (W)	864	-	385983 399458
149	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Oilpro Uk Ltd            Location: Unit 105, Cariocca Business Pk, Sawley Rd, Miles Platting, Manchester, Lancashire, M40 8BB            Classification: Garage Equipment  <b>Status: Active</b>            Positional Accuracy: Manually positioned to the address or location</p>	A11SE (W)	867	-	385981 399456
149	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: N S Medical Systems            Location: Unit 96, Cariocca Business Pk, Sawley Rd, Miles Platting, Manchester, Lancashire, M40 8BB            Classification: Medical Equipment Maintenance &amp; Repairs  <b>Status: Active</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A11SE (W)	870	-	385979 399452
149	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: G S F Contract Cleaning            Location: Unit 4, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB            Classification: Commercial Cleaning Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A11SE (W)	870	-	385979 399452
149	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Regional Electricity Advisory Centre            Location: Unit 53, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB            Classification: Electricity Companies  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A11SE (W)	870	-	385979 399452
149	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Global Electrical &amp; Communications Ltd            Location: Unit 45, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB            Classification: Telecommunications Equipment &amp; Systems  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A11SE (W)	870	-	385979 399452
149	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Model System Solutions            Location: Cariocca Business Pk, Sawley Rd, Miles Platting, Manchester, Lancashire, M40 8BB            Classification: Engineering Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A11SE (W)	870	-	385979 399452
149	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: C E N Bottling Co Ltd            Location: Unit 65, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, Lancashire, M40 8BB            Classification: Soft Drinks - Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A11SE (W)	870	-	385979 399452



## Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
149	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Classic Knitwear Ltd            Location: Unit 31, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, Lancashire, M40 8BB            Classification: Knitwear Manufacturers &amp; Wholesalers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A11SE (W)	870	-	385979 399452
149	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Vianlee Ltd            Location: Unit 29, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB            Classification: Commercial Cleaning Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A11SE (W)	870	-	385979 399452
149	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Apple Enterprise International            Location: Unit 71, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB            Classification: Electrical Goods Sales, Manufacturers &amp; Wholesalers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A11SE (W)	870	-	385979 399452
149	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Smart Puls            Location: Unit 39, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB            Classification: Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A11SE (W)	870	-	385979 399452
149	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: D S M Enterprise            Location: Unit 28, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB            Classification: Electrical Goods Sales, Manufacturers &amp; Wholesalers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A11SE (W)	870	-	385979 399452
149	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Ultrade            Location: Unit 39, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB            Classification: Electrolysis  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A11SE (W)	870	-	385979 399452
149	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Jk Cars            Location: Unit 34, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, Lancashire, M40 8BB            Classification: Car Dealers - Used  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A11SE (W)	870	-	385979 399452
149	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Flirtatious Lingerie            Location: Cariocca Business Pk, Sawley Rd, Miles Platting, Manchester, Lancashire, M40 8BB            Classification: Lingerie &amp; Hosiery Manufacturers &amp; Wholesalers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A11SE (W)	870	-	385979 399452
149	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Klyvinnd            Location: Unit 59, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB            Classification: Commercial Cleaning Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A11SE (W)	870	-	385979 399452
149	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Bioeurope            Location: Unit 64, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB            Classification: Pharmaceutical Manufacturers &amp; Distributors  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A11SE (W)	870	-	385979 399452



## Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
150	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Karpelle Ltd            Location: Unit 1, Varley Business Centre, James Street, Manchester, M40 8EL            Classification: Clothing &amp; Fabrics - Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A11SE (W)	890	-	385986 399387
151	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Sinter Studio            Location: One Central Park, Northampton Rd, Manchester, Lancashire, M40 5BP            Classification: Tile Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A23SW (N)	930	-	386779 400750
152	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Specialised Transmission Services            Location: Unit 1 Worrall St, Newton Heath, Manchester, M40 2ED            Classification: Garage Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A19NW (NE)	944	-	387416 400604
153	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Van Parts Ltd            Location: Thorp Mill, Thorp Rd, Manchester, Lancashire, M40 5BL            Classification: PVC-U Products - Manufacturers &amp; Suppliers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A18NE (N)	972	-	387224 400716
153	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Orion Upholstery            Location: Thorp Rd, Manchester, Lancashire, M40 5BJ            Classification: Upholstery Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A18NE (N)	978	-	387216 400726
154	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Briscoe Lane Petrol Services            Location: 86-90, Briscoe Lane, Manchester, M40 2TH            Classification: Petrol Filling Stations - 24 Hour  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A20SW (NE)	982	-	388016 400228
154	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Briscoe Lane Service Station            Location: 86-90, Briscoe Lane, Manchester, M40 2TH            Classification: Petrol Filling Stations - 24 Hour  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	984	-	388008 400242
155	<p><b>Fuel Station Entries</b></p> <p>Name: Shell Oldham Road            Location: 571, Oldham Road, Manchester, M40 5AF            Brand: Shell            Premises Type: Petrol Station  <b>Status: Open</b>            Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	467	-	386495 400145
156	<p><b>Fuel Station Entries</b></p> <p>Name: Asda Eastlands            Location: Alan Turing Way, Bradford, Manchester, Lancashire, M11 4BD            Brand: Asda            Premises Type: Hypermarket  <b>Status: Open</b>            Positional Accuracy: Manually positioned to the address or location</p>	A3NE (S)	974	-	387132 398653
157	<p><b>Fuel Station Entries</b></p> <p>Name: Briscoe Lane Service Station            Location: 86, Briscoe Lane, Mitchell Street, Newton Heath, Manchester, Lancashire, M40 2th            Brand: Unbranded            Premises Type: Petrol Station  <b>Status: Open</b>            Positional Accuracy: Manually positioned to the address or location</p>	A19SE (NE)	984	-	388008 400242



## Sensitive Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
158	<b>Areas of Adopted Green Belt</b> Authority: Manchester City Council Plan Name: Proposals Map Status: <b>Adopted</b> Plan Date: 11th July 2012	A14SE (E)	594	8	387806 399545
159	<b>Local Nature Reserves</b> Name: Clayton Vale Multiple Area: N Area (m2): 525664.64 Source: Natural England Designation Date: 26th July 2006	A9NW (SE)	585	9	387518 399111
160	<b>Nitrate Vulnerable Zones</b> Name: Not Supplied Description: NVZ Area Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A17NE (NW)	664	10	386552 400420
161	<b>Nitrate Vulnerable Zones</b> Name: Not Supplied Description: NVZ Area Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A11NE (W)	863	10	385951 400000



Agency & Hydrological	Version	Update Cycle
<b>Contaminated Land Register Entries and Notices</b> Stockport Metropolitan Borough Council - Environment Team (Land & Water) Manchester City Council - Environmental Health Department Oldham Metropolitan Borough Council - Environmental Health Department Tameside Metropolitan Borough Council - Environmental Health Department Salford City Council - Environmental Health Department Trafford Metropolitan Borough Council - Renewal and Environmental Protection Bury Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department	February 2013 July 2013 June 2012 May 2013 October 2012 October 2012 September 2012 September 2012	Annual Rolling Update Annual Rolling Update
<b>Discharge Consents</b> Environment Agency - North West Region	July 2013	Quarterly
<b>Enforcement and Prohibition Notices</b> Environment Agency - North West Region	March 2013	Quarterly
<b>Integrated Pollution Controls</b> Environment Agency - North West Region	October 2008	Not Applicable
<b>Integrated Pollution Prevention And Control</b> Environment Agency - North West Region	July 2013	Quarterly
<b>Local Authority Integrated Pollution Prevention And Control</b> Bury Metropolitan Borough Council - Environmental Health Department Salford City Council - Environmental Health Department Manchester City Council - Environmental Health Department Tameside Metropolitan Borough Council - Environmental Health Department Trafford Metropolitan Borough Council - Environmental Health Department Oldham Metropolitan Borough Council - Environmental Health Department Stockport Metropolitan Borough Council - Environmental Health Department, EEDD Rochdale Metropolitan Borough Council - Environmental Health Department	April 2013 August 2012 February 2013 February 2013 January 2013 June 2012 March 2013 October 2012	Annual Rolling Update Annual Rolling Update
<b>Local Authority Pollution Prevention and Controls</b> Bury Metropolitan Borough Council - Environmental Health Department Salford City Council - Environmental Health Department Manchester City Council - Environmental Health Department Tameside Metropolitan Borough Council - Environmental Health Department Trafford Metropolitan Borough Council - Environmental Health Department Oldham Metropolitan Borough Council - Environmental Health Department Stockport Metropolitan Borough Council - Environmental Health Department, EEDD Rochdale Metropolitan Borough Council - Environmental Health Department	April 2013 August 2012 February 2013 February 2013 January 2013 June 2012 March 2013 October 2012	Annual Rolling Update Annual Rolling Update
<b>Local Authority Pollution Prevention and Control Enforcements</b> Bury Metropolitan Borough Council - Environmental Health Department Salford City Council - Environmental Health Department Manchester City Council - Environmental Health Department Tameside Metropolitan Borough Council - Environmental Health Department Trafford Metropolitan Borough Council - Environmental Health Department Oldham Metropolitan Borough Council - Environmental Health Department Stockport Metropolitan Borough Council - Environmental Health Department, EEDD Rochdale Metropolitan Borough Council - Environmental Health Department	April 2013 August 2012 February 2013 February 2013 January 2013 June 2012 March 2013 October 2012	Annual Rolling Update Annual Rolling Update
<b>Nearest Surface Water Feature</b> Ordnance Survey	July 2012	Quarterly
<b>Pollution Incidents to Controlled Waters</b> Environment Agency - North West Region	January 2000	Not Applicable
<b>Prosecutions Relating to Authorised Processes</b> Environment Agency - North West Region	March 2013	Quarterly
<b>Prosecutions Relating to Controlled Waters</b> Environment Agency - North West Region	March 2013	Quarterly
<b>Registered Radioactive Substances</b> Environment Agency - North West Region	July 2013	Quarterly



Agency & Hydrological	Version	Update Cycle
<b>River Quality</b> Environment Agency - Head Office	November 2001	Not Applicable
<b>River Quality Biology Sampling Points</b> Environment Agency - Head Office	July 2012	Annually
<b>River Quality Chemistry Sampling Points</b> Environment Agency - Head Office	July 2012	Annually
<b>Substantiated Pollution Incident Register</b> Environment Agency - North West Region - South Area	July 2013	Quarterly
<b>Water Abstractions</b> Environment Agency - North West Region	July 2013	Quarterly
<b>Water Industry Act Referrals</b> Environment Agency - North West Region	July 2013	Quarterly
<b>Groundwater Vulnerability</b> Environment Agency - Head Office	January 2011	Not Applicable
<b>Drift Deposits</b> Environment Agency - Head Office	January 1999	Not Applicable
<b>Bedrock Aquifer Designations</b> British Geological Survey - National Geoscience Information Service	October 2012	Annually
<b>Superficial Aquifer Designations</b> British Geological Survey - National Geoscience Information Service	October 2012	Annually
<b>Source Protection Zones</b> Environment Agency - Head Office	July 2013	Quarterly
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	April 2013	Quarterly
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	April 2013	Quarterly
<b>Areas Benefiting from Flood Defences</b> Environment Agency - Head Office	April 2013	Quarterly
<b>Flood Water Storage Areas</b> Environment Agency - Head Office	April 2013	Quarterly
<b>Flood Defences</b> Environment Agency - Head Office	April 2013	Quarterly



Waste	Version	Update Cycle
<b>BGS Recorded Landfill Sites</b> British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
<b>Historical Landfill Sites</b> Environment Agency - North West Region - South Area	July 2013	Quarterly
<b>Integrated Pollution Control Registered Waste Sites</b> Environment Agency - North West Region	October 2008	Not Applicable
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Environment Agency - North West Region - South Area	July 2013	Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Environment Agency - North West Region - South Area	April 2013	Quarterly
<b>Local Authority Landfill Coverage</b> Bury Metropolitan Borough Council Manchester City Council - Planning Department Oldham Metropolitan Borough Council Rochdale Metropolitan Borough Council - Environmental Health Department Salford City Council - Environmental Health Department Stockport Metropolitan Borough Council - Environmental Health Department, EEDD Tameside Metropolitan Borough Council Trafford Metropolitan Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
<b>Local Authority Recorded Landfill Sites</b> Bury Metropolitan Borough Council Manchester City Council - Planning Department Oldham Metropolitan Borough Council Rochdale Metropolitan Borough Council - Environmental Health Department Salford City Council - Environmental Health Department Stockport Metropolitan Borough Council - Environmental Health Department, EEDD Tameside Metropolitan Borough Council Trafford Metropolitan Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
<b>Registered Landfill Sites</b> Environment Agency - North West Region - South Area	March 2003	Not Applicable
<b>Registered Waste Transfer Sites</b> Environment Agency - North West Region - South Area	March 2003	Not Applicable
<b>Registered Waste Treatment or Disposal Sites</b> Environment Agency - North West Region - South Area	March 2003	Not Applicable



Hazardous Substances	Version	Update Cycle
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	March 2013	Bi-Annually
<b>Explosive Sites</b> Health and Safety Executive	March 2013	Bi-Annually
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	November 2000	Not Applicable
<b>Planning Hazardous Substance Enforcements</b> Bury Metropolitan Borough Council Manchester City Council - Planning Department Salford City Council Oldham Metropolitan Borough Council Stockport Metropolitan Borough Council - Environment and Economic Development Trafford Metropolitan Borough Council Rochdale Metropolitan Borough Council Tameside Metropolitan Borough Council - Planning and Building Control	August 2012 December 2012 December 2012 July 2013 March 2013 March 2013 November 2012 November 2012	Annual Rolling Update Annual Rolling Update
<b>Planning Hazardous Substance Consents</b> Bury Metropolitan Borough Council Manchester City Council - Planning Department Salford City Council Oldham Metropolitan Borough Council Stockport Metropolitan Borough Council - Environment and Economic Development Trafford Metropolitan Borough Council Rochdale Metropolitan Borough Council Tameside Metropolitan Borough Council - Planning and Building Control	August 2012 December 2012 December 2012 July 2013 March 2013 March 2013 November 2012 November 2012	Annual Rolling Update Annual Rolling Update



<b>Geological</b>	<b>Version</b>	<b>Update Cycle</b>
<b>BGS 1:625,000 Solid Geology</b> British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
<b>BGS Estimated Soil Chemistry</b> British Geological Survey - National Geoscience Information Service	January 2010	Variable
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	April 2013	Bi-Annually
<b>BGS Urban Soil Chemistry</b> British Geological Survey - National Geoscience Information Service	June 2011	Variable
<b>BGS Urban Soil Chemistry Averages</b> British Geological Survey - National Geoscience Information Service	June 2011	Variable
<b>Brine Compensation Area</b> Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
<b>Coal Mining Affected Areas</b> The Coal Authority - Mining Report Service	January 2012	As notified
<b>Mining Instability</b> Ove Arup & Partners	October 2000	Not Applicable
<b>Non Coal Mining Areas of Great Britain</b> British Geological Survey - National Geoscience Information Service	February 2011	Not Applicable
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Radon Potential - Radon Affected Areas</b> British Geological Survey - National Geoscience Information Service	July 2011	As notified
<b>Radon Potential - Radon Protection Measures</b> British Geological Survey - National Geoscience Information Service	July 2011	As notified
<b>Industrial Land Use</b>	<b>Version</b>	<b>Update Cycle</b>
<b>Contemporary Trade Directory Entries</b> Thomson Directories	May 2013	Quarterly
<b>Fuel Station Entries</b> Catalist Ltd - Experian	May 2013	Quarterly



Sensitive Land Use	Version	Update Cycle
<b>Areas of Adopted Green Belt</b> Bury Metropolitan Borough Council Manchester City Council Oldham Metropolitan Borough Council Rochdale Metropolitan Borough Council Salford City Council Stockport Metropolitan Borough Council Tameside Metropolitan Borough Council Trafford Metropolitan Borough Council	August 2013 August 2013 August 2013 August 2013 August 2013 August 2013 August 2013 August 2013	As notified As notified As notified As notified As notified As notified As notified As notified
<b>Areas of Unadopted Green Belt</b> Bury Metropolitan Borough Council Manchester City Council Oldham Metropolitan Borough Council Rochdale Metropolitan Borough Council Salford City Council Stockport Metropolitan Borough Council Tameside Metropolitan Borough Council Trafford Metropolitan Borough Council	August 2013 August 2013 August 2013 August 2013 August 2013 August 2013 August 2013 August 2013	As notified As notified As notified As notified As notified As notified As notified As notified
<b>Areas of Outstanding Natural Beauty</b> Natural England	July 2013	Bi-Annually
<b>Environmentally Sensitive Areas</b> Natural England	July 2013	Annually
<b>Forest Parks</b> Forestry Commission	April 1997	Not Applicable
<b>Local Nature Reserves</b> Natural England	July 2013	Bi-Annually
<b>Marine Nature Reserves</b> Natural England	July 2013	Bi-Annually
<b>National Nature Reserves</b> Natural England	July 2013	Bi-Annually
<b>National Parks</b> Natural England	July 2013	Bi-Annually
<b>Nitrate Sensitive Areas</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
<b>Nitrate Vulnerable Zones</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2013	Annually
<b>Ramsar Sites</b> Natural England	July 2013	Bi-Annually
<b>Sites of Special Scientific Interest</b> Natural England	July 2013	Bi-Annually
<b>Special Areas of Conservation</b> Natural England	July 2013	Bi-Annually
<b>Special Protection Areas</b> Natural England	July 2013	Bi-Annually



## Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 <p><b>British Geological Survey</b> NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
Centre for Ecology and Hydrology	 <p><b>Centre for Ecology &amp; Hydrology</b> NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
Countryside Council for Wales	 <p>CYNGOR CEFN GWLAD CYMRU COUNTRYSIDE COUNCIL FOR WALES</p>
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	



Contact	Name and Address	Contact Details
1	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
2	<b>Manchester City Council - Environmental Health Department</b> PO Box 463, Town Hall Extension, Albert Square, Manchester, Greater Manchester, M60 3NY	Telephone: 0161 234 4884 / 234 4873. Fax: 0161 234 4508 Website: www.manchester.gov.uk
3	<b>British Geological Survey - Enquiry Service</b> British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
4	<b>Health and Safety Executive</b> Explosives Inspectorate, 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
5	<b>Manchester City Council - Planning Department</b> Town Hall, Manchester, Greater Manchester, M60 2LA	Telephone: 0161 234 5000 Fax: 0161 234 4508 Website: www.manchester.gov.uk
6	<b>Landmark Information Group Limited</b> Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmark.co.uk Website: www.landmarkinfo.co.uk
7	<b>The Coal Authority - Mining Report Service</b> 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0845 7626848 Email: thecoalauthority@coal.gov.uk
8	<b>Manchester City Council</b> Town Hall, Albert Square, Manchester, Greater Manchester, M60 2JT	Telephone: 0161 234 5000 Fax: 0161 234 4508 Website: www.manchester.gov.uk
9	<b>Natural England</b> Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
10	<b>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)</b> Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
-	<b>Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b> Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	<b>Landmark Information Group Limited</b> Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / SEPA have a charging policy in place for enquiries.



## **Appendix C – Historical Plans**

# Historical Mapping Legends

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

**Quarry**   **Gravel Pit**   **Sand Pit**  
**Clay Pit**   **Shingle**   **Refuse Heap**  
**Sloping Masonry**   **Flat Rock**  
**Marsh**   **Reeds**   **Osiers**  
**Rough Pasture**   **Furze**   **Wood**  
**Mixed Wood**   **Brushwood**   **Orchard**  
**Fir**   **Ford**   **Stepping Stones**  
**Ferry**   **Waterfall**   **Lock**  
**Trig. Station**   **Altitude at Trig. Station**  
**B.M. 325.9**   **Bench Mark**   **Surface Level**  
**Arrow denotes flow of water**   **Antiquities (site of)**  
**Cutting**   **Embankment**  
**Railway crossing Road**   **Level Crossing**   **Road crossing Railway**  
**Railway crossing River or Canal**   **Road over single stream**   **Road over River or Canal**  
**County Boundary (Geographical)**  
**County & Civil Parish Boundary**  
**Administrative County & Civil Parish Boundary**  
**County Borough Boundary (England)**  
**County Burgh Boundary (Scotland)**  
**Co. Boro. Bdy.**  
**Co. Burgh Bdy.**  
**BP BS** Boundary Post or Stone   **P.C.B** Police Call Box  
**B.R.** Bridle Road   **P** Pump  
**E.P** Electricity Pylon   **S.P** Signal Post  
**F.B.** Foot Bridge   **SL** Sluice  
**F.P.** Foot Path   **Sp.** Spring  
**G.P** Guide Post or Board   **T.C.B** Telephone Call Box  
**M.S** Mile Stone   **Tr.** Trough  
**M.P M.R** Mooring Post or Ring   **W** Well

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

**Inactive Quarry, Chalk Pit or Clay Pit**   **Active Quarry, Chalk Pit or Clay Pit**  
**Rock**   **Boulders**  
**Cliff**   **Slopes**   **Top**  
**Roofed Building**   **Glazed Roof Building**  
**Sloping Masonry**   **Archway**  
**Non-Coniferous Tree (surveyed)**   **Coniferous Tree (surveyed)**  
**Non-Coniferous Trees (not surveyed)**   **Coniferous Trees (not surveyed)**  
**Orchard Tree**   **Scrub**   **Bracken**  
**Coppice, Osier**   **Reeds**   **Marsh, Saltings**  
**Rough Grassland**   **Heath**   **Culvert**  
**Direction of water flow**   **Bench Mark**   **Antiquity (site of)**  
**Cave Entrance**   **Triangulation Station**   **Electricity Pylon**  
**Electricity Transmission Line**  
**County Boundary (Geographical)**  
**County & Civil Parish Boundary**  
**Civil Parish Boundary**  
**Admin. County or County Bor. Boundary**  
**London Borough Boundary**  
**Symbol marking point where boundary mereing changes**  
**BH** Beer House   **P** Pillar, Pole or Post  
**BP, BS** Boundary Post or Stone   **PO** Post Office  
**Cn, C** Capstan, Crane   **PC** Public Convenience  
**Chy** Chimney   **PH** Public House  
**D Fn** Drinking Fountain   **Pp** Pump  
**EI P** Electricity Pillar or Post   **SB, S Br** Signal Box or Bridge  
**FAP** Fire Alarm Pillar   **SP, SL** Signal Post or Light  
**FB** Foot Bridge   **Spr** Spring  
**GP** Guide Post   **Tk** Tank or Track  
**H** Hydrant or Hydraulic   **TCB** Telephone Call Box  
**LC** Level Crossing   **TCP** Telephone Call Post  
**MH** Manhole   **Tr** Trough  
**MP** Mile Post or Mooring Post   **Wr Pt, Wr T** Water Point, Water Tap  
**MS** Mile Stone   **W** Well  
**NTL** Normal Tidal Limit   **Wd Pp** Wind Pump

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

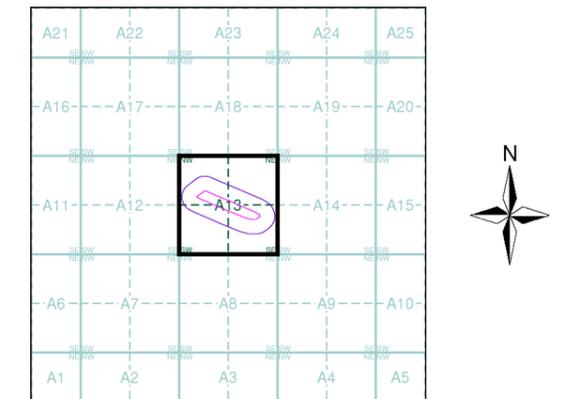
**Cliff**   **Slopes**   **Top**  
**Rock**   **Rock (scattered)**  
**Boulders**   **Boulders (scattered)**  
**Positioned Boulder**   **Scree**  
**Non-Coniferous Tree (surveyed)**   **Coniferous Tree (surveyed)**  
**Non-Coniferous Trees (not surveyed)**   **Coniferous Trees (not surveyed)**  
**Orchard Tree**   **Scrub**   **Bracken**  
**Coppice, Osier**   **Reeds**   **Marsh, Saltings**  
**Rough Grassland**   **Heath**   **Culvert**  
**Direction of water flow**   **Triangulation Station**   **Antiquity (site of)**  
**Electricity Transmission Line**   **Electricity Pylon**  
**B.M. 231.60m** Bench Mark   **Buildings with Building Seed**  
**Roofed Building**   **Glazed Roof Building**  
**Civil parish/community boundary**  
**District boundary**  
**County boundary**  
**Boundary post/stone**  
**Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)**  
**Bks** Barracks   **P** Pillar, Pole or Post  
**Bty** Battery   **PO** Post Office  
**Cemy** Cemetery   **PC** Public Convenience  
**Chy** Chimney   **Pp** Pump  
**Cis** Cistern   **Ppg Sta** Pumping Station  
**Dismtd Rly** Dismantled Railway   **PW** Place of Worship  
**EI Gen Sta** Electricity Generating Station   **Sewage Ppg Sta** Sewage Pumping Station  
**EI P** Electricity Pole, Pillar   **SB, S Br** Signal Box or Bridge  
**EI Sub Sta** Electricity Sub Station   **SP, SL** Signal Post or Light  
**FB** Filter Bed   **Spr** Spring  
**Fn / D Fn** Fountain / Drinking Ftn.   **Tk** Tank or Track  
**Gas Gov** Gas Valve Compound   **Tr** Trough  
**GVC** Gas Governor   **Wd Pp** Wind Pump  
**GP** Guide Post   **Wr Pt, Wr T** Water Point, Water Tap  
**MH** Manhole   **Wks** Works (building or area)  
**MP, MS** Mile Post or Mile Stone   **W** Well



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1908	3
Lancashire And Furness	1:2,500	1922	4
Ordnance Survey Plan	1:1,250	1948 - 1951	5
Ordnance Survey Plan	1:2,500	1951	6
Ordnance Survey Plan	1:1,250	1953 - 1971	7
Ordnance Survey Plan	1:2,500	1970	8
Supply of Unpublished Survey Information	1:1,250	1975	9
Additional SIMs	1:1,250	1979 - 1991	10
Additional SIMs	1:1,250	1986 - 1991	11
Ordnance Survey Plan	1:1,250	1990	12
Large-Scale National Grid Data	1:1,250	1992	13
Large-Scale National Grid Data	1:1,250	1993 - 1995	14
Large-Scale National Grid Data	1:1,250	1993 - 1995	15

## Historical Map - Segment A13



## Order Details

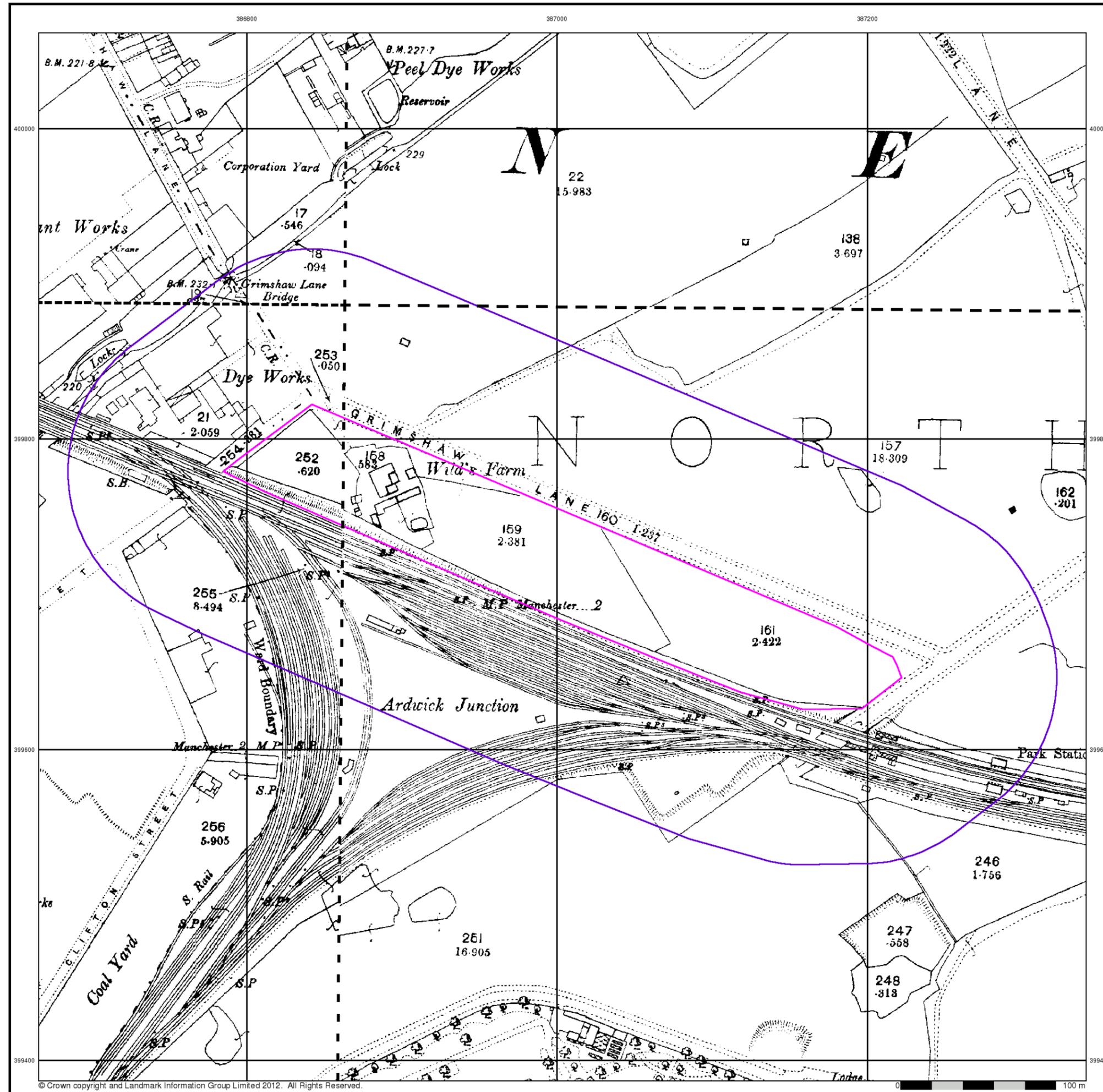
**Order Number:** 48456150\_1\_1  
**Customer Ref:** A083215 Plot 1  
**National Grid Reference:** 387000, 399720  
**Slice:** A  
**Site Area (Ha):** 2.67  
**Search Buffer (m):** 100

