



Homes & Communities Agency

Plot 3, Newton Heath, Manchester

Geo-Environmental Desk Study and Ground Investigation Report

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

Tel: 0161 872 3223



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Document Checking:

Prepared by:	Kathryn Ellis BSc (Hons), MSc, FGS Senior Environmental Consultant	Signed:	
Prepared by:	John Taylor BSc (Hons) Senior Geo-Environmental Engineer	Signed:	

Reviewed by:	Simon Johnson Bsc (Hons), Member of SoBRA Associate	Signed:	
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Verified by:	Richard Jarrett BSc (Hons), MSc, EurIng, C.Eng, MICE, UK Registered Ground Engineering Adviser Associate Director	Signed:	
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1.0 EXECUTIVE SUMMARY

Site Status	The site is located on Plot 3 of the former Weir Pumps complex in the Newton Heath area of Manchester, and comprises a vacant development plot of approximately 1.05ha. The site is surrounded by mainly commercial/industrial properties or derelict plots with the Rochdale Canal bounding the site to the north.
Desk Study	<p>The following environmental setting of the site was established based on the desk study information:</p> <ul style="list-style-type: none"> Environmental Processes – Historical nearby potentially polluting activities. History - The site was formerly occupied by clay pits followed by development as a sports pitch with possible land filling. Geology – Made Ground over Glacial Till with Coal Measures/Newton Heath Sandstone at depth. Hydrogeology - The bedrock is classified as a Secondary A Aquifer overlain by Unproductive Strata (Glacial Till). The site is not located in a Groundwater Source Protection Zone (SPZ). Hydrology - The nearest surface water feature is the Rochdale Canal immediately north of the site.
Previous Site Investigations & Gap Analysis	<p>A previous ground investigation by Mouchel Parkman was undertaken on Plot 3 in 2004. The report also reviews two previous investigations undertaken in 1999 and 2002:</p> <ul style="list-style-type: none"> Anecdotal evidence from former Weir Pumps employees indicates that the site level was raised by the tipping of waste from the adjacent Mather & Platt foundry into the clay pits on-site, which was then levelled and turfed to form a football pitch. The 1999 investigation by PB Kennedy & Donkin comprised 2 trial pits. GIP drilled 1 cable percussion borehole with monitoring well installation, and excavated 1 trial pit on the site in 2002. The Mouchel Parkman 2004 investigation comprised a further 3 trial pits, and 4 cable tool boreholes to a maximum depth of 15.0m bgl. Surface water sampling of the adjacent Rochdale Canal was also undertaken. Granular and cohesive Made Ground was encountered. Made Ground was encountered at thicknesses of 1.8m to 5.55m. Natural Glacial Clay was encountered beneath the Made Ground. Groundwater was encountered at depths between 2m and 3m bgl. Gas monitoring recorded some slightly elevated carbon dioxide concentrations and some corresponding suppressed oxygen concentrations. Low flow rates were also recorded. 19 no. Made Ground samples and 3 no. Glacial Till samples in total from all three previous site investigations underwent chemical testing. Groundwater analysis and leachability testing were also undertaken. No asbestos fibres were detected. Elevated concentrations of copper and one elevated concentration of zinc were detected in Made Ground samples. No elevated concentrations were detected in ground water samples. Leachability testing indicated one elevated leachable copper concentration and two elevated DRO concentrations. A Qualitative Risk Assessment (QRA) indicated no risk to human health or controlled waters, other than a 'medium' risk from ground gas. Suggested remedial options for Plot 3 were the provision of passive gas venting in new buildings, the installation of vibro-stone columns for foundations, and the provision of a 'clean' growing medium/topsoil for landscaping. <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"> 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 previously. WYG exploratory holes positioned to fill obvious data gaps. A mix of window sample boreholes and trial pitting to allow monitoring wells to be installed, chemical and geotechnical samples to be obtained, in-situ geotechnical testing to be undertaken, and visual inspection of near-surface ground conditions to be made. An updated ground gas assessment is required in line with CIRIA C665, BS 8485:2007 and BS 8576:2013.

Geo-Environmental Desk Study & Ground Investigation Report

Plot 3, Newton Heath



Preliminary Risk Assessment	The site is considered to pose a low risk in relation to land contamination.
WYG Ground Investigation	<p>WYG undertook a site investigation of Plot 3 on 19th and 20th August 2013, followed by 6 gas monitoring visits. The investigation comprised:</p> <ul style="list-style-type: none"> • 4 No. window sample holes (WS301 to WS304) to maximum depths 5.45m bgl. • 4 No. machine excavated trial pits (TP301 to TP304) to depths between 3.6m and 4.0m 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).
Ground Conditions	<p>Ground conditions comprised grass or tarmac over granular Made Ground of black ashy gravelly fine to coarse sand with occasional cobble and boulder-sized fragments of brick and concrete. 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 of contamination, or significant in-ground obstructions, were noted during the investigation.</p> <p>Groundwater was observed during the investigation, and subsequent monitoring recorded groundwater levels in the monitoring wells at depths between 1.8 and 3.5 m bgl.</p>
Laboratory Testing and Land Gas Monitoring Results	<p>Soil samples underwent testing as follows:</p> <ul style="list-style-type: none"> • 9 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). • 5 No. Total Petroleum Hydrocarbons (TPH CWG). • 5 No. asbestos screen. • 5 No. Fraction Organic Carbon (FOC). <p>No concentrations of contaminants exceeded the applicable screening values for a commercial end-use.</p> <p>Asbestos fibres were detected in only one of the 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>
Tier 1 Contaminated Land Risk Assessment	<p>Overall, the site poses a low 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>
Geotechnical Assessment	<ul style="list-style-type: none"> • 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. • The potential instability of the near surface Made Ground may require the use of shoring during the excavations of trenches and the like. • Groundwater levels of between 1.8m to 3.5m 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,



	<p>substructures or deeper trench excavations.</p> <ul style="list-style-type: none"> • Firm becoming stiff natural sandy clay deposits exist below the Made Ground. The Made Ground is too thick to enable spread foundations to be constructed to bear directly on the natural clay. For standard low rise structures it may be feasible to improve the bearing capacity of the Made Ground sufficiently using vibro stone or concrete columns to enable spread foundations to be installed at relatively shallow depth. Alternatively, and for taller or heavier structures, piled foundations installed into the glacial clay will be needed. • A number of mature trees exist around the site perimeter. If these are to remain, the shrinkage and swelling potential of the underlying Glacial Clay should be considered. Geotechnical testing results indicate clay from the site to be of intermediate plasticity, and therefore of low to medium volume change potential. • 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 AC2z. • The stability of the site is not considered to be at risk from the historical mining of coal, however it may be prudent in future to undertake further coal mining investigation.
Conclusions and Recommendations	Overall, the site poses a low 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 Plot 3, 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 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 3 is located on the north-east side of Grimshaw Lane immediately south-east of the Rochdale Canal, 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 1st 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

Site Address	Grimshaw Lane, Newton Heath, Manchester, M40 2AX.
Grid Reference	386870, 399916.
Area	1.08 ha.
Site Description	Grassed former playing field with mature trees around perimeter
Site Access	Pedestrian and vehicle access from entrance drive to Mather Foundry
Topography	Flat and level, elevated approximately 2m above Grimshaw Lane
Surrounding Land Uses	North-west: Rochdale Canal with industrial buildings beyond
	North-east: Derelict land and engineering works
	South-east : Derelict land with bakery beyond
	South-west: Grimshaw Lane, canned food factory beyond



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; 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 active BGS recorded landfill sites, active 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 75m north and 115m northwest of the site 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 Local Authority Pollution Prevention and Control (LAPPC) authorisations, Local Authority.

There is 1 no. IPPC within 250m of the site; located approximately 200m southwest associated with soft drinks manufacture.

There is 1 no. LAPPC within 250m of the site; located approximately 110m and 180m northeast of the site associated with two foundries.



The environmental database lists 7 no. active Contemporary Trade Directory Entries within 250m of the site. The nearest entries are a PVC manufacturer and a garage, located approximately 100m north of the site. Other entries include a drums/barrel business, door manufacturer, pallet business and a soft drinks manufacturer.

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 250m 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 earliest available map (1848) indicates the site to comprise open space to the south of the Rochdale Canal with Grimshaw Lane present along the south-western boundary of the site. By 1908, possible clay pits are located in the western (not present c. 1922) and southern part of the site. By 1931/32 the site is a football pitch. The site is shown as a sports ground circa 1949, with slopes indicated around the perimeter of the site. Since then, the site has remained predominantly unaltered until the present day.

4.2.2 Site Surroundings

The earliest available map (1848) reviewed indicates the site was surrounded by open land to the north-east and south with a dye works located beyond Grimshaw Lane, immediately south-west of the site. During this time, various industrial uses were present to the north of the Rochdale Canal including a gas plant works, corporation yard and a further dye works. A farm (until c.1922) and railway are also located approximately 80m south of the site. By 1908, a pit is present immediately east of the site, with development of an engineering works with associated pits and mineral railway to the south-east of the site.

By 1949, the adjacent pit has been developed as a bowling green and a sports ground is present (replacing the pits and mineral railway) to the south and south-east of the site.

By the 1970's and 1990's, industrial uses to the north of the Rochdale Canal and to the west of the site are still present but only annotated as works. By this time, the majority of the engineering works had been demolished with some associated buildings remaining to the east of the site. The site surroundings have remained predominantly unaltered until the present day.



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 – Clay pits/sports ground (potentially in-filled/Made Ground).
- North – Various works including a dye works and corporation yard.
- South & East – Engineering works/mineral railway/ pits.
- West – Dye works, gas plant works and various other 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 across the whole 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 cadmium, chromium, nickel, lead, with slightly higher concentrations of arsenic possibly associated with the Made Ground.

Solid Geology

The majority of the site is indicated to be underlain by Pennine Upper Coal Measures with the northern tip underlain by Newton Heath Sandstone.

No faults are present across the site, although the Bradford Fault is located approximately 30m south of the site.



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 south of the site and dip down to the south-west.

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 3. 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 are no former BGS recorded mineral sites located within a 250m radius of the site.

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

4.4 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 Secondary A 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.

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 275m west of the site associated with general construction use for Hanson Quarry Products.

4.5 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, which bounds the site to the north. The canal has good current ecological status but does not require chemical quality assessment.

Surface Water Abstractions

There are no current 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

One previous environmental interpretative report pertaining to Plot 3 has been provided by the HCA for review. A summary of the report is given below.

Mouchel Parkman Report July 2004

A report pertaining to Plot 3 was produced by Mouchel Parkman in 2004. The report details a geo-environmental ground investigation undertaken on 'Area 3' of the former Weir Pumps site. The report also reviews investigations undertaken in 1999 (PB Kennedy & Donkin) and 2002 (GIP). Pertinent information is summarised below:

- Anecdotal evidence from former Weir Pumps employees indicates that the site level was raised by the tipping of waste from the adjacent Mather & Platt foundry into clay pits, which was then levelled and turfed to form a football pitch.
- The 1999 investigation by PB Kennedy & Donkin comprised two trial pits.
- GIP drilled one cable percussion borehole with monitoring well installation and excavated one trial pit on the site in 2002.
- The Mouchel Parkman 2004 investigation comprised a further three trial pits, and four cable tool boreholes to a maximum depth of 15m bgl. Surface water sampling of the adjacent Rochdale Canal was also undertaken.
- Granular and cohesive Made Ground was encountered. Granular Made Ground comprised clayey gravelly sand or clayey sandy gravel of ash, brick, and clinker with cobbles of brick and concrete, timber, slag and plastic. Cohesive Made Ground comprised reworked sandy gravelly clay, with sandy gravel of ash, slag, clinker and brick. Made Ground was encountered at thicknesses of 1.8m to 5.5m. Natural Glacial Clay, comprising firm to stiff slightly sandy slightly gravelly clay, was encountered beneath the Made Ground.
- Groundwater was encountered during the main investigation and was recorded during monitoring, generally at depths between 2m and 3m bgl.



- Gas monitoring recorded some slightly elevated carbon dioxide concentrations and some corresponding suppressed oxygen concentrations. Low flow rates were also recorded. Passive venting was recommended for new buildings.
- 19 no. Made Ground samples and 3 no. Glacial Till samples in total from all three previous site investigations underwent chemical testing. Ground water analysis and leachability testing were also undertaken.
- No asbestos fibres were detected.
- Elevated concentrations of copper and one elevated concentration of zinc were detected in Made Ground samples, compared to CLEA derived Site Threshold Values. No elevated concentrations were detected in ground water samples, compared to EA Environmental Quality Standards (EQS). Leachability testing indicated one elevated leachable copper concentration and two elevated DRO concentrations compared to EA EQS.
- A Qualitative Risk Assessment (QRA) indicated no risk to human health or controlled waters, other than a 'medium' risk from ground gas.
- Suggested remedial options for Plot 3 were the provision of passive gas venting in new buildings, the installation of vibro-stone columns for foundations, and the provision of a 'clean' growing medium/topsoil for landscaping.

5.1 Peer Review and Gap Analysis

Based on the desk study undertaken and the review of the previous site investigation reports, the rationale for the recent WYG ground investigation was:

- Comparison of the summarised Parkman metal contaminant concentrations with WYG Tier 1 Screening Values for a commercial end-use indicates no elevated concentrations.
- WYG exploratory holes positioned to fill obvious data gaps.
- A mix of window sample boreholes and trial pitting to allow monitoring wells to be installed, chemical and geotechnical samples to be obtained, in-situ geotechnical testing, and visual



inspection of near-surface ground conditions to be made.

- 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 commercial development.

Table 6.1 –Preliminary Conceptual Site Model (CSM)

On Site Sources	Made Ground (ground gases and potential contamination). Some elevated metals and DRO detected in previous investigation, although below WYG Tier 1 TSVs for commercial end-use.
Off Site Sources	Possible inorganic and organic contamination in the immediate area surrounding the site associated with former industrial uses.
Pathways	Ingestion, inhalation and dermal contact with soil/dust. Leaching and groundwater migration. Migration of ground gases.
Receptors	Human health, controlled waters, structures, landscaping.
Preliminary Risk Assessment	Overall, the site is considered to pose a moderate risk to future site users. 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 19th and 20th August 2013, with follow-up monitoring of borehole installations between 27th August and 26th 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.

The works undertaken comprised the following:

- 4 No. window sample holes (WS301 to WS304) to depths between 4.0m and 5.0m bgl.
- 5 No. machine excavated trial pits (TP301 to TP305) to depths between 3.6m and 4.0m 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 WS301, WS302, WS303 and WS304.
- 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 information on areas of the site 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:

- 9 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 Hydrocabons (EPH C8-C40).
- 5 No. Total Petroleum hydrocarbons (TPH CWG).
- 5 No. asbestos screen.
- 5 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:

- 3 No. moisture content.
- 3 No. Atterberg Limits.
- 4 No. water soluble sulphate (2:1 water:soil extract) and pH.
- 4 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 at the site comprise grassed turf and topsoil between 0.15m and 0.3m thick.

Below this surface layer, the upper layer of Made Ground generally comprises black ashy slightly gravelly fine to coarse sand with cobble and boulder-sized fragments of brick, sandstone and concrete, to depths of between 0.4m and 3.3m bgl. Gravel is angular fine to coarse of brick, concrete, foundry slag, clinker and sandstone with fragments of glass, ceramic and mica.

This is generally underlain by cohesive Made Ground of reworked grey-brown or slightly sandy slightly gravelly clay, to a maximum depth of 3.9m bgl. Gravel is angular fine to coarse of brick, concrete, sandstone, clinker, slag and coal.

WS304 encountered multiple interbedded layers of granular and cohesive Made Ground to a depth of 3.9m bgl.

8.2 Superficial Deposits

Superficial deposits encountered beneath the Made Ground generally comprise firm becoming stiff sandy gravelly Clay with occasional sand lenses (Glacial Till), to a maximum drilled depth of 5.45m bgl. A band of medium dense brown very clayey medium sand was encountered in WS303 between depths of 3.4m and 4.8m bgl, above the Glacial Clay.

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)
Turf and topsoil	Ground level	0.15 - 0.30	0.15 - 0.30	N/A
Made Ground – granular	0.15-0.30	0.4 - 3.3	0.5 – 3.1	6 - 36
Made Ground – cohesive	0.4 - 2.7	2.0 - 3.9	0.2 – 3.0	2 - 7
Very clayey medium Sand (WS303)	3.4	4.8	1.4	24
Glacial Till (sandy gravelly clay)	2.0 – 3.9	>5.45*	>2.0*	8 - 28

Note: *Not fully penetrated. N/A – Not Applicable.

8.4 Groundwater

Groundwater was observed at 3.9m bgl in TP301, at 4.0m bgl in TP303, at 3.4m bgl in TP305, at 4.2m bgl in WS302 and in the band of brown very clayey medium sand encountered in WS303 at a depth of 3.4m to 4.8m bgl, during the main investigation.

Gas monitoring wells were installed in the Made Ground in all four window sample holes (WS301 to WS304). 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)
WS301	N/A	0.5-3.2 (MG & GC)	DRY
WS302	4.2	3.0-4.5 (GC)	1.8 – 2.3
WS303	3.4 – 4.8	3.5-5.0 (SAND)	2.2 – 3.1
WS304	3.6	0.5-4.0 (MG)	3.0 – 3.5

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

8.5 Observed Contamination

Made Ground was encountered in all exploratory locations and where encountered generally comprised black ashy slightly gravelly fine to coarse sand with occasional cobble and boulder-sized



fragments of brick, sandstone and concrete, or reworked grey-brown or slightly sandy slightly gravelly clay, with gravel of angular fine to coarse of brick, concrete, foundry slag, clinker and sandstone with occasional fragments of glass, ceramic and mica; additionally a faint hydrocarbon odour was noted in WS304 at 0.5m to 1.2m bgl in Made Ground during the investigation works.

8.6 Observed Obstructions

Significant in-ground obstructions were not encountered during the site investigation works; however, cobbles and boulder-sized fragments of demolition rubble were encountered in some exploratory locations.



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 hydrogen sulphide or carbon monoxide were recorded.

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)
WS301	0.5-3.2 (MG & GC)	<0.1	<0.1*	19.8*	<0.1*	DRY
WS302	3.0-4.5 (GC)	<0.1	<0.1*	20.2*	<0.1*	1.8 – 2.3
WS303	3.5-5.0 (SAND)	<0.1	<0.1*	20.1*	<0.1*	2.2 – 3.1
WS304	0.5-4.0 (MG)	<0.1	<0.1*	20.3*	<0.1*	3.0 – 3.5

Note: MG – Made Ground, GC – Glacial Clay. Brackets indicates steady state. * - 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:

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

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; therefore a controlled waters contamination assessment has not been undertaken.

10.3 Site Contamination Assessment

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

For the determinands analysed, there were **no** elevated concentrations of contaminants which exceeded the applicable screening values for a commercial end-use.

Asbestos fibres were detected in one sample of Made Ground only, from WS302 at 0.5m bgl.



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 DRO detected in water samples. Leachability testing indicated similar leachable contaminants. However, the QRA indicated no risk to controlled waters from contamination.
- The recent WYG investigation detected only asbestos fibres in one sample of Made Ground from 0.5m bgl at WS302.

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:

- 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 (Secondary A 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			
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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
No elevated chemical contaminants detected in Made Ground/1 no. asbestos containing sample	Dermal contact, Ingestion and/or inhalation	Human Health – Future site users	Medium	Unlikely	Low	Analysis indicates 1 no. Made Ground sample containing asbestos fibres. 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 be low based on limited 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 – Secondary A 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 3, Newton Heath



On Site						
Source	Pathway	Receptor	Severity	Probability	Risk	Justification
No chemical contaminants detected in Made Ground/1 no. asbestos containing sample	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):

- grassed turf and topsoil between 0.15m and 0.3m thick;
- granular Made Ground mostly comprising black ashy slightly gravelly fine to coarse sand with occasional cobble and boulder-sized fragments of brick, sandstone and concrete, to depths of between 0.4m and 3.3m.
- cohesive Made Ground of reworked grey-brown or slightly sandy slightly gravelly clay, to a maximum depth of 3.9m bgl.
- firm becoming stiff brown-grey sandy gravelly Clay with occasional sand lenses (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 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 three monitoring wells, at depths between 1.8m and 3.5m 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. The Made Ground is too thick to enable spread foundations to be constructed to bear directly on the



natural clay. For standard low rise structures it may be feasible to improve the bearing capacity of the Made Ground sufficiently using vibro stone or concrete columns to enable spread foundations to be installed at relatively shallow depth. Alternatively, and for taller or heavier structures, piled foundations installed into the glacial clay will be needed.

- A number of mature trees exist around the site perimeter. If these are to remain, the shrinkage and swelling potential of the underlying Glacial Clay should be considered. Geotechnical testing results indicate clay from the site to be of intermediate plasticity, and therefore of low to medium volume change potential.
- 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 AC2z.
- The stability of the site is not considered to be at risk from the historical mining of coal, however it may be prudent in future to undertake further coal mining investigation.



13.0 CONCLUSIONS & RECOMMENDATIONS

13.1 Conclusions

Ground conditions encountered generally comprise an upper layer of coarse granular Made Ground comprising black ashy slightly gravelly fine to coarse sand with occasional cobble and boulder-sized fragments of brick, sandstone and concrete, over cohesive Made Ground of reworked grey-brown slightly sandy slightly gravelly clay, underlain by a natural deposit of firm becoming stiff sandy gravelly Clay (Glacial Till). Groundwater levels of between 1.8m to 3.5m bgl have been recorded across the site during monitoring.