## Site Details

Plot 1, Grimshaw Lane, Newton Heath, Manchester



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



**Lancashire And Furness**

**Published 1893**

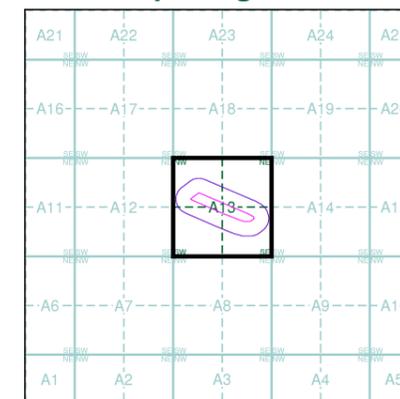
**Source map scale - 1:2,500**

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

**Map Name(s) and Date(s)**

104_03 1893 1:2,500	104_04 1893 1:2,500
104_07 1893 1:2,500	104_08 1893 1:2,500

**Historical Map - Segment A13**



**Order Details**

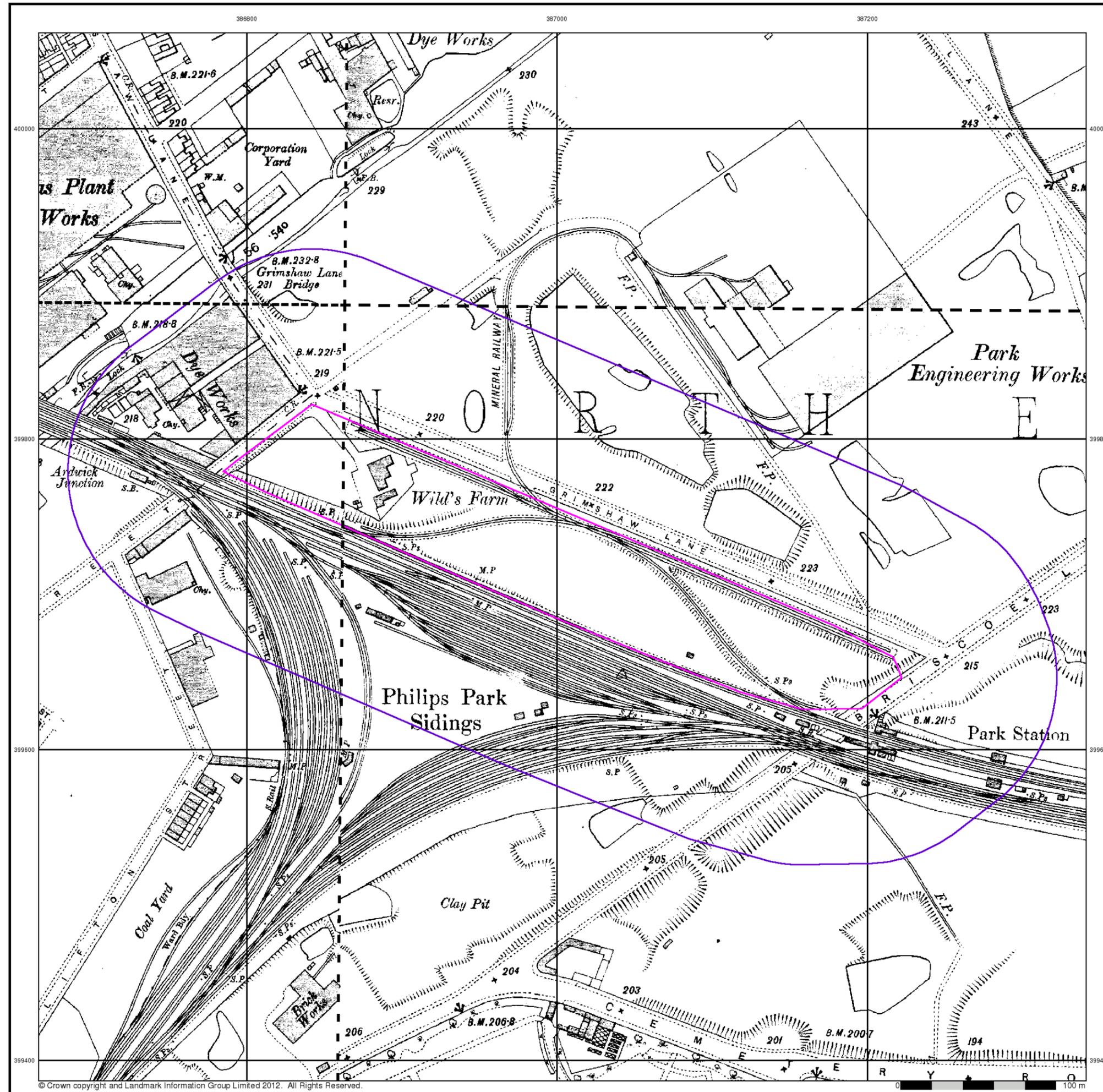
Order Number: 48456150\_1\_1  
 Customer Ref: A083215 Plot 1  
 National Grid Reference: 387000, 399720  
 Slice: A  
 Site Area (Ha): 2.67  
 Search Buffer (m): 100

**Site Details**

Plot 1, Grimshaw Lane, Newton Heath, Manchester



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



## Lancashire And Furness

Published 1908

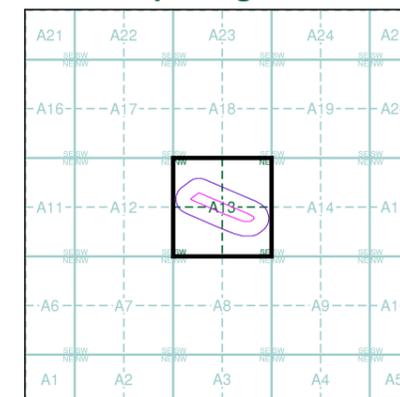
Source map scale - 1:2,500

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

### Map Name(s) and Date(s)

104_03 1908 1:2,500	104_04 1908 1:2,500
104_07 1908 1:2,500	104_08 1908 1:2,500

### Historical Map - Segment A13



### Order Details

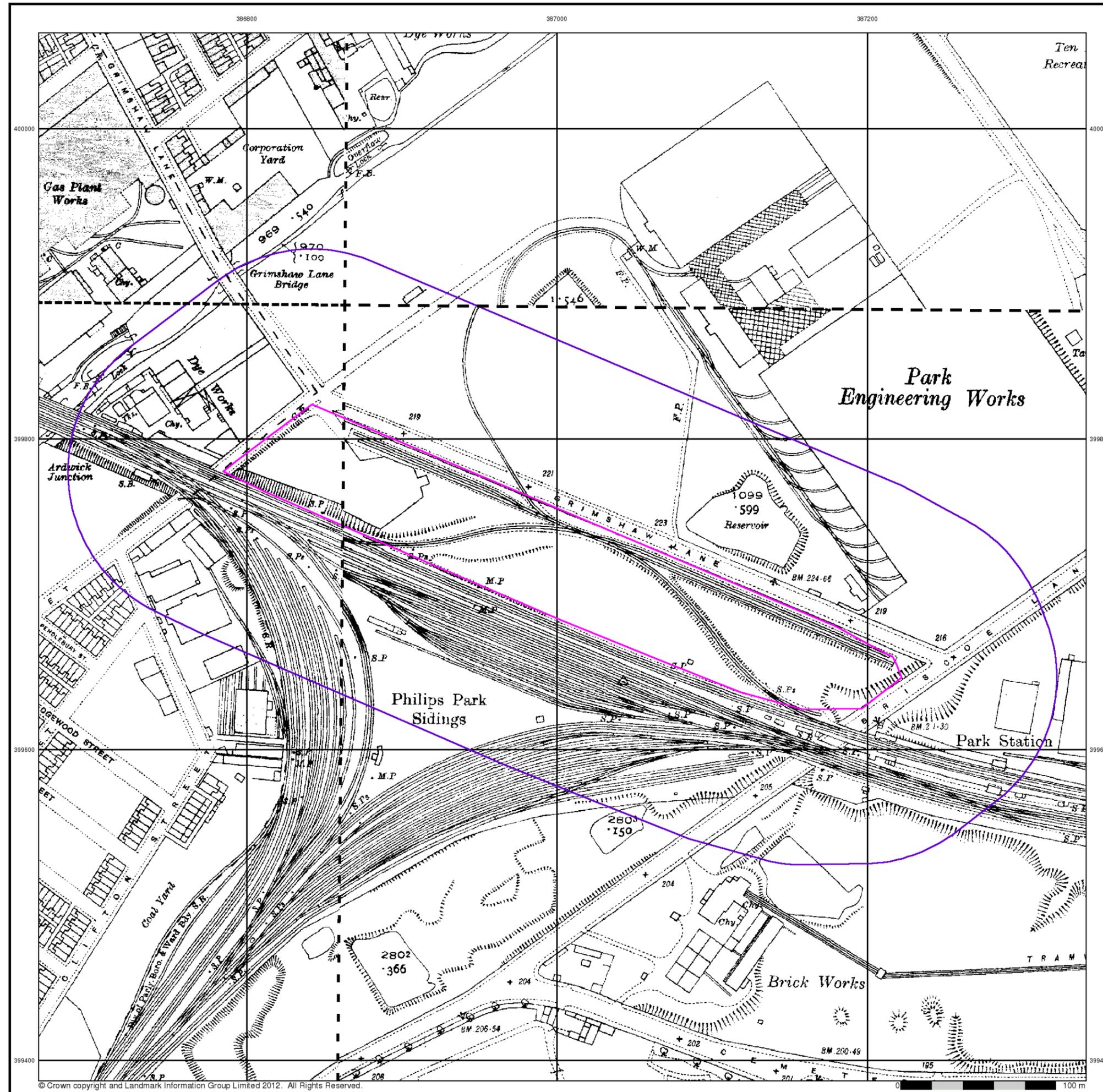
Order Number: 48456150\_1\_1  
 Customer Ref: A083215 Plot 1  
 National Grid Reference: 387000, 399720  
 Slice: A  
 Site Area (Ha): 2.67  
 Search Buffer (m): 100

### Site Details

Plot 1, Grimshaw Lane, Newton Heath, Manchester



Tel: 0844 844 9952  
 Fax: 0844 844 9951  
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## Lancashire And Furness

Published 1922

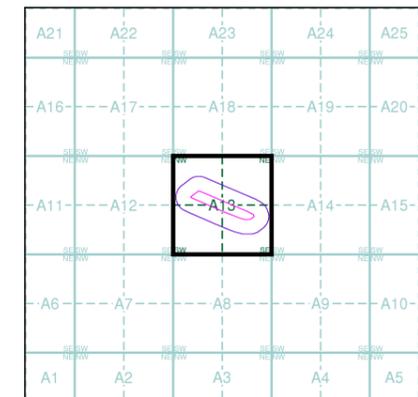
Source map scale - 1:2,500

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

### Map Name(s) and Date(s)

104_03 1922 1:2,500	104_04 1922 1:2,500
104_07 1922 1:2,500	104_08 1922 1:2,500

### Historical Map - Segment A13



### Order Details

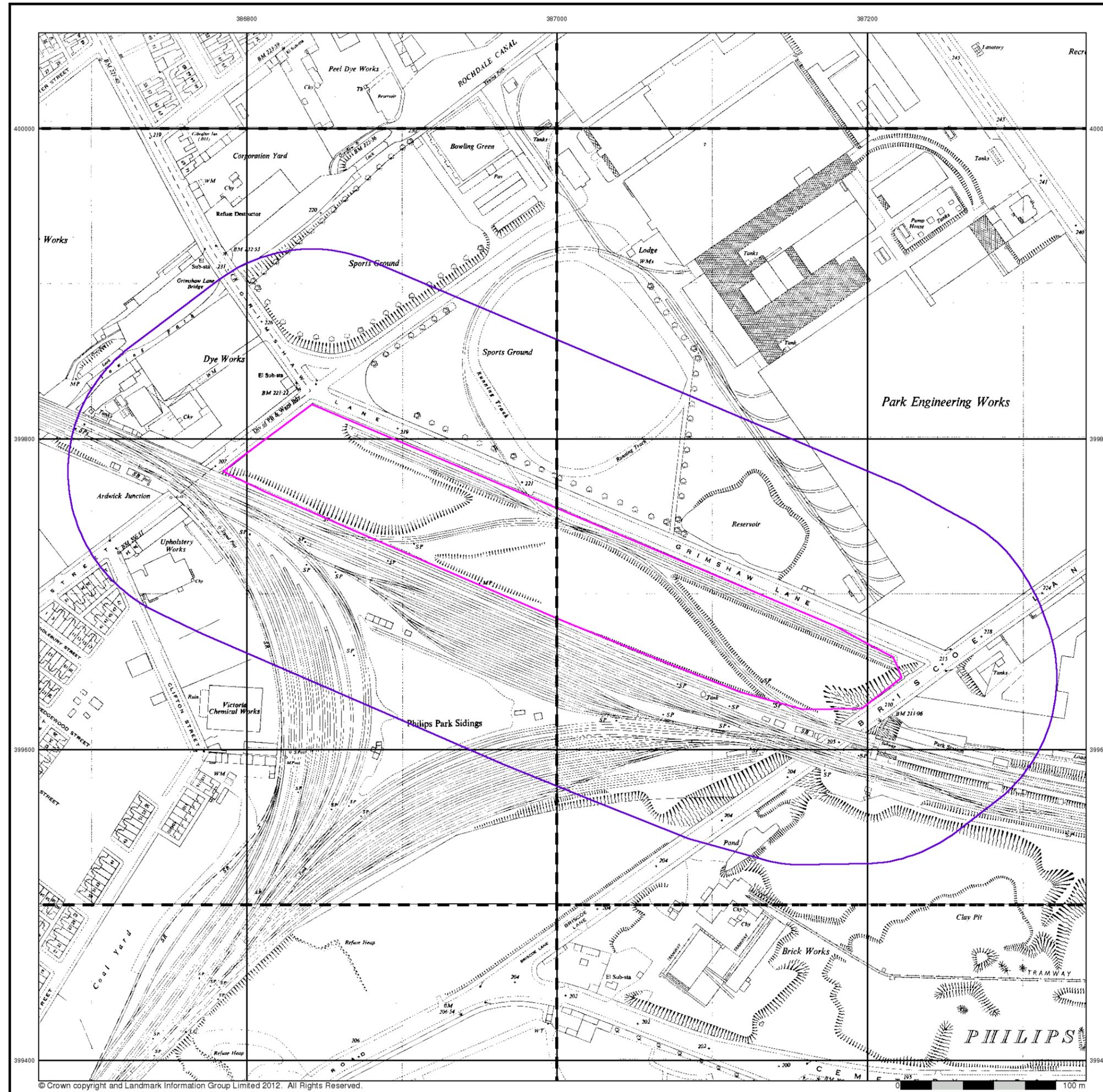
Order Number: 48456150\_1\_1  
 Customer Ref: A083215 Plot 1  
 National Grid Reference: 387000, 399720  
 Slice: A  
 Site Area (Ha): 2.67  
 Search Buffer (m): 100

### Site Details

Plot 1, Grimshaw Lane, Newton Heath, Manchester



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 Web: www.envirocheck.co.uk



## Ordnance Survey Plan

Published 1948 - 1951

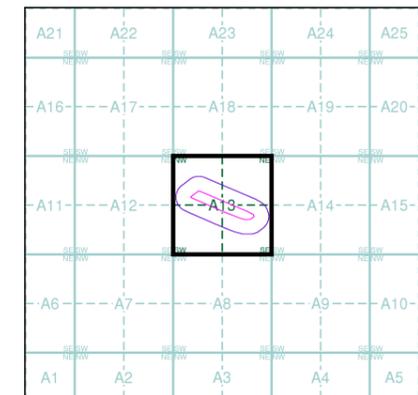
Source map scale - 1:1,250

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

### Map Name(s) and Date(s)

SJ86600SE	SJ87000SW
1949	1951
1:1,250	1:1,250
SJ86999NE	SJ87999NW
1949	1949
1:1,250	1:1,250
SJ86999SE	SJ87999SW
1949	1948
1:1,250	1:1,250

### Historical Map - Segment A13



### Order Details

Order Number: 48456150\_1\_1  
 Customer Ref: A083215 Plot 1  
 National Grid Reference: 387000, 399720  
 Slice: A  
 Site Area (Ha): 2.67  
 Search Buffer (m): 100

### Site Details

Plot 1, Grimshaw Lane, Newton Heath, Manchester



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



### Ordnance Survey Plan

Published 1951

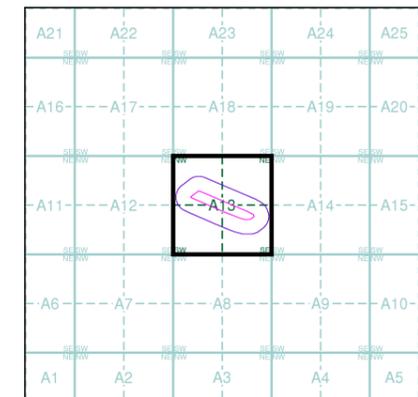
Source map scale - 1:2,500

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

### Map Name(s) and Date(s)

SD8600	SD8700
1951	1951
1:2,500	1:2,500
SJ8689	SJ8799
1951	1951
1:2,500	1:2,500

### Historical Map - Segment A13



### Order Details

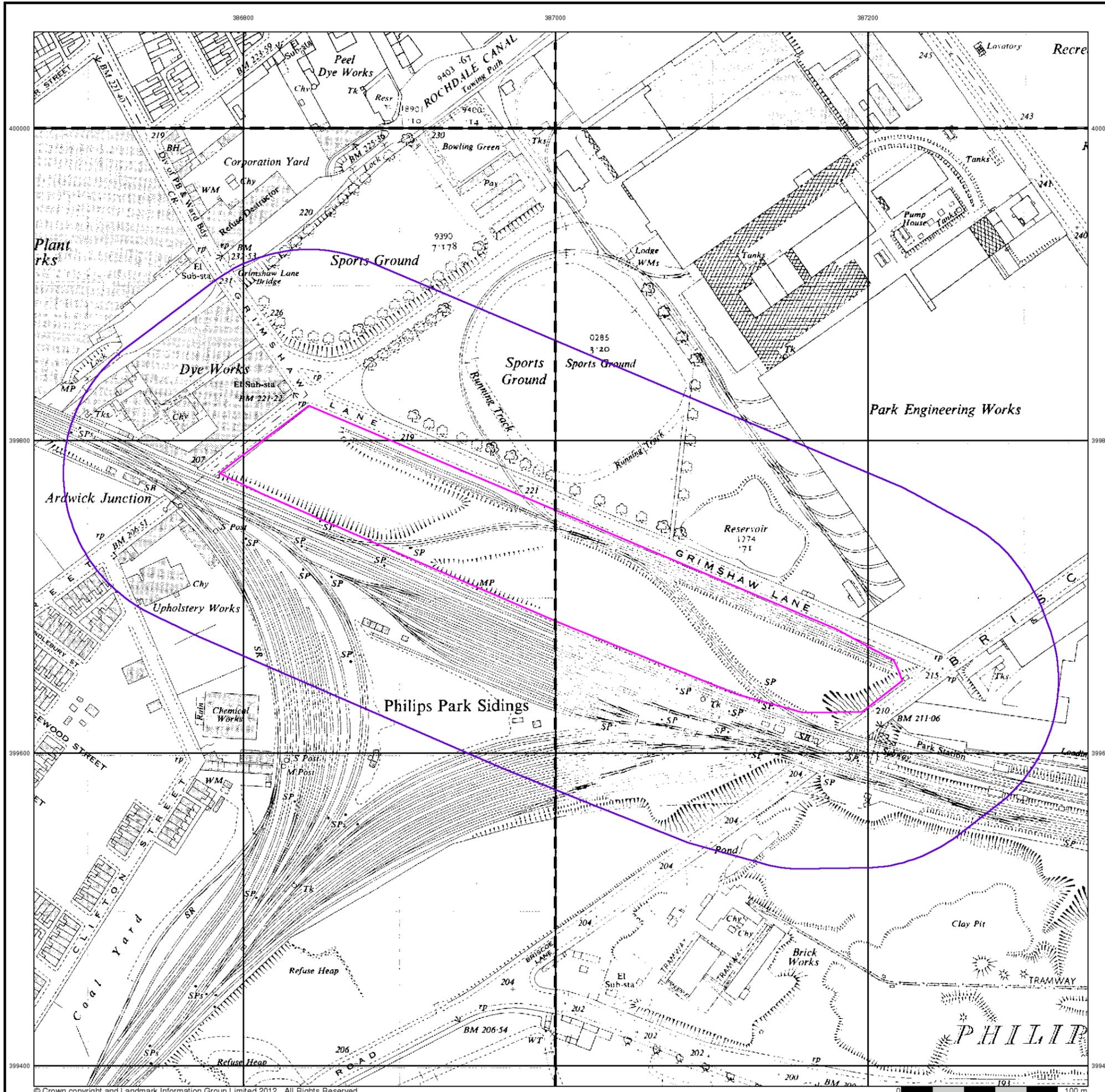
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 Site Area (Ha): 2.67  
 Search Buffer (m): 100

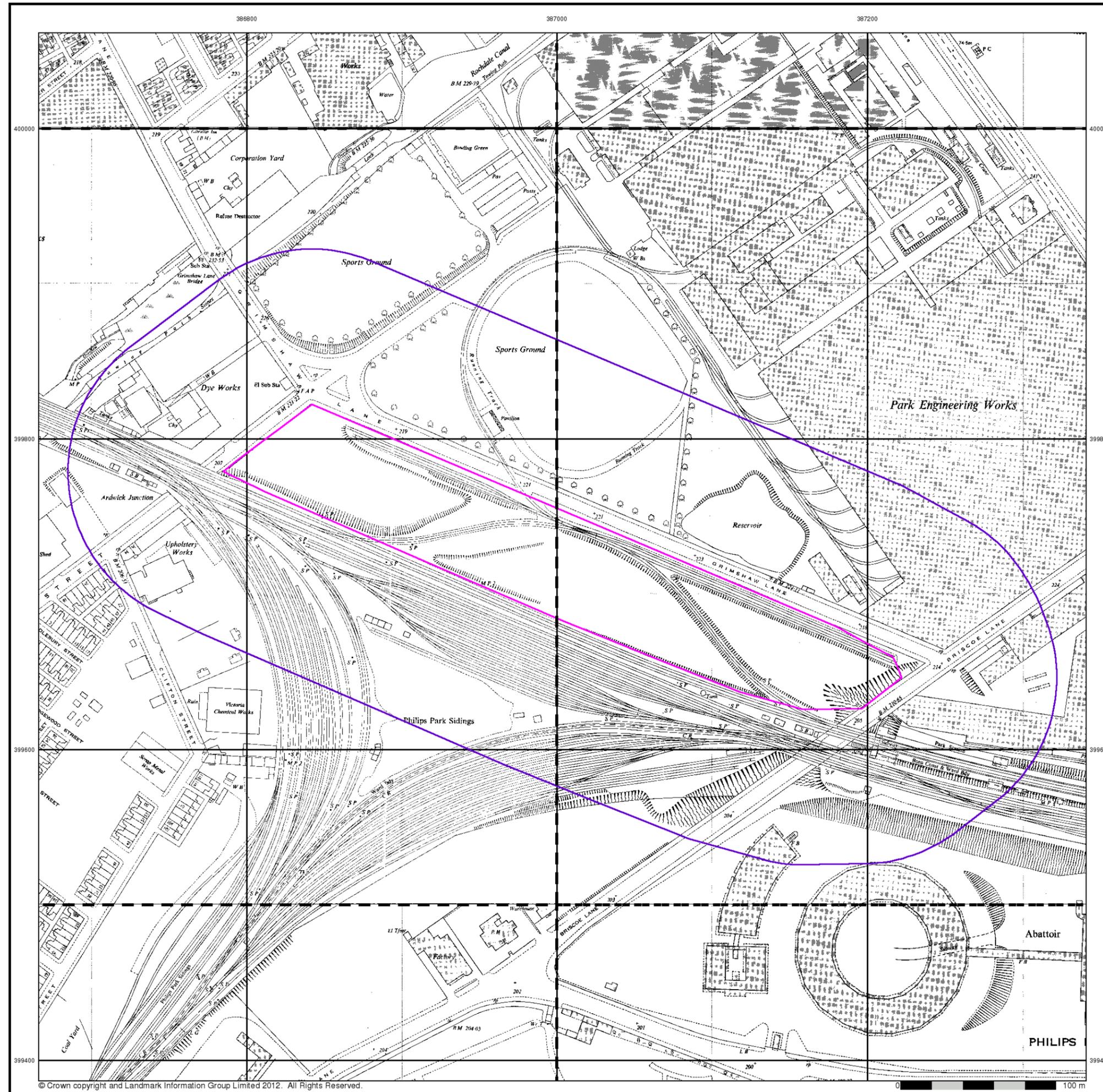
### Site Details

Plot 1, Grimshaw Lane, Newton Heath, Manchester



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





## Ordnance Survey Plan

Published 1953 - 1971

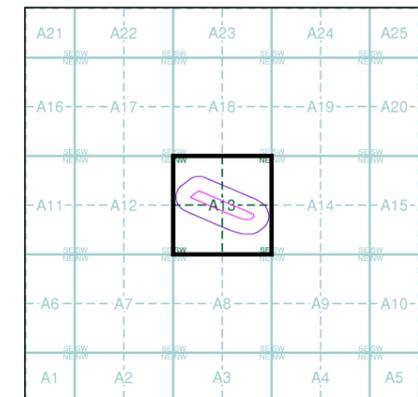
Source map scale - 1:1,250

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

### Map Name(s) and Date(s)

SD8600SE	SD8700SW
1961	1971
1:1,250	1:1,250
SJ8699NE	SJ8799NW
1953	1966
1:1,250	1:1,250
SJ8699SE	SJ8799SW
1968	1966
1:1,250	1:1,250

### Historical Map - Segment A13



### Order Details

Order Number: 48456150\_1\_1  
 Customer Ref: A083215 Plot 1  
 National Grid Reference: 387000, 399720  
 Slice: A  
 Site Area (Ha): 2.67  
 Search Buffer (m): 100