The recent WYG investigation has indicated no elevated concentrations of contaminants. Only one Made Ground sample that was 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 based on no elevated contaminant concentrations being identified, and the likelihood of separation from the Made Ground by building footprint or hardstanding. 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'.

Firm becoming stiff natural sandy clay deposits exist below the Made Ground. The Made Ground is too thick to enable spread foundations to be constructed to bear directly on the natural clay. For standard low rise structures it may be feasible to improve the bearing capacity of the Made Ground sufficiently using vibro stone or concrete columns to enable spread foundations to be installed at



relatively shallow depth. Alternatively, and for taller or heavier structures, piled foundations installed into the glacial clay will be needed.

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.

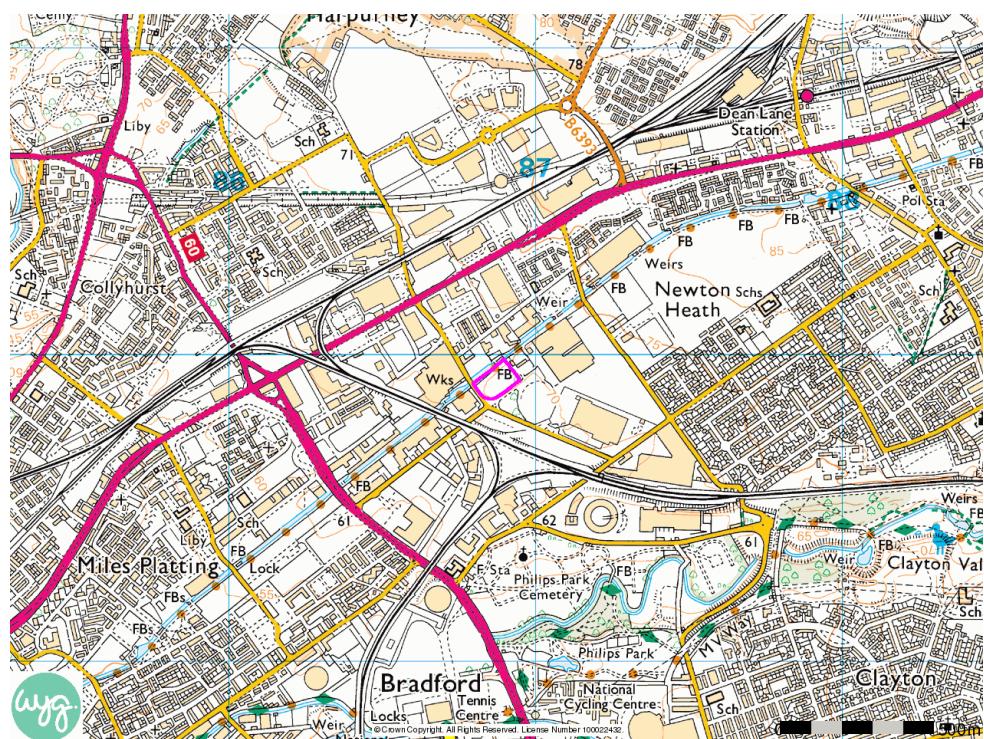
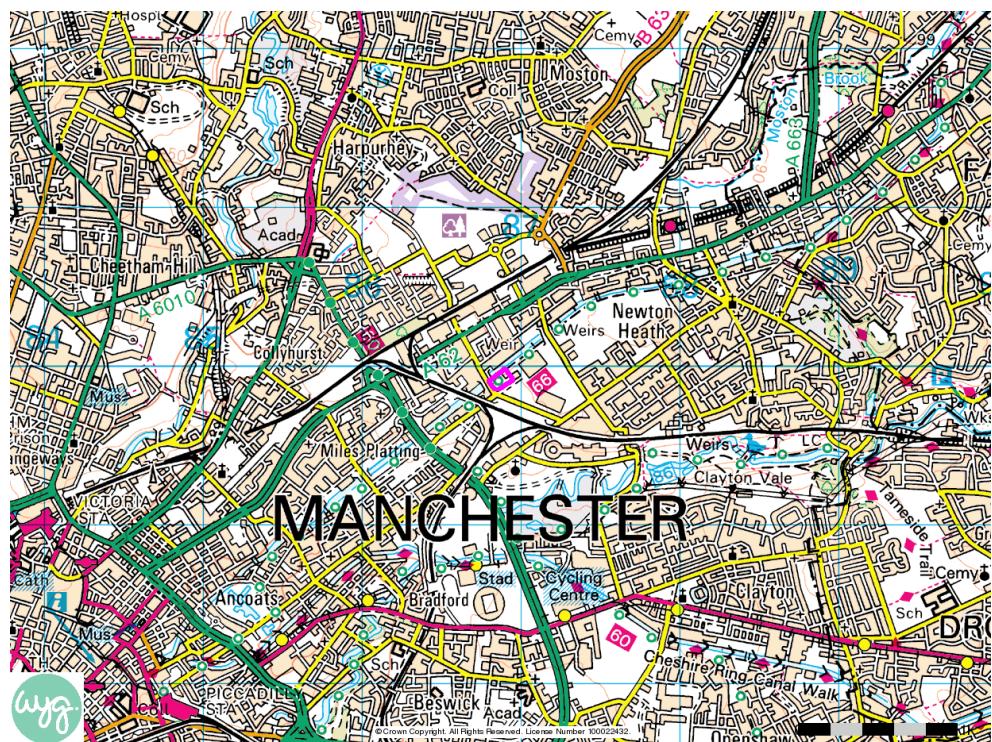
13.2 Recommendations

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 growing medium for any landscaped areas. Any excavated Made Ground is unlikely to be suitable for re-use, and 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

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N



■ - 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](mailto:enquiries@wyg.com)



Project : Plot 3, Newton Heath, Manchester

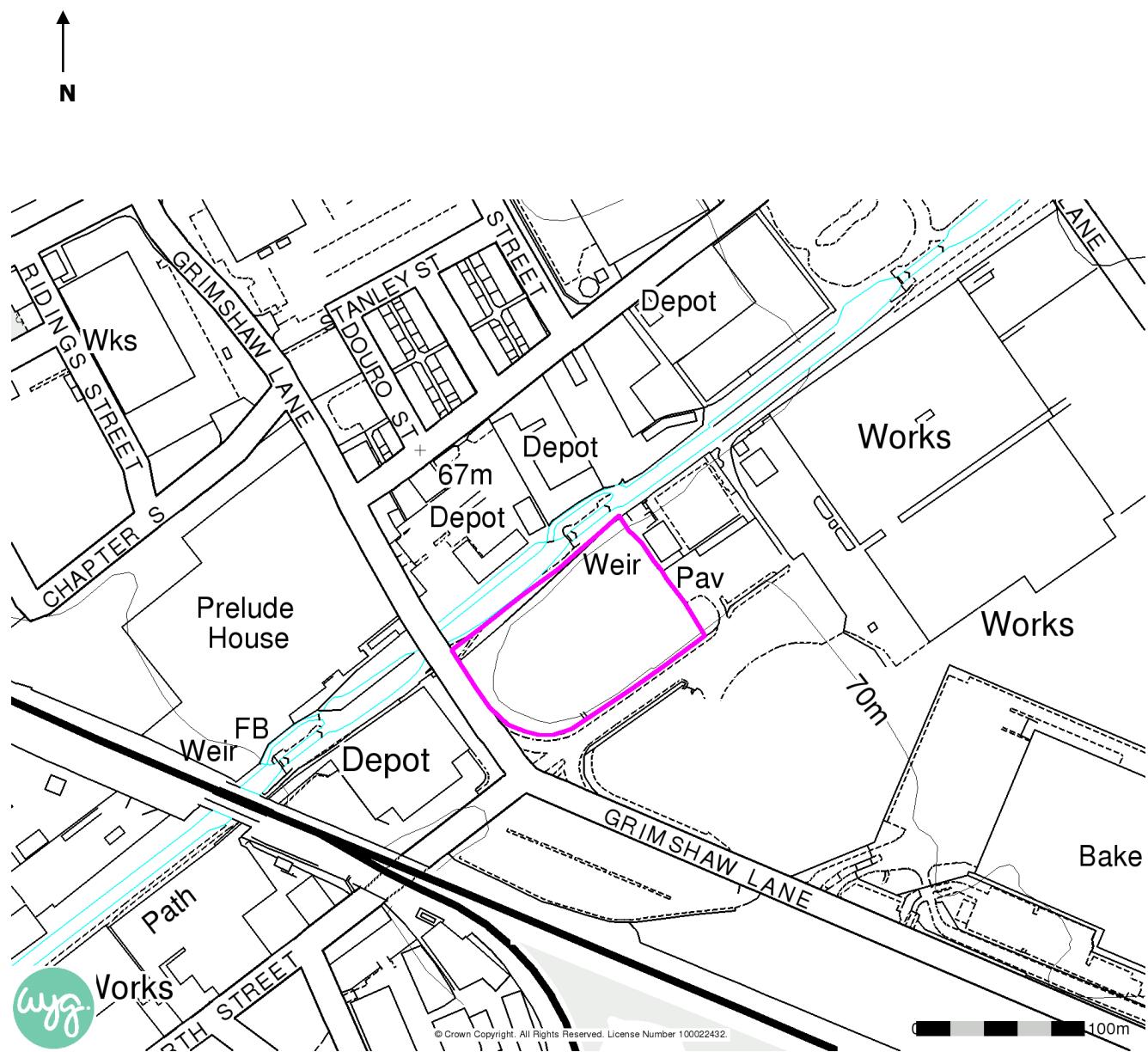
Client : Homes & Communities Agency

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](mailto:enquiries@wyg.com)

Environmental Consultancy
Ground Technologies & Investigation



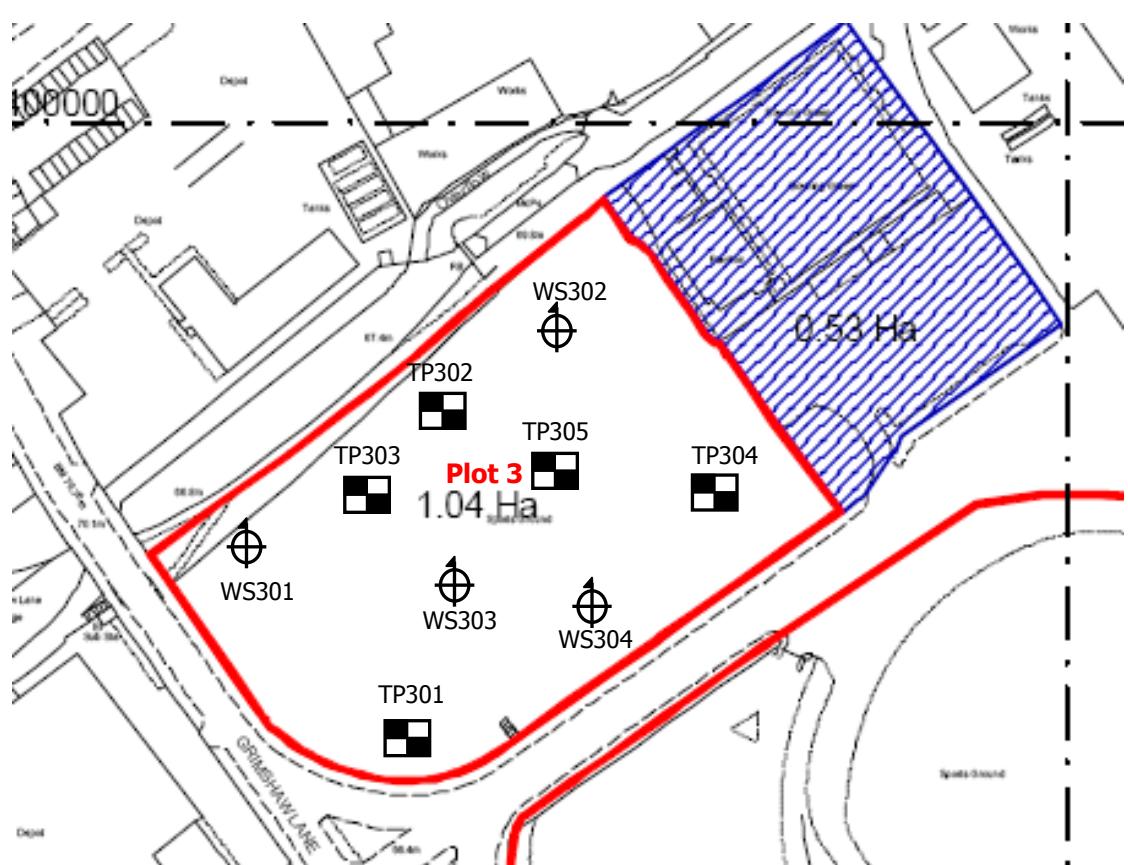
Project : Plot 3, Newton Heath, Manchester

Client : Homes & Communities Agency

Figure 2 – Site Plan

Project No.: A083215

Date: September 2013



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 3
Grimshaw Lane
Newton Heath
Manchester
M40 2AX

Approximate Grid Ref: 386870, 399916

Approximate Site Area: 1.05 Ha

**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](mailto:enquiries@wyg.com)**

Environmental Consultancy Ground Technologies & Investigation



Project : Plot 3, 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® Report:

Datasheet

Order Details:

Order Number:
48457083_1_1

Customer Reference:
A083215 Plot 3

National Grid Reference:
386870, 399920

Slice:
A

Site Area (Ha):
1.05

Search Buffer (m):
1000

Site Details:

Plot 3
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

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	20
Hazardous Substances	30
Geological	31
Industrial Land Use	43
Sensitive Land Use	58
Data Currency	59
Data Suppliers	65
Useful Contacts	66

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



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1			3	15
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		5	8	2
Local Authority Pollution Prevention and Control Enforcements	pg 8				1
Nearest Surface Water Feature	pg 8		Yes		
Pollution Incidents to Controlled Waters	pg 8				6
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality	pg 9	1			2
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points	pg 10				2
Substantiated Pollution Incident Register	pg 11			1	2
Water Abstractions	pg 12		1	2	2 (*25)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 19	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 19	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 19	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
Waste					
BGS Recorded Landfill Sites	pg 20				1
Historical Landfill Sites	pg 20			1	7
Integrated Pollution Control Registered Waste Sites	pg 21				1
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 22		2	3	2
Local Authority Recorded Landfill Sites					
Registered Landfill Sites	pg 23			1	2
Registered Waste Transfer Sites	pg 25			1	3
Registered Waste Treatment or Disposal Sites	pg 27		2	2	1



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 30				2
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)	pg 30				1
Planning Hazardous Substance Consents	pg 30				2
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 31	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 31	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 38			2	3
BGS Urban Soil Chemistry	pg 39	Yes	Yes		Yes
BGS Urban Soil Chemistry Averages	pg 41	Yes			
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas	pg 41	Yes	n/a	n/a	n/a
Mining Instability	pg 41	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 41	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 41	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 41	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 42	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
Industrial Land Use					
Contemporary Trade Directory Entries	pg 43		12	57	96
Fuel Station Entries	pg 57			1	



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Areas of Adopted Green Belt	pg 58				1
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves	pg 58				1
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 58				2
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>Discharge Consents</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 Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	A13SW (SW)	291	1	386620 399660
1	<p>Discharge Consents</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 Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m</p>	A13SW (SW)	291	1	386620 399660
1	<p>Discharge Consents</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 Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m</p>	A13SW (SW)	291	1	386620 399660
2	<p>Discharge Consents</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 Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m</p>	A7NE (SW)	540	1	386520 399420

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	<p>Discharge Consents</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 Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	776	1	386830 399080
3	<p>Discharge Consents</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 Status: Authorisation revoked/Revoked Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	786	1	386850 399070
4	<p>Discharge Consents</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 Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	A9NW (SE)	776	1	387470 399340
4	<p>Discharge Consents</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 Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m</p>	A9NW (SE)	777	1	387460 399330

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<p>Discharge Consents</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 Environment: Freshwater Stream/River Receiving Water: River Medlock Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Manually corrected supplier location</p>	A9NW (SE)	777	1	387460 399330
4	<p>Discharge Consents</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 Environment: Freshwater Stream/River Receiving Water: River Medlock Status: Consent revoked: Discharge ceased (Water Resources Act 1991, Schedule 10 & 6) Positional Accuracy: Located by supplier to within 100m</p>	A9NW (SE)	798	1	387480 399320
4	<p>Discharge Consents</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: 01MAN019 Permit Version: 2 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Unknown Receiving Water: Not Supplied Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m</p>	A9NW (SE)	812	1	387490 399310
4	<p>Discharge Consents</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: 01man019 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 Environment: Not Supplied Receiving Water: Not Supplied Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m</p>	A9NW (SE)	812	1	387490 399310

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<p>Discharge Consents</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 Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m</p>	A9SW (SE)	873	1	387490 399230
5	<p>Discharge Consents</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 Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m</p>	A9SW (SE)	873	1	387490 399230
6	<p>Discharge Consents</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 Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m</p>	A12SW (W)	888	1	385910 399890
7	<p>Discharge Consents</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 Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m</p>	A9NE (SE)	927	1	387750 399450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Discharge Consents 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 Status: Consent revoked: Discharge ceased (Water Resources Act 1991, Schedule 10 & 6) Positional Accuracy: Manually corrected supplier location	A3NW (S)	972	1	386670 398900
8	Discharge Consents 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 Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A3NW (S)	972	1	386670 398900
9	Integrated Pollution Controls 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 Status: Authorisation revokedRevoked Positional Accuracy: Manually positioned to the address or location	A7NW (SW)	820	1	386176 399365
9	Integrated Pollution Controls 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 Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Manually positioned to the address or location	A7NW (SW)	820	1	386176 399365
10	Integrated Pollution Prevention And Control 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 Status: Superseded By Variation 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 & Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day Primary Activity: Y	A13SW (SW)	202	1	386668 399739

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	Integrated Pollution Prevention And Control 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 Status: Effective 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 & Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day Primary Activity: Y	A13SW (SW)	218	1	386660 399724
11	Local Authority Pollution Prevention and Controls 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 Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A13NE (N)	42	2	386887 400025
12	Local Authority Pollution Prevention and Controls 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 Status: Permitted Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	114	2	386996 400044
12	Local Authority Pollution Prevention and Controls 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 Status: Permitted Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	114	2	386996 400044
13	Local Authority Pollution Prevention and Controls 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 Status: Authorised Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	180	2	387069 400057
14	Local Authority Pollution Prevention and Controls 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 Status: Permitted Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	239	2	387122 400084
15	Local Authority Pollution Prevention and Controls 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 Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	273	2	386737 399605

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	Local Authority Pollution Prevention and Controls 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 Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A18SW (N)	327	2	386819 400302
17	Local Authority Pollution Prevention and Controls 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 Status: Authorised Positional Accuracy: Automatically positioned to the address	A12NE (NW)	386	2	386495 400145
18	Local Authority Pollution Prevention and Controls 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 Status: Authorisation revokedRevoked Positional Accuracy: Manually positioned to the address or location	A8NW (S)	388	2	386831 399468
19	Local Authority Pollution Prevention and Controls 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 Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A18SW (N)	388	2	386780 400355
20	Local Authority Pollution Prevention and Controls 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 Status: Permitted Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	389	2	386641 400277
21	Local Authority Pollution Prevention and Controls 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: PG3/1Blending, packing, loading and use of bulk cement Status: Authorised Positional Accuracy: Manually positioned to the address or location	A12SE (W)	390	2	386419 399814
22	Local Authority Pollution Prevention and Controls 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 Status: Authorisation revokedRevoked Positional Accuracy: Manually positioned to the address or location	A8NW (S)	492	2	386776 399369

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	Local Authority Pollution Prevention and Controls 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 Status: Permitted Positional Accuracy: Manually positioned to the address or location	A9NW (SE)	709	2	387491 399459
24	Local Authority Pollution Prevention and Controls 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 Status: Authorised Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	723	2	386171 399545
25	Local Authority Pollution Prevention and Control Enforcements 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	A7NW (SW)	730	2	386179 399519
	Nearest Surface Water Feature	A13NW (NW)	2	-	386846 399946
26	Pollution Incidents to Controlled Waters Property Type: Agriculture: Manure Compound Location: M C R Abattoir, 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	A8NE (SE)	566	1	387200 399400
27	Pollution Incidents to Controlled Waters 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	A18NE (NE)	686	1	387200 400600
28	Pollution Incidents to Controlled Waters 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	A8SW (S)	770	1	386700 399100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	Pollution Incidents to Controlled Waters 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	A12NW (W)	803	1	386001 400001
30	Pollution Incidents to Controlled Waters 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	A19SE (NE)	951	1	387700 400500
31	Pollution Incidents to Controlled Waters 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	A9NE (SE)	971	1	387700 399300
	River Quality 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	A13SE (SE)	0	1	386875 399914
	River Quality 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	A9SW (SE)	834	1	387359 399183
	River Quality Name: Moston Bk GQA Grade: River Quality F Reach: Qsl At Hale Lane Failsworth To Irk Estimated Distance (km): 5.6 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A18NE (N)	917	1	387081 400883



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	<p>River Quality Chemistry Sampling Points</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>	A7NE (SW)	571	1	386363 399530

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	River Quality Chemistry Sampling Points 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	A7NE (SW)	571	1	386363 399530
33	Substantiated Pollution Incident Register 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	A12NE (W)	291	1	386517 399982
34	Substantiated Pollution Incident Register 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	A9NE (SE)	815	1	387592 399415