### Site Details

Plot 1, Grimshaw Lane, Newton Heath, Manchester



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



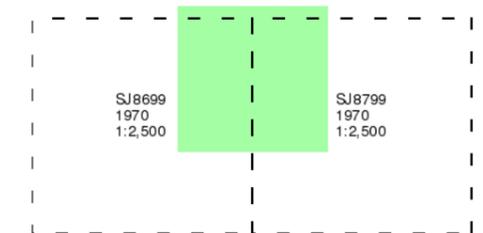
### Ordnance Survey Plan

Published 1970

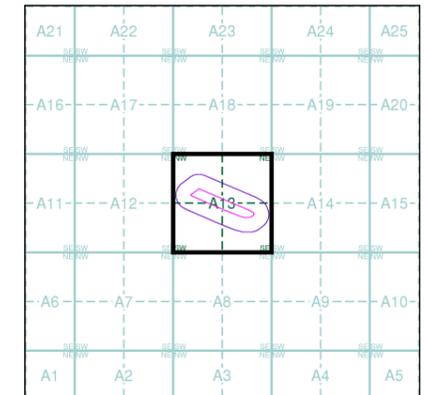
Source map scale - 1:2,500

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

### Map Name(s) and Date(s)



### Historical Map - Segment A13



### Order Details

Order Number: 48456150\_1\_1  
 Customer Ref: A083215 Plot 1  
 National Grid Reference: 387000, 399720  
 Slice: A  
 Site Area (Ha): 2.67  
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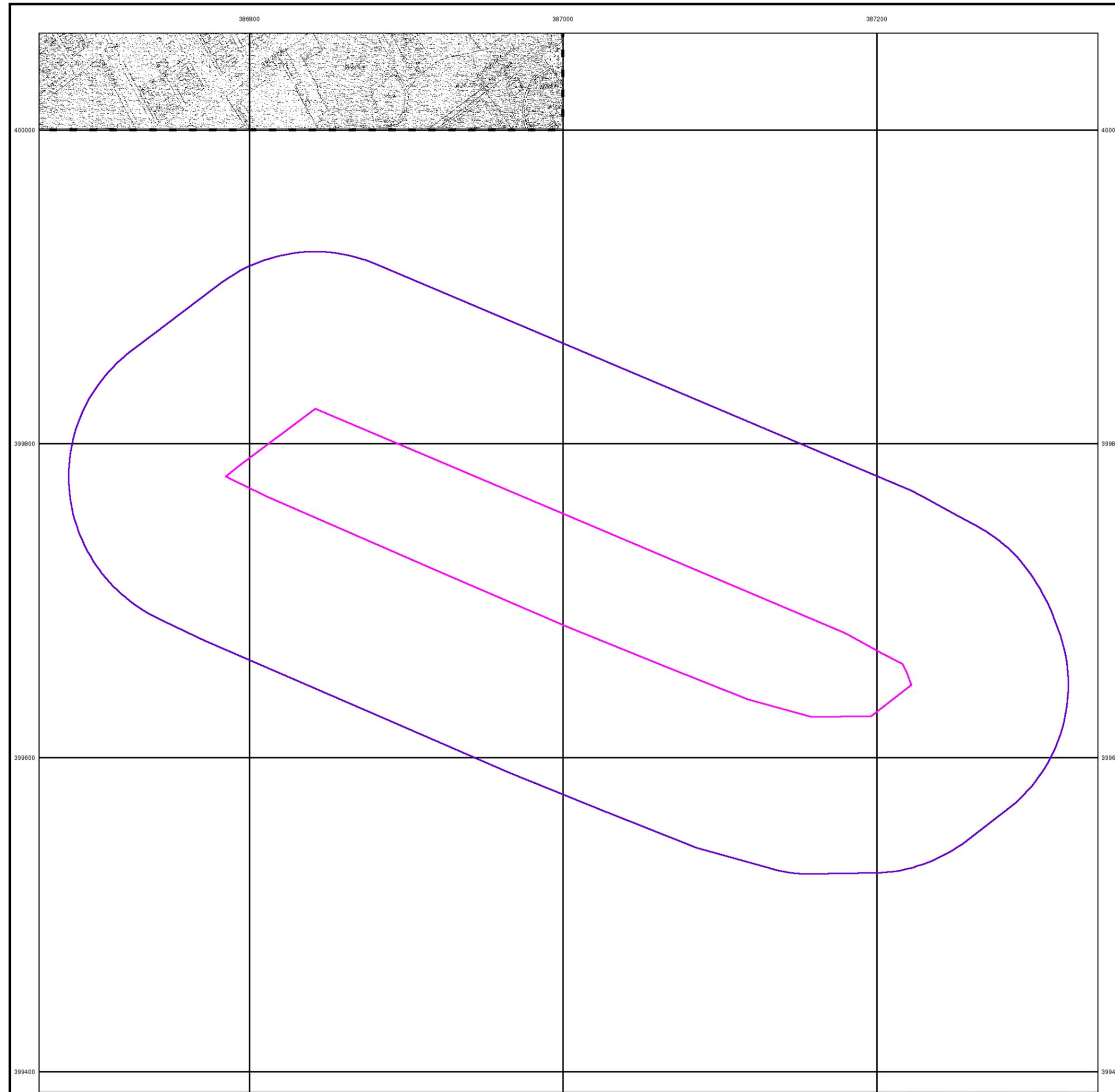
### Site Details

Plot 1, Grimshaw Lane, Newton Heath, Manchester



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





## Supply of Unpublished Survey Information

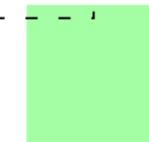
Published 1975

Source map scale - 1:1,250

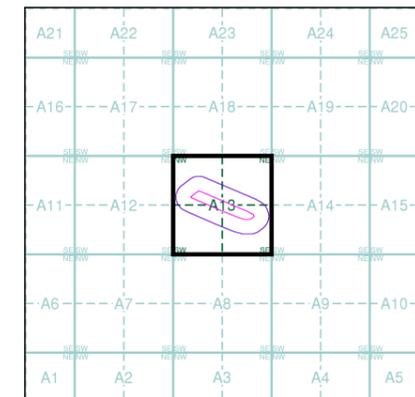
SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment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

### Map Name(s) and Date(s)

SD8600SE  
1975  
1:1,250



### Historical Map - Segment A13



### Order Details

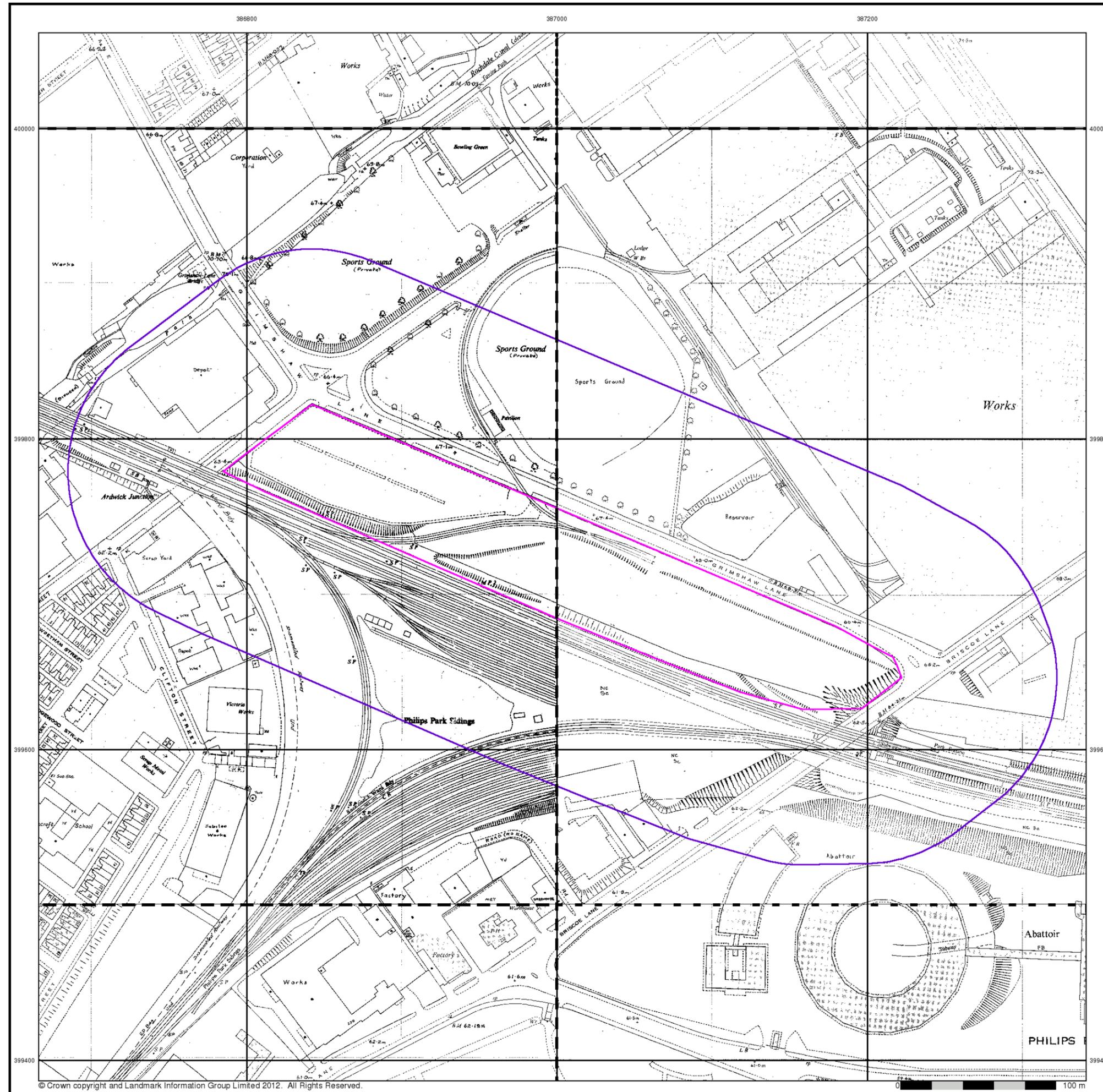
Order Number: 48456150\_1\_1  
 Customer Ref: A083215 Plot 1  
 National Grid Reference: 387000, 399720  
 Slice: A  
 Site Area (Ha): 2.67  
 Search Buffer (m): 100

### Site Details

Plot 1, Grimshaw Lane, Newton Heath, Manchester



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 Fax: 0844 844 9951  
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**Additional SIMs**

**Published 1979 - 1991**

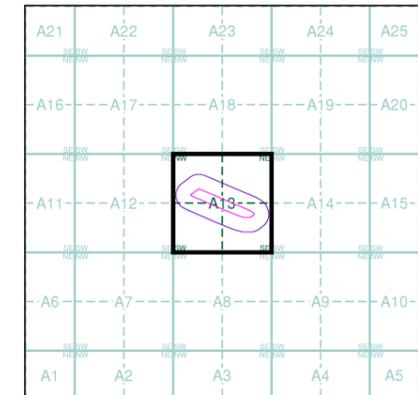
**Source map scale - 1:1,250**

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

**Map Name(s) and Date(s)**

SD8600SE	SD8700SW
1979	1979
1:1,250	1:1,250
SJ8699NE	SJ8799NW
1979	1991
1:1,250	1:1,250
SJ8699SE	SJ8799SW
1984	1990
1:1,250	1:1,250

**Historical Map - Segment A13**



**Order Details**

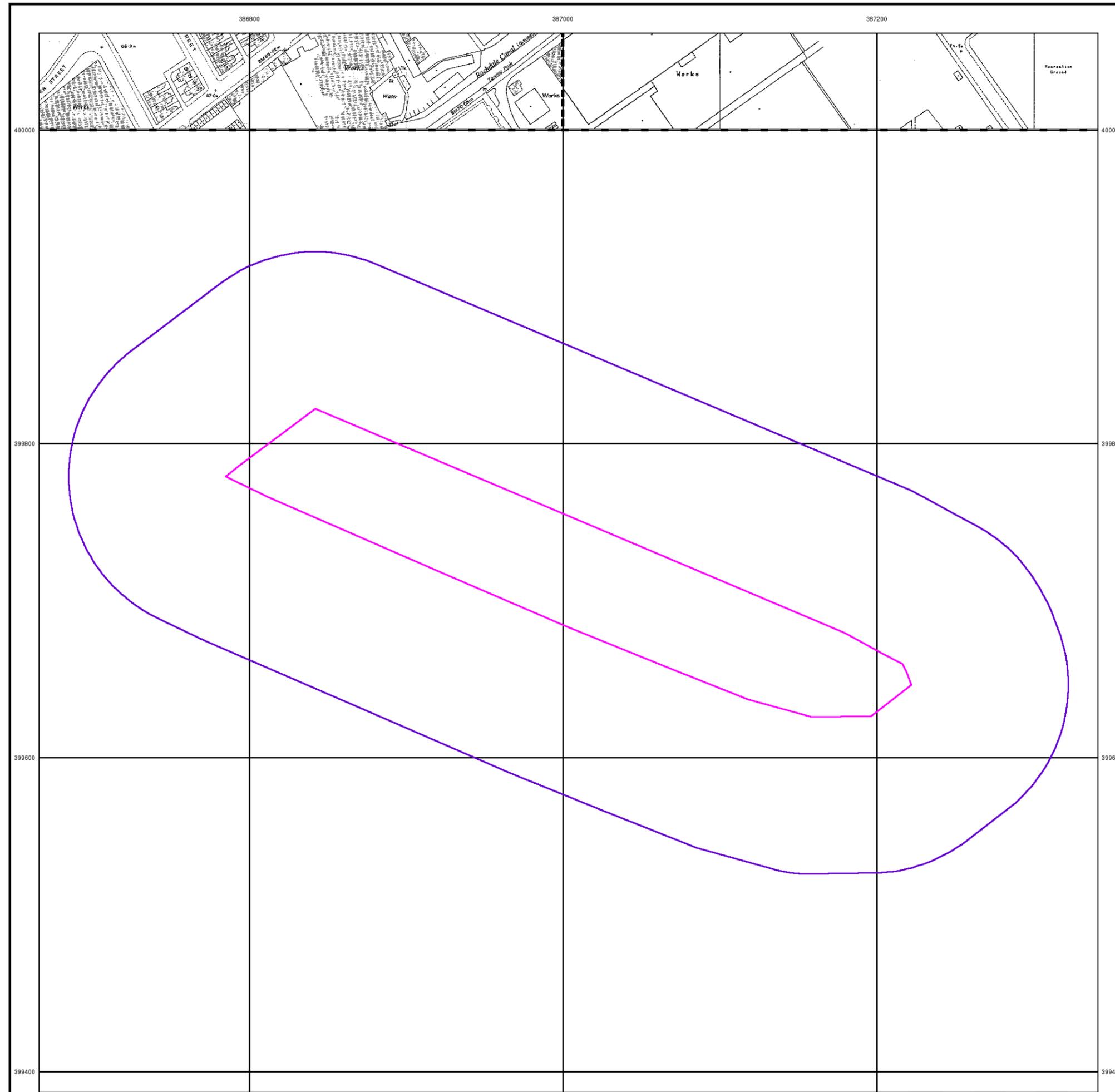
Order Number: 48456150\_1\_1  
 Customer Ref: A083215 Plot 1  
 National Grid Reference: 387000, 399720  
 Slice: A  
 Site Area (Ha): 2.67  
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**Additional SIMs**

**Published 1986 - 1991**

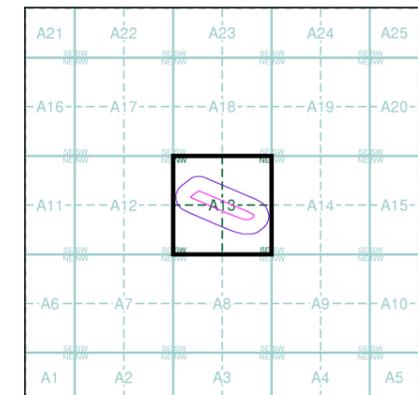
**Source map scale - 1:1,250**

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

**Map Name(s) and Date(s)**

SD8600SE	SD8700SW
1986	1991
1:1,250	1:1,250

**Historical Map - Segment A13**



**Order Details**

Order Number: 48456150\_1\_1  
 Customer Ref: A083215 Plot 1  
 National Grid Reference: 387000, 399720  
 Slice: A  
 Site Area (Ha): 2.67  
 Search Buffer (m): 100

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## Ordnance Survey Plan

Published 1990

Source map scale - 1:1,250

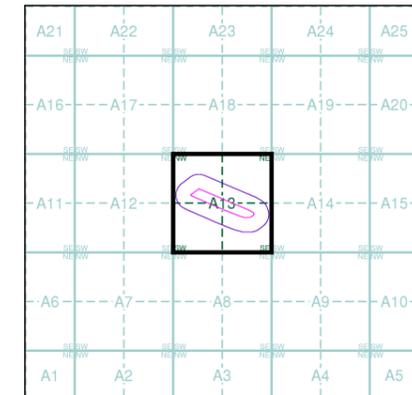
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

### Map Name(s) and Date(s)

SD8600SE  
1990  
1:1,250

SJ8699NE  
1990  
1:1,250

### Historical Map - Segment A13



### Order Details

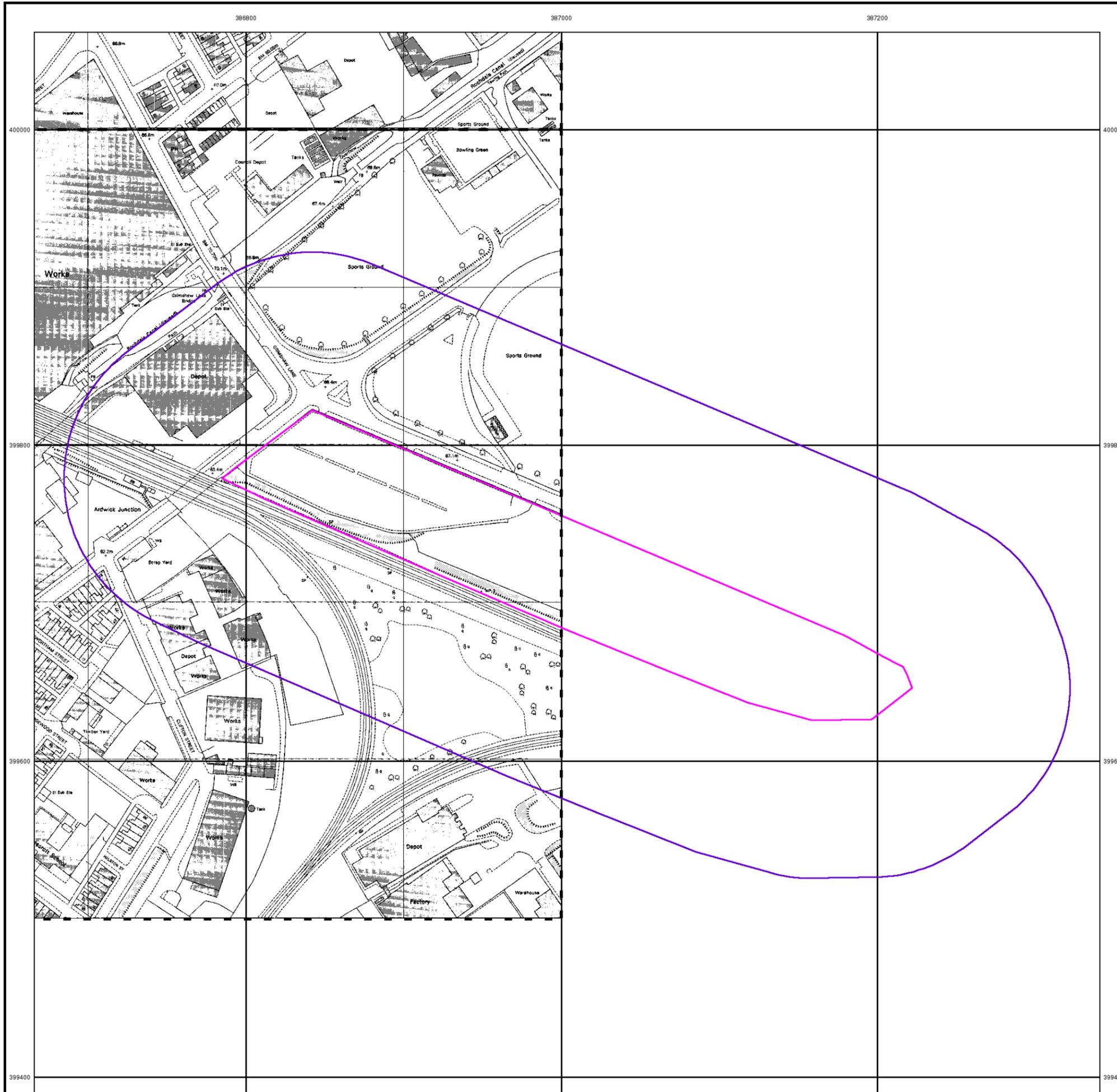
Order Number: 48456150\_1\_1  
 Customer Ref: A083215 Plot 1  
 National Grid Reference: 387000, 399720  
 Slice: A  
 Site Area (Ha): 2.67  
 Search Buffer (m): 100

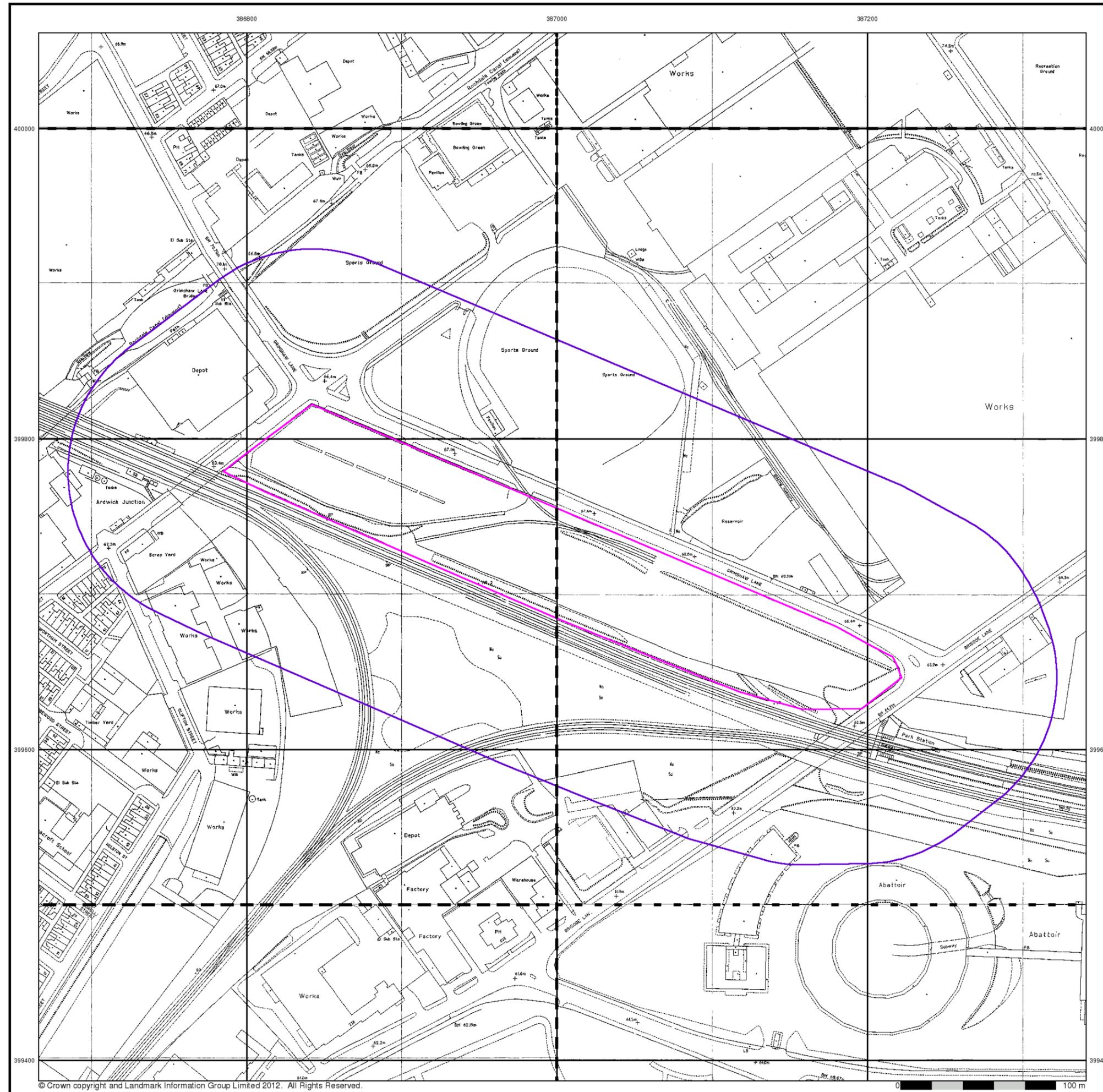
### Site Details

Plot 1, Grimshaw Lane, Newton Heath, Manchester



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## Large-Scale National Grid Data

Published 1992

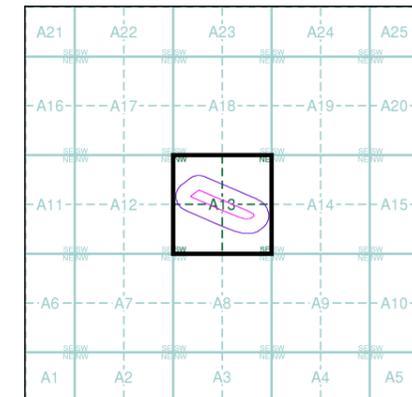
Source map scale - 1:1,250

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

### Map Name(s) and Date(s)

BD8600SE	BD8700SW
1992	1992
1:1,250	1:1,250
SJ8699NE	SJ8799NW
1992	1992
1:1,250	1:1,250
SJ8699SE	SJ8799SW
1992	1992
1:1,250	1:1,250

### Historical Map - Segment A13



### Order Details

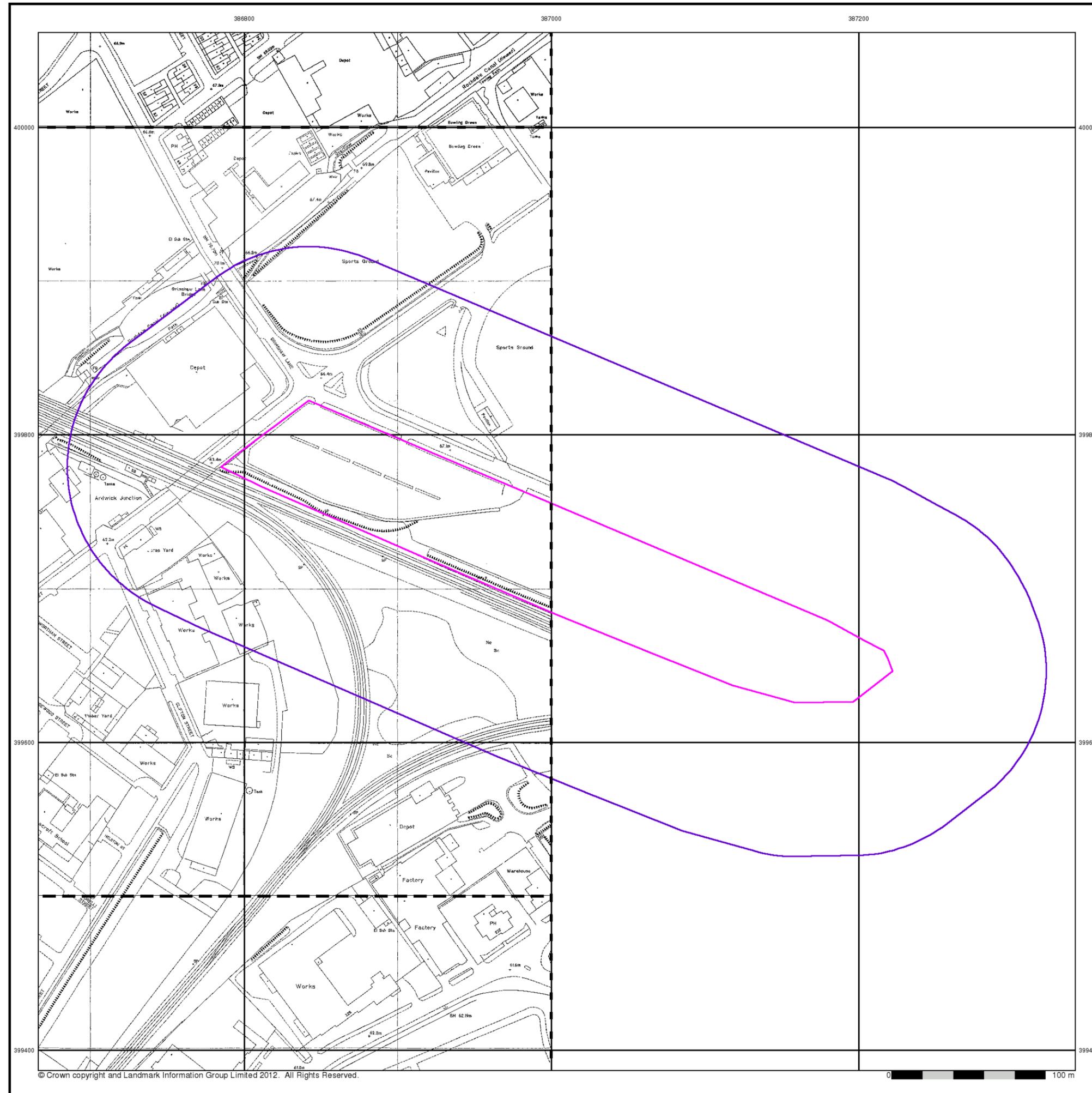
Order Number: 48456150\_1\_1  
 Customer Ref: A083215 Plot 1  
 National Grid Reference: 387000, 399720  
 Slice: A  
 Site Area (Ha): 2.67  
 Search Buffer (m): 100

### Site Details

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## Large-Scale National Grid Data

Published 1993 - 1995

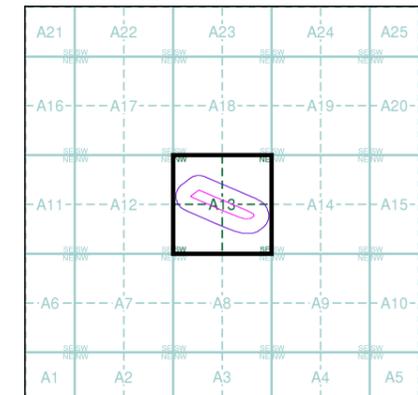
Source map scale - 1:1,250

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

### Map Name(s) and Date(s)

BD8600SE	1993	1:1,250
<b>SJ8699NE</b>	1995	1:1,250
SJ8699SE	1995	1:1,250

### Historical Map - Segment A13



### Order Details

Order Number: 48456150\_1\_1  
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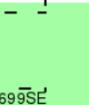
## Large-Scale National Grid Data