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	Substantiated Pollution Incident Register 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	A9SW (SE)	885	1	387500 399223
36	Water Abstractions Operator: Cochrane & 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 & 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	A13NE (N)	17	1	386901 400001
37	Water Abstractions 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	A13SW (W)	274	1	386550 399790
37	Water Abstractions 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	A13SW (W)	274	1	386550 399790
38	Water Abstractions 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	A8SW (S)	757	1	386800 399100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	Water Abstractions 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 & 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	A18NE (N)	815	1	386900 400800
	Water Abstractions 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	A3NE (S)	1056	1	386900 398800
	Water Abstractions 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	A3NE (S)	1061	1	386900 398795
	Water Abstractions 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	A2NW (SW)	1412	1	385900 398800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions 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) 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	A2NW (SW)	1416	1	385900 398795
	Water Abstractions 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	A4SE (SE)	1632	1	387600 398400
	Water Abstractions 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) 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	A4SE (SE)	1637	1	387600 398395
	Water Abstractions 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	A16NW (NW)	1651	1	385300 400600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions 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	A4SE (SE)	1731	1	387800 398400
	Water Abstractions 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	A4SE (SE)	1735	1	387800 398395
	Water Abstractions 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	A4SE (SE)	1781	1	387860 398379
	Water Abstractions 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	A4SE (SE)	1784	1	387859 398375

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions 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	A5SW (SE)	1786	1	387900 398400
	Water Abstractions 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	A5SW (SE)	1790	1	387900 398395
	Water Abstractions 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) 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	(W)	1808	1	385001 400101
	Water Abstractions 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) 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	(W)	1809	1	385000 400100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions 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) 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	(W)	1809	1	385000 400100
	Water Abstractions 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	A16NW (NW)	1832	1	385200 400800
	Water Abstractions 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	(SE)	1946	1	387700 398100
	Water Abstractions 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	(SE)	1946	1	387700 398100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions 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	A5SW (SE)	1959	1	388027 398277
	Water Abstractions 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	A5SW (SE)	1983	1	388100 398300
	Water Abstractions 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	A5SW (SE)	1987	1	388100 398295
	Water Abstractions 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	(SE)	2000	1	387681 398032

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions 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	(SE)	2000	1	387681 398032
	Water Abstractions 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	(SE)	2000	1	387681 398032
	Groundwater Vulnerability 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 (SE)	0	1	386873 399916
	Drift Deposits 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 (SE)	0	1	386873 399916
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (SE)	0	3	386873 399916
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13SE (SE)	0	3	386873 399916
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	BGS Recorded Landfill Sites 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	A9NE (SE)	826	3	387676 399525
41	Historical Landfill Sites 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	A14NW (NE)	500	1	387330 400242
42	Historical Landfill Sites 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	A8SW (S)	637	1	386754 399225
43	Historical Landfill Sites 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 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: 4200/9660 BGS Ref: Not Supplied Other Ref: F006	A18NW (N)	706	1	386732 400671
44	Historical Landfill Sites 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	A9NE (SE)	815	1	387661 399522

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	Historical Landfill Sites 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: Deposited Waste included Inert and Industrial Waste Type: EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: 2777 Other Ref: Not Supplied	A9NE (SE)	826	1	387676 399525
46	Historical Landfill Sites 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	A9NE (SE)	867	1	387734 399550
47	Historical Landfill Sites Licence Holder: Not Supplied Location: Church Lane, Harpurhey, Manchester, Greater Manchester Name: Land adjacent to Church Lane North Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16416 First Input Date: Not Supplied Last Input Date: 31st December 1977 Specified Waste: Deposited Waste included Commercial and Household Waste Type: EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: F007	A18NE (N)	952	1	387140 400906
48	Historical Landfill Sites 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	A7SE (SW)	975	1	386423 398976
49	Integrated Pollution Control Registered Waste Sites 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 Status: Application has met the requirements for authorisation (but not yet authorised) Not Yet Authorised Positional Accuracy: Automatically positioned to the address	A9NW (SE)	620	1	387365 399456

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	Licensed Waste Management Facilities (Locations) 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 Licence Status: Issued 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	A13NW (NW)	74	1	386800 400000
51	Licensed Waste Management Facilities (Locations) 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 Licence Status: Modified 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	A13NE (N)	114	1	386884 400098
52	Licensed Waste Management Facilities (Locations) 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: HCI Waste TS + treatment Licence Status: Modified 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	A13SE (SE)	315	1	387038 399593
53	Licensed Waste Management Facilities (Locations) Licence Number: 53767 Location: Land At The Junction Of, Cheetham Street & 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) Licence Status: Transferred 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	A12NE (W)	342	1	386465 399982

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
53	Licensed Waste Management Facilities (Locations) 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) Licence Status: Modified 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	A12NE (W)	363	1	386446 399995
54	Licensed Waste Management Facilities (Locations) Licence Number: 53518 Location: Old Leaches Yard, Beckford Street, Miles Platting, Manchester, M40 5AE Operator Name: Anthony & Darren James Benson Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Transferred 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	A12NE (W)	585	1	386258 400130
55	Licensed Waste Management Facilities (Locations) 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 & Excavation WTS with treatment Licence Status: Issued 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	A12NE (W)	612	1	386210 400075
	Local Authority Landfill Coverage Name: Manchester City Council - Had landfill data but passed it to the relevant environment agency		0	5	386873 399916
56	Registered Landfill Sites 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 Restrictions: No known restriction on source of waste 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	A14NW (NE)	484	1	387368 400153

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	<p>Registered Landfill Sites</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 Prohibited Waste: 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>	A8SW (S)	770	1	386700 399100
58	<p>Registered Landfill Sites</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 Prohibited Waste: Liquid/Slurry/Sludge Wastes Notifiable Wastes N.O.S </p>	A8SW (S)	868	1	386700 399000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	<p>Registered Waste Transfer Sites</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 (W)	349	1	386460 399990
60	<p>Registered Waste Transfer Sites</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 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 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>	A12NE (W)	507	1	386330 400100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	<p>Registered Waste Transfer Sites</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 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 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>	A12NE (W)	507	1	386330 400100
61	<p>Registered Waste Transfer Sites</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 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>	A12SW (W)	738	1	386060 399900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
62	<p>Registered Waste Treatment or Disposal Sites</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 Licence: Superseded By Licence: Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste Cont'Rs With < 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 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> <p>Prohibited Waste</p>	A13NW (NW)	74	1	386801 400001
63	<p>Registered Waste Treatment or Disposal Sites</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 Licence: Superseded By Licence: Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Supplied Authorised Waste Empty Used IBCs With < 2 Litre Liq Or 10 Litre Solid Residues Which May Include Empty Used Packages/containers With < 1% Vol Residues Which May Include Maximum Waste In Working Plan Maximum Waste Permitted By Licence Packages/containers/IBCs With < 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</p> <p>Prohibited Waste</p>	A13NE (N)	117	1	386880 400100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	<p>Registered Waste Treatment or Disposal Sites</p> <p>64</p> <p>Site Location: E M R Moores Division, Irlam Street, Miles Platting, Manchester, Greater Manchester, M40 2bp</p> <p>Operator Location: Alexandra Building, Alexandra Dock, Bootle, Liverpool, Merseyside</p> <p>Authority: Environment Agency - North West Region, South Area</p> <p>Site Category: Scrapyard - with Transfer Station</p> <p>Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year)</p> <p>Waste Source Restrictions: No known restriction on source of waste</p> <p>Licence Status: Operational as far as is knownOperational</p> <p>Dated: 12th October 1993</p> <p>Preceded By 00943</p> <p>Licence:</p> <p>Superseded By Not Given</p> <p>Positional Accuracy: Manually positioned to the address or location</p> <p>Boundary Quality: Not Supplied</p> <p>Authorised Waste</p> <ul style="list-style-type: none"> Brake Fluid/Antifreeze Cadmium & Cpds Carbides And Acetylides Comp.Bonded Asbestos Sheet/Piping Contaminated Soil - Class C Copper & 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 & Cpds Kerosene And Derv. Lead & Cpds Max.Waste Permitted By Licence Mineral Oils Organic Acids + Related Cmpds Organic-Metallic Cmpds Phenols, Analogues/Derivatives Plaster Plasterboard Scrap Metal Scrap Rubber (Including Tyres) Silver & Cpds Tin & Cpds Titanium & Cpds Zinc & Cpds <p>Prohibited Waste</p> <ul style="list-style-type: none"> 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. 	A12NE (W)	351	1	386460 400000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	<p>Registered Waste Treatment or Disposal Sites</p> <p> Licence Holder: Manchester Cabins Ltd Licence Reference: 00863/92 Site Location: Albion Works, Drewett Street, Miles Platting, MANCHESTER, Greater Manchester, M10 8AR 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) Waste Source Restrictions: Licence Status: Site exempt from licenceExempt Dated: 1st July 1993 Preceded By Licence: Superseded By 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) 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>	A12SE (W)	484	1	386340 399750
66	<p>Registered Waste Treatment or Disposal Sites</p> <p> Licence Holder: Degussa Ltd Manox Division Licence Reference: 00716/91 Site Location: Coleshill Street, Miles Platting, MANCHESTER, Greater Manchester, M10 7AA 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) Waste Source Restrictions: Licence Status: Site now IPC authorisedAuthorised Dated: 1st September 1992 Preceded By Licence: Superseded By Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Barium & Cpd's Calcium & Cpd's Cyanides - All Types Inorganic Acids Ph < 4.0 Max.Waste Permitted By Licence Potassium & Cpd's Sodium & Cpd's Explosive Waste Malodorous Waste Pressurised Waste Violently Reactive Wastes Waste N.O.S. </p>	A7NW (SW)	849	1	386150 399350



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	Control of Major Accident Hazards Sites (COMAH) Name: Transco Plc Location: Bradford Road Holder, Bradford Road, Miles Platting, MANCHESTER, Greater Manchester, M10 7BL Reference: 1029780 Type: Upper Tier Status: Active Positional Accuracy: Manually positioned to the address or location	A8SW (S)	673	4	386676 399205
68	Control of Major Accident Hazards Sites (COMAH) Name: Degussa Limited Location: Manox House, Coleshill Street, Manchester, M40 7AA Reference: 17545 Type: Upper Tier Status: Record Ceased To Be Supplied Under COMAH Regulations Positional Accuracy: Automatically positioned to the address	A7NW (SW)	810	4	386181 399375
69	Notification of Installations Handling Hazardous Substances (NIHHS) Name: British Gas (North West) PLC Location: Bradford Road Holder Station, Bradford Road, Miles Platting, MANCHESTER, Greater Manchester, M10 7BL Status: Record Ceased To Be Supplied Under NIHHS Regulations (1982) Positional Accuracy: Unknown	A8SW (S)	695	4	386672 399183
70	Planning Hazardous Substance Consents 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: Deemed Consent GrantedGranted Positional Accuracy: Manually positioned to the address or location	A8SW (S)	674	5	386680 399203
70	Planning Hazardous Substance Consents 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: Deemed Consent GrantedGranted Positional Accuracy: Manually positioned to the address or location	A8SW (S)	691	5	386666 399189

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Upper Westphalian (including Pennant Measures)	A13SW (SW)	0	3	386842 399885
	BGS 1:625,000 Solid Geology Description: Permian and Triassic sandstones, undifferentiated, including Bunter and Keuper	A13SE (SE)	0	3	386873 399916
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (SE)	0	6	386873 399916
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 150 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (NE)	0	6	386896 399951
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 150 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (N)	15	6	386873 400000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 150 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (E)	52	6	387000 399916
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (E)	61	6	387000 399883

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 90 - 120 mg/kg</p> <p>Concentration: Lead Concentration: <150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A13NW (NW)	62	6	386820 400000
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: <150 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A13NE (NE)	70	6	386972 400007
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: <150 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A13NE (NE)	73	6	386978 400000
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: <150 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A13NE (NE)	77	6	387000 399976
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: <150 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A13NE (NE)	91	6	387000 400000
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 90 - 120 mg/kg</p> <p>Concentration: Lead Concentration: <150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A13NW (N)	185	6	386829 400157

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A13SW (SW)	283	6	386679 399623
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: <150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A13NE (NE)	371	6	387199 400204
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14NW (NE)	372	6	387267 400105
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: <150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A14NW (NE)	383	6	387265 400129
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14NW (E)	422	6	387360 400000
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A14NW (E)	440	6	387379 400000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: <150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A18SE (N)	457	6	387000 400430
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A8NE (S)	467	6	387000 399411
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A14NW (E)	492	6	387429 400015
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14NW (E)	492	6	387422 400044
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: <150 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14NW (E)	493	6	387433 400000
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14SW (E)	521	6	387467 399876

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14NW (E)	523	6	387463 400000
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A18SE (NE)	547	6	387174 400456
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A18SE (N)	573	6	387000 400549
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: <150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A18SE (N)	594	6	386946 400577
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14SW (E)	603	6	387513 399705
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A14NE (E)	666	6	387608 400000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A9NW (SE)	694	6	387547 399563
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: <150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A12NW (W)	695	6	386109 400000
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14SE (E)	779	6	387720 399816
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A12SW (W)	798	6	386000 399916
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: <150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A12NW (W)	804	6	386000 400000
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 90 - 120 mg/kg</p> <p>Concentration: Lead Concentration: <150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A12NW (W)	815	6	386000 400072

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: <150 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A9NE (SE)	842	6	387622 399410
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic <15 mg/kg</p> <p>Concentration: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: <150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A9NE (SE)	849	6	387615 399390
	<p>BGS Estimated Soil Chemistry</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: Cadmium 1.8 - 2.2 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: 300 - 600 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A8SE (S)	856	6	386873 399000
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: <150 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A8SE (S)	867	6	387000 399000
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A17SW (NW)	947	6	386000 400415
	<p>BGS Estimated Soil Chemistry</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: Cadmium <1.8 mg/kg</p> <p>Concentration: Chromium 60 - 90 mg/kg</p> <p>Concentration: Lead Concentration: 150 - 300 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A9SE (SE)	974	6	387653 399243

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NE (N)	979	6	387187 400920
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A18NE (N)	982	6	387186 400923
71	BGS Recorded Mineral Sites Site Name: Philips Park Brick Works Location: , Clayton, Manchester, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 95125 Type: Opencast Status: Ceased 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	A8NE (S)	359	3	386930 399504
72	BGS Recorded Mineral Sites Site Name: Newton Brick Works Location: , Newton, Manchester, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 95120 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Permian Geology: Manchester Marls Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	432	3	387280 400195
73	BGS Recorded Mineral Sites Site Name: Miles Platting Brick Works Location: , Miles Platting, Manchester, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 95121 Type: Opencast Status: Ceased 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	A8NW (SW)	510	3	386605 399404
74	BGS Recorded Mineral Sites Site Name: Philips Park Brick Works Location: , Clayton, Manchester, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 95126 Type: Opencast Status: Ceased 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	A9NW (SE)	603	3	387359 399474

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Mitchell Street Brickworks Location: , Newton Heath, Manchester Source: British Geological Survey, National Geoscience Information Service Reference: 15091 Type: Opencast Status: Ceased 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)	906	3	387725 400380
	<p>BGS Measured Urban Soil Chemistry</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>	A13SW (S)	0	3	386860 399870
	<p>BGS Measured Urban Soil Chemistry</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>	A13SE (SE)	189	3	387070 399770
	<p>BGS Measured Urban Soil Chemistry</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 (S)	555	3	386750 399310
	<p>BGS Measured Urban Soil Chemistry</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>	A12SE (W)	641	3	386210 399650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>BGS Measured Urban Soil Chemistry</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>	A9SW (SE)	738	3	387220 399210
	<p>BGS Measured Urban Soil Chemistry</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>	A7NE (SW)	837	3	386260 399250
	<p>BGS Measured Urban Soil Chemistry</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)	852	3	387740 399600
	<p>BGS Measured Urban Soil Chemistry</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>	A11SE (W)	972	3	385840 399740

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Urban Soil Chemistry Averages 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:	A13SE (SE)	0	3	386873 399916
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SE (SE)	0	7	386873 399916
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SE (SE)	0	-	386873 399916
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	3	386873 399916
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	16	3	386873 400001
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	3	386873 399916
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	16	3	386873 400001
	Potential for Ground Dissolution Stability Hazards No Hazard				
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	3	386873 399916
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	16	3	386873 400001
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	3	386873 399916
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	16	3	386873 400001

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	3	386873 399916
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	16	3	386873 400001
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	3	386873 399916
	Radon Potential - Radon Affected Areas 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 (SE)	0	3	386873 399916

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	Contemporary Trade Directory Entries Name: Nuglaze Panel Location: Bower St, Manchester, Lancashire, M40 2BH Classification: PVC-U Products - Manufacturers & Suppliers Status: Active Positional Accuracy: Manually positioned within the geographical locality	A13NE (N)	102	-	386893 400087
76	Contemporary Trade Directory Entries Name: S B Motorbodies (Mc) Ltd Location: 2a Bower Street, Manchester, Lancashire, M40 2AF Classification: Garage Services Status: Active Positional Accuracy: Manually positioned to the address or location	A13NE (N)	103	-	386879 400086
76	Contemporary Trade Directory Entries Name: Manchester Drums Location: Bower Street, Newton Heath, Manchester, M40 2AF Classification: Drums, Kegs, Barrels & Casks Status: Active Positional Accuracy: Automatically positioned in the proximity of the address	A13NE (N)	149	-	386884 400133
76	Contemporary Trade Directory Entries Name: Drummer Boy Trading Co Ltd Location: Bower Street, Newton Heath, Manchester, M40 2AF Classification: Drums, Kegs, Barrels & Casks Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A13NE (N)	149	-	386884 400133
77	Contemporary Trade Directory Entries Name: K M H Printers Location: Chapter Street, Manchester, Lancashire, M40 2AY Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	157	-	386695 400024
78	Contemporary Trade Directory Entries Name: Welding Engineers (Mersey) Ltd Location: Unit 2, Navigation Trading Estate, Bower Street, Newton Heath, Manchester, M40 2AR Classification: Door Manufacturers - Industrial Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	176	-	386977 400142
79	Contemporary Trade Directory Entries Name: Alloy Bodies Ltd Location: Jubilee Works, Clifton Street, Miles Platting, Manchester, M40 8HN Classification: Commercial Vehicle Bodybuilders & Repairers Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	186	-	386754 399692
80	Contemporary Trade Directory Entries Name: Azura Location: Chapter St, Manchester, M40 2AY Classification: Soft Furnishings - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NW (W)	196	-	386619 399985
81	Contemporary Trade Directory Entries Name: J C S Pallets Location: Lord North Street, Manchester, M40 8AD Classification: Pallets, Crates & Packing Cases Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	202	-	386668 399739
81	Contemporary Trade Directory Entries Name: Princes Soft Drinks Location: Lord North Street, Manchester, M40 2HJ Classification: Soft Drinks - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	202	-	386668 399739
81	Contemporary Trade Directory Entries Name: Clynder Cables Ltd Location: 3, Lord North Street, MANCHESTER, M40 8AD Classification: Cable & Wire Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	202	-	386668 399739

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
82	Contemporary Trade Directory Entries Name: Grace Motor Engineers Location: Chapter Street, Manchester, Lancashire, M40 2AY Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	226	-	386573 399919
83	Contemporary Trade Directory Entries Name: Ensign Location: Ensign Garage, Robert Street, Manchester, M40 2DX Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	277	-	386792 400242
84	Contemporary Trade Directory Entries Name: Tyco Control Systems Ltd Location: Wormald Park, Grimshaw Lane, Manchester, M40 2WL Classification: Automation Systems & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	281	-	386679 400168
84	Contemporary Trade Directory Entries Name: Wormald Fire Systems Location: Wormald Park, Grimshaw Lane, Manchester, M40 2WL Classification: Firefighting Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	281	-	386679 400168
85	Contemporary Trade Directory Entries Name: Addax Products Location: 36, Irlam Street, Manchester, M40 2BW Classification: Stationery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	327	-	386490 400017
85	Contemporary Trade Directory Entries Name: European Metal Recycling Location: Irlam Street, MANCHESTER, M40 2BP Classification: Recycling Centres Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (W)	341	-	386471 400002
86	Contemporary Trade Directory Entries Name: Fine Castings Ltd Location: 800, Oldham Road, Manchester, M40 2AB Classification: Fireplaces & Mantelpieces Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	333	-	386540 400115
87	Contemporary Trade Directory Entries Name: United Aluminium Ltd Location: Holt St, Manchester, M40 5AX Classification: Aluminium Fabricators Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A18SW (N)	333	-	386746 400282
87	Contemporary Trade Directory Entries Name: Travis Perkins Trading Co Ltd Location: Holt St, Manchester, Lancashire, M40 5AX Classification: Builders' Merchants Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A18SW (N)	344	-	386741 400291
88	Contemporary Trade Directory Entries Name: Tyeworld Location: 704, Oldham Road, Manchester, M40 2AA Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A13NW (NW)	347	-	386676 400252
89	Contemporary Trade Directory Entries Name: Medic Bath Co Ltd Location: Ashfield Works, Briscoe Lane, Manchester, M40 2XG Classification: Disability Equipment - Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	357	-	387057 399555
90	Contemporary Trade Directory Entries Name: Nortons Hiab Services Ltd Location: Norton St, Miles Platting, Manchester, M40 8HD Classification: Road Haulage Services Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A12SE (SW)	370	-	386464 399746