Published 1993 - 1995

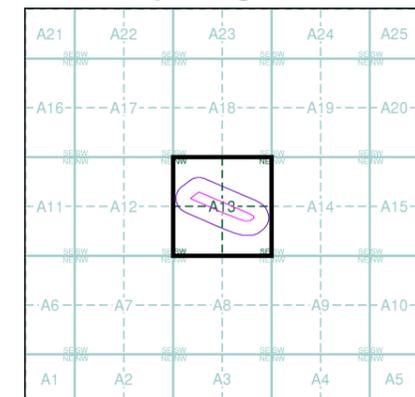
Source map scale - 1:1,250

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

### Map Name(s) and Date(s)

PD8600SE  
 1993  
 1:1,250  
  
 SJ8699SE  
 1995  
 1:1,250

### Historical Map - Segment A13



### Order Details

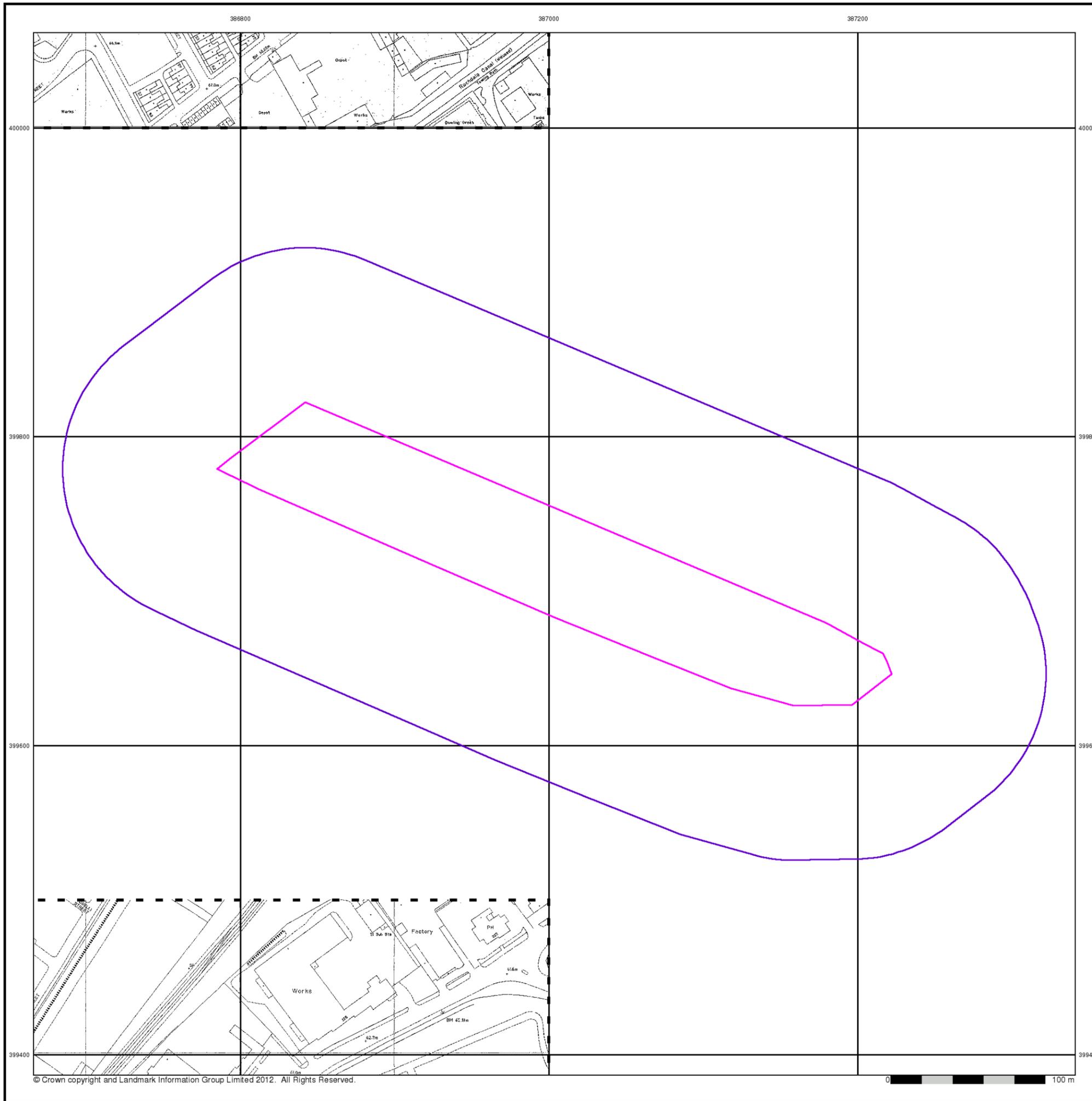
Order Number: 48456150\_1\_1  
 Customer Ref: A083215 Plot 1  
 National Grid Reference: 387000, 399720  
 Slice: A  
 Site Area (Ha): 2.67  
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# Historical Mapping Legends

## Ordnance Survey County Series 1:10,560

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

## Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Coppice		
	Bracken		Heath
	Rough Grassland		
	Marsh		Reeds
	Saltings		
	Building		Glasshouse
	Sloping Masonry		Pylon
	Electricity Transmission Line		Pole
	Cutting		Embankment
	Standard Gauge Multiple Track		
	Standard Gauge Single Track		
	Siding, Tramway or Mineral Line		
	Narrow Gauge		
	Geographical County		
	Administrative County, County Borough or County of City		
	Municipal Borough, Urban or Rural District, Burgh or District Council		
	Borough, Burgh or County Constituency Shown only when not coincident with other boundaries		
	Civil Parish Shown alternately when coincidence of boundaries occurs		
	BP, BS Boundary Post or Stone		Pol Sta Police Station
	Ch Church		PO Post Office
	CH Club House		PC Public Convenience
	F E Sta Fire Engine Station		PH Public House
	FB Foot Bridge		SB Signal Box
	Fn Fountain		Spr Spring
	GP Guide Post		TCB Telephone Call Box
	MP Mile Post		TCP Telephone Call Post
	MS Mile Stone		W Well

## 1:10,000 Raster Mapping

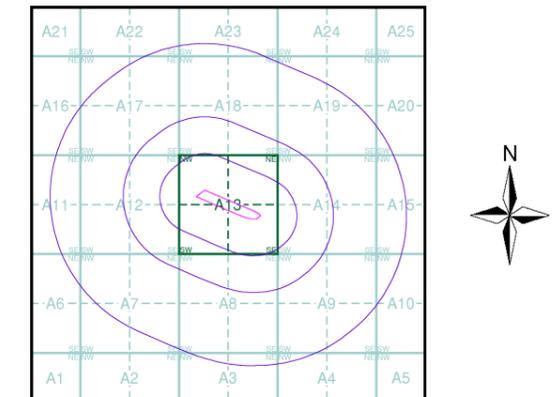
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil,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



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1848	3
Cheshire	1:10,560	1882	4
Lancashire And Furness	1:10,560	1894	5
Cheshire	1:10,560	1899	6
Lancashire And Furness	1:10,560	1909	7
Cheshire	1:10,560	1911	8
Lancashire And Furness	1:10,560	1923	9
Lancashire And Furness	1:10,560	1932	10
Lancashire And Furness	1:10,560	1938	11
Cheshire	1:10,560	1938	12
Ordnance Survey Plan	1:10,000	1956	13
Ordnance Survey Plan	1:10,000	1966 - 1968	14
Manchester	1:25,000	1975	15
Ordnance Survey Plan	1:10,000	1978	16
Ordnance Survey Plan	1:10,000	1981 - 1982	17
Ordnance Survey Plan	1:10,000	1987	18
Ordnance Survey Plan	1:10,000	1990 - 1993	19
10K Raster Mapping	1:10,000	2006	20
10K Raster Mapping	1:10,000	2013	21

## Historical Map - Slice A



## Order Details

Order Number: 48456150\_1\_1  
 Customer Ref: A083215 Plot 1  
 National Grid Reference: 387000, 399720  
 Slice: A  
 Site Area (Ha): 2.67  
 Search Buffer (m): 1000

## Site Details

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# Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale

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

**243,8** Values for prominent elevations  
**186.0** Numbers for spot elevations, depth soundings, contour lines, etc.  
**0,2** Velocity of the current, width of river bed, depth of river  
**180/12** Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

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

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

## 1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

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

## Key to Numbers on Mapping

### SD80\_Manchester

No.	Description
75	Factory (Locomotives And Railway Carriage Repairs)
136	Foundry (Cast Iron)
233	Factory (Textiles)

### SJ89\_Manchester

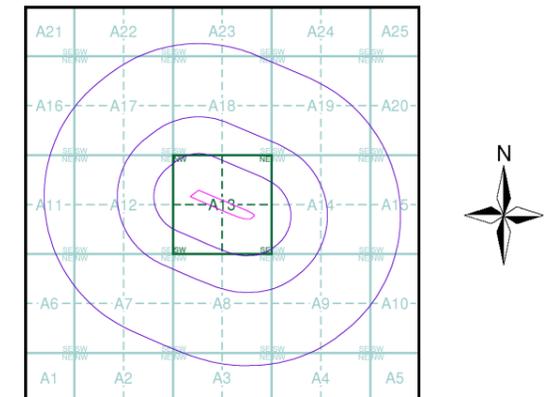
No.	Description
61	Factory (Gas)
64	Factory (Gas)
83	Factory (Machinery)
252	Power Station (Electric)



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1848	3
Cheshire	1:10,560	1882	4
Lancashire And Furness	1:10,560	1894	5
Cheshire	1:10,560	1899	6
Lancashire And Furness	1:10,560	1909	7
Cheshire	1:10,560	1911	8
Lancashire And Furness	1:10,560	1923	9
Lancashire And Furness	1:10,560	1932	10
Lancashire And Furness	1:10,560	1938	11
Cheshire	1:10,560	1938	12
Ordnance Survey Plan	1:10,000	1956	13
Ordnance Survey Plan	1:10,000	1966 - 1968	14
Manchester	1:25,000	1975	15
Ordnance Survey Plan	1:10,000	1978	16
Ordnance Survey Plan	1:10,000	1981 - 1982	17
Ordnance Survey Plan	1:10,000	1987	18
Ordnance Survey Plan	1:10,000	1990 - 1993	19
10K Raster Mapping	1:10,000	2006	20
10K Raster Mapping	1:10,000	2013	21

## Russian Map - Slice A



## Order Details

Order Number: 48456150\_1\_1  
 Customer Ref: A083215 Plot 1  
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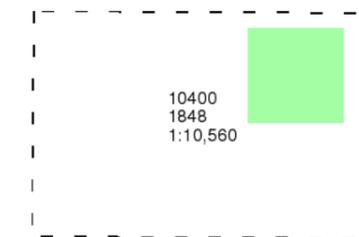
## Lancashire And Furness

Published 1848

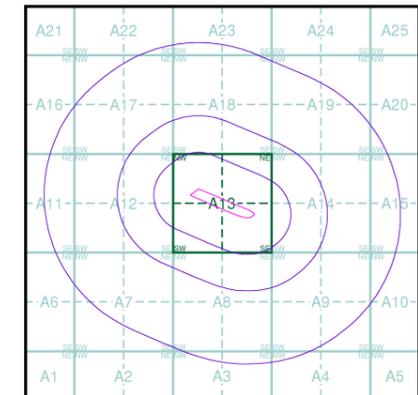
Source map scale - 1:10,560

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

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

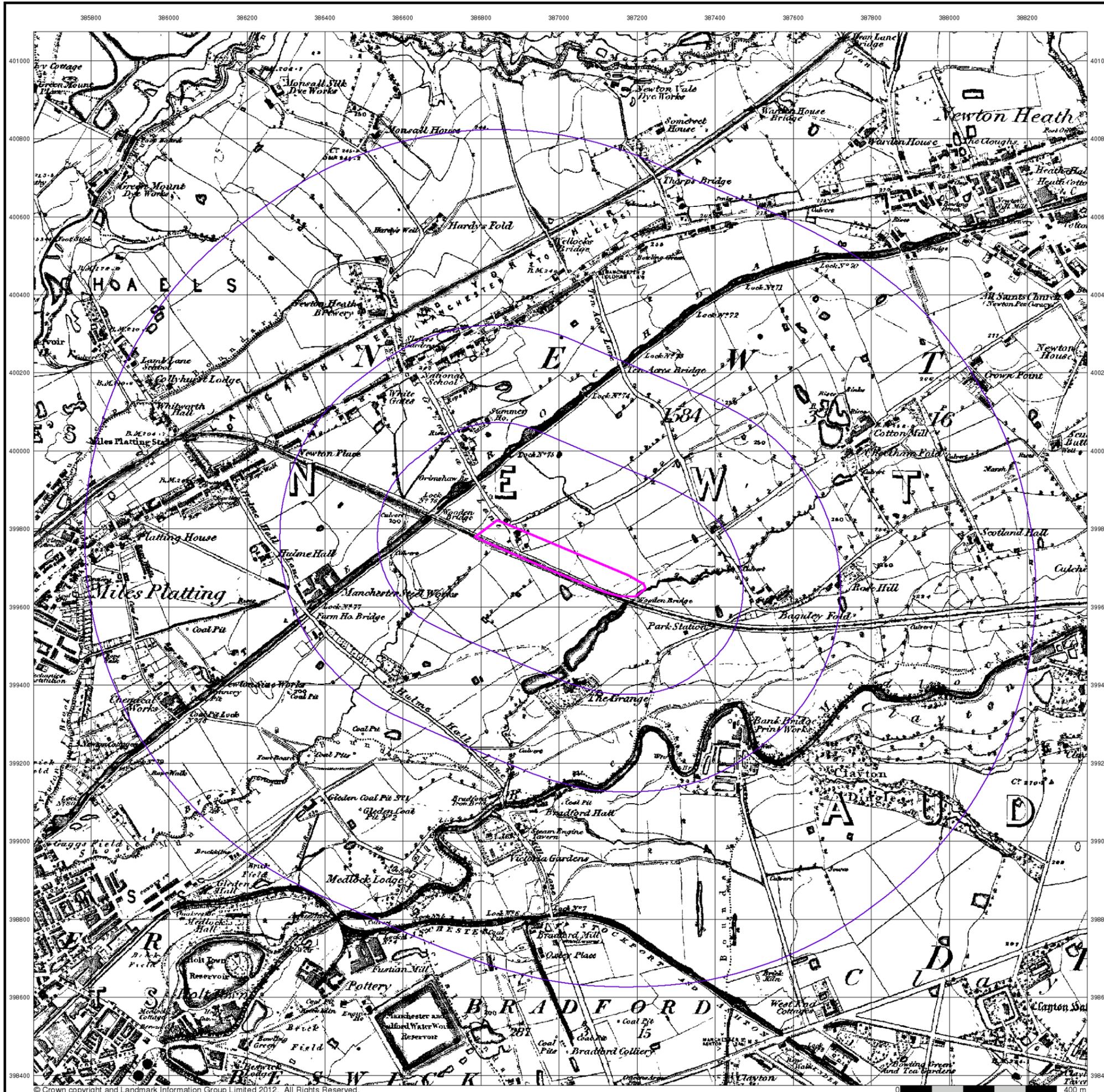
Order Number: 48456150\_1\_1  
Customer Ref: A083215 Plot 1  
National Grid Reference: 387000, 399720  
Slice: A  
Site Area (Ha): 2.67  
Search Buffer (m): 1000

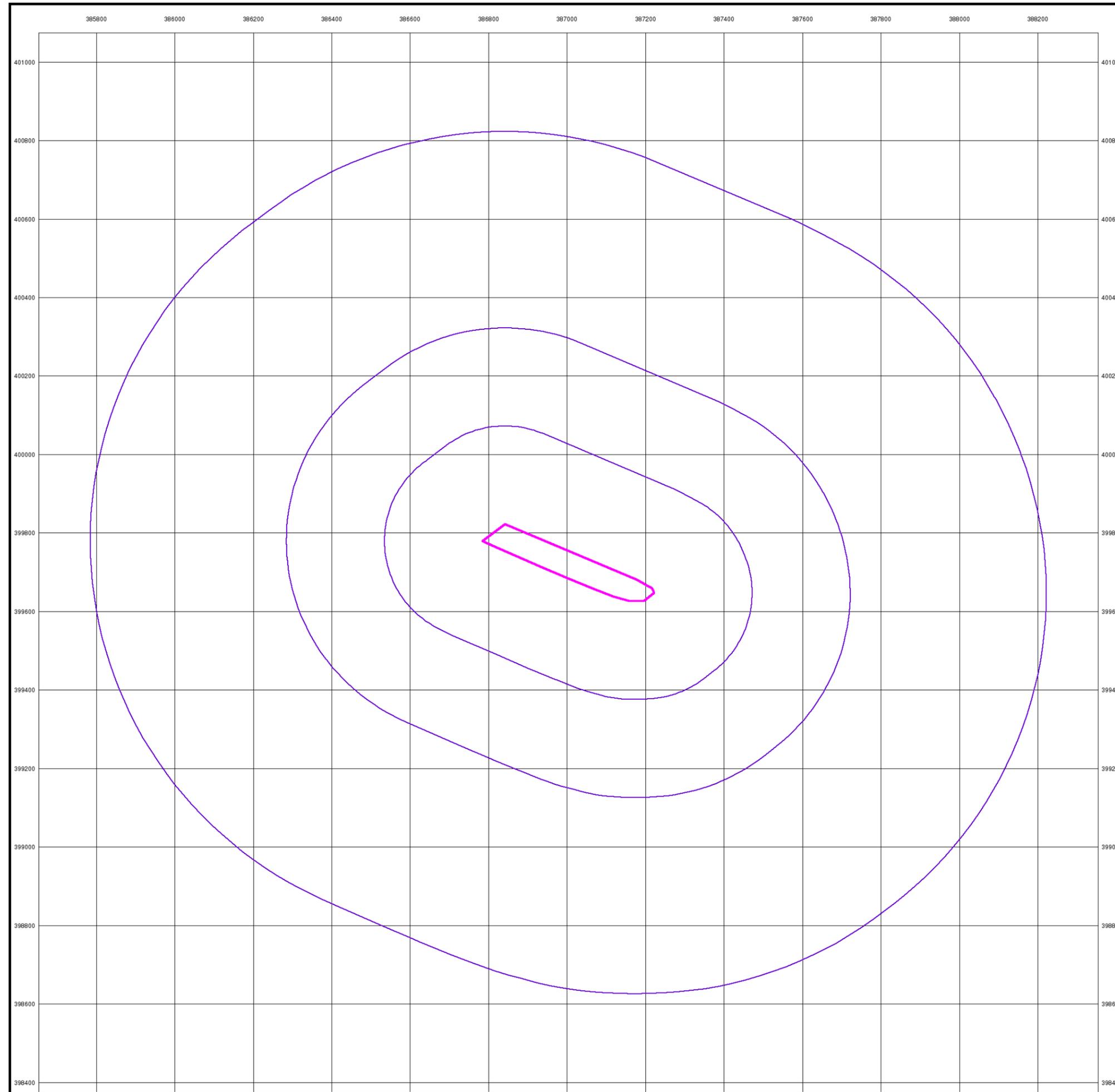
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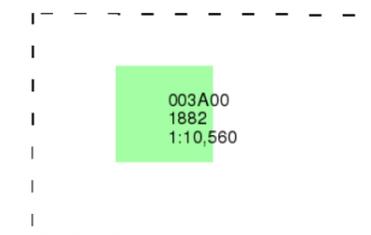
**Cheshire**

**Published 1882**

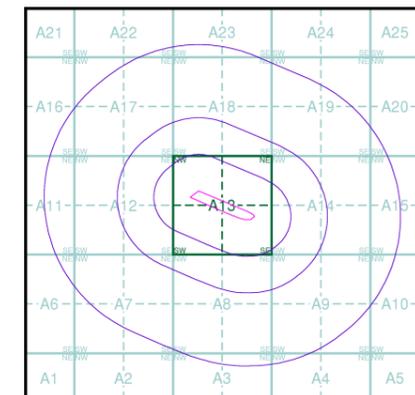
**Source map scale - 1:10,560**

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

**Map Name(s) and Date(s)**



**Historical Map - Slice A**



**Order Details**

Order Number: 48456150\_1\_1  
 Customer Ref: A083215 Plot 1  
 National Grid Reference: 387000, 399720  
 Slice: A  
 Site Area (Ha): 2.67  
 Search Buffer (m): 1000

**Site Details**

Plot 1, Grimshaw Lane, Newton Heath, Manchester



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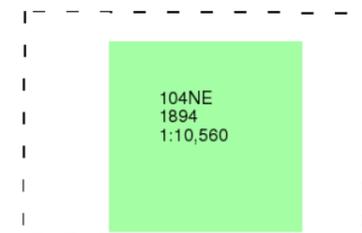
## Lancashire And Furness

Published 1894

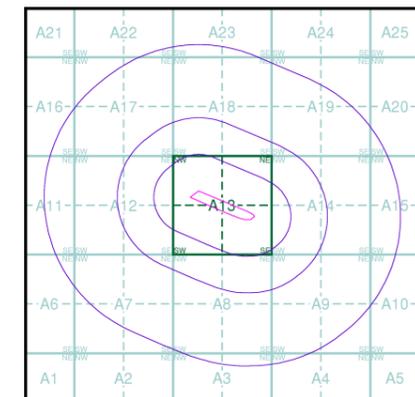
Source map scale - 1:10,560

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

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 48456150\_1\_1  
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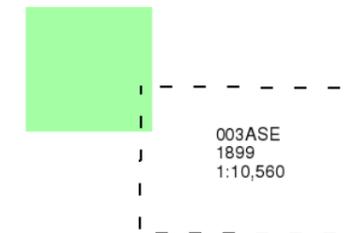
**Cheshire**

**Published 1899**

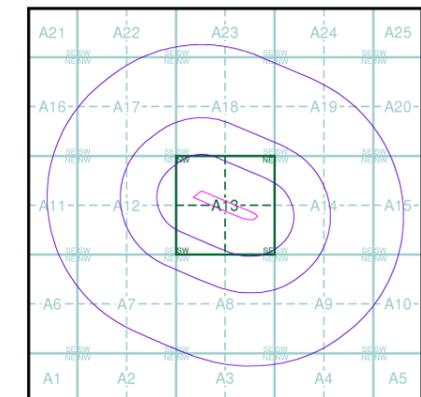
**Source map scale - 1:10,560**

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

**Map Name(s) and Date(s)**



**Historical Map - Slice A**



**Order Details**

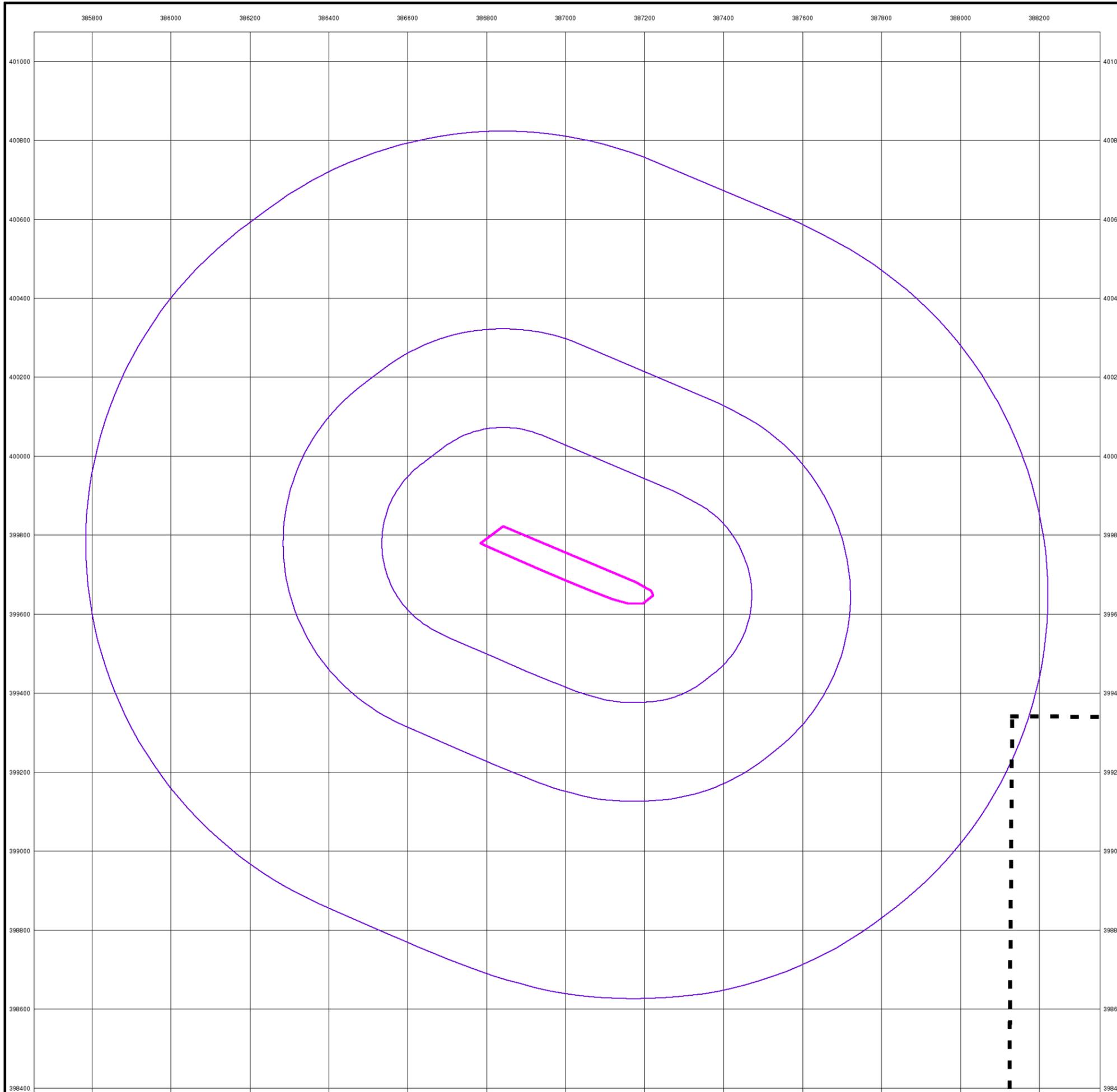
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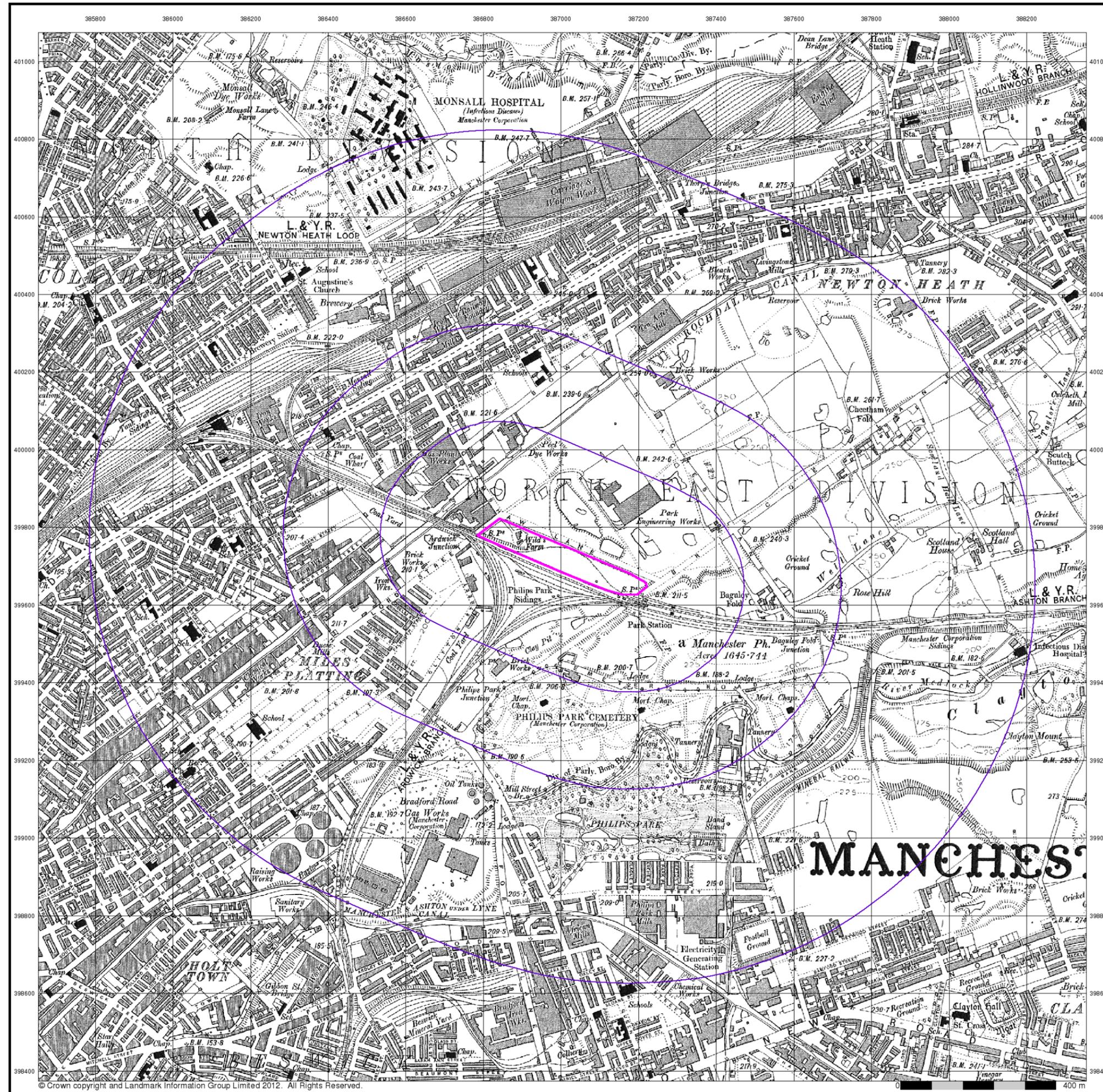
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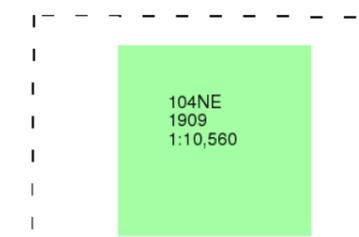
## Lancashire And Furness

Published 1909

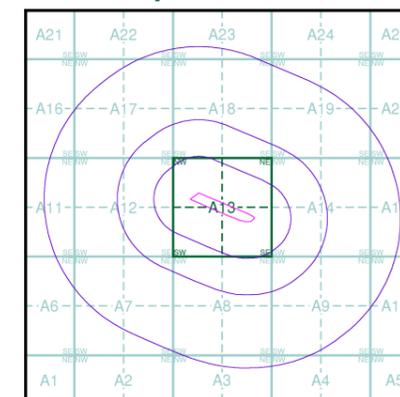
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### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

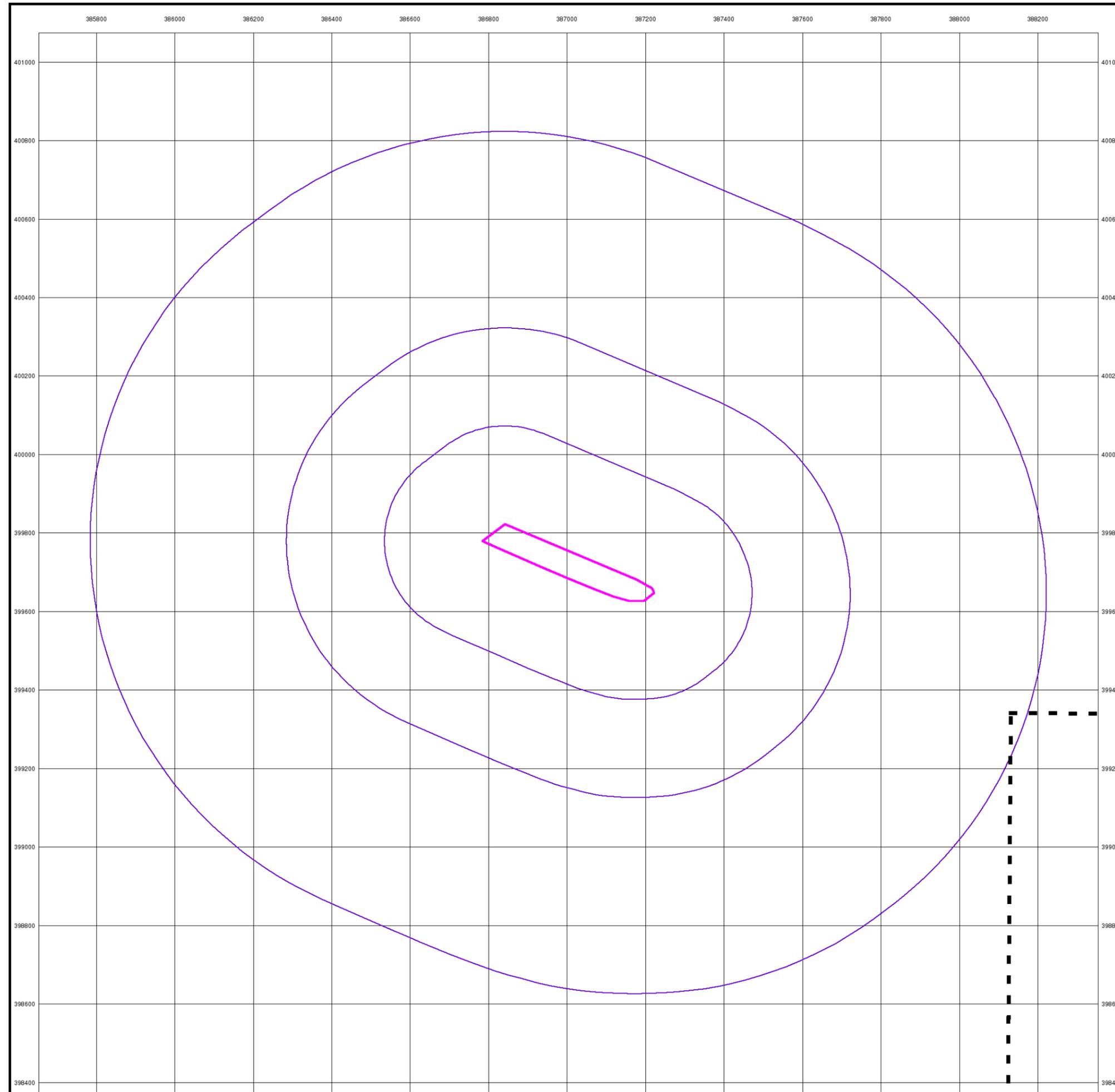
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 Slice: A  
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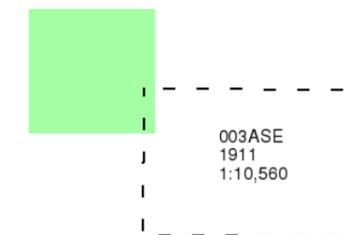
**Cheshire**

**Published 1911**

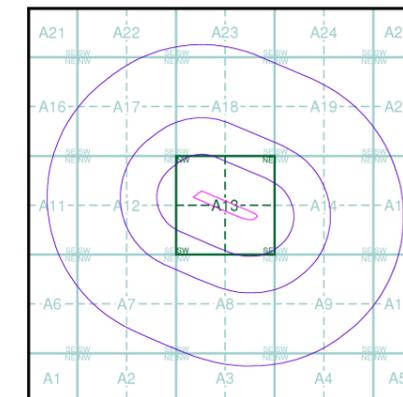
**Source map scale - 1:10,560**

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

**Map Name(s) and Date(s)**



**Historical Map - Slice A**



**Order Details**

Order Number: 48456150\_1\_1  
 Customer Ref: A083215 Plot 1  
 National Grid Reference: 387000, 399720  
 Slice: A  
 Site Area (Ha): 2.67  
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**Site Details**

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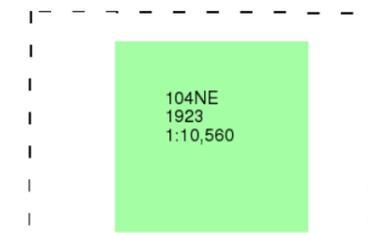
## Lancashire And Furness

Published 1923

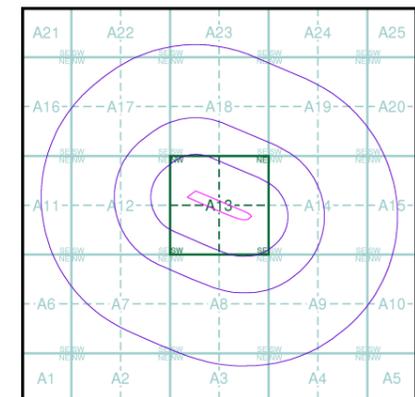
Source map scale - 1:10,560

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

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

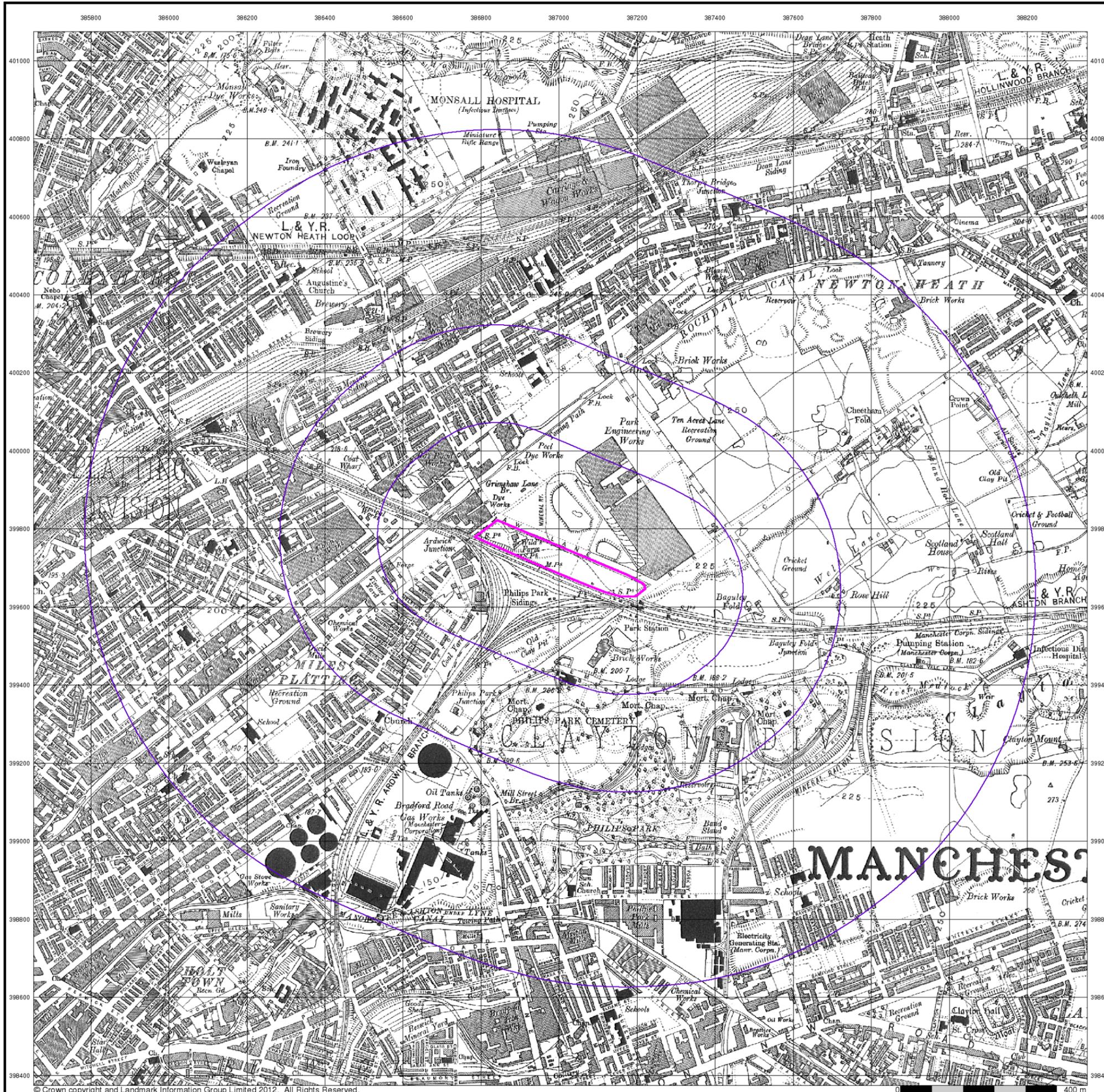
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Search Buffer (m): 1000

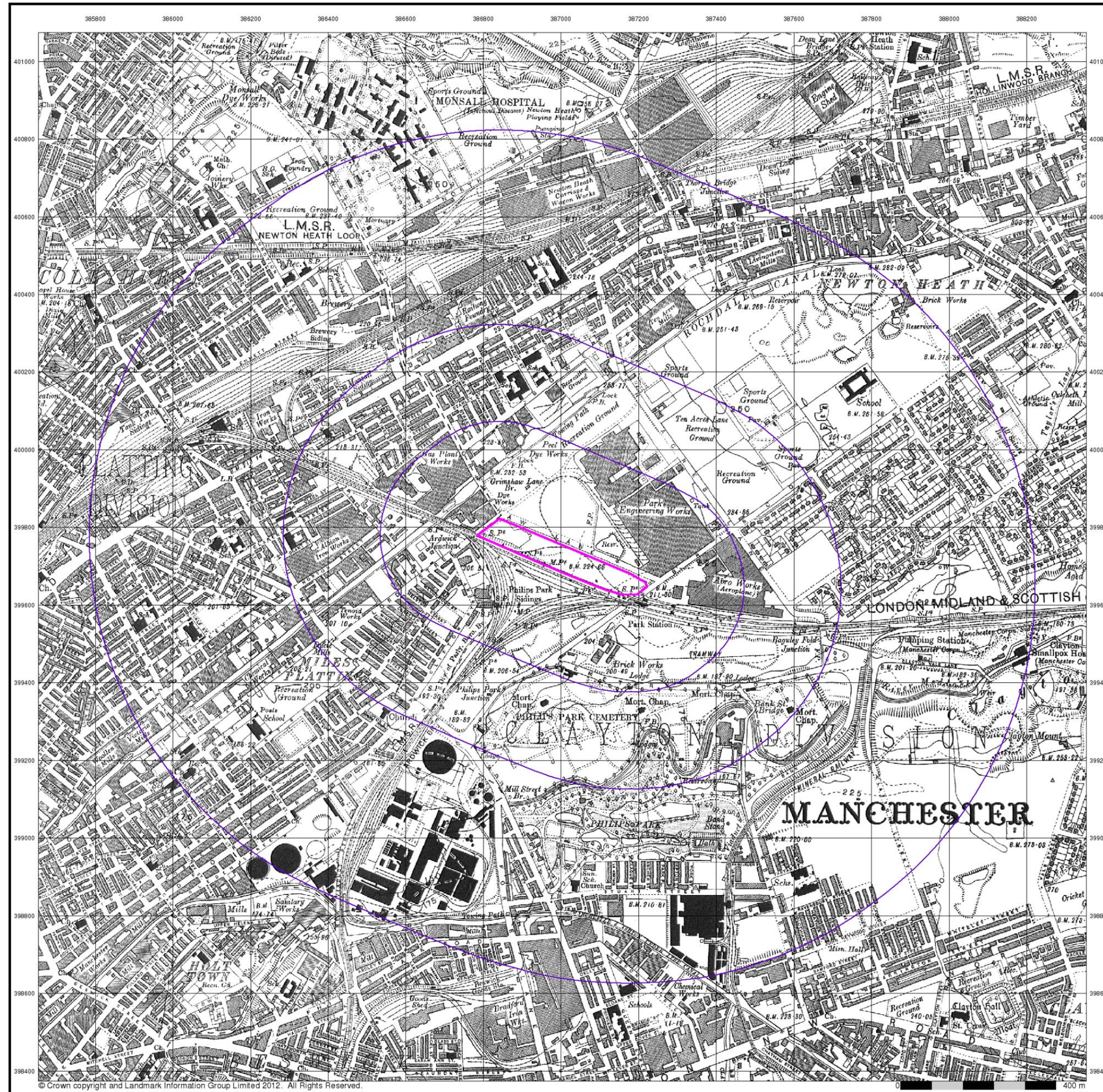
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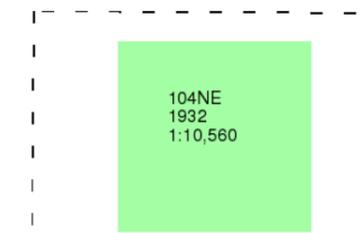
## Lancashire And Furness

Published 1932

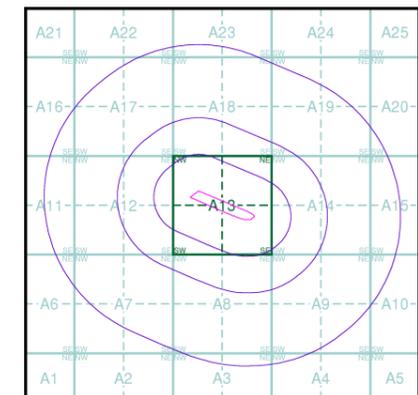
Source map scale - 1:10,560

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

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

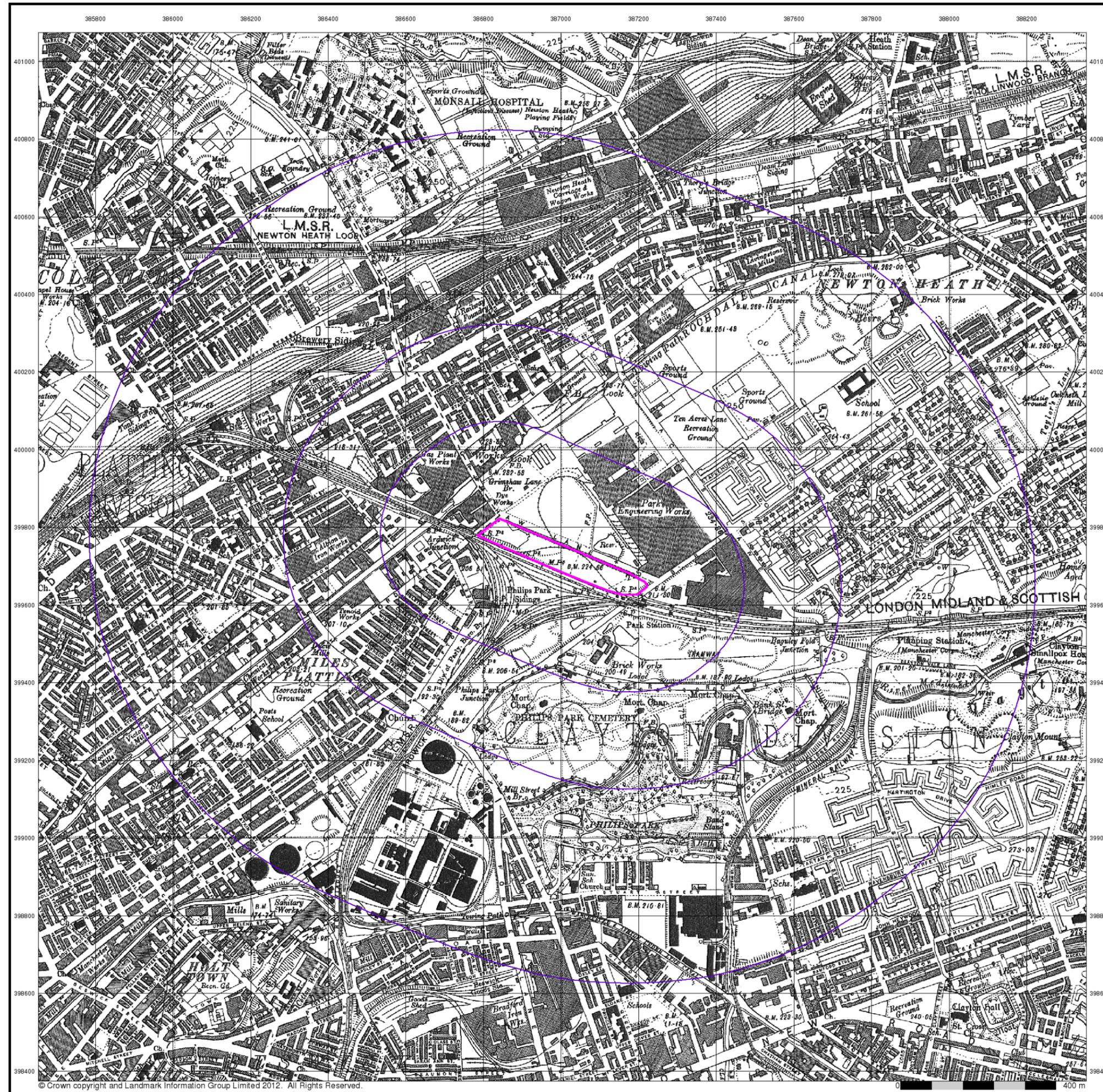
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 Slice: A  
 Site Area (Ha): 2.67  
 Search Buffer (m): 1000

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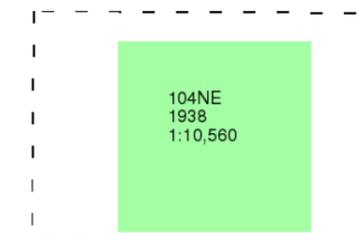
## Lancashire And Furness

Published 1938

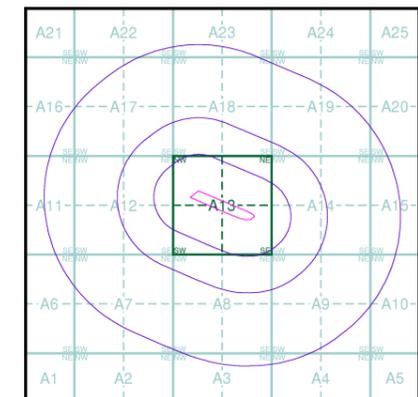
Source map scale - 1:10,560

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

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

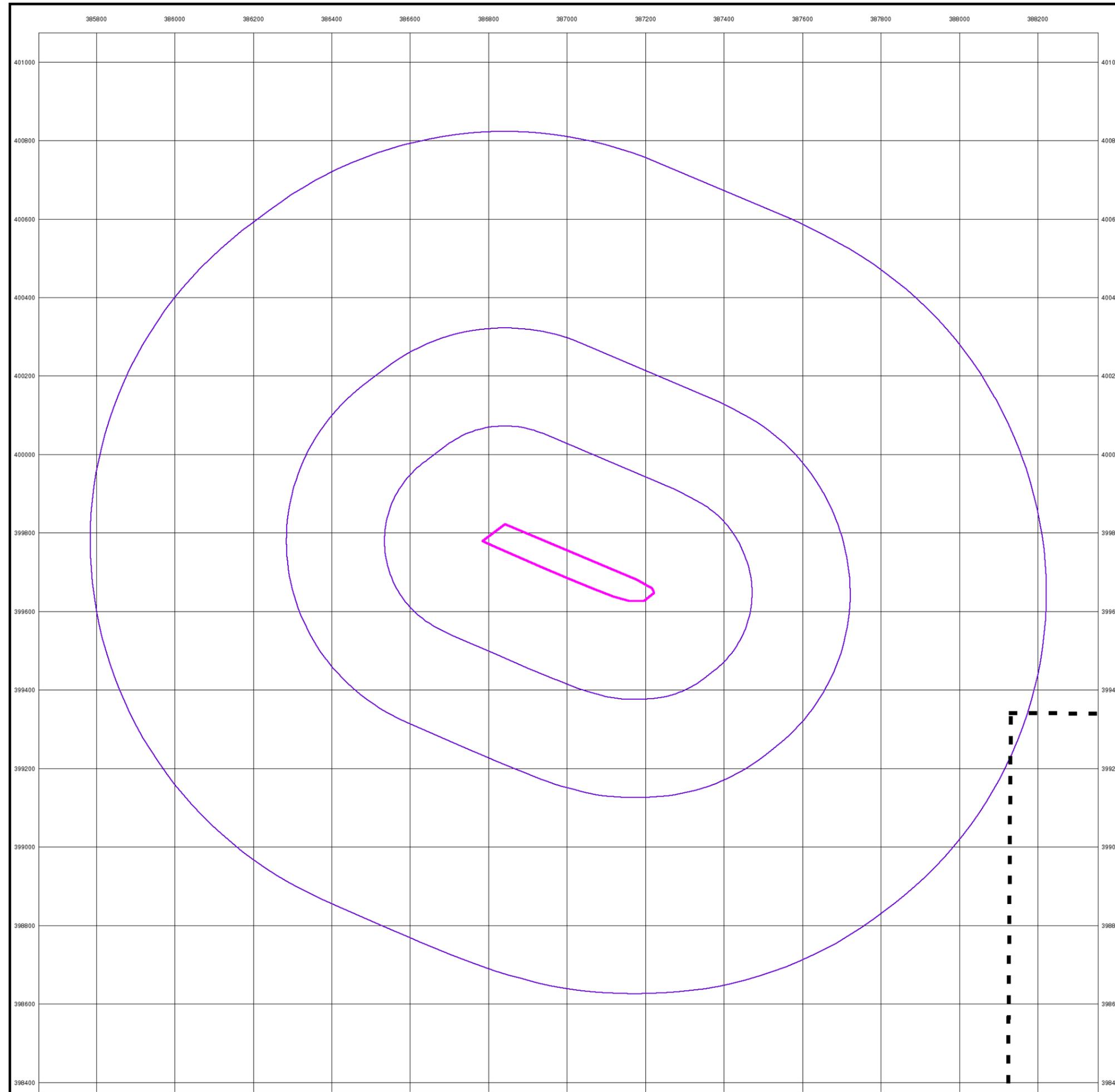
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 Search Buffer (m): 1000

### Site Details

Plot 1, Grimshaw Lane, Newton Heath, Manchester



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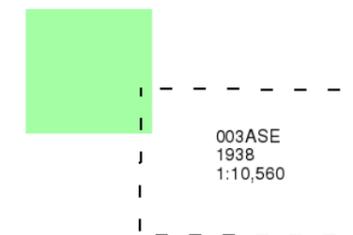
**Cheshire**

**Published 1938**

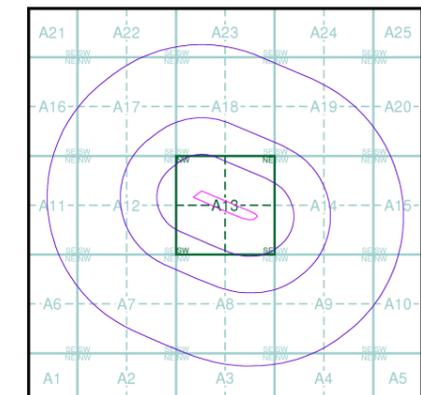
**Source map scale - 1:10,560**

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

**Map Name(s) and Date(s)**



**Historical Map - Slice A**



**Order Details**

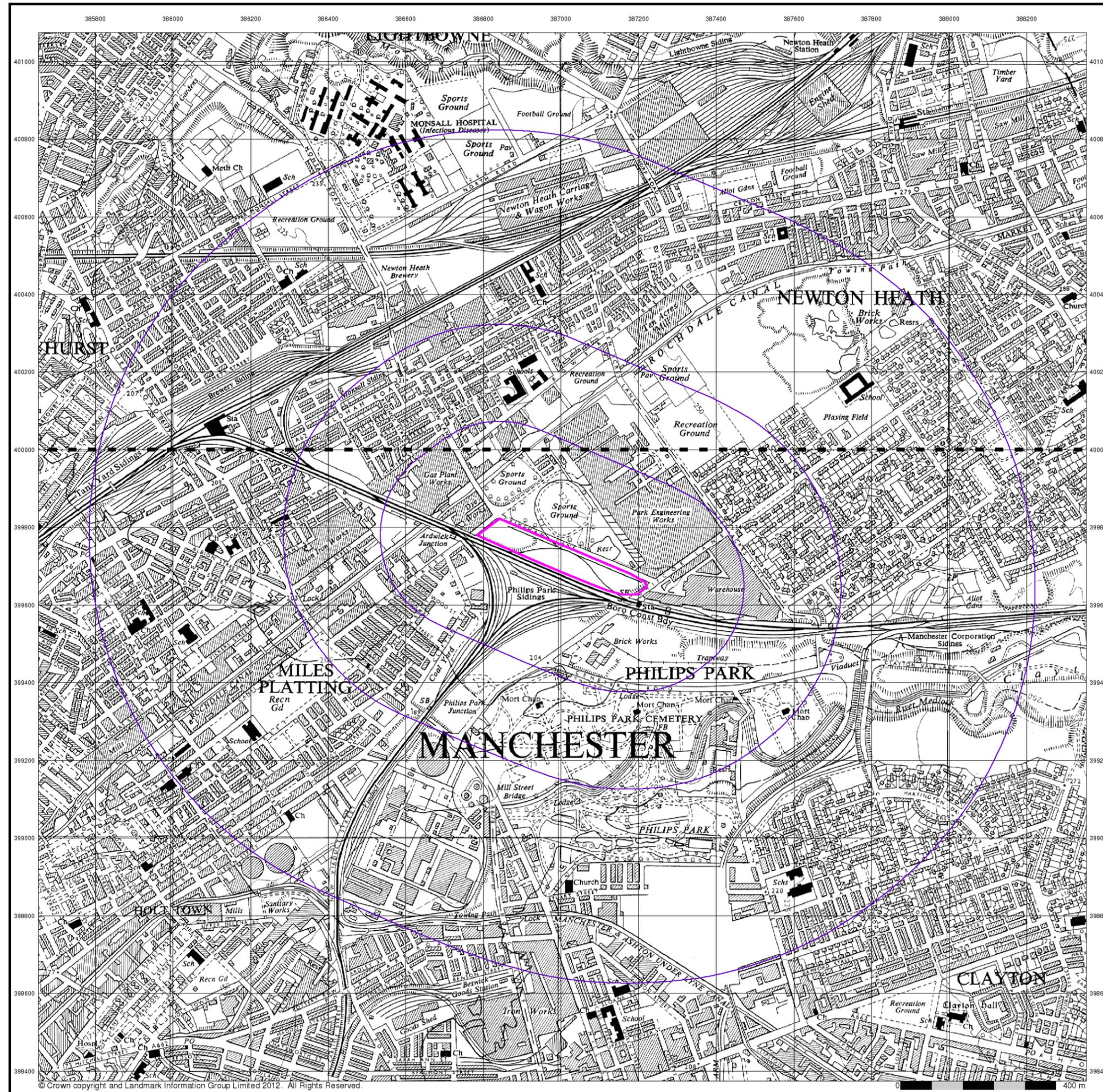
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 Search Buffer (m): 1000