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
91	Contemporary Trade Directory Entries Name: North Manchester Commercials Ltd Location: Briscoe Lane, Manchester, M40 2NL Classification: Commercial Vehicle Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	381	-	386956 399488
91	Contemporary Trade Directory Entries Name: North Manchester Commercials Location: Briscoe Lane, Manchester, Lancashire, M40 2NL Classification: Commercial Vehicle Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	381	-	386956 399488
91	Contemporary Trade Directory Entries Name: N N C Contracts Hire Ltd Location: Briscoe La, Manchester, Lancashire, M40 2NL Classification: Commercial Vehicle Bodybuilders & Repairers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8NE (S)	420	-	386958 399448
92	Contemporary Trade Directory Entries Name: Monsal Service Station Location: 571, Oldham Road, Manchester, M40 5AF Classification: Petrol Filling Stations - 24 Hour Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	386	-	386495 400145
93	Contemporary Trade Directory Entries Name: Manchester Crane Hire Location: Norton St, Miles Platting, Manchester, M40 8HD Classification: Crane Hire, Sales & Service Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12SE (SW)	386	-	386451 399736
93	Contemporary Trade Directory Entries Name: Autodeutsch Location: Providence Works, Norton St, Miles Platting, Manchester, M40 8EH Classification: Garage Services Status: Active Positional Accuracy: Manually positioned to the address or location	A12SE (SW)	391	-	386474 399686
93	Contemporary Trade Directory Entries Name: B S Diesels Location: Norton St, Miles Platting, Manchester, M40 8HD Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12SE (SW)	394	-	386444 399732
93	Contemporary Trade Directory Entries Name: Audi Only Location: Providence Works, Norton Street, Miles Platting, Manchester, M40 8EH Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A12SE (SW)	412	-	386448 399689
93	Contemporary Trade Directory Entries Name: Hanson Aggregates Location: Norton St, Miles Platting, Manchester, M40 8HD Classification: Concrete & Mortar Ready Mixed Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12SE (SW)	416	-	386427 399718
93	Contemporary Trade Directory Entries Name: Hanson Aggregates Location: Norton St, Miles Platting, Manchester, M40 8HD Classification: Concrete Manufacturers & Distributors Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12SE (SW)	416	-	386427 399718
93	Contemporary Trade Directory Entries Name: Feltham Hydraulics Ltd Location: Unit 6, Providence Works, Norton St, Miles Platting, Manchester, Lancashire, M40 8EH Classification: Hydraulic Equipment & Accessories - Sales & Service Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12SE (SW)	423	-	386421 399714

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
93	Contemporary Trade Directory Entries Name: Central Hydraulics (Manchester) Ltd Location: Providence Works, Norton Street, Miles Platting, Manchester, M40 8EH Classification: Hydraulic Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (SW)	432	-	386423 399691
93	Contemporary Trade Directory Entries Name: Clad-It Eco Roofing Solutions Ltd Location: Providence Works, Norton St, Miles Platting, Manchester, Lancashire, M40 8EH Classification: Cladding Suppliers & Installers Status: Active Positional Accuracy: Manually positioned within the geographical locality	A12SE (SW)	432	-	386423 399691
94	Contemporary Trade Directory Entries Name: Anglo European Ltd Location: 228, Briscoe Lane, Manchester, M40 2XG Classification: Steel Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	388	-	386831 399468
94	Contemporary Trade Directory Entries Name: Northern Butchers Hide Markets Ltd Location: 228, Briscoe Lane, Manchester, M40 2XG Classification: Leather Merchants & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	388	-	386831 399468
94	Contemporary Trade Directory Entries Name: Anglo European Location: 228 Briscoe La, Manchester, Lancashire, M40 2XG Classification: Steel Manufacturers Status: Active Positional Accuracy: Manually positioned to the address or location	A8NW (S)	389	-	386831 399467
95	Contemporary Trade Directory Entries Name: Norton Services Ltd Location: Norton Street, Miles Platting, Manchester, M40 8HD Classification: Freight Forwarders Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	390	-	386419 399814
95	Contemporary Trade Directory Entries Name: K S L Crane Hire Location: Norton Street, Miles Platting, Manchester, Lancashire, M40 8HD Classification: Crane Hire, Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	390	-	386419 399814
96	Contemporary Trade Directory Entries Name: G J D Fabrications Ltd Location: Unit 3-4, Holt Street, Manchester, Lancashire, M40 5AX Classification: Aluminium Fabricators Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	392	-	386759 400352
97	Contemporary Trade Directory Entries Name: Wintan Easy Foods Ltd Location: Unit 6, Holt Street, MANCHESTER, M40 5AX Classification: Food Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	400	-	386806 400374
97	Contemporary Trade Directory Entries Name: Howdens Location: Unit 5, Holt Street, Manchester, M40 5AX Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A18SW (N)	405	-	386788 400375
97	Contemporary Trade Directory Entries Name: New Road Service Station Location: Elvey House, 15, Baltimore Street, Manchester, M40 5AL Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A18SW (N)	434	-	386815 400411

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
98	Contemporary Trade Directory Entries Name: Weir Pumps Ltd Location: Park Works, Grimshaw Lane, Manchester, M40 2BA Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	402	-	386591 400254
99	Contemporary Trade Directory Entries Name: Maxi Haulage Ltd Location: 2, Monsall Road, Manchester, M40 8FZ Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (NW)	418	-	386635 400311
99	Contemporary Trade Directory Entries Name: Sapphire Garage Location: 1-3, Monsall Road, Manchester, M40 8FZ Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A18SW (NW)	418	-	386635 400311
100	Contemporary Trade Directory Entries Name: Mont Blanc Location: Arkady, Unit2 Briscoe La, Manchester, Lancashire, M40 2XG Classification: Road Haulage Services Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A8NE (S)	428	-	386928 399433
101	Contemporary Trade Directory Entries Name: Permanoid Ltd Location: 107, Hulme Hall Lane, Manchester, M40 8HH Classification: Cable & Wire Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	458	-	386443 399611
101	Contemporary Trade Directory Entries Name: Fixings North West Ltd Location: 107, Hulme Hall Lane, Manchester, M40 8HH Classification: Fasteners & Fixing Devices Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	458	-	386443 399611
101	Contemporary Trade Directory Entries Name: Permanoid Ltd Location: 107, Hulme Hall Lane, Manchester, M40 8HH Classification: Cable & Wire Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	458	-	386443 399611
102	Contemporary Trade Directory Entries Name: Jewson Ltd Location: Beckford Street, Manchester, M40 5AJ Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (W)	462	-	386373 400086
102	Contemporary Trade Directory Entries Name: Jewson Ltd Location: Beckford Street, MANCHESTER, M40 5AJ Classification: Builders' Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	462	-	386373 400086
102	Contemporary Trade Directory Entries Name: Beckford Street Location: Unit 16, Beckford St, Manchester, M40 5AE Classification: Tyre Dealers Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A12NE (W)	480	-	386346 400068
102	Contemporary Trade Directory Entries Name: Unit 6 Auto Location: Unit 6, Beckford St, Manchester, M40 5AE Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12NE (W)	494	-	386338 400084
102	Contemporary Trade Directory Entries Name: Manchester Safety Towers Location: Beckford St, Manchester, M40 5AE Classification: Scaffolding & Work Platforms Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12NE (W)	495	-	386337 400085

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
102	Contemporary Trade Directory Entries Name: Manchester Safety Tower Sales Location: 2 Beckford St, Manchester, M40 5AE Classification: Scaffolding & Work Platforms Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12NE (W)	496	-	386336 400086
103	Contemporary Trade Directory Entries Name: Plant & Automation Ltd Location: Lord North Street, Manchester, M40 8HT Classification: Tube Bending Status: Active Positional Accuracy: Automatically positioned in the proximity of the address	A7NE (SW)	465	-	386479 399557
103	Contemporary Trade Directory Entries Name: Vintage Wings & Radiators Location: Lord North Street, Manchester, M40 8HT Classification: Classic Car Specialists Status: Active Positional Accuracy: Automatically positioned in the proximity of the address	A7NE (SW)	465	-	386479 399557
103	Contemporary Trade Directory Entries Name: Eyres Forgings Ltd Location: Lord North Street, Manchester, M40 8HT Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A7NE (SW)	465	-	386479 399557
104	Contemporary Trade Directory Entries Name: Hbs Uk Cleaning Services Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XP Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (SE)	480	-	387128 399455
104	Contemporary Trade Directory Entries Name: Kurpas Meats Plc Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XS Classification: Meat - Wholesale Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (SE)	480	-	387128 399455
104	Contemporary Trade Directory Entries Name: 151 Products Location: Block 1, Manchester Abattoir, Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Distribution Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8NE (SE)	480	-	387139 399462
105	Contemporary Trade Directory Entries Name: Modern Waste Recycling Ltd Location: Hillbit House, New Street, Manchester, M40 8AW Classification: Recycling Centres Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (W)	490	-	386308 399919
105	Contemporary Trade Directory Entries Name: Worldwide Waste Management Ltd Location: Unit 1, Hillbit House, New St, Manchester, Lancashire, M40 8AW Classification: Recycling Centres Status: Active Positional Accuracy: Manually positioned within the geographical locality	A12SE (W)	490	-	386308 399919
105	Contemporary Trade Directory Entries Name: Boiler House Supplies Location: Hillbit House, New Street, Manchester, M40 8AW Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	490	-	386308 399919
105	Contemporary Trade Directory Entries Name: Majid Bros Plant Location: Hillbit House, New Street, Manchester, Lancashire, M40 8AW Classification: Machinery - Industrial & Commercial Status: Inactive Positional Accuracy: Manually positioned to the address or location	A12SE (W)	490	-	386308 399919
106	Contemporary Trade Directory Entries Name: Doug Priestley Transport Location: Briscoe La, Manchester, Lancashire, M40 2XG Classification: Road Haulage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8NW (S)	490	-	386826 399366

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
107	Contemporary Trade Directory Entries Name: S L J Location: Monsall Rd, Manchester, Lancashire, M40 8WT Classification: Engineers - General Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A18SW (NW)	501	-	386560 400356
107	Contemporary Trade Directory Entries Name: High Access Cleaning & Maintenance Ltd Location: Unit 3, Ansa House, 7 Monsall Rd, Manchester, Lancashire, M40 8FY Classification: Cleaning Materials & Equipment Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A18SW (NW)	509	-	386557 400364
107	Contemporary Trade Directory Entries Name: Prestige Autos Location: Wilsons House, Wilsons Park, Monsall Road, Manchester, Lancashire, M40 8WN Classification: Car Dealers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	549	-	386533 400396
107	Contemporary Trade Directory Entries Name: Tresu Location: Unit 1, Wilsons Park, Monsall Road, Manchester, Lancashire, M40 8WN Classification: Printers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	549	-	386533 400396
107	Contemporary Trade Directory Entries Name: Data Design & Assembly Services Location: Unit 1-4a, Wilsons Park, Monsall Road, Manchester, Lancashire, M40 8WN Classification: Electronic Engineers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	549	-	386533 400396
108	Contemporary Trade Directory Entries Name: Textino Location: Hulme Hall Lane, Manchester, M40 8YD Classification: Cleaning Materials & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	510	-	386354 399654
108	Contemporary Trade Directory Entries Name: Withers & Bolton Location: Hulme Hall Lane, Manchester, M40 8YD Classification: Hardware Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (SW)	510	-	386354 399654
109	Contemporary Trade Directory Entries Name: The Boggart Brewery Location: Unit 7, Wilsons Park, Monsall Road, Manchester, M40 8WN Classification: Brewers Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	512	-	386452 400282
109	Contemporary Trade Directory Entries Name: Honour Freight Solutions Ltd Location: Wilsons Pk, Monsall Rd, Manchester, Lancashire, M40 8WN Classification: Freight Forwarders Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A17SE (NW)	522	-	386461 400304
109	Contemporary Trade Directory Entries Name: Durham Duplex Location: Wilsons Pk, Monsall Rd, Manchester, Lancashire, M40 8WN Classification: Tool Sharpening, Repairing & Servicing Status: Active Positional Accuracy: Manually positioned within the geographical locality	A17SE (NW)	543	-	386421 400296
110	Contemporary Trade Directory Entries Name: Crescent Motors Location: 17, Beckford Street, Manchester, M40 5AE Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (NW)	515	-	386342 400145

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
111	Contemporary Trade Directory Entries Name: Kurt Lachenmeier (UK) Ltd Location: Monsall Road, Manchester, M40 8PA Classification: Packaging & Wrapping Equipment & Supplies Status: Active Positional Accuracy: Automatically positioned to the address	A18SW (NW)	516	-	386643 400434
111	Contemporary Trade Directory Entries Name: John Smith Ltd Location: Monsall Road, Manchester, M40 8PA Classification: Brewers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (NW)	516	-	386643 400434
112	Contemporary Trade Directory Entries Name: Philips Park Cemetery Location: Hulme Hall La, Manchester, Lancashire, M40 8HE Classification: Cemeteries & Crematoria Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8NE (S)	518	-	386951 399346
113	Contemporary Trade Directory Entries Name: Crawford Commercials Location: 497 A Oldham Rd, Manchester, Lancashire, M40 5AA Classification: Commercial Vehicle Breakdown & Recovery Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12NE (W)	525	-	386282 400004
114	Contemporary Trade Directory Entries Name: The Electricity Advisory Centre Location: Monsall Rd Wilsons Pk, Manchester, Lancashire, M40 8WN Classification: Electricity Companies Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A17SE (NW)	526	-	386510 400348
114	Contemporary Trade Directory Entries Name: Power To Light Location: Unit 10f, Wilsons Park, Monsall Road, MANCHESTER, M40 8WN Classification: Electronic Equipment - Manufacturers & Assemblers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	550	-	386466 400344
114	Contemporary Trade Directory Entries Name: Data Design Location: Unit 10G, Wilsons Park, Monsall Road, Manchester, Lancashire, M40 8WN Classification: Electronic Equipment - Manufacturers & Assemblers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	550	-	386466 400344
114	Contemporary Trade Directory Entries Name: Abbey R X Location: Unit 10a, Wilsons Park, Monsall Road, Manchester, M40 8WN Classification: Optical Goods - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	550	-	386466 400344
115	Contemporary Trade Directory Entries Name: Tas Tyres Location: 239-241, Briscoe Lane, Manchester, M40 2ST Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (E)	537	-	387468 399782
115	Contemporary Trade Directory Entries Name: Decorative Designs Location: 239-241, Briscoe Lane, Manchester, M40 2ST Classification: Stained Glass Designers & Producers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	537	-	387468 399782
115	Contemporary Trade Directory Entries Name: James Lucas Ltd Location: 239-241, Briscoe Lane, Manchester, M40 2ST Classification: Bacon & Ham Curers & Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	537	-	387468 399782
116	Contemporary Trade Directory Entries Name: Coldchase Foods Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XT Classification: Meat - Wholesale Status: Active Positional Accuracy: Automatically positioned to the address	A9NW (SE)	553	-	387238 399442

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
116	Contemporary Trade Directory Entries Name: Riverpark Press Location: Manchester Abattoir, Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Printers Status: Active Positional Accuracy: Manually positioned within the geographical locality	A9NW (SE)	594	-	387281 399422
117	Contemporary Trade Directory Entries Name: Sapphire Garage Location: Unit 1 2 3, Monsall Rd, Manchester, Lancashire, M40 8FZ Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A17SE (NW)	559	-	386514 400392
118	Contemporary Trade Directory Entries Name: M & G Location: Unit 11B, Wilsons Park, Monsall Road, Manchester, M40 8WN Classification: Mot Testing Centres Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	567	-	386436 400341
118	Contemporary Trade Directory Entries Name: Draf Engineering Services Ltd Location: Unit 12c, Wilsons Park, Monsall Road, MANCHESTER, M40 8WN Classification: Pumps - Sales, Servicing & Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	568	-	386411 400321
119	Contemporary Trade Directory Entries Name: Johnson & Scott Location: 497 Oldham Rd, Manchester, M40 5AA Classification: Air Conditioning & Refrigeration Contractors Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A12NE (W)	567	-	386236 399980
119	Contemporary Trade Directory Entries Name: Johnson & Scott Refrigeration Location: 497 Oldham Rd, Manchester, M40 5AA Classification: Refrigeration Equipment - Commercial Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12NE (W)	568	-	386235 399980
120	Contemporary Trade Directory Entries Name: Multiblend Chemicals Ltd Location: 495, Oldham Road, Manchester, M40 5AA Classification: Chemicals & Allied Products Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (W)	583	-	386242 400080
121	Contemporary Trade Directory Entries Name: Lennox Industries Location: Unit 22, Wilsons Pk, Monsall Rd, Manchester, Lancashire, M40 8WN Classification: Heating Equipment - Sales & Service Status: Inactive Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	593	-	386357 400302
122	Contemporary Trade Directory Entries Name: Pennine Meats Location: Manchester Abattoir, Riverpark Ind Est, Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A9NW (SE)	597	-	387318 399446
122	Contemporary Trade Directory Entries Name: Harvey Ashworth (Manchester) Ltd Location: Manchester Abattoir, Riverpark Rd, Manchester, M40 2XR Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Manually positioned to the address or location	A9NW (SE)	619	-	387364 399456
122	Contemporary Trade Directory Entries Name: Robert Edward Location: Manchester Abattoir, Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Food Products - Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A9NW (SE)	619	-	387364 399456

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
122	Contemporary Trade Directory Entries Name: Anthony Burns Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, Lancashire, M40 2XP Classification: Meat - Wholesale Status: Active Positional Accuracy: Automatically positioned to the address	A9NW (SE)	620	-	387365 399456
122	Contemporary Trade Directory Entries Name: Choice Game Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XR Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	620	-	387365 399456
122	Contemporary Trade Directory Entries Name: G R M Distribution Ltd Location: Manchester Abattoir, Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Insulation Materials Status: Active Positional Accuracy: Manually positioned within the geographical locality	A9NW (SE)	620	-	387365 399456
122	Contemporary Trade Directory Entries Name: Samuel Howarth Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XP Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	620	-	387365 399456
122	Contemporary Trade Directory Entries Name: Choice Game Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XR Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	620	-	387365 399456
122	Contemporary Trade Directory Entries Name: Kurpas Meats Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XS Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	620	-	387365 399456
122	Contemporary Trade Directory Entries Name: T Ritchie C & E Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, Lancashire, M40 2XS Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	620	-	387365 399456
122	Contemporary Trade Directory Entries Name: United Cattle Products Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, Lancashire, M40 2XS Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	620	-	387365 399456
122	Contemporary Trade Directory Entries Name: Hbs (Uk) Cleaning Services Location: Manchester Abattoir, Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A9NW (SE)	620	-	387365 399456
122	Contemporary Trade Directory Entries Name: Hanson Business Support Uk Ltd Location: Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A9NW (SE)	620	-	387365 399456
122	Contemporary Trade Directory Entries Name: Northern Optical Location: Unit 8,9, Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Optical Goods - Manufacturers Status: Active Positional Accuracy: Manually positioned within the geographical locality	A9NW (SE)	620	-	387365 399456
122	Contemporary Trade Directory Entries Name: Kosmo Services Location: Manchester Abattoir, Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A9NW (SE)	620	-	387365 399456

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
123	Contemporary Trade Directory Entries Name: Hadfields Ltd Location: Harden Works, Oldham Road, Manchester, M40 8AG Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	613	-	386186 399923
123	Contemporary Trade Directory Entries Name: T P Metcalfe Location: Harden Works, Oldham Road, Manchester, Lancashire, M40 8AG Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Manually positioned to the address or location	A12NW (W)	613	-	386186 399923
124	Contemporary Trade Directory Entries Name: Saville Whittle Ltd Location: Vickers Street, Manchester, M40 8EF Classification: Chemicals - Distributors & Wholesalers Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	618	-	386292 399549
124	Contemporary Trade Directory Entries Name: T Saville-Whittle Location: Vickers Street, Manchester, M40 8EF Classification: Chemicals - Distributors & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	618	-	386292 399549
124	Contemporary Trade Directory Entries Name: Heubach (Uk) Location: Vickers Street, Manchester, M40 8EF Classification: Chemicals - Distributors & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	618	-	386292 399549
125	Contemporary Trade Directory Entries Name: Sunde Technologies Ltd Location: Thorp Rd, Manchester, Lancashire, M40 5BJ Classification: Computer Manufacturers Status: Active Positional Accuracy: Manually positioned within the geographical locality	A18SE (NE)	622	-	387140 400557
126	Contemporary Trade Directory Entries Name: J B S Balers Location: 267, Sandal Street, Manchester, M40 7BB Classification: Recycling Services Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	626	-	386477 399346
127	Contemporary Trade Directory Entries Name: Grahams Location: Vickers St, Manchester, Lancashire, M40 8PU Classification: Packaging Materials Manufacturers & Suppliers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A12SE (SW)	654	-	386225 399590
127	Contemporary Trade Directory Entries Name: Duo Plastics Ltd Location: Vickers Street, Manchester, M40 8PU Classification: Polythene & Plastic Sheeting Supplies Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (SW)	655	-	386225 399590
128	Contemporary Trade Directory Entries Name: D C D Co Ltd Location: 256, Bradford Road, Manchester, M40 7BT Classification: Meat - Wholesale Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (SW)	663	-	386577 399249
129	Contemporary Trade Directory Entries Name: Asaka Computer Systems Location: Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Computer Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9NW (SE)	667	-	387352 399384
129	Contemporary Trade Directory Entries Name: David Audley Ltd Location: Manchester Abattoir, Riverpark Rd, Manchester, M40 2XT Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9NW (SE)	677	-	387369 399384