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## Ordnance Survey Plan

Published 1956

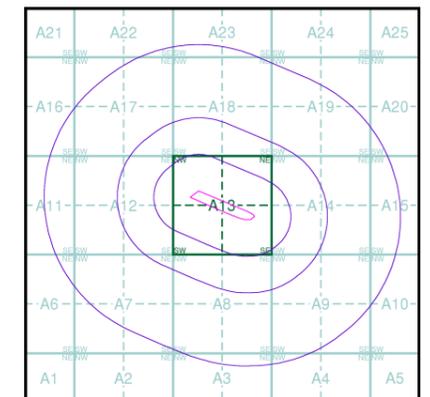
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

### Map Name(s) and Date(s)

SD80SE	1956
SJ89NE	1956

### Historical Map - Slice A



### Order Details

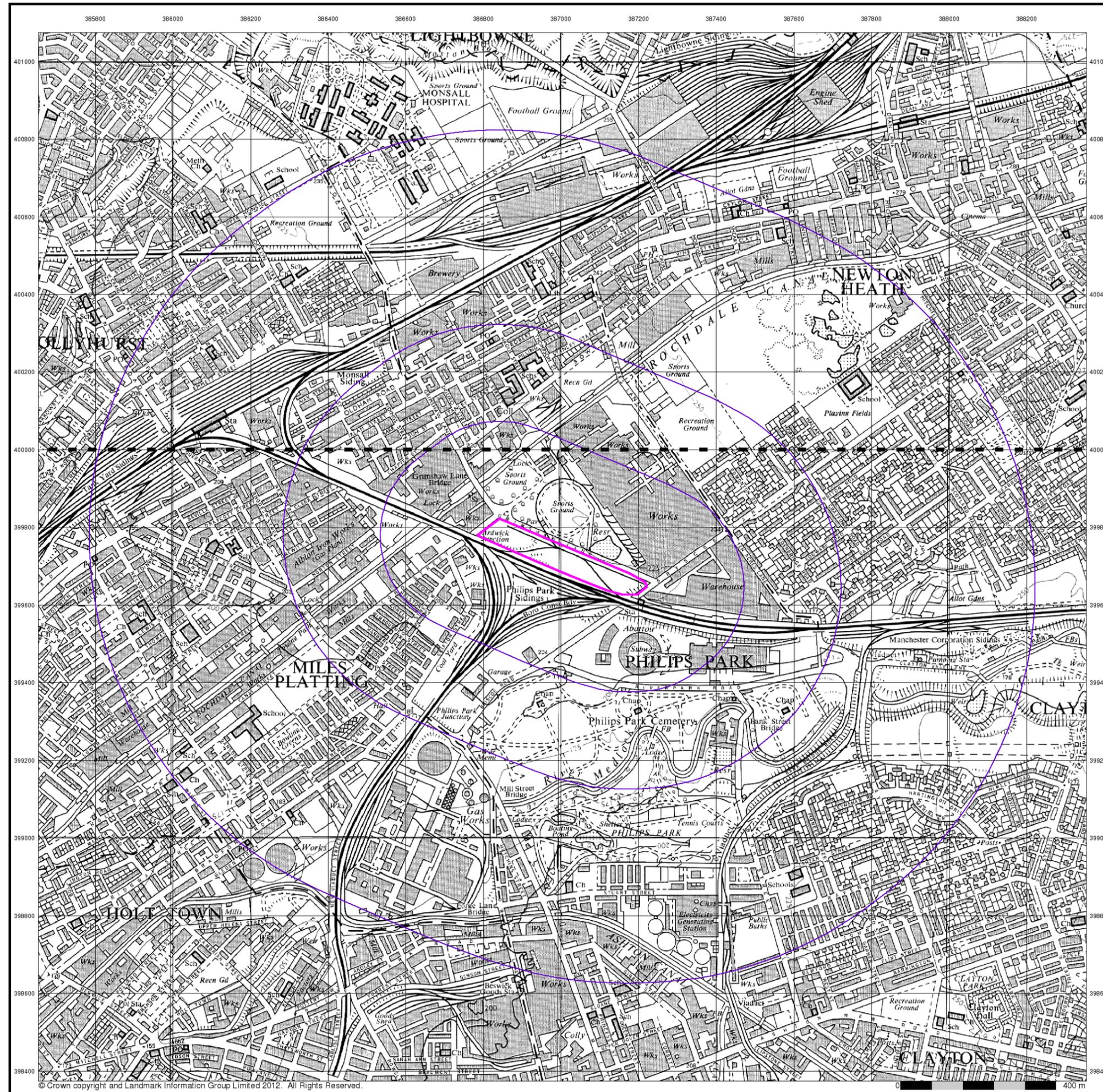
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 Site Area (Ha): 2.67  
 Search Buffer (m): 1000

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## Ordnance Survey Plan

Published 1966 - 1968

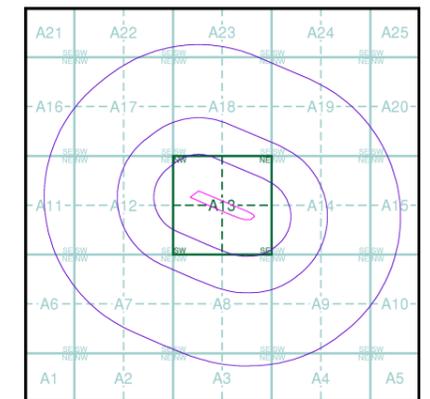
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

### Map Name(s) and Date(s)

SD80SE	1966
SJ89NE	1968

### Historical Map - Slice A



### Order Details

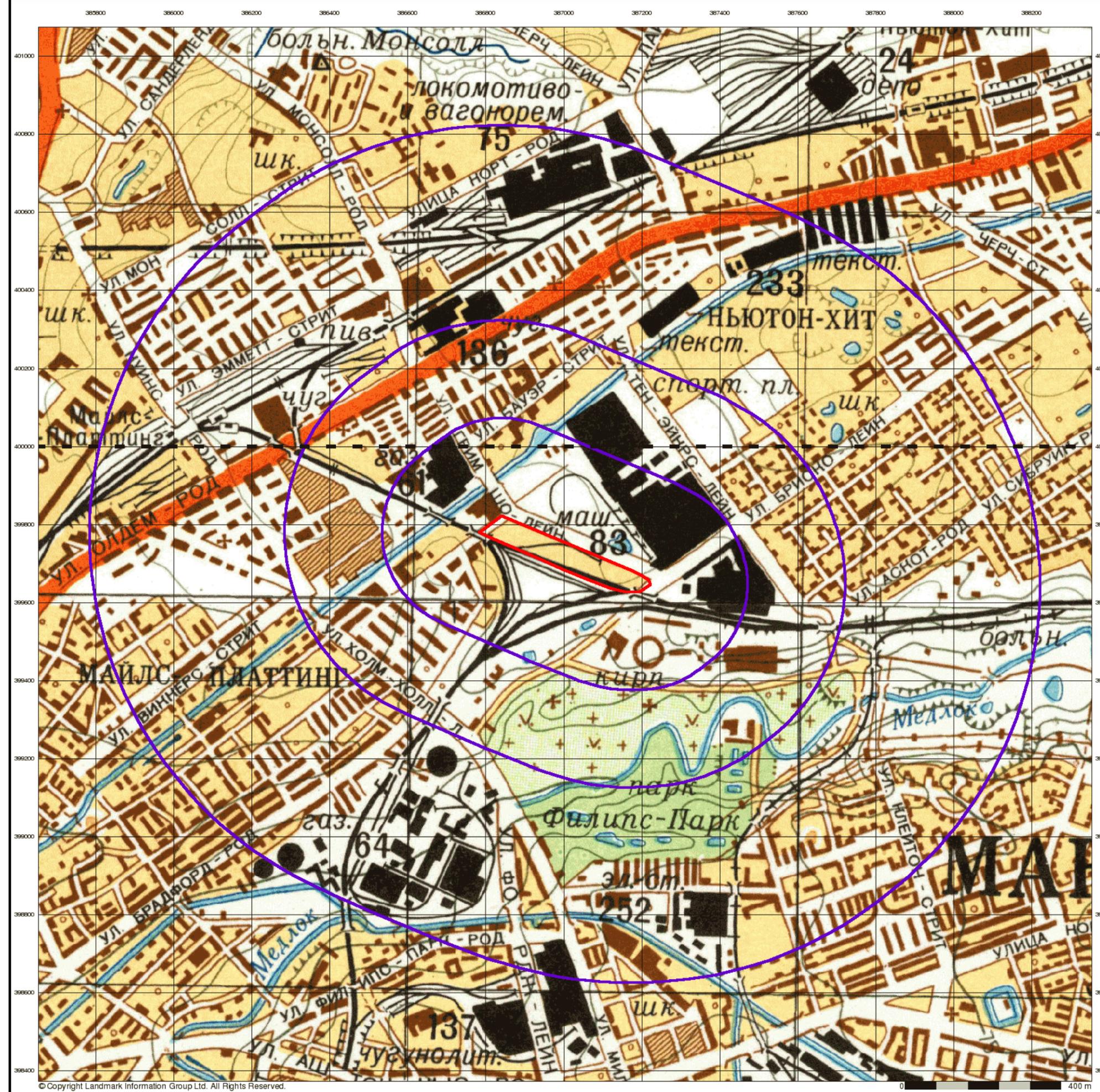
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 Search Buffer (m): 1000

### Site Details

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**Manchester**

**Published 1975**

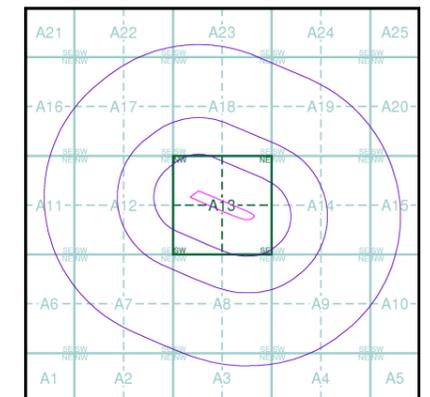
**Source map scale - 1:25,000**

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

**Map Name(s) and Date(s)**

SD80	1975	1:25,000
SJ89	1975	1:25,000

**Russian Map - Slice A**



**Order Details**

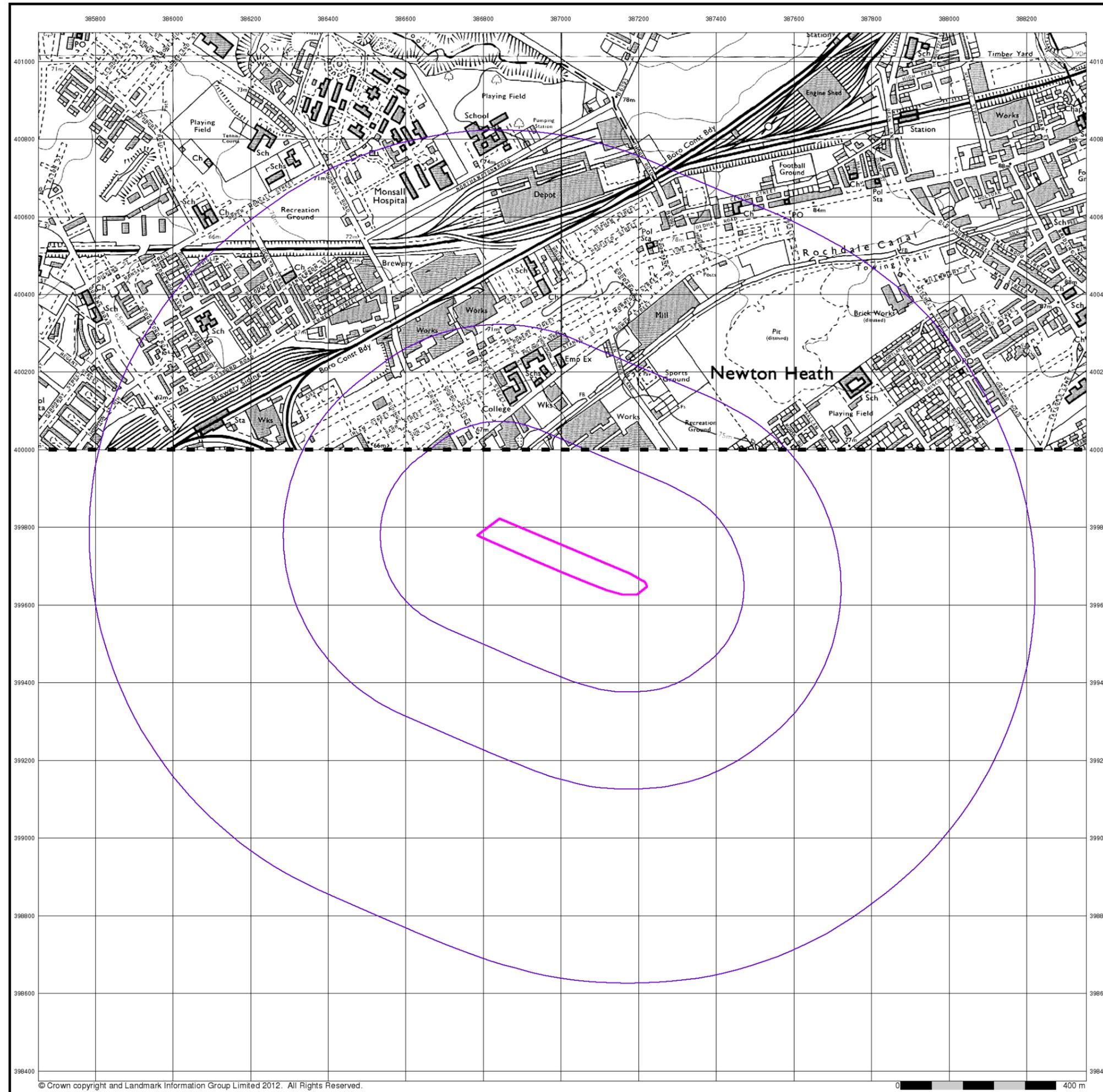
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 National Grid Reference: 387000, 399720  
 Slice: A  
 Site Area (Ha): 2.67  
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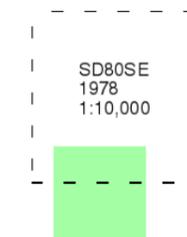
## Ordnance Survey Plan

Published 1978

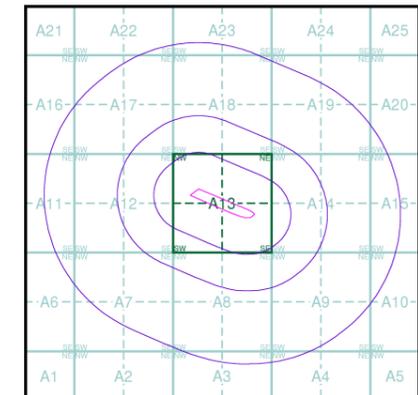
Source map scale - 1:10,000

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

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

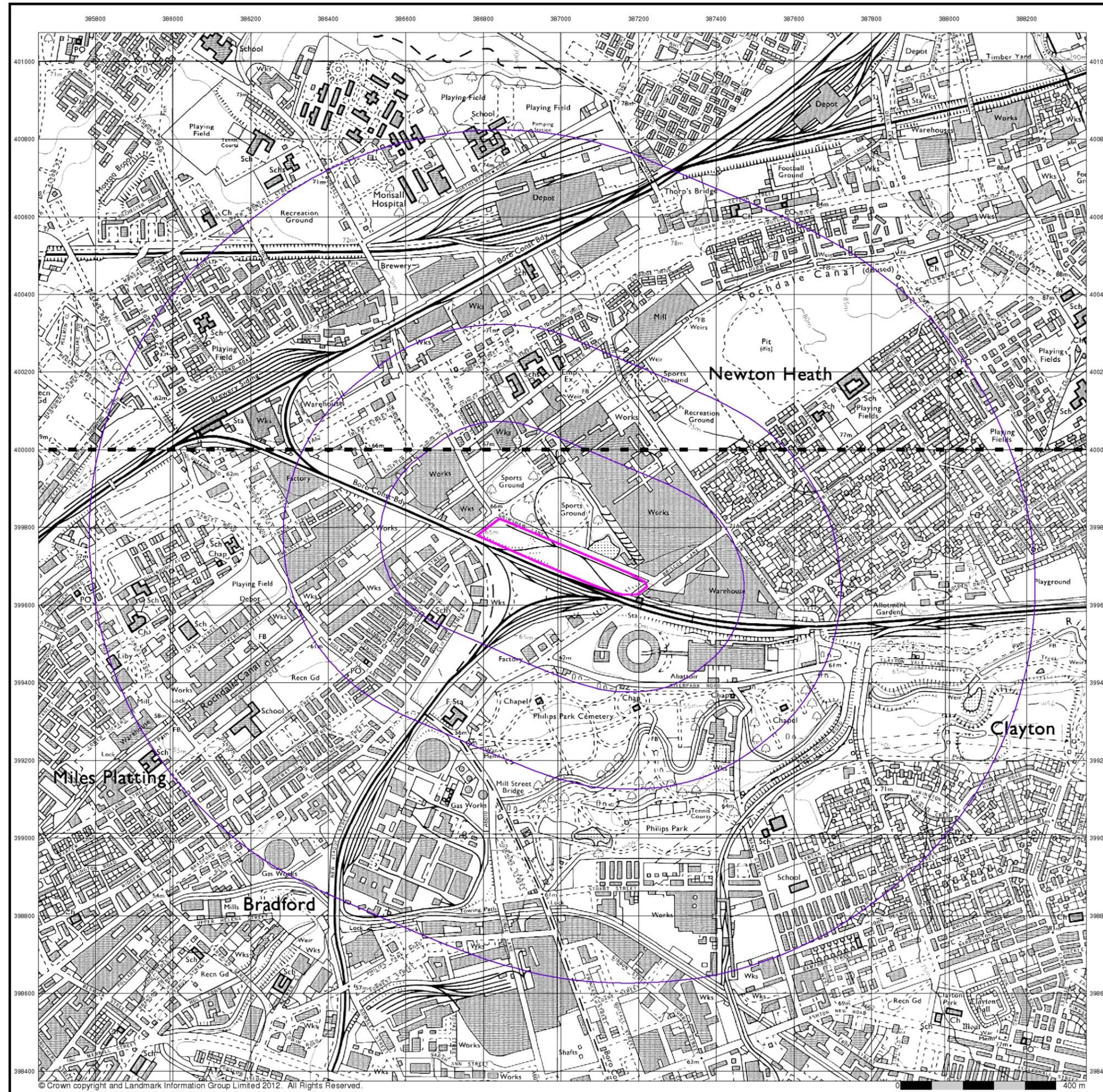
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 Search Buffer (m): 1000

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## Ordnance Survey Plan

Published 1981 - 1982

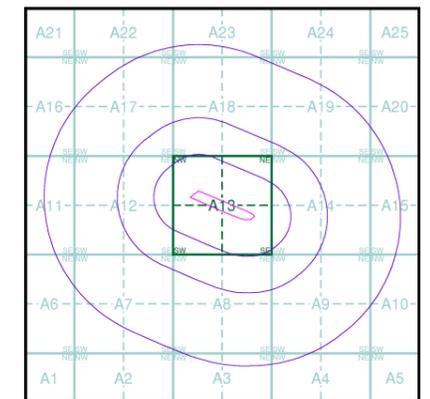
Source map scale - 1:10,000

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

### Map Name(s) and Date(s)

SD80SE	1982	1:10,000
SJ89NE	1981	1:10,000

### Historical Map - Slice A



### Order Details

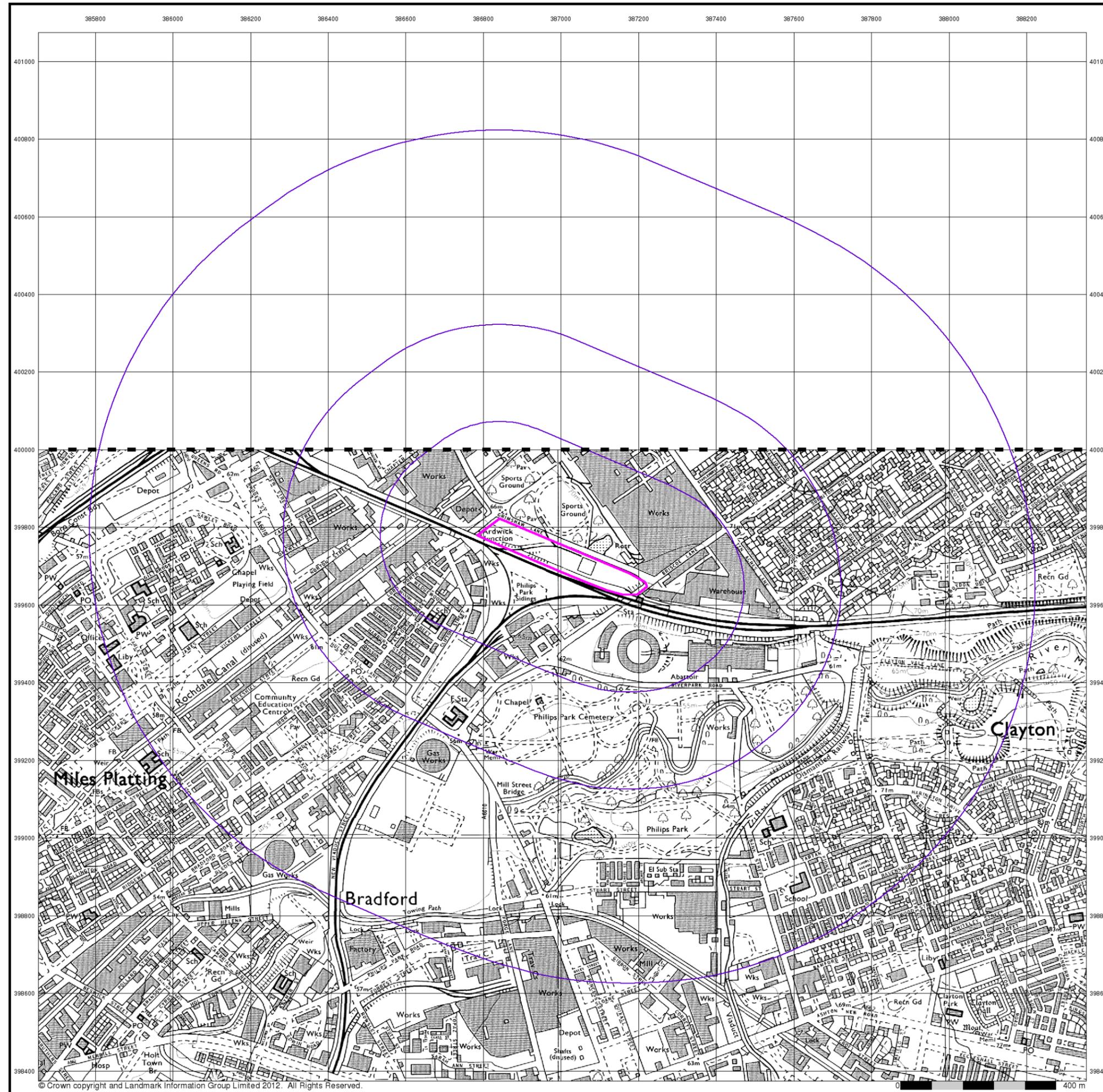
Order Number: 48456150\_1\_1  
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 National Grid Reference: 387000, 399720  
 Slice: A  
 Site Area (Ha): 2.67  
 Search Buffer (m): 1000

### Site Details

Plot 1, Grimshaw Lane, Newton Heath, Manchester



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



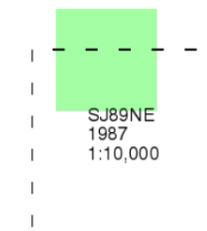
## Ordnance Survey Plan

Published 1987

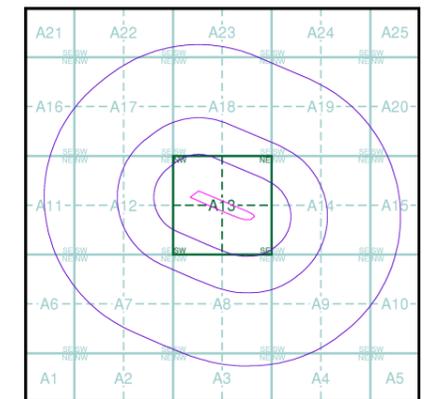
Source map scale - 1:10,000

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

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 48456150\_1\_1  
 Customer Ref: A083215 Plot 1  
 National Grid Reference: 387000, 399720  
 Slice: A  
 Site Area (Ha): 2.67  
 Search Buffer (m): 1000

### Site Details

Plot 1, Grimshaw Lane, Newton Heath, Manchester



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



## Ordnance Survey Plan

Published 1990 - 1993

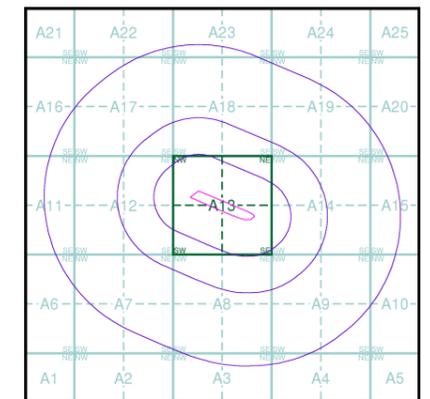
Source map scale - 1:10,000

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

### Map Name(s) and Date(s)

SD80SE	1990
SJ89NE	1993

### Historical Map - Slice A



### Order Details

Order Number: 48456150\_1\_1  
 Customer Ref: A083215 Plot 1  
 National Grid Reference: 387000, 399720  
 Slice: A  
 Site Area (Ha): 2.67  
 Search Buffer (m): 1000

### Site Details

Plot 1, Grimshaw Lane, Newton Heath, Manchester



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



### 10k Raster Mapping

Published 2006

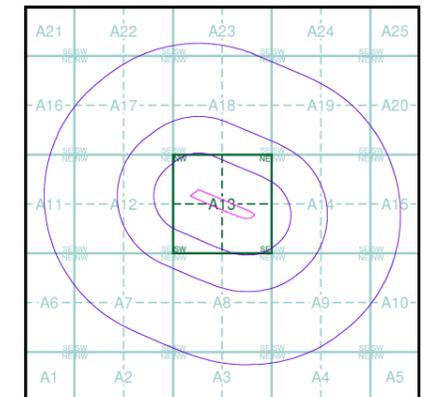
Source map scale - 1:10,000

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

### Map Name(s) and Date(s)

SD80SE	2006	1:10,000
SJ89NE	2006	1:10,000

### Historical Map - Slice A



### Order Details

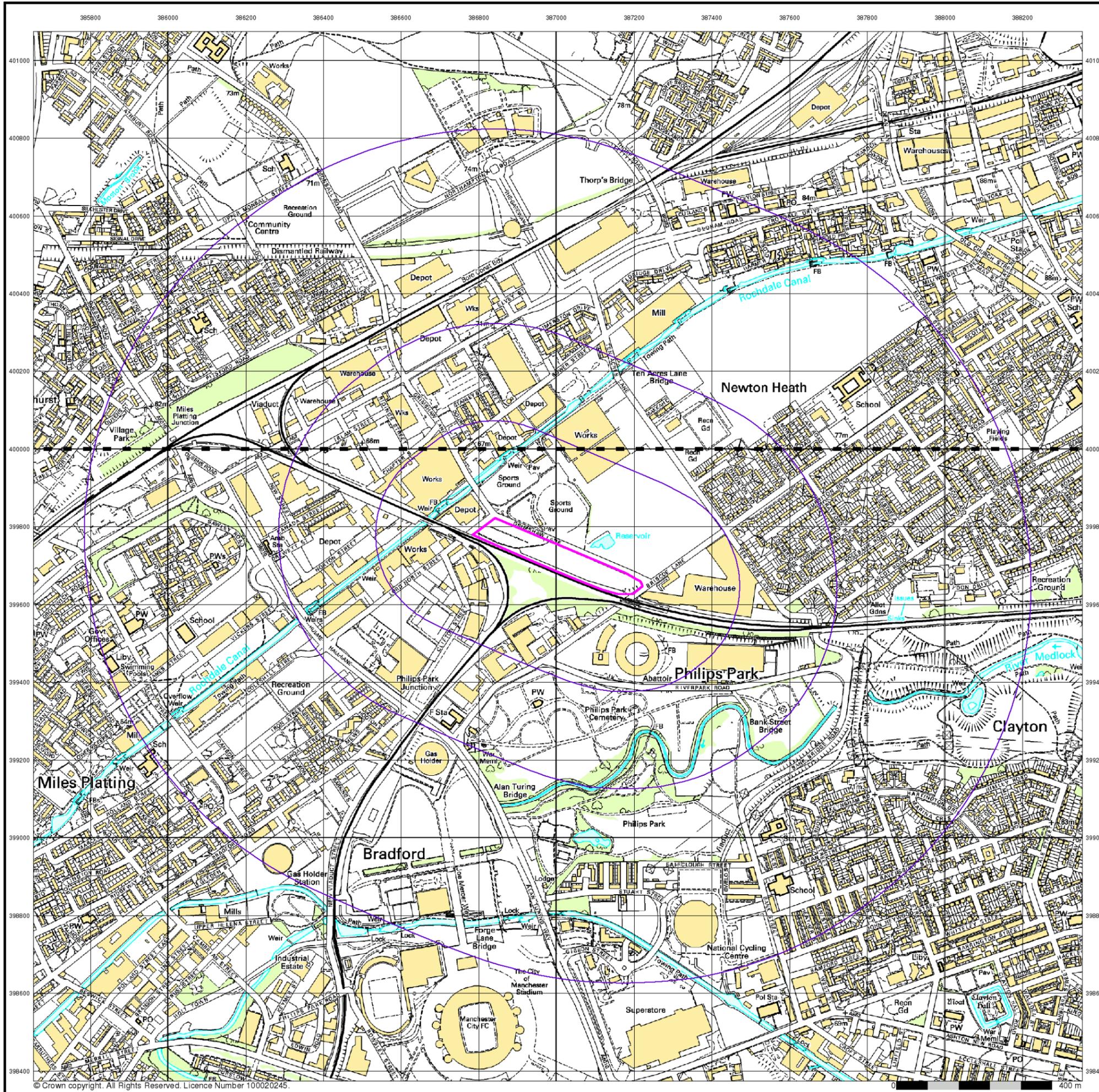
Order Number: 48456150\_1\_1  
 Customer Ref: A083215 Plot 1  
 National Grid Reference: 387000, 399720  
 Slice: A  
 Site Area (Ha): 2.67  
 Search Buffer (m): 1000