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	Contemporary Trade Directory Entries Name: Uk Basements Ltd Location: 24, Kerswell Walk, Manchester, Lancashire, M40 2AH Classification: Damp & Dry Rot Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	747	-	387437 400501
131	Contemporary Trade Directory Entries Name: Sinter Studio Location: One Central Park, Northampton Rd, Manchester, Lancashire, M40 5BP Classification: Tile Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A18NW (N)	774	-	386779 400750
132	Contemporary Trade Directory Entries Name: R Mobile Mechanic Location: 19, Lifton Avenue, Manchester, M40 8DD Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	793	-	386029 399713
133	Contemporary Trade Directory Entries Name: Van Parts Ltd Location: Thorp Mill, Thorp Rd, Manchester, Lancashire, M40 5BL Classification: PVC-U Products - Manufacturers & Suppliers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A19NW (NE)	801	-	387224 400716
133	Contemporary Trade Directory Entries Name: Orion Upholstery Location: Thorp Rd, Manchester, Lancashire, M40 5BJ Classification: Upholstery Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A19NW (NE)	807	-	387216 400726
134	Contemporary Trade Directory Entries Name: F Dunn & Sons Location: 222, Bradford Road, Manchester, M40 7BT Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A7SE (SW)	806	-	386447 399153
135	Contemporary Trade Directory Entries Name: Specialised Transmission Services Location: Unit 1 Worrall St, Newton Heath, Manchester, M40 2ED Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A19NW (NE)	808	-	387416 400604
136	Contemporary Trade Directory Entries Name: Degussa Ltd Location: Manox House, Coleshill Street, MANCHESTER, M40 7AA Classification: Chemicals & Allied Products Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	810	-	386181 399375
137	Contemporary Trade Directory Entries Name: Furnitrix Location: Unit 4, Dale House, Vickers Street, Manchester, M40 8EF Classification: Furniture Manufacturers - Home & Office Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	812	-	386097 399495
137	Contemporary Trade Directory Entries Name: Evans Print Ltd Location: Unit 1, Dale House, Vickers Street, Manchester, M40 8EF Classification: T-Shirts Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	812	-	386097 399495
137	Contemporary Trade Directory Entries Name: Bitz & Pieces Location: Unit 24, Dale House, Vickers Street, Manchester, M40 8EF Classification: Textile Manufacturing Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	812	-	386097 399495
137	Contemporary Trade Directory Entries Name: G H Plastics Ltd Location: Unit 8, Vickers Street, Manchester, M40 8EF Classification: Polythene & Plastic Sheeting Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	812	-	386097 399495

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
137	Contemporary Trade Directory Entries Name: W T Matthews Location: Unit 3, Dale House, Vickers Street, Manchester, M40 8EF Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	812	-	386097 399495
137	Contemporary Trade Directory Entries Name: S & A Motors Location: Unit 5, Dale House, Vickers Street, Manchester, M40 8EF Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	812	-	386097 399495
137	Contemporary Trade Directory Entries Name: S A S Recovery Location: Unit 2, Dale House, Vickers Street, Manchester, M40 8EF Classification: Car Breakdown & Recovery Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	812	-	386097 399495
138	Contemporary Trade Directory Entries Name: Sheridan Knitwear Location: Ground Floor, 371, Oldham Road, Manchester, M40 8EA Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	821	-	385977 399882
139	Contemporary Trade Directory Entries Name: Mrs Mops Location: 17, Elstree Avenue, Manchester, M40 2UL Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	873	-	387819 399865
140	Contemporary Trade Directory Entries Name: A 2 Z Freight Services Location: Unit 77, Cariocca Business Pk, Sawley Rd, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Freight Forwarders Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A7NW (SW)	930	-	385983 399458
140	Contemporary Trade Directory Entries Name: Oilpro Uk Ltd Location: Unit 105, Cariocca Business Pk, Sawley Rd, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Garage Equipment Status: Active Positional Accuracy: Manually positioned to the address or location	A7NW (SW)	933	-	385981 399456
140	Contemporary Trade Directory Entries Name: N S Medical Systems Location: Unit 96, Cariocca Business Pk, Sawley Rd, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Medical Equipment Maintenance & Repairs Status: Active Positional Accuracy: Manually positioned within the geographical locality	A7NW (SW)	936	-	385979 399452
140	Contemporary Trade Directory Entries Name: G S F Contract Cleaning Location: Unit 4, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	936	-	385979 399452
140	Contemporary Trade Directory Entries Name: Regional Electricity Advisory Centre Location: Unit 53, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Electricity Companies Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	936	-	385979 399452
140	Contemporary Trade Directory Entries Name: Global Electrical & Communications Ltd Location: Unit 45, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Telecommunications Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	936	-	385979 399452

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
140	Contemporary Trade Directory Entries Name: Model System Solutions Location: Cariocca Business Pk, Sawley Rd, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Engineering Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A7NW (SW)	936	-	385979 399452
140	Contemporary Trade Directory Entries Name: C E N Botteling Co Ltd Location: Unit 65, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Soft Drinks - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	936	-	385979 399452
140	Contemporary Trade Directory Entries Name: Classic Knitwear Ltd Location: Unit 31, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Knitwear Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A7NW (SW)	936	-	385979 399452
140	Contemporary Trade Directory Entries Name: Vianlee Ltd Location: Unit 29, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	936	-	385979 399452
140	Contemporary Trade Directory Entries Name: Apple Enterprise International Location: Unit 71, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	936	-	385979 399452
140	Contemporary Trade Directory Entries Name: Smart Puls Location: Unit 39, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	936	-	385979 399452
140	Contemporary Trade Directory Entries Name: D S M Enterprise Location: Unit 28, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	936	-	385979 399452
140	Contemporary Trade Directory Entries Name: Ultrade Location: Unit 39, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Electrolysis Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	936	-	385979 399452
140	Contemporary Trade Directory Entries Name: Jk Cars Location: Unit 34, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the address or location	A7NW (SW)	936	-	385979 399452
140	Contemporary Trade Directory Entries Name: Flirtatious Lingerie Location: Cariocca Business Pk, Sawley Rd, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Lingerie & Hosiery Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A7NW (SW)	936	-	385979 399452

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
140	Contemporary Trade Directory Entries Name: Klyvinn Location: Unit 59, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	936	-	385979 399452
140	Contemporary Trade Directory Entries Name: Bioeurope Location: Unit 64, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Pharmaceutical Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	936	-	385979 399452
141	Contemporary Trade Directory Entries Name: Prescotts Transport Location: Briscoe Lane, Manchester, M40 2TX Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A14NE (E)	952	-	387879 400111
142	Contemporary Trade Directory Entries Name: Robin Mills Location: Amalex House, 182 Bradford Rd, Manchester, M40 7BE Classification: Textile Manufacturing Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A7SE (SW)	956	-	386294 399071
143	Contemporary Trade Directory Entries Name: Karpelle Ltd Location: Unit 1, Varley Business Centre, James Street, Manchester, M40 8EL Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	964	-	385986 399387
144	Fuel Station Entries Name: Shell Oldham Road Location: 571, Oldham Road, Manchester, M40 5AF Brand: Shell Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A12NE (NW)	386	-	386495 400145



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
145	Areas of Adopted Green Belt Authority: Manchester City Council Plan Name: Proposals Map Status: Adopted Plan Date: 11th July 2012	A9NE (E)	935	8	387806 399545
146	Local Nature Reserves Name: Clayton Vale Multiple Area: N Area (m ²): 525664.64 Source: Natural England Designation Date: 26th July 2006	A9NE (SE)	941	9	387793 399502
147	Nitrate Vulnerable Zones Name: Not Supplied Description: NVZ Area Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A18SW (NW)	555	10	386550 400419
148	Nitrate Vulnerable Zones Name: Not Supplied Description: NVZ Area Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A12NW (W)	852	10	385951 400000

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

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

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - North West Region - South Area	July 2013	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - South Area	July 2013	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - South Area	April 2013	Quarterly
Local Authority Landfill Coverage 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
Local Authority Recorded Landfill Sites 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
Registered Landfill Sites Environment Agency - North West Region - South Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - South Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - South Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	March 2013	Bi-Annually
Explosive Sites Health and Safety Executive	March 2013	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements 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
Planning Hazardous Substance Consents 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



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

Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt		
Bury Metropolitan Borough Council	August 2013	As notified
Manchester City Council	August 2013	As notified
Oldham Metropolitan Borough Council	August 2013	As notified
Rochdale Metropolitan Borough Council	August 2013	As notified
Salford City Council	August 2013	As notified
Stockport Metropolitan Borough Council	August 2013	As notified
Tameside Metropolitan Borough Council	August 2013	As notified
Trafford Metropolitan Borough Council	August 2013	As notified
Areas of Unadopted Green Belt		
Bury Metropolitan Borough Council	August 2013	As notified
Manchester City Council	August 2013	As notified
Oldham Metropolitan Borough Council	August 2013	As notified
Rochdale Metropolitan Borough Council	August 2013	As notified
Salford City Council	August 2013	As notified
Stockport Metropolitan Borough Council	August 2013	As notified
Tameside Metropolitan Borough Council	August 2013	As notified
Trafford Metropolitan Borough Council	August 2013	As notified
Areas of Outstanding Natural Beauty		
Natural England	July 2013	Bi-Annually
Environmentally Sensitive Areas		
Natural England	July 2013	Annually
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	July 2013	Bi-Annually
Marine Nature Reserves		
Natural England	July 2013	Bi-Annually
National Nature Reserves		
Natural England	July 2013	Bi-Annually
National Parks		
Natural England	July 2013	Bi-Annually
Nitrate Sensitive Areas		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2013	Annually
Ramsar Sites		
Natural England	July 2013	Bi-Annually
Sites of Special Scientific Interest		
Natural England	July 2013	Bi-Annually
Special Areas of Conservation		
Natural England	July 2013	Bi-Annually
Special Protection Areas		
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	 Licensed Partner
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	THE COAL AUTHORITY
British Geological Survey	 British Geological Survey NATIONAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATIONAL ENVIRONMENT RESEARCH COUNCIL
Countryside Council for Wales	 CYNGOR CEFN GWLAD CYMRU COUNTRYSIDE COUNCIL FOR WALES
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	



Useful Contacts

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

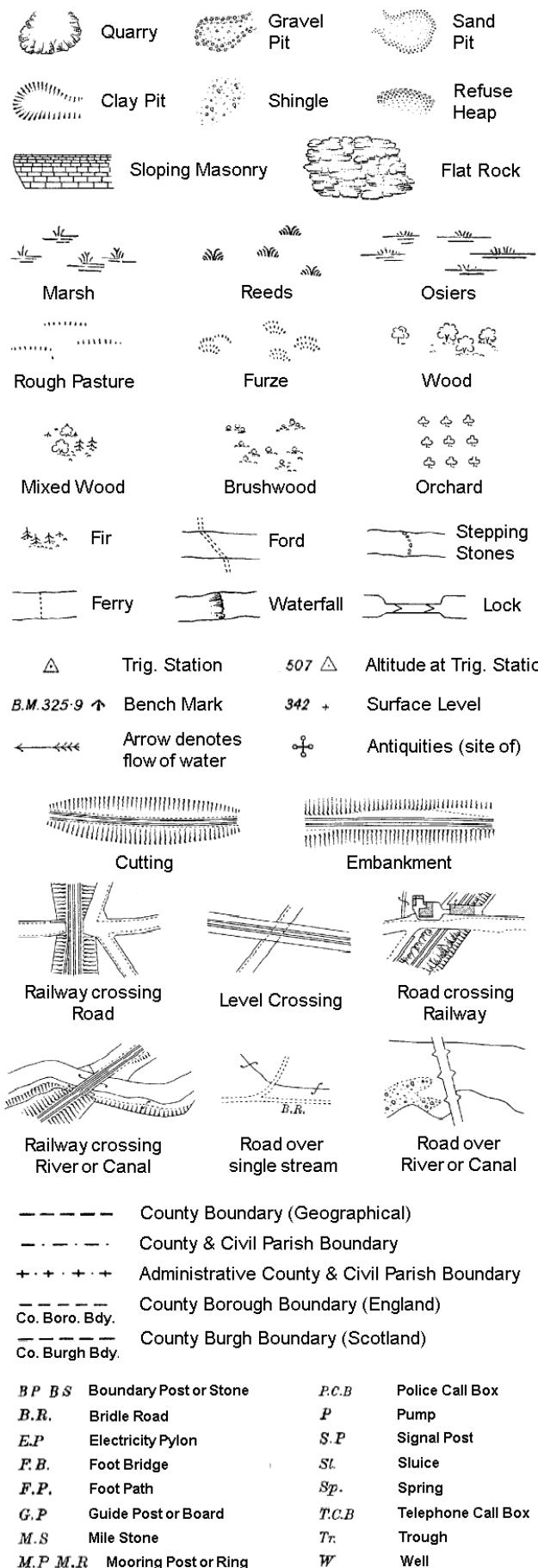
Please note that the Environment Agency / SEPA have a charging policy in place for enquiries.



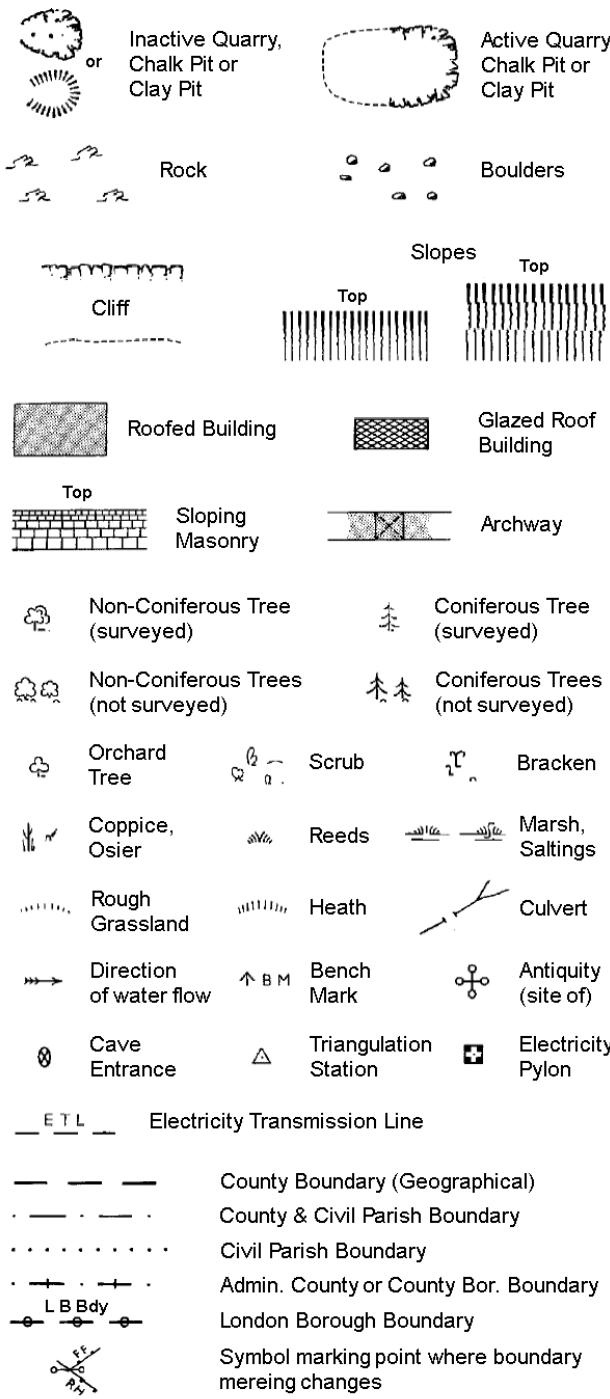
Appendix C – Historical Plans

Historical Mapping Legends

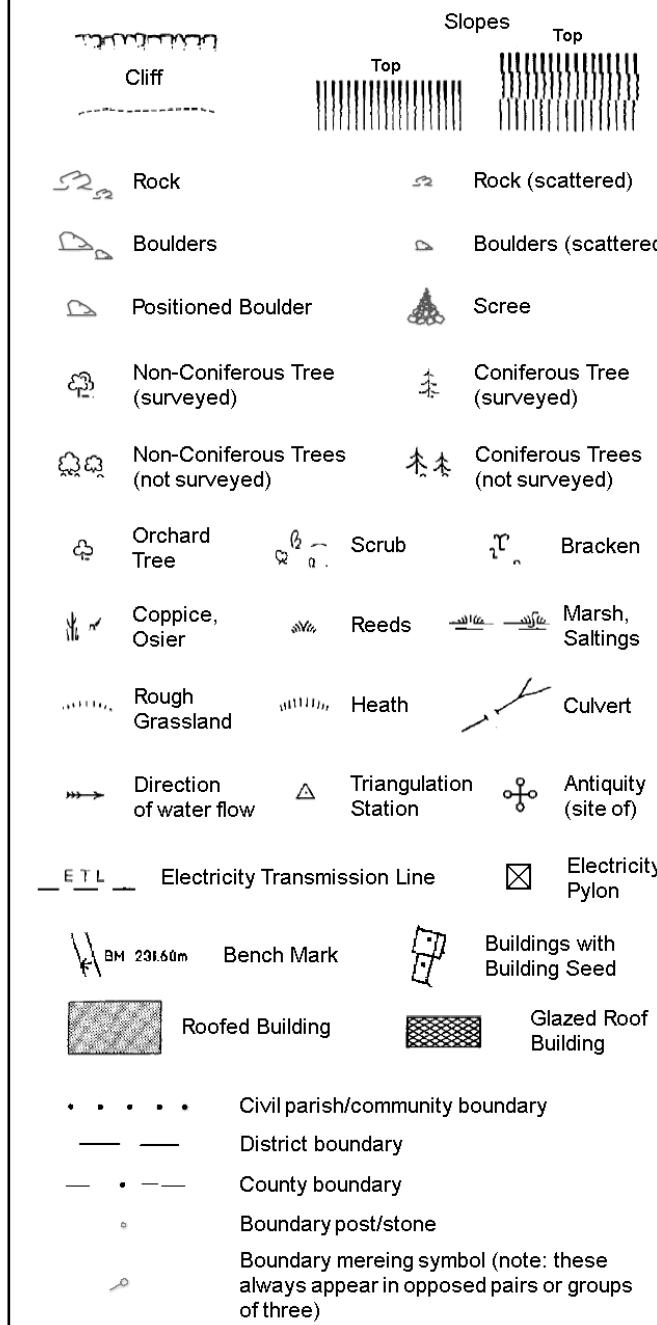
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



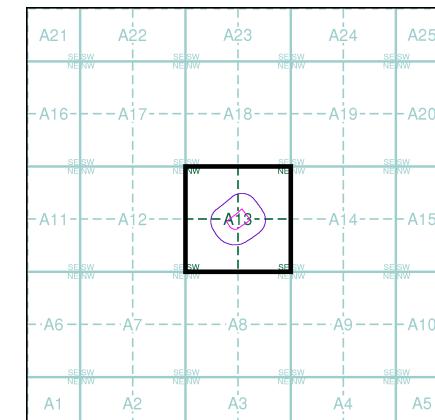
Large-Scale National Grid Data 1:2,500 and 1:1,250



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	1949 - 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	15

Historical Map - Segment A13



Order Details

Order Number: 48457083_1_1
 Customer Ref: A083215 Plot 3
 National Grid Reference: 386870, 399920
 Slice: A
 Site Area (Ha): 1.05
 Search Buffer (m): 100

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester



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



Lancashire And Furness

Published 1893

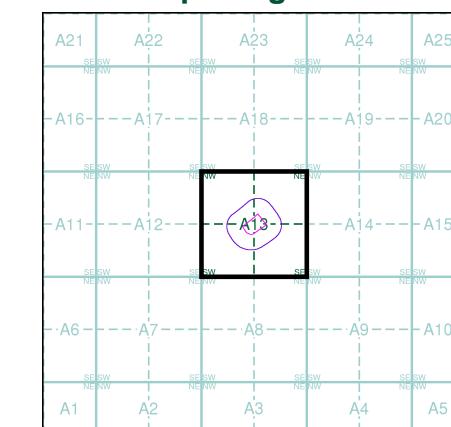
Source map scale - 1:2,500

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

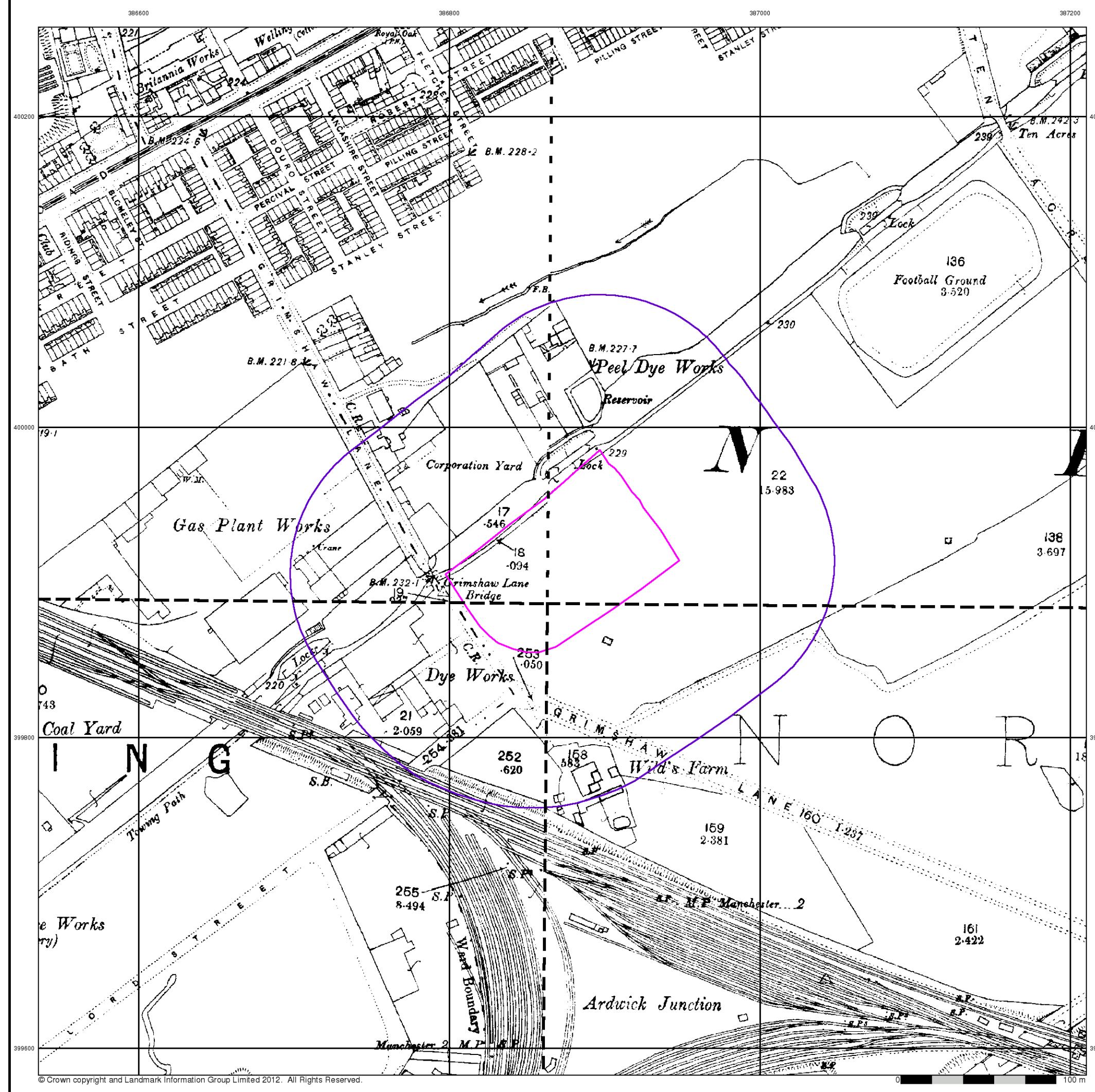


Order Details

Order Number: 48457083_1_1
 Customer Ref: A083215 Plot 3
 National Grid Reference: 386870, 399920
 Slice: A
 Site Area (Ha): 1.05
 Search Buffer (m): 100