### Site Details

Plot 1, Grimshaw Lane, Newton Heath, Manchester



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



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### 10k Raster Mapping

Published 2013

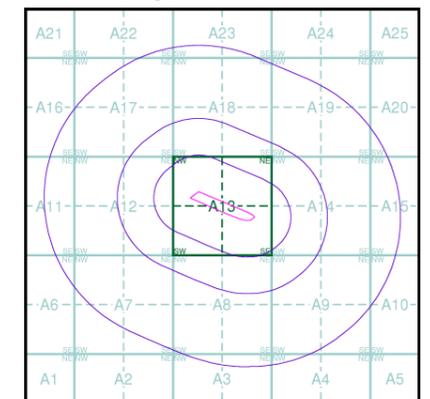
Source map scale - 1:10,000

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

### Map Name(s) and Date(s)

SD80SE	2013	1:10,000
SJ89NE	2013	1:10,000

### Historical Map - Slice A



### Order Details

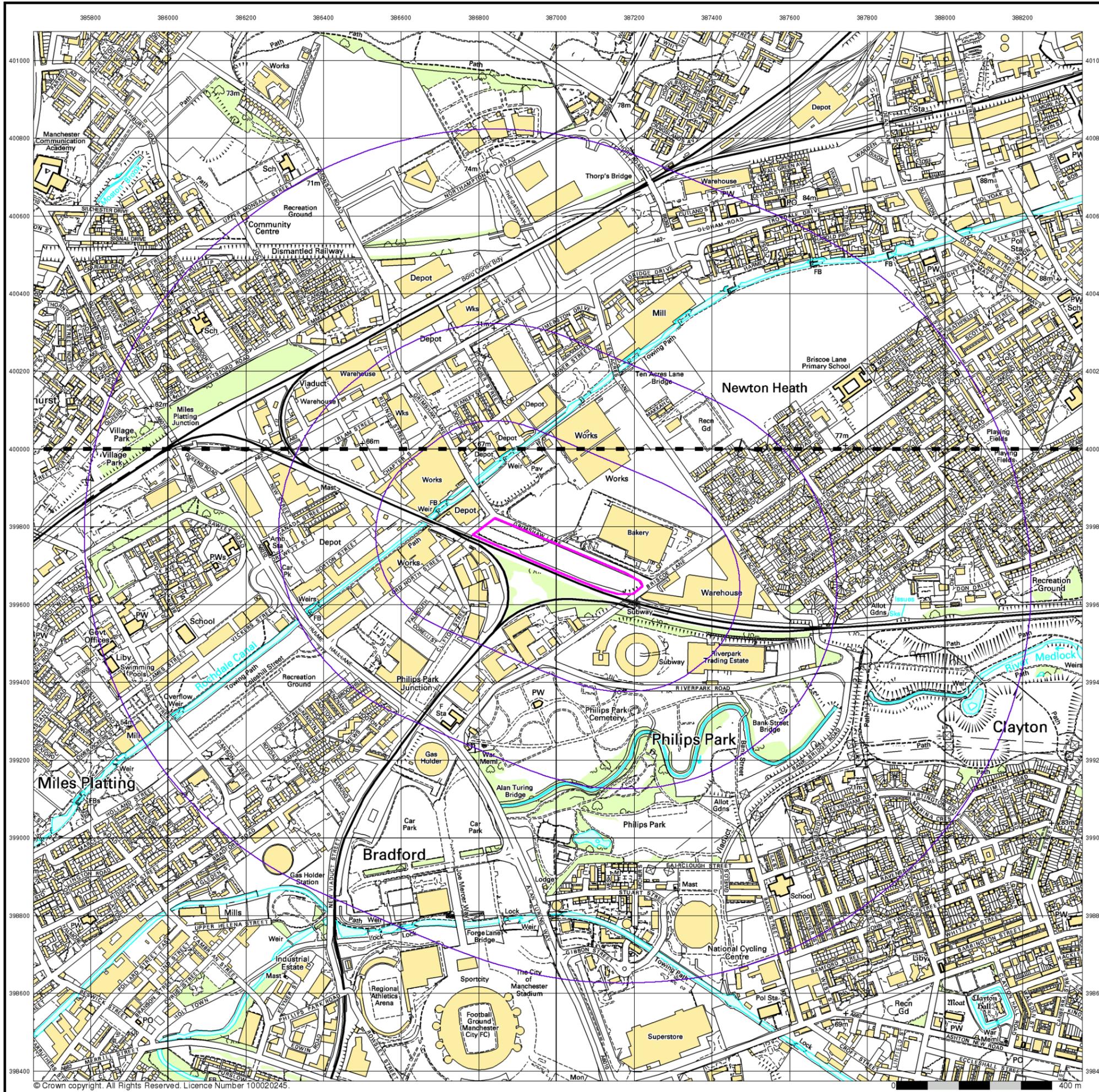
Order Number: 48456150\_1\_1  
 Customer Ref: A083215 Plot 1  
 National Grid Reference: 387000, 399720  
 Slice: A  
 Site Area (Ha): 2.67  
 Search Buffer (m): 1000

### Site Details

Plot 1, Grimshaw Lane, Newton Heath, Manchester



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



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## **Appendix D – Coal Authority Mining Report**

# The COAL AUTHORITY

Issued by:

The Coal Authority, Property Search Services, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, NG18 4RG

Website: www.groundstability.com Phone: 0845 762 6848 DX 716176 MANSFIELD 5

**WYG ENVIRONMENT PLANNING  
TRANSPORT LTD  
ARNDALE CENTRE  
ARNDALE COURT  
OTLEY ROAD  
LEEDS  
WEST YORKSHIRE  
LS6 2UJ**

Our reference: **51000355298001**  
Your reference: **A083215**  
Date of your enquiry: **22 August 2013**  
Date we received your enquiry: **22 August 2013**  
Date of issue: **22 August 2013**

This report is for the property described in the address below and the attached plan.

## **Non-Residential Coal Authority Mining Report**

### **WEIR PUMPS, NEWTON HEATH, MANCHESTER, GREATER MANCHESTER,**

This report is based on and limited to the records held by, the Coal Authority, and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Coal mining	See comments below
Brine Compensation District	No

### ***Information from the Coal Authority***

#### **Underground coal mining**

##### **Past**

The property is in the likely zone of influence from workings in 3 seams of coal at 130m to 600m depth, and last worked in 1964.

Any ground movement from these coal workings should have stopped by now.

In addition the property is in an area where the Coal Authority believe there is coal at or close to the surface. This coal may have been worked at some time in the past.

##### **Present**

The property is not in the likely zone of influence of any present underground coal workings.

##### **Future**

The property is not in an area for which the Coal Authority is determining whether to grant a licence to remove coal using underground methods.

The property is not in an area for which a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area that is likely to be affected at the surface from any planned future workings.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notice of the risk of the land being affected by subsidence has been given under section 46 of the Coal Mining Subsidence Act 1991.

### **Mine entries**

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

Records may be incomplete. Consequently, there may exist in the local area mine entries of which the Coal Authority has no knowledge.

### **Coal mining geology**

The Authority is not aware of any evidence of damage arising due to geological faults or other lines of weakness that have been affected by coal mining.

### **Opencast coal mining**

#### **Past**

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

#### **Present**

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

#### **Future**

The property is not within 800 metres of the boundary of an opencast site for which the Coal Authority is determining whether to grant a licence to remove coal by opencast methods.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

### **Coal mining subsidence**

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

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

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

### **Mine gas**

There is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the property.

### **Hazards related to coal mining**

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

### **Withdrawal of support**

The property is in an area for which notices of entitlement to withdraw support were published in 1955, 1963.

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

### **Working facilities orders**

The property is not in an area for which an Order has been made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

### **Payments to owners of former copyhold land**

The property is not in an area for which a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

## **Comments on Coal Authority information**

In view of the mining circumstances a prudent developer would seek appropriate technical advice before any works are undertaken.

Therefore if development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority. Developers should be aware that the investigation of coal seams/former mines of coal may have the potential to generate and/or displace underground gases and these risks both under and adjacent to the development should be fully considered in developing any proposals. The need for effective measures to prevent gases entering into public properties either during investigation or after development also needs to be assessed and properly addressed. This is necessary due to the public safety implications of any development in these circumstances.

## ***Information from the Cheshire Brine Subsidence Compensation Board***

The property lies outside the Cheshire Brine Compensation District.

## ***Additional Remarks***

This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions 2006. The Coal Authority owns the copyright in this report. The information we have used to write this report is protected by our database right. All rights are reserved and unauthorised use is prohibited. If we provide a report for you, this does not mean that copyright and any other rights will pass to you. However, you can use the report for your own purposes.





## **Appendix E - Exploratory Hole Logs**

# WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH

Tel: 0161 872 3223 Fax: 0161 872 3193

Exploratory Hole Number

**TP101**

Project : Weir Pumps, Newton Heath  
 Project Number : A083215  
 Client : HCA  
 Method : Machine Excavator  
 Co-ordinates :  
 Level :

Scale 1:50 Sheet 1 of 1

Logged By : AC  
 Checked By : RAJ  
 Start Date : 20/08/13  
 Finish Date : 20/08/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Casing (m)	Water Strike (m)	Installation Backfill	Sample Test		Notes / Remarks
							Depth	Type	
MADE GROUND: Tarmac.			0.15				0.20	ES1	
MADE GROUND: Red orange gravelly fine to coarse SAND with frequent cobbles of brick. Gravel is angular fine to coarse brick, wood, concrete, sandstone, plastic and decaying matter. No volatiles detected. At 0.5m bgl: Sandstone flags.			0.60				0.70	ES2	
Soft to firm black slightly sandy CLAY.			1.00				1.30	ES3 D4 B5	
Very stiff brown mottled blue grey silty CLAY. High strength at 1m bgl: Hand Vane = 80kPa.			2.80		2.70				
High strength at 2.5m bgl: Hand Vane = 130kPa.									
End of Window Sample at 2.80 m									

Observations / Remarks

1. Trial Pit undertaken on Plot 1.
2. Groundwater observed at 2.7m bgl.
3. Trial pit backfilled with arisings on completion

# WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH

Tel: 0161 872 3223 Fax: 0161 872 3193

Exploratory Hole Number

TP102

Project : Weir Pumps, Newton Heath  
 Project Number : A083215  
 Client : HCA  
 Method : Machine Excavator  
 Co-ordinates :  
 Level :

Scale 1:50 Sheet 1 of 1

Logged By : AC  
 Checked By : RAJ  
 Start Date : 22/08/13  
 Finish Date : 22/08/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Casing (m)	Water Strike (m)	Installation Backfill	Sample Test		Notes / Remarks
							Depth	Type	
MADE GROUND: Black tarmac.			0.20						
MADE GROUND: Black slightly gravelly fine to coarse SAND. Gravel is fine to coarse ash, brick and sandstone. Tarry odour. No volatiles detected.			0.80				0.40	ES1	
Firm to stiff brown grey slightly sandy CLAY.  From 1.6m bgl: Becoming stiff with sand lenses.			3.60				1.20	ES2 D3 B4	
End of Window Sample at 3.60 m									

Observations / Remarks

1. Trial pit excavated on Plot 1.
2. Groundwater not observed.
3. Hole backfilled with arisings on completion.

# WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH

Tel: 0161 872 3223 Fax: 0161 872 3193

Exploratory Hole Number

TP103

Project : Weir Pumps, Newton Heath  
 Project Number : A083215  
 Client : HCA  
 Method : Machine Excavator  
 Co-ordinates :  
 Level :

Scale 1:50 Sheet 1 of 1

Logged By : AC  
 Checked By : RAJ  
 Start Date : 22/08/13  
 Finish Date : 22/08/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Casing (m)	Water Strike (m)	Installation Backfill	Sample Test		Notes / Remarks
							Depth	Type	
Grass over MADE GROUND: Black gravelly fine to coarse SAND with rootlets. Gravel is angular fine to coarse ash, brick, slate and sandstone.			0.20						
			0.40				0.30	ES1	
MADE GROUND: Light grey slightly clayey fine to coarse SAND. No volatiles detected.							0.60	ES2 D3 B4	
Firm to stiff brown sandy CLAY. From 1m bgl: Becoming slightly sandy. High strength at 1.5m bgl: Hand Vane = 75kPa. From 1.8m bgl: Frequent sand lenses. High strength at 2m bgl: Hand Vane = 90kPa.									
End of Window Sample at 3.00 m			3.00						

Observations / Remarks

1. Trial pit excavated on Plot 1.
2. Groundwater not observed.
3. Hole backfilled with arisings on completion.

# WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH

Tel: 0161 872 3223 Fax: 0161 872 3193

Exploratory Hole Number

TP104

Project : Weir Pumps, Newton Heath  
 Project Number : A083215  
 Client : HCA  
 Method : Machine Excavator  
 Co-ordinates :  
 Level :

Scale 1:50 Sheet 1 of 1

Logged By : AC  
 Checked By : RAJ  
 Start Date : 22/08/13  
 Finish Date : 22/08/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Casing (m)	Water Strike (m)	Installation Backfill	Sample Test		Notes / Remarks
							Depth	Type	
Grass over MADE GROUND: Soft to firm black slightly sandy slightly gravelly CLAY with rootlets and low cobble content. Sand is fine to coarse. Gravel is angular fine to coarse brick and sandstone. No volatiles detected.			0.50				0.30	ES1	
Stiff to firm brown slightly sandy slightly gravelly CLAY. Gravel is angular fine and medium sandstone and mudstone.							1.00	ES2	
From 2m bgl: Becoming stiff with frequent silty lenses.									
High strength at 2.5m bgl: Hand Vane = 120kPa.			2.80						
End of Window Sample at 2.80 m									

Observations / Remarks

1. Trial pit excavated on Plot 1.
2. Groundwater not observed.
3. Hole backfilled with arisings on completion.

# WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH

Tel: 0161 872 3223 Fax: 0161 872 3193

Exploratory Hole Number

WS101

Project : Weir Pumps, Newton Heath  
 Project Number : A083215  
 Client : HCA  
 Method : Windowless Sampling  
 Co-ordinates :  
 Level :

Scale 1:50 Sheet 1 of 1

Logged By : SCM  
 Checked By : RAJ  
 Start Date : 20/08/13  
 Finish Date : 20/08/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Casing (m)	Water Strike (m)	Installation Backfill	Sample Test		Notes / Remarks
							Depth	Type	
MADE GROUND: Tarmac.			0.05						
MADE GROUND: Brown, red and black gravelly fine to coarse gravelly SAND with low cobble content of angular to subrounded brick. Sand is fine to coarse ash, sand and brick. Gravel is angular and subangular fine to coarse clinker, brick, concrete and coal.	[Cross-hatched pattern]		0.50			[Gravelly sand with brick and clinker]	0.30	ES1	N=11 (2,1,2,3,3,3)
			0.60				B2		
			0.70				ES3		
MADE GROUND: Brown and grey sandy slightly gravelly CLAY with low cobble content of subangular and subrounded limestone and mudstone. Sand is fine to coarse ash. Gravel is angular to subrounded fine to coarse brick, mudstone, coal, limestone and clinker.	[Stippled pattern]		1.30			[Clay with limestone and mudstone]	1.00	S	N=21 (3,3,4,5,5,7)
			1.80				B4		
Stiff brown mottled grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular to subangular fine and medium sandstone, mudstone and coal with occasional relict rootlets.			2.00				2.00	S	
End of Window Sample at 2.00 m									

### Observations / Remarks

- Hole drilled in Plot 1.
- Hand dug inspection pit to 1.2m prior to drilling.
- Groundwater not observed during drilling.
- On completion, hole installed with 50mm monitoring well with response zone 0.3-1.3m bgl.

# WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH

Tel: 0161 872 3223 Fax: 0161 872 3193

Exploratory Hole Number

**WS102**

Project : Weir Pumps, Newton Heath  
 Project Number : A083215  
 Client : HCA  
 Method : Windowless Sampling  
 Co-ordinates :  
 Level :

Scale 1:50 Sheet 1 of 1

Logged By : SCM  
 Checked By : RAJ  
 Start Date : 20/08/13  
 Finish Date : 20/08/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Casing (m)	Water Strike (m)	Installation Backfill	Sample Test		Notes / Remarks
							Depth	Type	
MADE GROUND: Tarmac.			0.08						
MADE GROUND: Brown and grey gravelly slightly silty fine to coarse SAND with low cobble content of angular to cubangular brick, concrete and sandstone. Gravel is angular and subangular clinker, brick, concrete, sandstone and coal with occasional fragments of pottery and glass.			0.70				0.40	ES1	N=8 (1,1,2,2,2,2)
			0.80				ES2		
			1.00				S		
MADE GROUND: Stiff black gravelly sandy CLAY. Sand is fine to coarse ash. Gravel is angular and subangular fine to coarse brick, clinker, coal and concrete.			1.10						
Stiff brown mottled grey slightly sandy slightly gravelly CLAY with numerous relict rootlets. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse sandstone, mudstone and coal.			2.00						N=14 (2,3,3,3,4,4)
			2.00					S	
End of Window Sample at 2.00 m									

**Observations / Remarks**

- Hole drilled in Plot 1.
- Hand dug inspection pit to 1.2m bgl prior to drilling.
- Groundwater not observed.
- On completion, hole installed with 50mm monitoring well with response zone 0.3-1.1m bgl.

# WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH

Tel: 0161 872 3223 Fax: 0161 872 3193

Exploratory Hole Number

**WS103**

Project : Weir Pumps, Newton Heath  
 Project Number : A083215  
 Client : HCA  
 Method : Windowless Sampler  
 Co-ordinates :  
 Level :

Scale 1:50 Sheet 1 of 1

Logged By : SCM  
 Checked By : RAJ  
 Start Date : 22/08/13  
 Finish Date : 22/08/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Casing (m)	Water Strike (m)	Installation Backfill	Sample Test		Notes / Remarks
							Depth	Type	
Grass over MADE GROUND: Dark grey and pale brown slightly gravelly silty fine to coarse SAND of ash with abundant rootlets and low cobble content of angular and subangular brick. Gravel is angular to subangular fine to coarse brick, clinker and sandstone.			0.30				0.20	ES1	N=7 (1,1,1,1,2,3)
		0.80			0.60		ES2		
MADE GROUND: Firm grey brown slightly gravelly sandy CLAY with occasional relict rootlets. Sand is fine to coarse ash. Gravel is angular and subangular fine to coarse clinker, brick and sandstone.			1.30		1.30		0.90 1.00	B3 S	
MADE GROUND: Firm to stiff dark grey slightly gravelly sandy CLAY with rare relict rootlets. Sand is fine to coarse ash. Gravel is angular and subangular clinker, sandstone, brick and concrete. Faint natural organic odour.			2.00				2.00	S	N=14 (2,3,3,3,4,4)
Stiff brown mottled grey slightly sandy slightly gravelly CLAY with numerous relict rootlets. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse coal, sandstone, quartzite and mudstone.									

End of Window Sample at 2.00 m

### Observations / Remarks

- Hole drilled on Plot 1.
- Groundwater observed at 1.3m bgl.
- On completion, hole installed with 50mm monitoring well with response zone 0.3-1.0m bgl.

# WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH

Tel: 0161 872 3223 Fax: 0161 872 3193

Exploratory Hole Number

**WS104**

Project : Weir Pumps, Newton Heath  
 Project Number : A083215  
 Client : HCA  
 Method : Windowless Sampler  
 Co-ordinates :  
 Level :

Scale 1:50 Sheet 1 of 1

Logged By : SCM  
 Checked By : RAJ  
 Start Date : 22/08/13  
 Finish Date : 22/08/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Casing (m)	Water Strike (m)	Installation Backfill	Sample Test		Notes / Remarks
							Depth	Type	
Grass over MADE GROUND: Dark brown slightly gravelly silty fine to coarse SAND of ash with abundant rootlets. Gravel is subrounded fine to coarse clinker, sandstone, brick and coal.			0.10						
			0.30				0.20	ES1	
			0.40				0.35	ES2	
MADE GROUND: Black gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse brick, concrete and sandstone with low cobble content of angular and subangular clinker and sandstone.							0.90	ES3	N=10 (2,2,2,2,3,3)
						1.00	S		
						1.40	B4		
MADE GROUND: Stiff brown mottled grey slightly sandy gravelly CLAY. Sand is fine to coarse ash. Gravel is angular and subrounded fine to coarse clinker, coal and sandstone.			2.00				2.00	S	N=24 (3,4,4,5,7,8)
Very stiff brown mottled grey slightly sandy slightly gravelly CLAY with low cobble content of subangular sandstone. Sand is fine to coarse. Gravel is subangular and rounded fine to coarse sandstone, coal, quartzite and mudstone.									

End of Window Sample at 2.00 m

**Observations / Remarks**

- Hole drilled on Plot 1.
- Groundwater not observed.
- On completion, hole installed with 50mm monitoring well with response zone 0.1-0.4m bgl.



Photo Plate No. 01: TP101 (20/8/13 facing east)



Photo Plate No. 02: TP101 (20/8/13 facing east)

**Quay West at MediaCityUK,  
Trafford Wharf Road,  
Trafford Park,  
Manchester M17 1HH**

**Tel: 0161 872 3223  
Fax: 0161 872 3192  
E-mail enquiries @wyg.com**



**Environmental Consultancy  
Ground Technologies & Investigation**

Project : Plot 1, Newton Heath

Client: HCA

Trial Pit Photo Plates

Project No.: A083215

Date: 02/09/13



Photo Plate No. 03: TP102 (20/8/13 facing east)



Photo Plate No. 04: TP102 (20/8/13 facing east)

**Quay West at MediaCityUK,  
Trafford Wharf Road,  
Trafford Park,  
Manchester M17 1HH**

**Tel: 0161 872 3223  
Fax: 0161 872 3192  
E-mail enquiries @wyg.com**



**Environmental Consultancy  
Ground Technologies & Investigation**

Project : Plot 1, Newton Heath

Client: HCA

Trial Pit Photo Plates

Project No.: A083215

Date: 05/09/13



Photo Plate No. 05: TP103 (20/8/13 facing east)



Photo Plate No. 06: TP103 (20/8/13 facing east)

**Quay West at MediaCityUK,  
Trafford Wharf Road,  
Trafford Park,  
Manchester M17 1HH**

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Fax: 0161 872 3192  
E-mail enquiries @wyg.com**



**Environmental Consultancy  
Ground Technologies & Investigation**

Project : Plot 1, Newton Heath

Client: HCA

Trial Pit Photo Plates

Project No.: A083215

Date: 05/09/13



Photo Plate No. 05: TP104 (20/8/13 facing east)



Photo Plate No. 06: TP104 (20/8/13 facing east)

**Quay West at MediaCityUK,  
Trafford Wharf Road,  
Trafford Park,  
Manchester M17 1HH**

**Tel: 0161 872 3223  
Fax: 0161 872 3192  
E-mail enquiries @wyg.com**



**Environmental Consultancy  
Ground Technologies & Investigation**

Project : Plot 1, Newton Heath

Client: HCA

Trial Pit Photo Plates

Project No.: A083215

Date: 05/09/13



## **Appendix F – Chemical Laboratory Results**



# Jones Environmental Laboratory

Unit 3 Deeside Point  
Zone 3  
Deeside Industrial Park  
Deeside  
CH5 2UA

WYG  
Quay West at MediaCityUK  
Trafford Wharf Road  
Trafford Park  
Manchester  
M17 1HH

Tel: +44 (0) 1244 833780

Fax: +44 (0) 1244 833781



No.4225



**Attention :** John Taylor  
**Date :** 6th September, 2013  
**Your reference :** A083215  
**Our reference :** Test Report 13/7670 Batch 1  
**Location :** WEIR PUMPS SITE NEWTON HEATH  
**Date samples received :** 22nd August, 2013  
**Status :** Final report  
**Issue :** 1

Twenty three samples were received for analysis on 22nd August, 2013. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

## Compiled By:

**Kim Mills**  
Project Co-ordinator

**Bob Millward BSc FRSC**  
Principal Chemist







# NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 13/7670

## SOILS

Please note we are only MCERTS accredited for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. If we are instructed to keep samples, a storage charge of £1 (1.5 Euros) per sample per month will be applied until we are asked to dispose of them.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

## WATERS

Please note we are not a Drinking Water Inspectorate (DWI) Approved Laboratory. It is important that detection limits are carefully considered when requesting water analysis.

UKAS accreditation applies to surface water and groundwater and one other matrix which is analysis specific, any other liquids are outside our scope of accreditation

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

## DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

## SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

## NOTE

Data is only accredited when all the requirements of our Quality System have been met. In certain circumstances where the requirements have not been met, the laboratory may issue the data in an interim report but will remove the accreditation, in this instance results should be considered indicative only. Where possible samples will be re-extracted and a final report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

**ABBREVIATIONS and ACRONYMS USED**

#	UKAS accredited.
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance.
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to a Jones Environmental approved laboratory.
CO	Suspected carry over
OC	Outside Calibration Range
NFD	No Fibres Detected





# Jones Environmental Laboratory

Unit 3 Deeside Point  
Zone 3  
Deeside Industrial Park  
Deeside  
CH5 2UA

WYG  
Quay West at MediaCityUK  
Trafford Wharf Road  
Trafford Park  
Manchester  
M17 1HH

Tel: +44 (0) 1244 833780

Fax: +44 (0) 1244 833781



No.4225



**Attention :** John Taylor  
**Date :** 4th September, 2013  
**Your reference :** A083215  
**Our reference :** Test Report 13/7815 Batch 1  
**Location :** NEWTON HEATH  
**Date samples received :** 28th August, 2013  
**Status :** Final report  
**Issue :** 1

Seven samples were received for analysis on 28th August, 2013. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

## Compiled By:

**Kim Mills**  
Project Co-ordinator

**Bob Millward BSc FRSC**  
Principal Chemist







# NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 13/7815

## SOILS

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It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. If we are instructed to keep samples, a storage charge of £1 (1.5 Euros) per sample per month will be applied until we are asked to dispose of them.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

## WATERS

Please note we are not a Drinking Water Inspectorate (DWI) Approved Laboratory. It is important that detection limits are carefully considered when requesting water analysis.