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





Lancashire And Furness

Published 1908

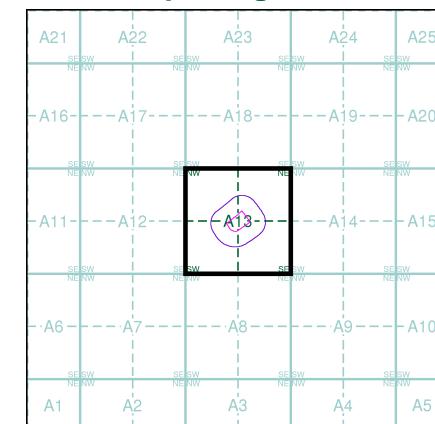
Source map scale - 1:2,500

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

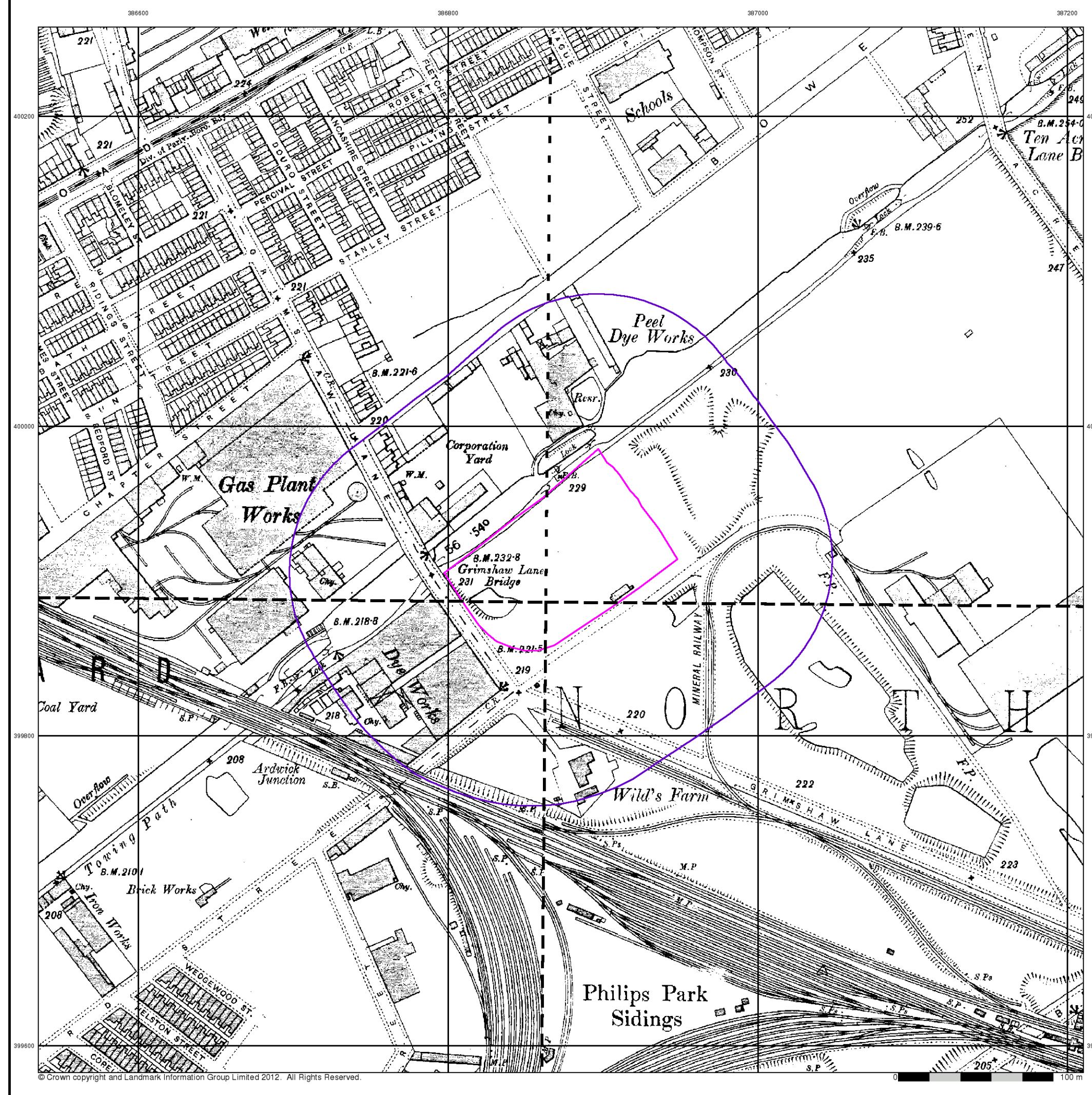


Order Details

Order Number: 48457083_1_1
 Customer Ref: A083215 Plot 3
 National Grid Reference: 386870, 399920
 Slice: A
 Site Area (Ha): 1.05
 Search Buffer (m): 100

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





Lancashire And Furness

Published 1922

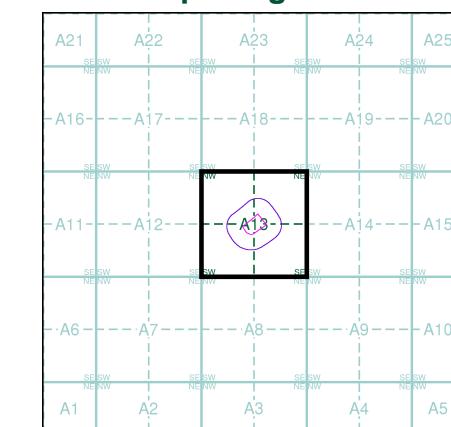
Source map scale - 1:2,500

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

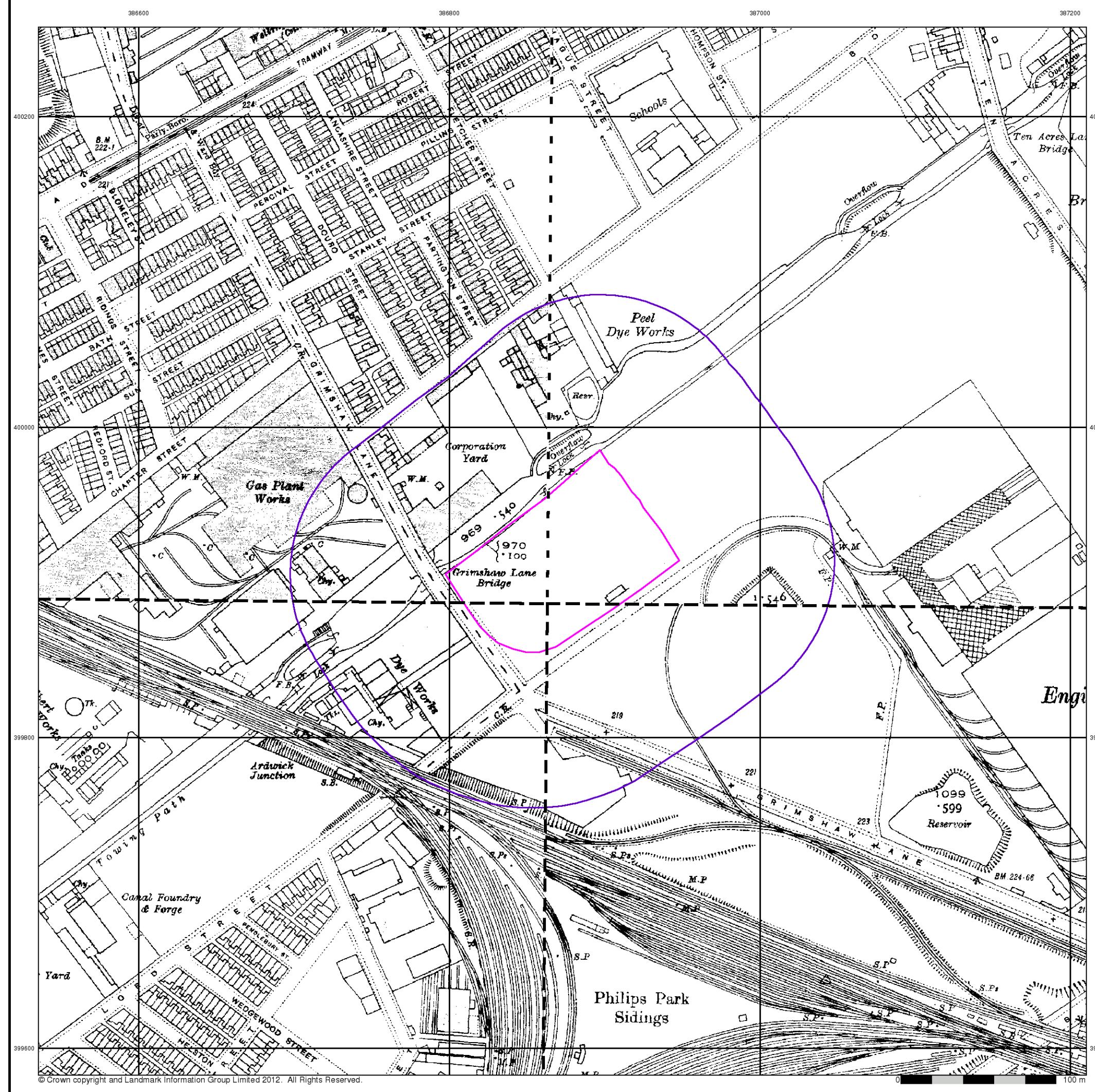


Order Details

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 National Grid Reference: 386870, 399920
 Slice: A
 Site Area (Ha): 1.05
 Search Buffer (m): 100

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





Ordnance Survey Plan

Published 1949 - 1951

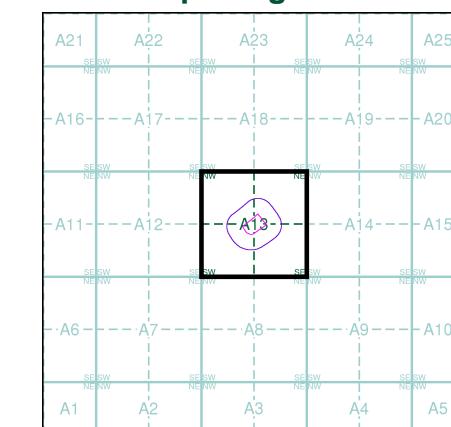
Source map scale - 1:1,250

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)

SD8600SE 1949 1:1,250	SD8700SW 1951 1:1,250
SJ8699NE 1949 1:1,250	SJ8799NW 1949 1:1,250

Historical Map - Segment A13

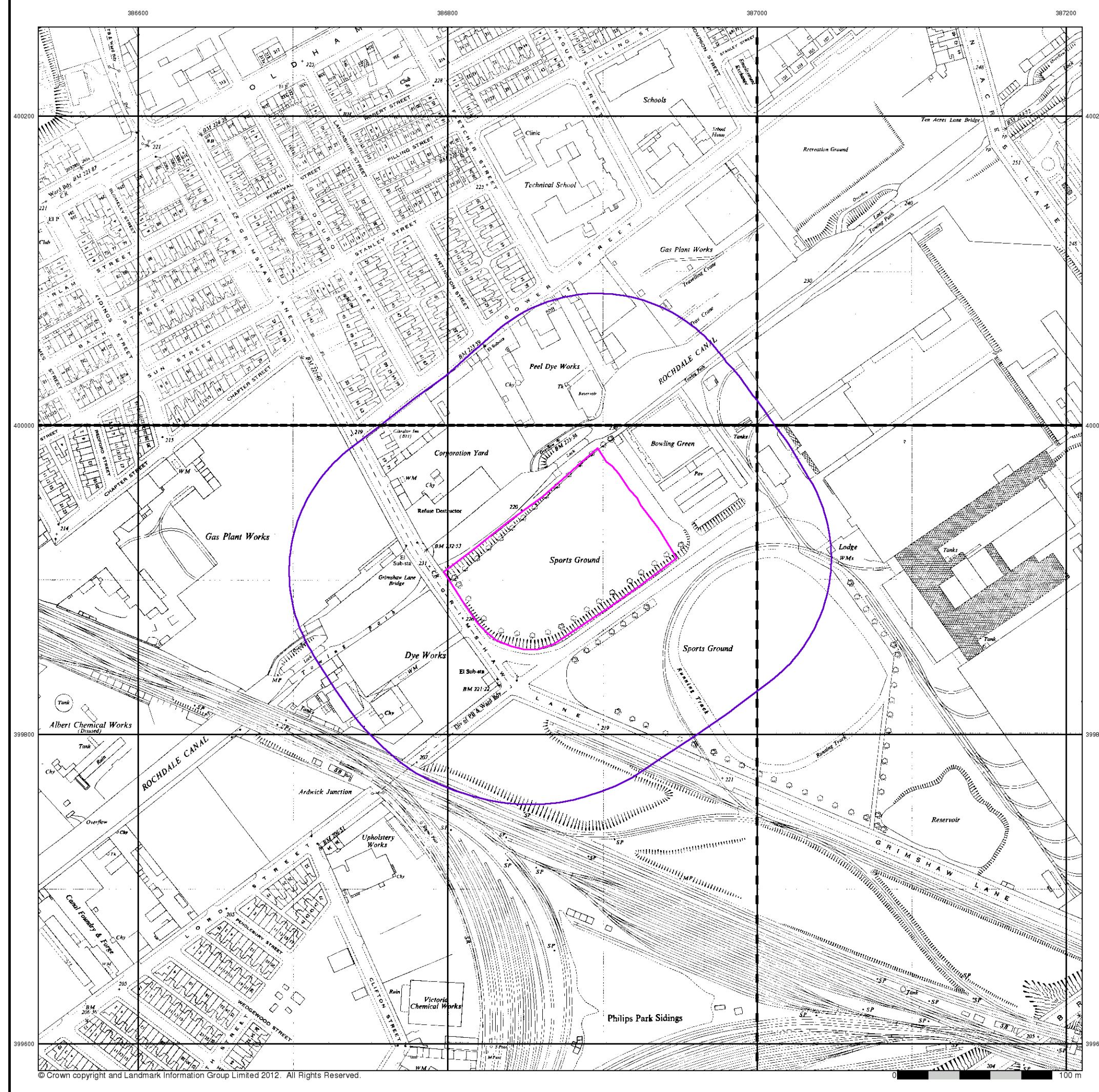


Order Details

Order Number: 48457083_1_1
 Customer Ref: A083215 Plot 3
 National Grid Reference: 386870, 399920
 Slice: A
 Site Area (Ha): 1.05
 Search Buffer (m): 100

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





Ordnance Survey Plan

Published 1951

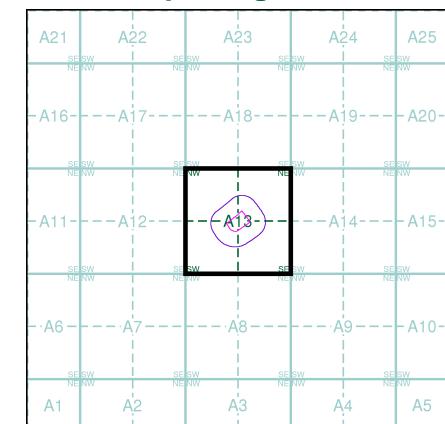
Source map scale - 1:2,500

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
12,500	12,500
SJ8699	SJ8799
1951	1951
12,500	12,500

Historical Map - Segment A13

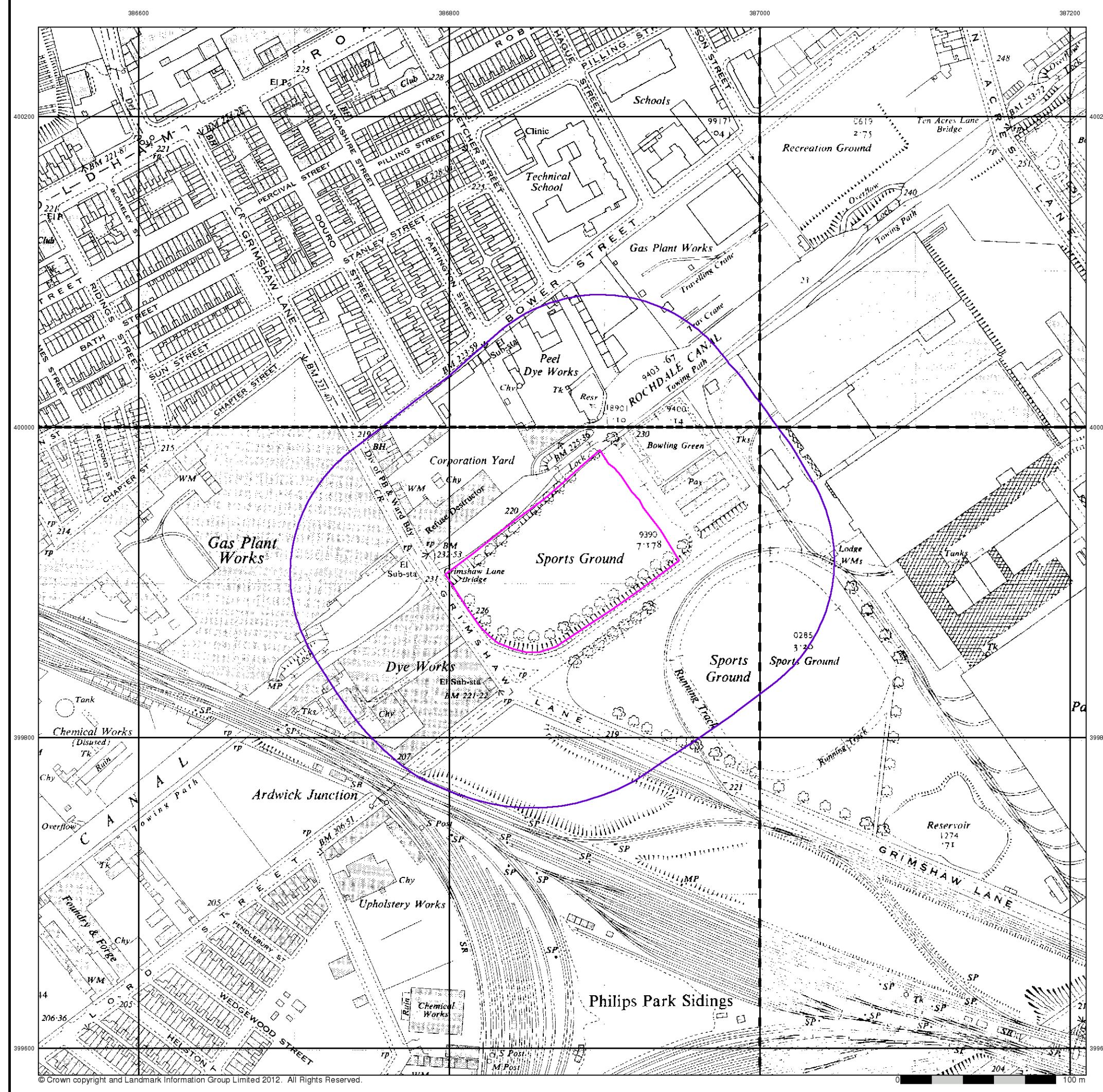


Order Details

Order Number: 48457083_1_1
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 Search Buffer (m): 100

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester



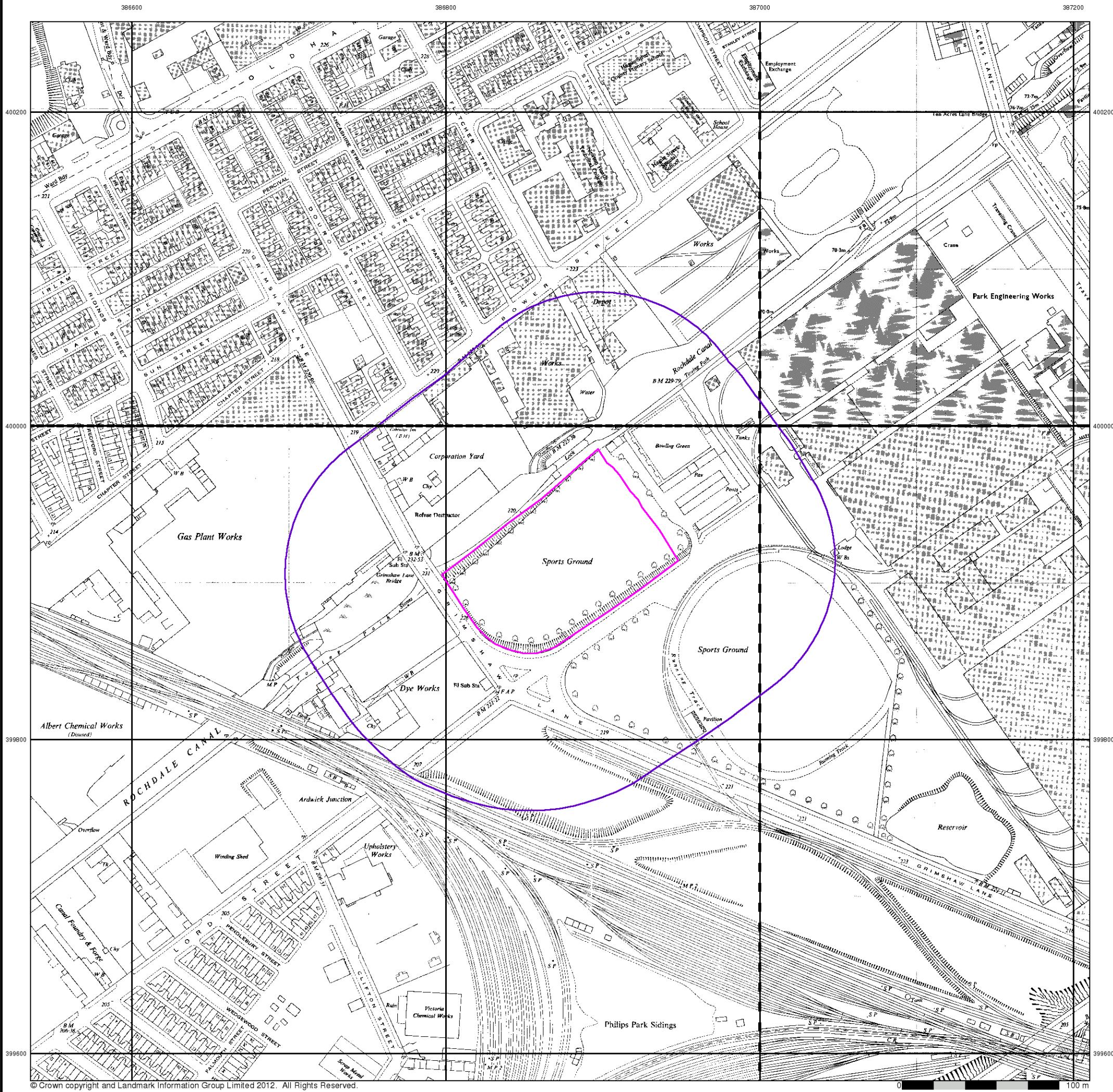


Ordnance Survey Plan

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.





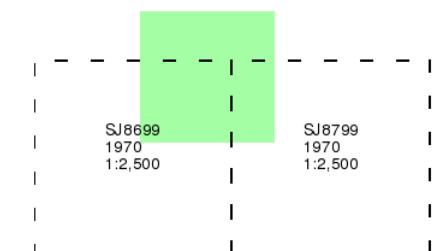
Ordnance Survey Plan

Published 1970

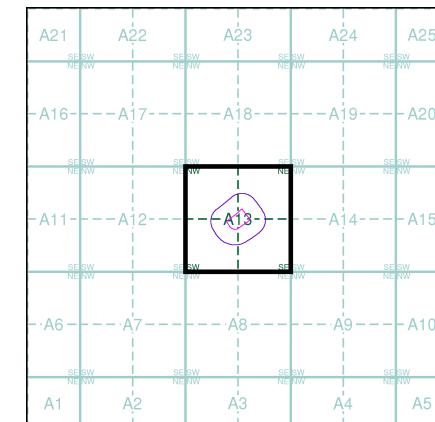
Source map scale - 1:2,500

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

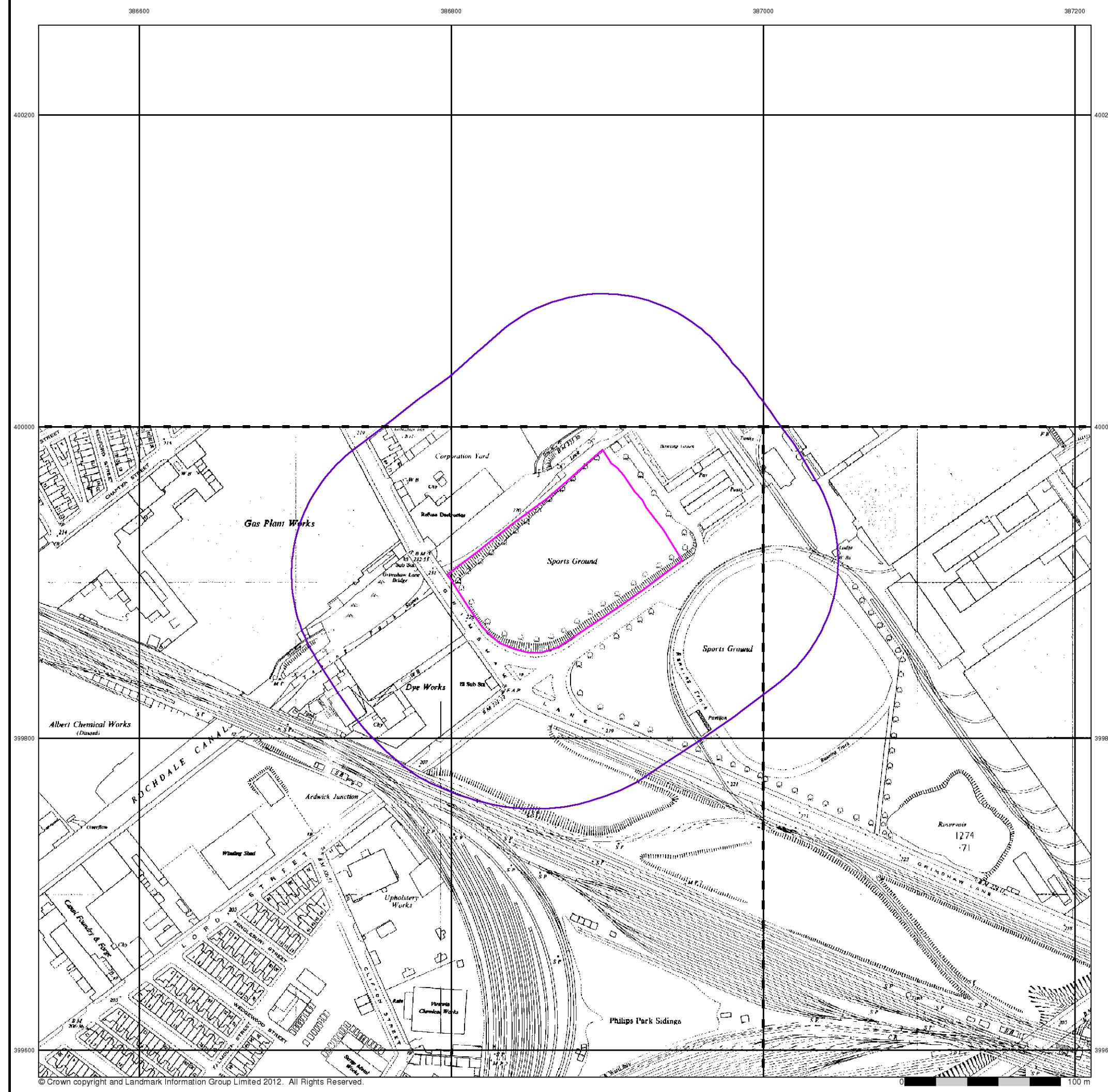


Order Details

Order Number: 48457083_1_1
Customer Ref: A083215 Plot 3
National Grid Reference: 386870, 399920
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





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

A21	A22	A23	A24	A25
A16	A17	A18	A19	A20
A11	A12	A13	A14	A15
A6	A7	A8	A9	A10
A1	A2	A3	A4	A5

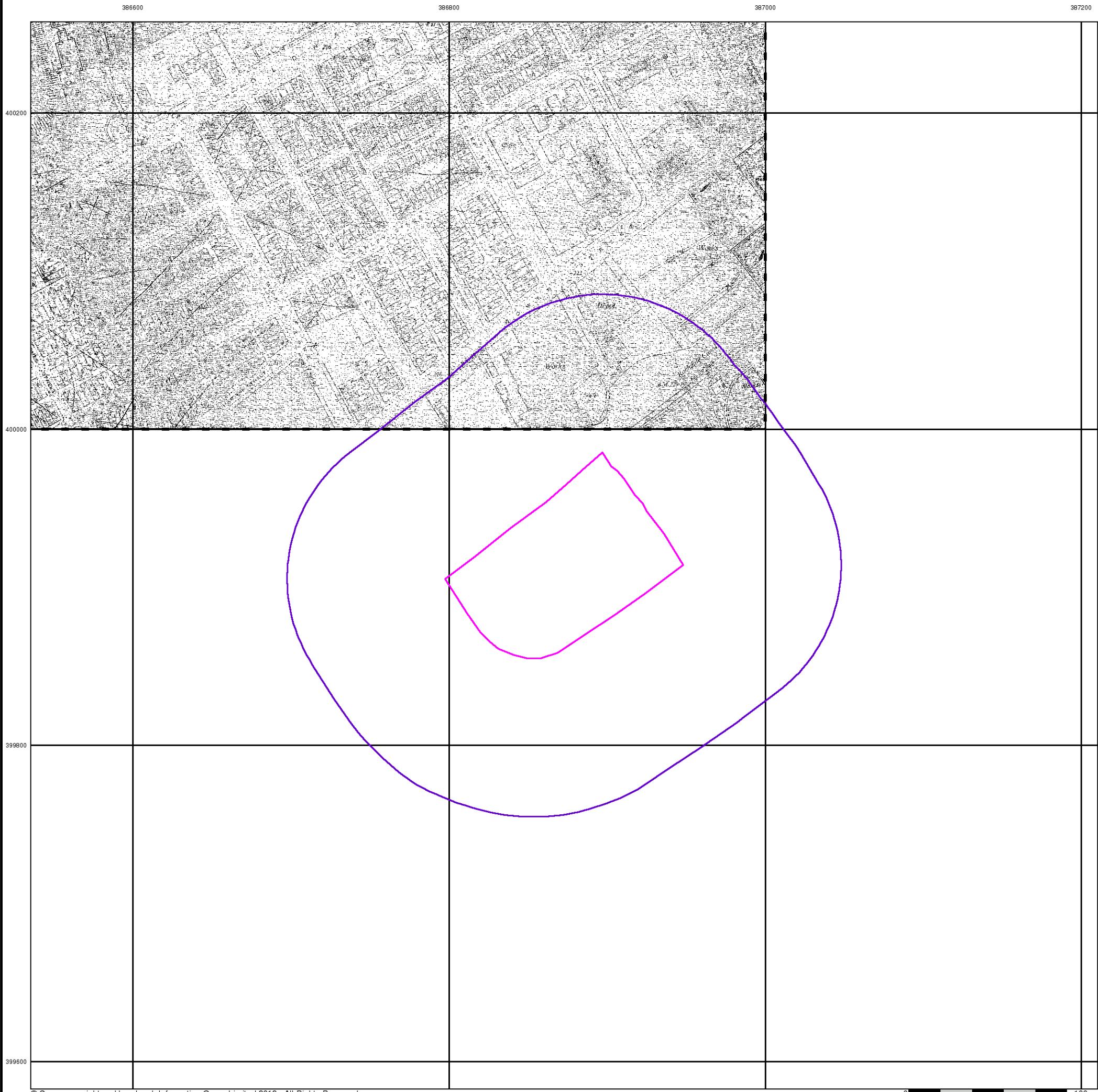


Order Details

Order Number: 48457083_1_1
Customer Ref: A083215 Plot 3
National Grid Reference: 386870, 399920
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





Additional SIMs

Published 1979 - 1991

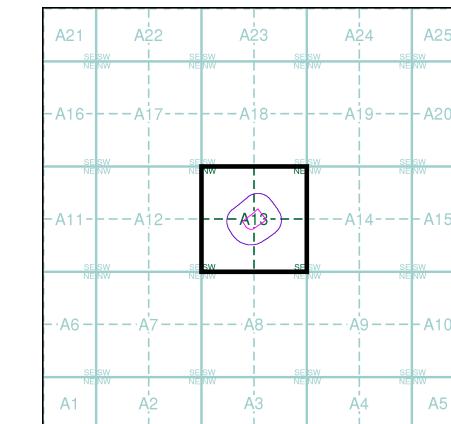
Source map scale - 1:1,250

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

Historical Map - Segment A13

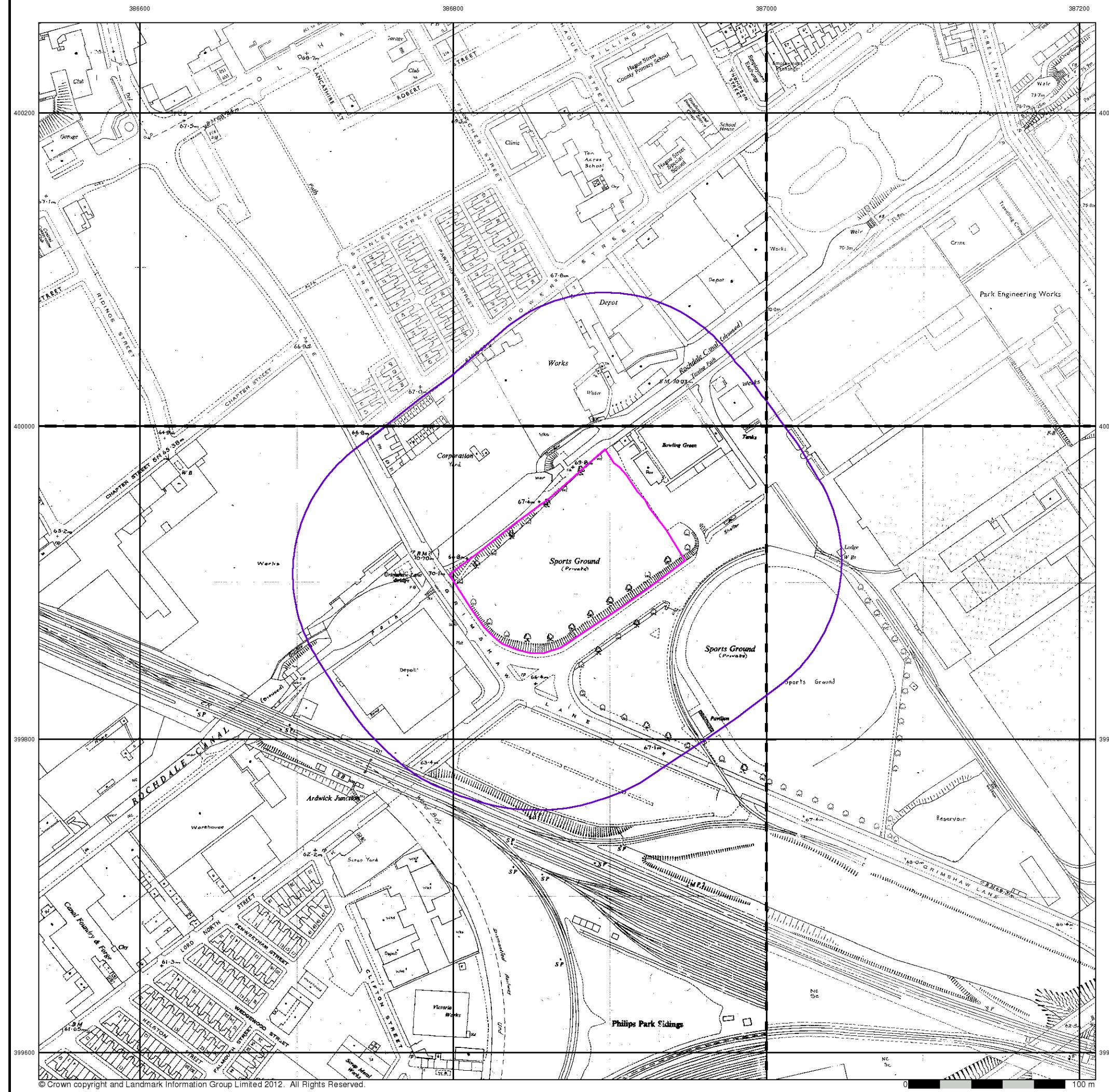


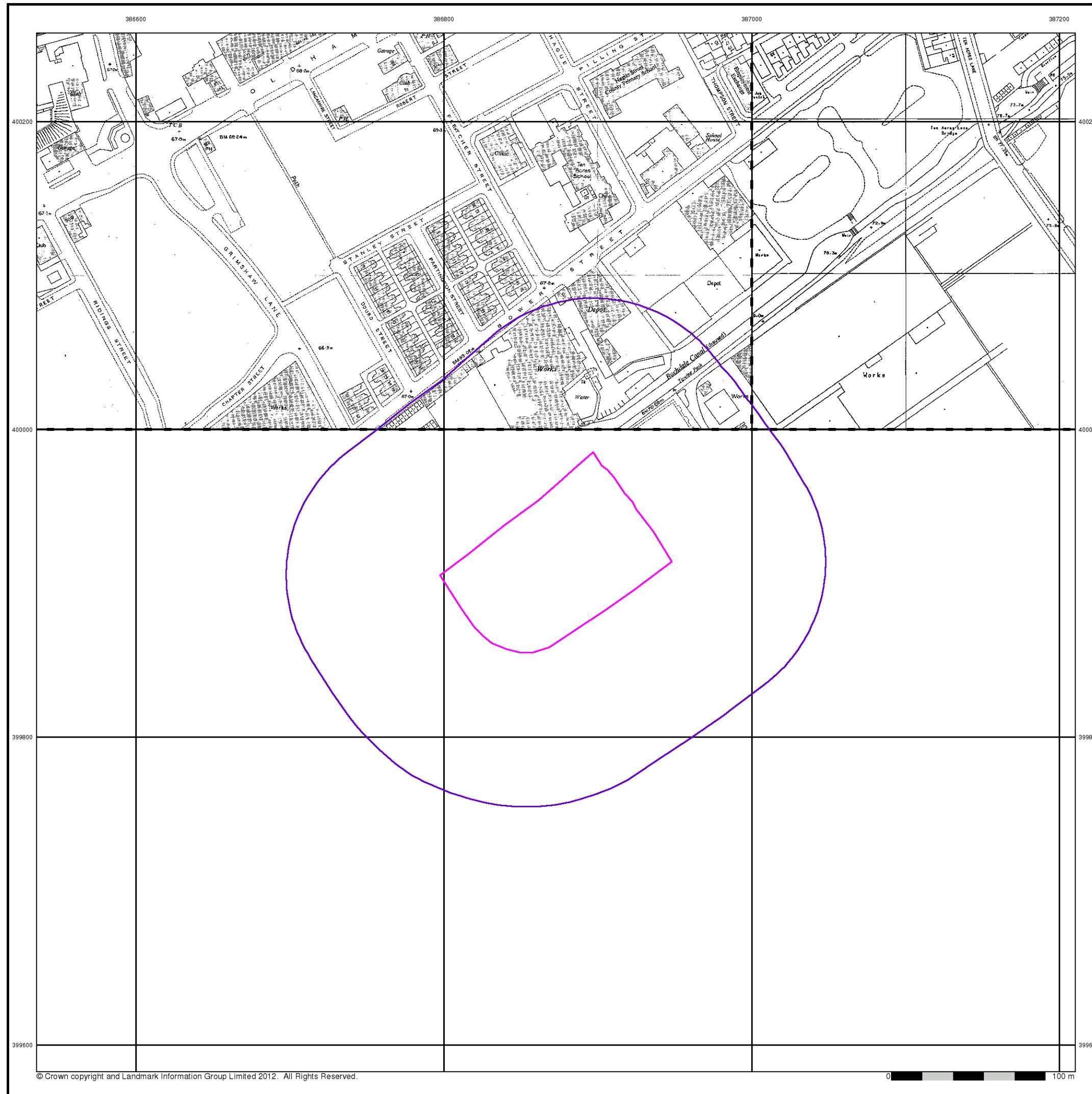
Order Details

Order Number: 48457083_1_1
 Customer Ref: A083215 Plot 3
 National Grid Reference: 386870, 399920
 Slice: A
 Site Area (Ha): 1.05
 Search Buffer (m): 100

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





Additional SIMs

Published 1986 - 1991

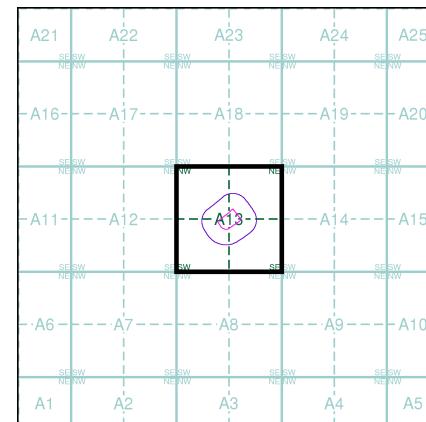
Source map scale - 1:1,250

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 1986 1:1,250	SD8700SW 1991 1:1,250
-----------------------------	-----------------------------