UKAS accreditation applies to surface water and groundwater and one other matrix which is analysis specific, any other liquids are outside our scope of accreditation

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

## DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

## SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

## NOTE

Data is only accredited when all the requirements of our Quality System have been met. In certain circumstances where the requirements have not been met, the laboratory may issue the data in an interim report but will remove the accreditation, in this instance results should be considered indicative only. Where possible samples will be re-extracted and a final report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

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*	Analysis subcontracted to a Jones Environmental approved laboratory.
CO	Suspected carry over
OC	Outside Calibration Range
NFD	No Fibres Detected





# Jones Environmental Laboratory

Unit 3 Deeside Point  
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Deeside Industrial Park  
Deeside  
CH5 2UA

WYG  
Quay West at MediaCityUK  
Trafford Wharf Road  
Trafford Park  
Manchester  
M17 1HH

Tel: +44 (0) 1244 833780

Fax: +44 (0) 1244 833781



No.4225



**Attention :** John Taylor  
**Date :** 4th September, 2013  
**Your reference :** A083215  
**Our reference :** Test Report 13/7817 Batch 1  
**Location :** WEIR PUMPS SITE  
**Date samples received :** 28th August, 2013  
**Status :** Final report  
**Issue :** 1

Five samples were received for analysis on 28th August, 2013. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

## Compiled By:

**Kim Mills**  
Project Co-ordinator

**Bob Millward BSc FRSC**  
Principal Chemist







# NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 13/7817

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Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

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## NOTE

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+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
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*	Analysis subcontracted to a Jones Environmental approved laboratory.
CO	Suspected carry over
OC	Outside Calibration Range
NFD	No Fibres Detected





## **Appendix G – Geotechnical Laboratory Results**



# LABORATORY REPORT



4043

**Contract Number: PSL13/3106**

Client's Reference:

Report Date: 06 September 2013

Client Name: WYG Manchester  
Quay West at MediaCityUK  
Trafford Wharf Road  
Trafford Park  
Manchester  
M17 1HH

**For the attention of: John Taylor**

Contract Title: Weir Pumps, Newton Heath, Manchester

Date Received: 02/09/2013  
Date Commenced: 02/09/2013  
Date Completed: 06/09/2013

**Notes: Observations and Interpretations are outside the UKAS Accreditation**

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

R Gunson  
(Director)

A Watkins  
(Director)

  
M Beastall  
(Laboratory Manager)

# SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Depth m	Description of Sample
WS101		B	1.80	Brown slightly gravelly sandy CLAY.
WS103		B	0.90	Brown sandy CLAY.
WS104		B	1.40	Brown slightly gravelly sandy CLAY.
WS204		B	2.60	Dark brown gravelly sandy CLAY.
WS204		B	4.40	Brown slightly gravelly sandy CLAY.
WS301		B	2.40	Brown mottled grey slightly gravelly sandy CLAY.
TP101		D	1.30	Brown mottled grey sandy CLAY.
TP102		D	1.20	Brown mottled grey slightly sandy CLAY.
TP103		D	0.60	Brown sandy CLAY.
TP202		D	2.50	Brown mottled grey sandy CLAY.
TP302		D	0.80	Brown mottled grey slightly gravelly sandy CLAY.
TP304		D	2.70	Reddish brown mottled grey sandy CLAY.
TP401		D	1.20	Brown mottled grey slightly gravelly sandy CLAY.
TP402		B	1.60	Brown mottled grey sandy CLAY.
TP403		D	1.60	Brown mottled grey sandy CLAY.
TP404		D	2.30	Brown slightly gravelly sandy CLAY.

 <b>Professional Soils Laboratory</b>	Compiled by	Date	Checked by	Date	Approved by	Date
		05/09/13		06/09/13		06/09/13
	WEIR PUMPS, NEWTON HEATH, MANCHESTER.				Contract No:	PSL13/3106
					Client Ref:	A083215

# SUMMARY OF SOIL CLASSIFICATION TESTS

(B.S. 1377 : PART 2 : 1990)

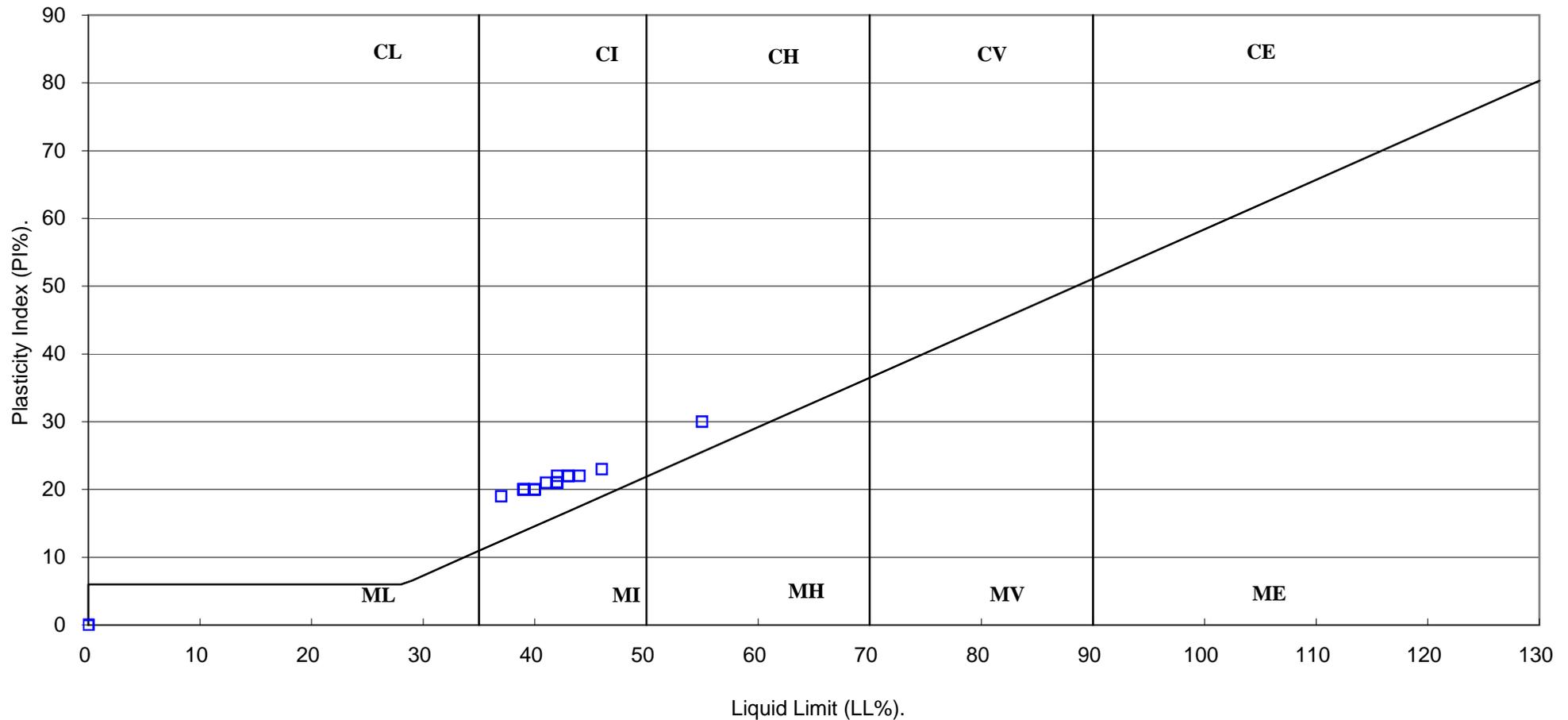
Hole Number	Sample Number	Sample Type	Depth m	Moisture Content % <small>Clause 3.2</small>	Bulk Density Mg/m <sup>3</sup> <small>Clause 7.2</small>	Dry Density Mg/m <sup>3</sup> <small>Clause 7.2</small>	Particle Density Mg/m <sup>3</sup> <small>Clause 8.</small>	Liquid Limit % <small>Clause 4.3/4.4</small>	Plastic Limit % <small>Clause 5.</small>	Plasticity Index % <small>Clause 5.4</small>	% Passing .425mm	Remarks
WS101		B	1.80	17				43	21	22	91	Intermediate plasticity CI.
WS103		B	0.90	22				39	19	20	100	Intermediate plasticity CI.
WS104		B	1.40	17				46	23	23	93	Intermediate plasticity CI.
WS204		B	2.60	21				42	20	22	79	Intermediate plasticity CI.
WS204		B	4.40	17				40	20	20	94	Intermediate plasticity CI.
WS301		B	2.40	17				37	18	19	93	Intermediate plasticity CI.
TP101		D	1.30	19				42	21	21	100	Intermediate plasticity CI.
TP102		D	1.20	23				55	25	30	100	High plasticity CH.
TP103		D	0.60	22				43	21	22	100	Intermediate plasticity CI.
TP202		D	2.50	19				42	21	21	100	Intermediate plasticity CI.
TP302		D	0.80	18				39	19	20	92	Intermediate plasticity CI.
TP304		D	2.70	19				41	20	21	100	Intermediate plasticity CI.
TP401		D	1.20	17				42	21	21	96	Intermediate plasticity CI.
TP402		B	1.60	16				39	19	20	100	Intermediate plasticity CI.
TP403		D	1.60	17				44	22	22	100	Intermediate plasticity CI.
TP404		D	2.30	16				40	20	20	92	Intermediate plasticity CI.

SYMBOLS : NP : Non Plastic

 <p><b>Professional Soils Laboratory</b></p>	Compiled by	Date	Checked by	Date	Approved by	Date	
		05/09/13		06/09/13		06/09/13	
	<b>WEIR PUMPS, NEWTON HEATH, MANCHESTER.</b>					Contract No:	<b>PSL13/3106</b>
						Client Ref:	<b>A083215</b>

# PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.

(B.S.5930 : 1999)



Compiled by	Date	Checked by	Date	Approved by	Date
<i>[Signature]</i>	05/09/13	<i>[Signature]</i>	06/09/13	<i>[Signature]</i>	06/09/13
<b>WEIR PUMPS, NEWTON HEATH, MANCHESTER.</b>				Contract No:	PSL13/3106
				Client Ref:	A083215



2139

## Certificate of Analysis

Date: 09/09/2013

Certificate Number: 13-88155

Client: Professional Soils Laboratory Ltd  
5/7 Hexthorpe Road  
Hexthorpe  
DN4 0AR

Our Reference: 13-88155

Client Reference: PSL13/3106

Contract Title: Weir Pumps, Newton Heath, Manchester

Description: 17 soil samples

Date Received: 03 September 2013

Date Started: 04 September 2013

Date Completed: 09 September 2013

Test Procedures: Identified by prefix DETSn, details available upon request.

Notes: Observations and interpretations are outside the scope of UKAS accreditation

Approved By:   
Rob Brown, Business Manager

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

# Information in Support of the Analytical Results

## **Analysis**

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425um sieve, in accordance with BS1377.

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28oC +/-2oC.

### **Key**

- \* Denotes test not included in laboratory scope of accreditation
- # Denotes test that holds MCERTS accreditation, however, MCERTS accreditation is only implied if the report carries the MCERTS logo
- \$ Denotes tests completed by an approved subcontractor
- I/S Denotes insufficient sample to carry out test
- U/S Denotes that the sample is not suitable for testing

## **Disposal**

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month

Liquids - 2 weeks

Asbestos (test portion) - 6 months

# Summary of Chemical Analysis

## Soil Samples

Our Ref: 13-88155

Client Ref: PSL13/3106

Contract Title: Weir Pumps, Newton Heath, Manchester

			Lab No.	551557	551558	551559	551560	551561
			Sample ID	WS101	WS103	TP101	TP102	TP103
			Depth	0.60	0.90	1.30	1.20	0.60
			Sample Ref					
			Sample Type	B	B	D	D	D
			Sampling Date	//	//	//	//	//
			Sampling Time					
Test	Units	DETSxx	LOD					
Organic matter	%	DETSC 2002#	0.1	1.2	1.6	1.7		
Sulphate Aqueous Extract as SO4	mg/l	DETSC 2076#	10	98	44	46	29	16
pH		DETSC 2008#		8.1	8.4	8.5	7.9	7.8

# Summary of Chemical Analysis

## Soil Samples

Our Ref: 13-88155

Client Ref: PSL13/3106

Contract Title: Weir Pumps, Newton Heath, Manchester

			Lab No.	551562	551563	551564	551565	551566
			Sample ID	WS204	WS204	TP201	TP202	WS301
			Depth	2.60	4.40	0.40	2.50	1.00
			Sample Ref					
			Sample Type	B	B	D	D	B
			Sampling Date	//	//	//	//	//
			Sampling Time					
Test	Units	DETSxx	LOD					
Organic matter	%	DETSC 2002#	0.1	3.3		3.2		4.8
Sulphate Aqueous Extract as SO4	mg/l	DETSC 2076#	10	270	50	350	26	360
pH		DETSC 2008#		8.9	8.6	8.5	8.2	6.1

# Summary of Chemical Analysis

## Soil Samples

Our Ref: 13-88155

Client Ref: PSL13/3106

Contract Title: Weir Pumps, Newton Heath, Manchester

			Lab No.	551567	551568	551569	551570	551571
			Sample ID	WS301	TP302	TP304	TP401	TP402
			Depth	2.40	0.80	2.70	1.20	1.60
			Sample Ref					
			Sample Type	B	D	D	D	B
			Sampling Date	//	//	//	//	//
			Sampling Time					
Test	Units	DETSxx	LOD					
Organic matter	%	DETSC 2002#	0.1		2.0	0.6	1.4	
Sulphate Aqueous Extract as SO4	mg/l	DETSC 2076#	10	15	32	23	28	34
pH		DETSC 2008#		8.1	8.5	8.0	8.6	8.6

# Summary of Chemical Analysis

## Soil Samples

Our Ref: 13-88155

Client Ref: PSL13/3106

Contract Title: Weir Pumps, Newton Heath, Manchester

				Lab No.	551572	551573
				Sample ID	TP403	TP404
				Depth	1.60	2.30
				Sample Ref		
				Sample Type	D	D
				Sampling Date	/ /	/ /
				Sampling Time		
Test	Units	DETSxx	LOD			
Organic matter	%	DETSC 2002#	0.1			
Sulphate Aqueous Extract as SO4	mg/l	DETSC 2076#	10	20	94	
pH		DETSC 2008#		8.6	8.4	

## Sample Comments

DETS cannot be held responsible for the integrity of sample(s) received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating.

Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note "Guidance on Deviating Samples".

All samples received are listed below. However, those samples that have additional comments in relation to hold time and/or inappropriate containers are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations.

If no sampled date (soils) or date/time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters), this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Lab No.	Sample ID	Date Sampled	Containers Received	Deviating due to holding time being exceeded for test(s)	Deviating due to inappropriate container for test(s)	Deviating due to headspace presence in container for test(s)
551557	WS101 0.60 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551558	WS103 0.90 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551559	TP101 1.30 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551560	TP102 1.20 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551561	TP103 0.60 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551562	WS204 2.60 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551563	WS204 4.40 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551564	TP201 0.40 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551565	TP202 2.50 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551566	WS301 1.00 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551567	WS301 2.40 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551568	TP302 0.80 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		



551569	TP304 2.70 SOIL	Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)
551570	TP401 1.20 SOIL	Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)
551571	TP402 1.60 SOIL	Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)
551572	TP403 1.60 SOIL	Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)
551573	TP404 2.30 SOIL	Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)



## **Appendix H – Monitoring Results**

**GAS & GROUNDWATER MONITORING RECORD SHEET**

**Client** Homes and Communities Agency  
**Project** Plot 1  
**Job Number** A083215

**Visit No. 1**      **Date** 27/08/2013      **Start** 08:30      **End** 13:00      **By** AC      **AP Trend** Steady      **Weather** Cloudy

**Instruments used - GA4000, Flow Pod & Minirae 2000, Dip Meter**

**Background (start)**    **CH<sub>4</sub>** 0.0%      **CO<sub>2</sub>** 0.0%      **O<sub>2</sub>** 20.5%      **VOCs** 0      **AP** 1011  
**Background (end)**    **CH<sub>4</sub>** 0.0%      **CO<sub>2</sub>** 0.0%      **O<sub>2</sub>** 20.6%      **VOCs** 0      **AP** 1011

Installation	Elevation of cover (mAOD)	CH <sub>4</sub>		CH <sub>4</sub> % LEL		CO <sub>2</sub>		O <sub>2</sub>	CO	H <sub>2</sub> S	VOC	Flow Rate		Atmospheric Pressure (mbar)	Depth to Water (mbgl)	Depth to Base (mbgl)	Water Level (mAOD)	Remarks	GSV		
		Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Steady (% vol)	Av. (ppm)	Av. (ppm)	Av. (ppm)	Peak (l/h)	Steady (l/h)						CH <sub>4</sub>	CO <sub>2</sub>	Maximum GSV
<b>WS101</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	0.0	1012	0.30	1.45			#REF!	#REF!	#REF!
<b>WS102</b>		0.0	0.0	0.0	0.0	0.0	0.0	21.1	0.0	0.0	0.0	0.0	0.0	1012	0.60	1.25			#REF!	#REF!	#REF!
<b>WS103</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.8	0.0	0.0	0.0	0.0	0.0	1011	0.30	1.05			0.0000	0.0000	0.0000
<b>WS104</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	0.0	1011	0.30	0.50			0.0000	0.0000	0.0000
																			0.0000	0.0000	0.0000
																			0.0000	0.0000	0.0000
<b>Whole Site Summary</b>																					
<b>Maximum</b>	-	0.0	0.0	0	0	0.0	0.0	-	0	0	0.0	0.0	0.0	-	-	-	-	-	#REF!	#REF!	#REF!

**Notes:**  
 Peak reading = maximum recorded level during a monitoring event.  
 Steady reading = level which remained constant after approximately 5 minutes.  
 LEL = Lower Explosive Limit  
 GSV = Gas Screening Value - the maximum percentage steady CH<sub>4</sub> or CO<sub>2</sub> multiplied by the gas flow rate.

**GAS & GROUNDWATER MONITORING RECORD SHEET**

**Client** Homes and Communities Agency  
**Project** Plot 1  
**Job Number** A083215

**Visit No. 2**    **Date** 03/09/2013    **Start** 08:30    **End** 12:30    **By** AC    **AP Trend** Rising    **Weather** Cloudy and dry

**Instruments used - GA4000, Flow Pod & Minirae 2000, Dip Meter**

**Background (start)**    **CH<sub>4</sub>** 0.0%    **CO<sub>2</sub>** 0.0%    **O<sub>2</sub>** 20.9%    **VOCs** 0    **AP** 1021  
**Background (end)**    **CH<sub>4</sub>** 0.0%    **CO<sub>2</sub>** 0.0%    **O<sub>2</sub>** 20.9%    **VOCs** 0    **AP** 1021

Installation	Elevation of cover (mAOD)	CH <sub>4</sub>		CH <sub>4</sub> % LEL		CO <sub>2</sub>		O <sub>2</sub>	CO	H <sub>2</sub> S	VOC	Flow Rate		Atmospheric Pressure (mbar)	Depth to Water (mbgl)	Depth to Base (mbgl)	Water Level (mAOD)	Remarks	GSV				
		Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Steady (% vol)	Av. (ppm)	Av. (ppm)	Av. (ppm)	Peak (l/h)	Steady (l/h)						CH <sub>4</sub>	CO <sub>2</sub>	Maximum GSV		
<b>WS101</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.7	0.0	0.0	1.0	0.0	0.0	1019	0.45	1.45			#REF!	#REF!	#REF!		
<b>WS102</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	0.0	1020	0.80	1.20			#REF!	#REF!	#REF!		
<b>WS103</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.7	0.0	0.0	0.0	0.0	0.0	1020	0.80	1.05			0.0000	0.0000	0.0000		
<b>WS104</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.8	1.0	0.0	0.0	0.0	0.0	1019	0.40	0.50			0.0000	0.0000	0.0000		
																				0.0000	0.0000	0.0000	
																					0.0000	0.0000	0.0000
<b>Whole Site Summary</b>																							
<b>Maximum</b>	-	0.0	0.0	0	0	0.0	0.0	-	1	0	0.0	0.0	0.0	-	-	-	-	-	-	#REF!	#REF!	#REF!	

**Notes:**  
 Peak reading = maximum recorded level during a monitoring event.  
 Steady reading = level which remained constant after approximately 5 minutes.  
 LEL = Lower Explosive Limit  
 GSV = Gas Screening Value - the maximum percentage steady CH<sub>4</sub> or CO<sub>2</sub> multiplied by the gas flow rate.

**GAS & GROUNDWATER MONITORING RECORD SHEET**

**Client** Homes and Communities Agency  
**Project** Plot 1  
**Job Number** A083215

**Visit No. 3**      **Date** 10/09/2013      **Start** 08:30      **End** 13:00      **By** AC      **AP Trend** Rising      **Weather** Cloudy and dry

**Instruments used - GA4000, Flow Pod & Minirae 2000, Dip Meter**

**Background (start)**    **CH<sub>4</sub>** 0.0%      **CO<sub>2</sub>** 0.0%      **O<sub>2</sub>** 20.3%      **VOCs** 0      **AP** 1014  
**Background (end)**    **CH<sub>4</sub>** 0.0%      **CO<sub>2</sub>** 0.0%      **O<sub>2</sub>** 20.3%      **VOCs** 0      **AP** 1014

Installation	Elevation of cover (mAOD)	CH <sub>4</sub>		CH <sub>4</sub> % LEL		CO <sub>2</sub>		O <sub>2</sub>	CO	H <sub>2</sub> S	VOC	Flow Rate		Atmospheric Pressure (mbar)	Depth to Water (mbgl)	Depth to Base (mbgl)	Water Level (mAOD)	Remarks	GSV		
		Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Steady (% vol)	Av. (ppm)	Av. (ppm)	Av. (ppm)	Peak (l/h)	Steady (l/h)						CH <sub>4</sub>	CO <sub>2</sub>	Maximum GSV
<b>WS101</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.5	1.0	0.0	0.0	0.0	0.0	1014	0.10	1.47			#REF!	#REF!	#REF!
<b>WS102</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.3	0.0	0.0	0.0	0.0	0.0	1014	0.60	1.30			#REF!	#REF!	#REF!
<b>WS103</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.5	0.0	0.0	0.0	0.0	0.0	1013	0.80	1.05			0.0000	0.0000	0.0000
<b>WS104</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.5	0.0	0.0	0.0	0.0	0.0	1013	0.30	0.50			0.0000	0.0000	0.0000
																			0.0000	0.0000	0.0000
																			0.0000	0.0000	0.0000
<b>Whole Site Summary</b>																					
<b>Maximum</b>	-	0.0	0.0	0	0	0.0	0.0	-	0	0	0.0	0.0	0.0	-	-	-	-	-	#REF!	#REF!	#REF!

**Notes:**  
 Peak reading = maximum recorded level during a monitoring event.  
 Steady reading = level which remained constant after approximately 5 minutes.  
 LEL = Lower Explosive Limit  
 GSV = Gas Screening Value - the maximum percentage steady CH<sub>4</sub> or CO<sub>2</sub> multiplied by the gas flow rate.

**GAS & GROUNDWATER MONITORING RECORD SHEET**

**Client** Homes and Communities Agency  
**Project** Plot 1  
**Job Number** A083215

**Visit No. 4**      **Date** 17/09/2013      **Start** 10:30      **End** 11:00      **By** AC      **AP Trend** Falling      **Weather** Cloudy and rainy

**Instruments used - GA4000, Flow Pod & Minirae 2000, Dip Meter**

**Background (start)**    **CH<sub>4</sub>** -0.1%    **CO<sub>2</sub>** 0.0%    **O<sub>2</sub>** 20.3%    **VOCs** 0    **AP** 998  
**Background (end)**    **CH<sub>4</sub>** -0.1%    **CO<sub>2</sub>** 0.0%    **O<sub>2</sub>** 20.3%    **VOCs** 0    **AP** 999

Installation	Elevation of cover (mAOD)	CH <sub>4</sub>		CH <sub>4</sub> % LEL		CO <sub>2</sub>		O <sub>2</sub>	CO	H <sub>2</sub> S	VOC	Flow Rate		Atmospheric Pressure (mbar)	Depth to Water (mbgl)	Depth to Base (mbgl)	Water Level (mAOD)	Remarks	GSV		
		Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Steady (% vol)	Av. (ppm)	Av. (ppm)	Av. (ppm)	Peak (l/h)	Steady (l/h)						CH <sub>4</sub>	CO <sub>2</sub>	Maximum GSV
<b>WS101</b>															0.10	1.45		Water level higher than gas nozzle	#REF!	#REF!	#REF!
<b>WS102</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.3	3.0	0.0	0.0	0.0	0.0	990	0.70	1.30			#REF!	#REF!	#REF!
<b>WS103</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.3	1.0	0.0	0.0	0.0	0.0	990	0.30	1.05			0.0000	0.0000	0.0000
<b>WS104</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.2	1.0	0.0	0.0	0.0	0.0	989	0.20	0.50			0.0000	0.0000	0.0000
																			0.0000	0.0000	0.0000
																			0.0000	0.0000	0.0000
<b>Whole Site Summary</b>																					
<b>Maximum</b>	-	0.0	0.0	0	0	0.0	0.0	-	3	0	0.0	0.0	0.0	-	-	-	-	-	#REF!	#REF!	#REF!

**Notes:**  
 Peak reading = maximum recorded level during a monitoring event.  
 Steady reading = level which remained constant after approximately 5 minutes.  
 LEL = Lower Explosive Limit  
 GSV = Gas Screening Value - the maximum percentage steady CH<sub>4</sub> or CO<sub>2</sub> multiplied by the gas flow rate.

**GAS & GROUNDWATER MONITORING RECORD SHEET**

**Client** Homes and Communities Agency  
**Project** Plot 1  
**Job Number** A083215

**Visit No. 5**      **Date** 23/09/2013      **Start** 12:30      **End** 13:15      **By** AC      **AP Trend** Falling      **Weather** Cloudy

**Instruments used - GA4000, Flow Pod & Minirae 2000, Dip Meter**

**Background (start)**    **CH<sub>4</sub>** 0.0%      **CO<sub>2</sub>** 0.0%      **O<sub>2</sub>** 20.6%      **VOCs** 0      **AP** 1018  
**Background (end)**    **CH<sub>4</sub>** 0.0%      **CO<sub>2</sub>** 0.0%      **O<sub>2</sub>** 20.6%      **VOCs** 0      **AP** 1018

Installation	Elevation of cover (mAOD)	CH <sub>4</sub>		CH <sub>4</sub> % LEL		CO <sub>2</sub>		O <sub>2</sub>	CO	H <sub>2</sub> S	VOC	Flow Rate		Atmospheric Pressure (mbar)	Depth to Water (mbgl)	Depth to Base (mbgl)	Water Level (mAOD)	Remarks	GSV				
		Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Steady (% vol)	Av. (ppm)	Av. (ppm)	Av. (ppm)	Peak (l/h)	Steady (l/h)						CH <sub>4</sub>	CO <sub>2</sub>	Maximum GSV		
<b>WS101</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.5	0.0	0.0	1.5	0.0	0.0	1018	0.20	1.45			#REF!	#REF!	#REF!		
<b>WS102</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.6	1.0	0.0	1.3	0.0	0.0	1018	0.70	1.25			#REF!	#REF!	#REF!		
<b>WS103</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.6	3.0	0.0	0.2	0.0	0.0	1018	0.60	1.05			0.0000	0.0000	0.0000		
<b>WS104</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.4	1.0	0.0	1.0	0.0	0.0	1017	0.30	0.50			0.0000	0.0000	0.0000		
																				0.0000	0.0000	0.0000	
																					0.0000	0.0000	0.0000
<b>Whole Site Summary</b>																							
<b>Maximum</b>	-	0.0	0.0	0	0	0.0	0.0	-	3	0	1.3	0.0	0.0	-	-	-	-	-	-	#REF!	#REF!	#REF!	

**Notes:**  
 Peak reading = maximum recorded level during a monitoring event.  
 Steady reading = level which remained constant after approximately 5 minutes.  
 LEL = Lower Explosive Limit  
 GSV = Gas Screening Value - the maximum percentage steady CH<sub>4</sub> or CO<sub>2</sub> multiplied by the gas flow rate.

**GAS & GROUNDWATER MONITORING RECORD SHEET**

**Client** Homes and Communities Agency  
**Project** Plot 1  
**Job Number** A083215

**Visit No. 6**      **Date** 26/09/2013      **Start** 08:30      **End** 08:45      **By** AC      **AP Trend** Rising      **Weather** Cloudy

**Instruments used - GA4000, Flow Pod & Minirae 2000, Dip Meter**

**Background (start)**    **CH<sub>4</sub>** 0.0%      **CO<sub>2</sub>** 0.0%      **O<sub>2</sub>** 20.4%      **VOCs** 0      **AP** 1012  
**Background (end)**    **CH<sub>4</sub>** 0.0%      **CO<sub>2</sub>** 0.0%      **O<sub>2</sub>** 20.4%      **VOCs** 0      **AP** 1012

Installation	Elevation of cover (mAOD)	CH <sub>4</sub>		CH <sub>4</sub> % LEL		CO <sub>2</sub>		O <sub>2</sub>	CO	H <sub>2</sub> S	VOC	Flow Rate		Atmospheric Pressure (mbar)	Depth to Water (mbgl)	Depth to Base (mbgl)	Water Level (mAOD)	Remarks	GSV		
		Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Steady (% vol)	Av. (ppm)	Av. (ppm)	Av. (ppm)	Peak (l/h)	Steady (l/h)						CH <sub>4</sub>	CO <sub>2</sub>	Maximum GSV
<b>WS101</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.8	0.0	0.0	1.9	0.0	0.0	1011	0.20	1.50					
<b>WS102</b>		0.0	0.0	0.0	0.0	0.0	0.0	21.0	0.0	0.0	1.6	0.0	0.0	1011	0.70	1.30					
<b>WS103</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.6	0.0	0.0	0.9	0.0	0.0	1010	0.70	1.03					
<b>WS104</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.9	0.0	0.0	1.6	0.0	0.0	1010	0.30	0.50					
<b>Whole Site Summary</b>																					
<b>Maximum</b>	-	0.0	0.0	0	0	0.0	0.0	-	0	0	1.6	0.0	0.0	-	-	-	-	-	-		

**Notes:**  
 Peak reading = maximum recorded level during a monitoring event.  
 Steady reading = level which remained constant after approximately 5 minutes.  
 LEL = Lower Explosive Limit  
 GSV = Gas Screening Value - the maximum percentage steady CH<sub>4</sub> or CO<sub>2</sub> multiplied by the gas flow rate.