Historical Map - Segment A13



Order Details

Order Number: 48457083_1_1
 Customer Ref: A083215 Plot 3
 National Grid Reference: 386870, 399920
 Slice: A
 Site Area (Ha): 1.05
 Search Buffer (m): 100

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester



Ordnance Survey Plan

Published 1990

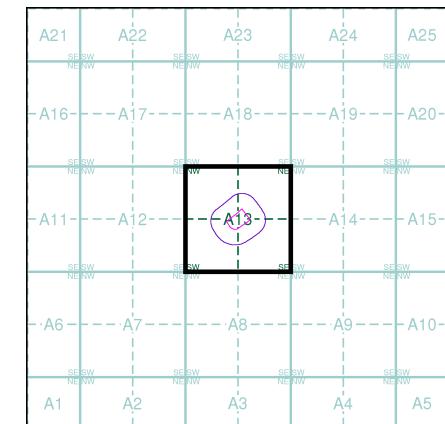
Source map scale - 1:1,250

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



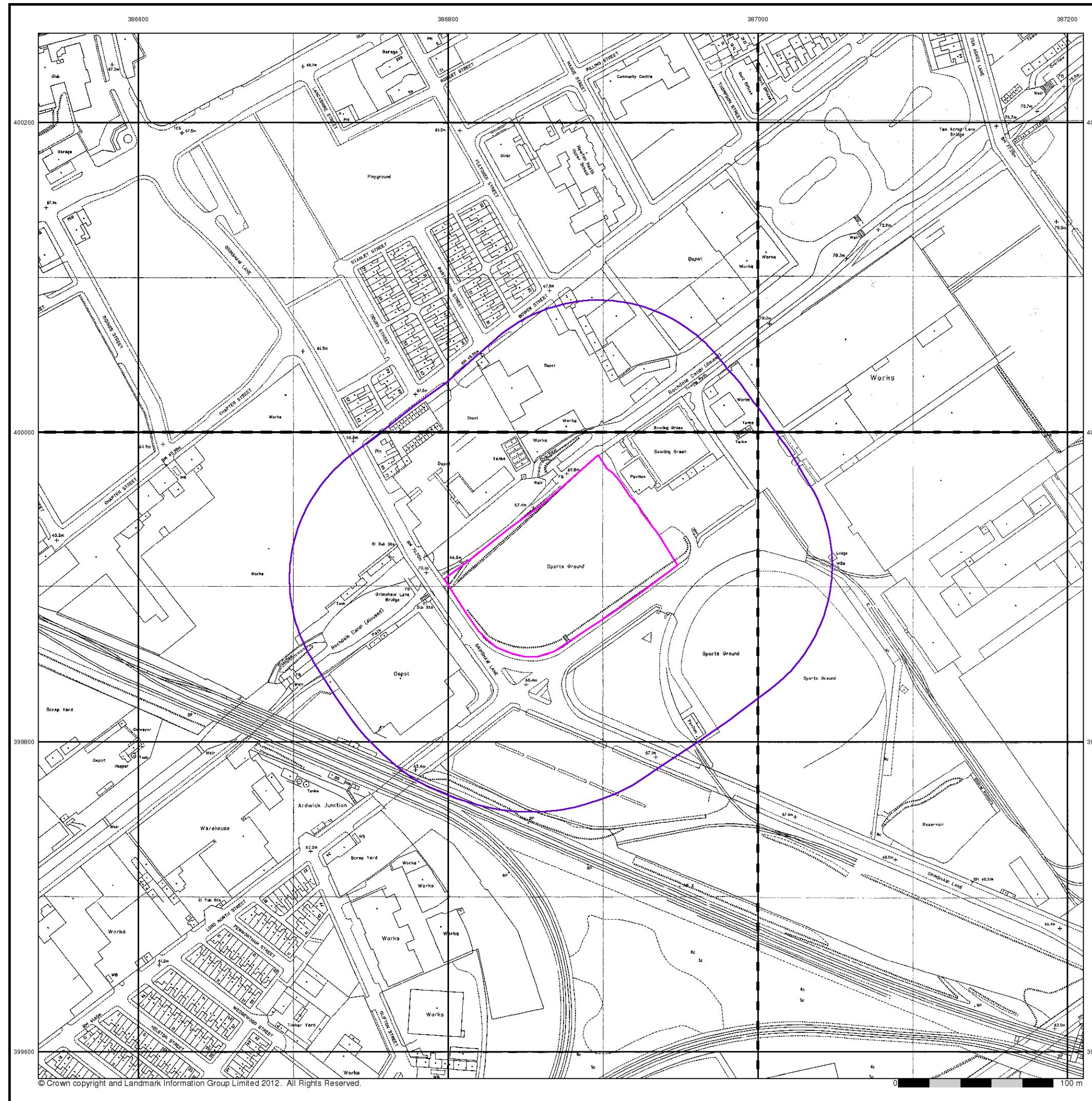
Order Details

Order Number: 48457083_1_1
Customer Ref: A083215 Plot 3
National Grid Reference: 386870, 399920
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





Large-Scale National Grid Data

Published 1992

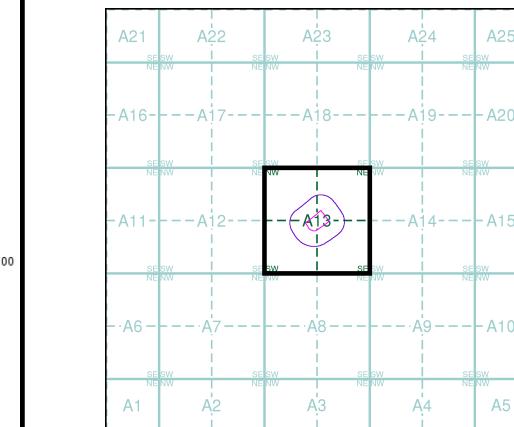
Source map scale - 1:1,250

'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)

SD8600SE	SD8700SW
1992	1992
1:1,250	1:1,250
SJ8699NE	SJ8799NW

Historical Map - Segment A13



Order Details

Order Number: 48457083_1_1
 Customer Ref: A083215 Plot 3
 National Grid Reference: 386870, 399920
 Slice: A
 Site Area (Ha): 1.05
 Search Buffer (m): 100

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester

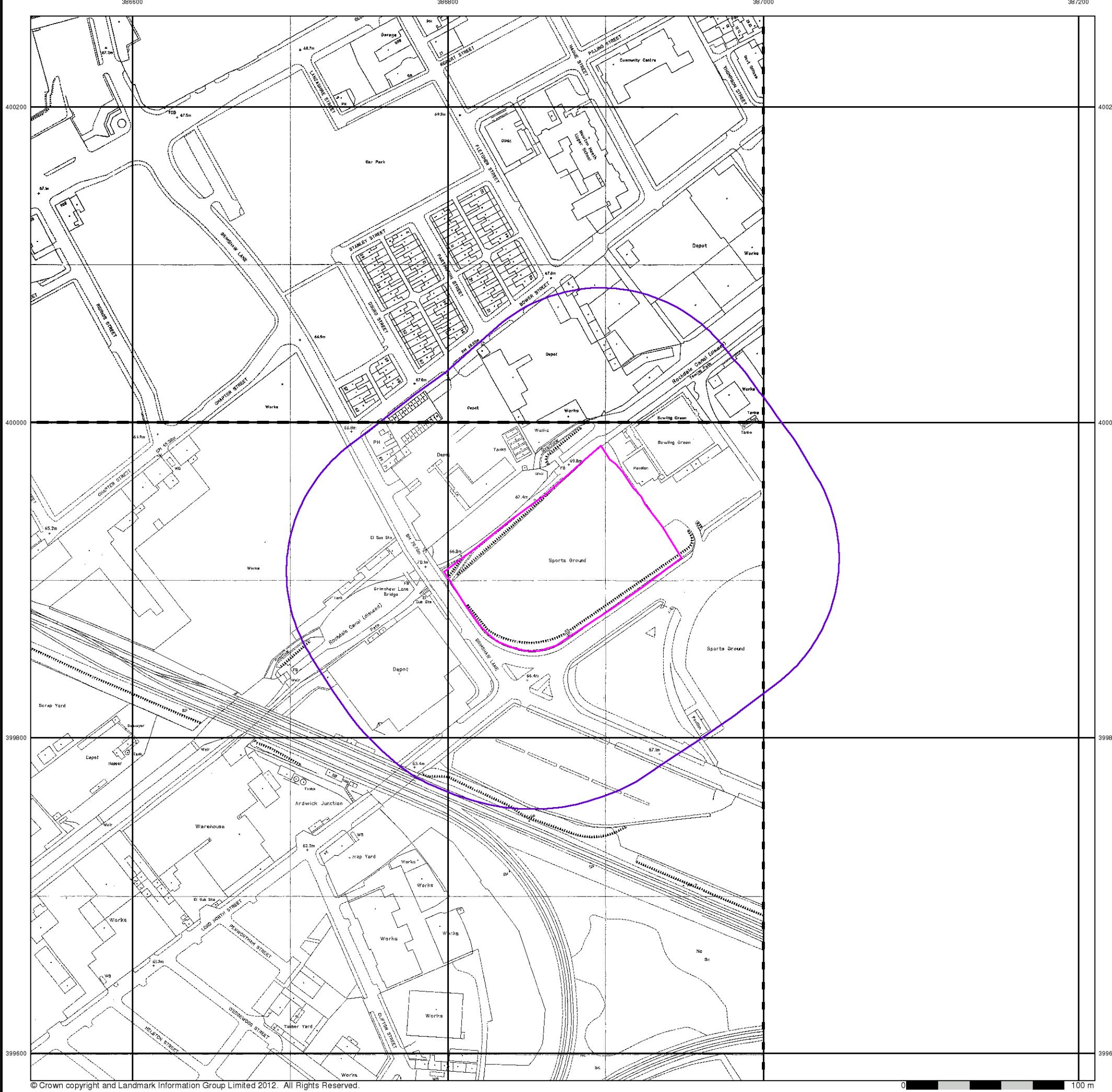


Large-Scale National Grid Data

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.

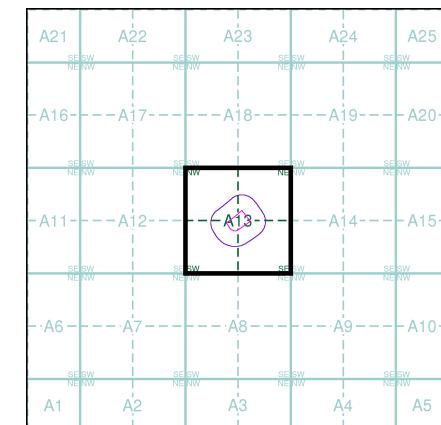


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Map Name(s) and Date(s)

SD8600SE	1993
1:1,250	
SJ8699NE	1995
1:1,250	

Historical Map - Segment A13

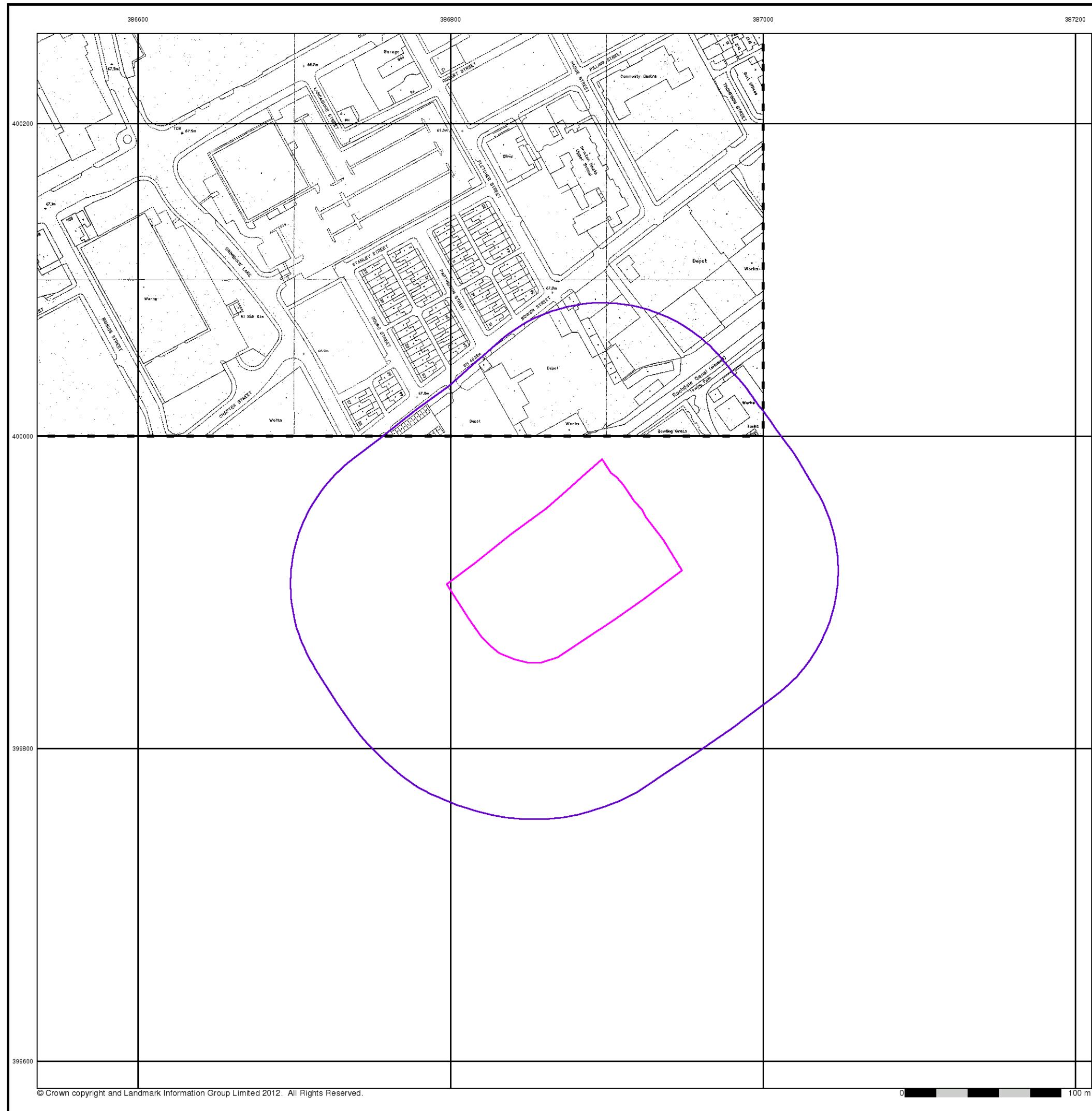


Order Details

Order Number: 48457083_1_1
Customer Ref: A083215 Plot 3
National Grid Reference: 386870, 399920
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester



Large-Scale National Grid Data

Published 1993

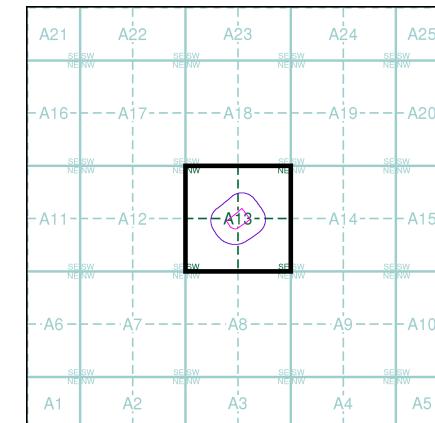
Source map scale - 1:1,250

'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)

SD8600SE
1993
1:1,250

Historical Map - Segment A13



Order Details

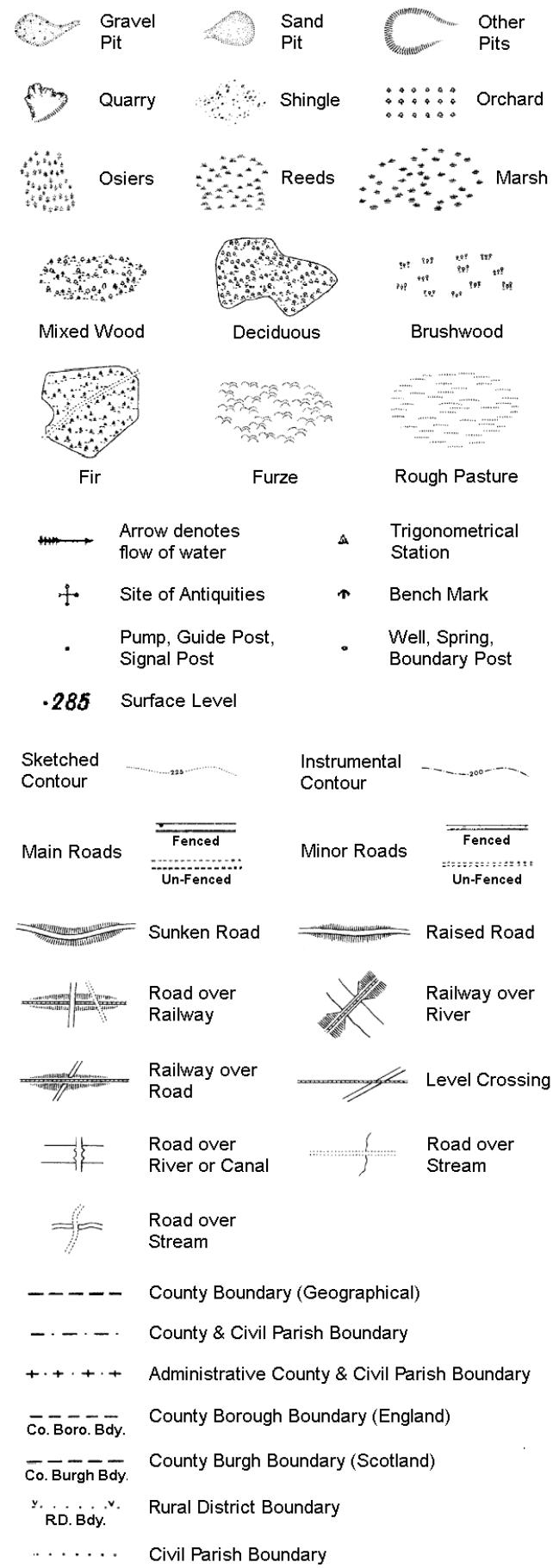
Order Number: 48457083_1_1
Customer Ref: A083215 Plot 3
National Grid Reference: 386870, 399920
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

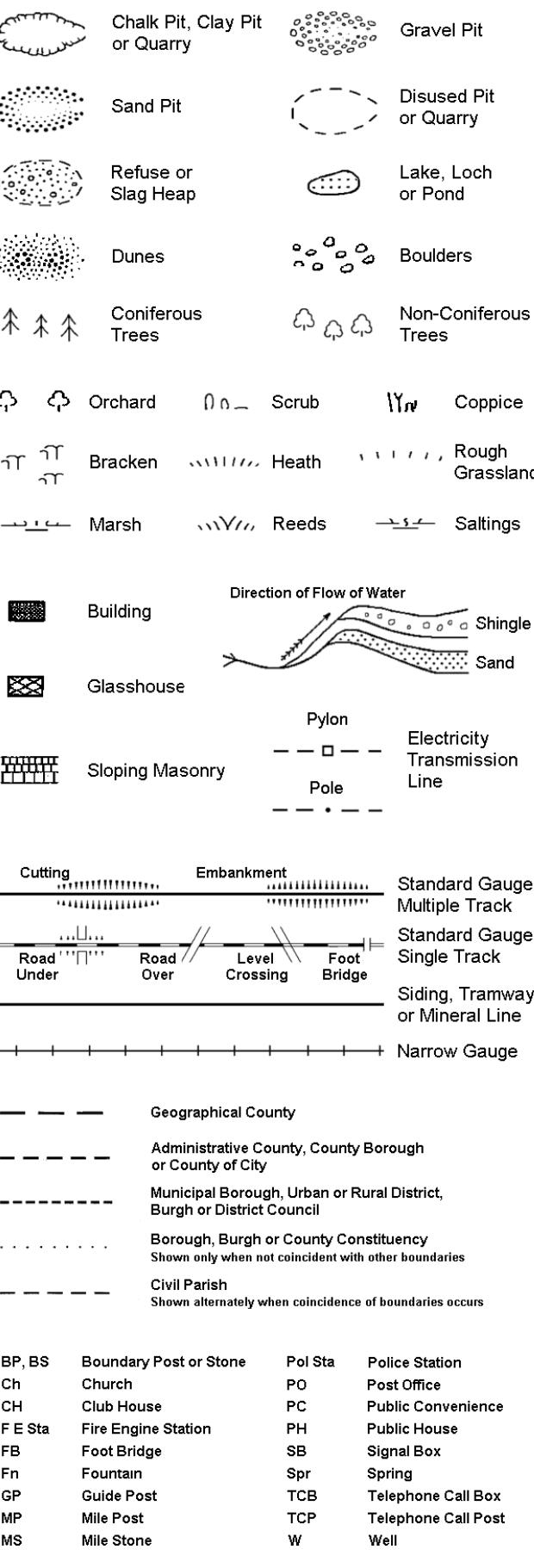
Plot 3, Grimshaw Lane, Newton Heath, Manchester

Historical Mapping Legends

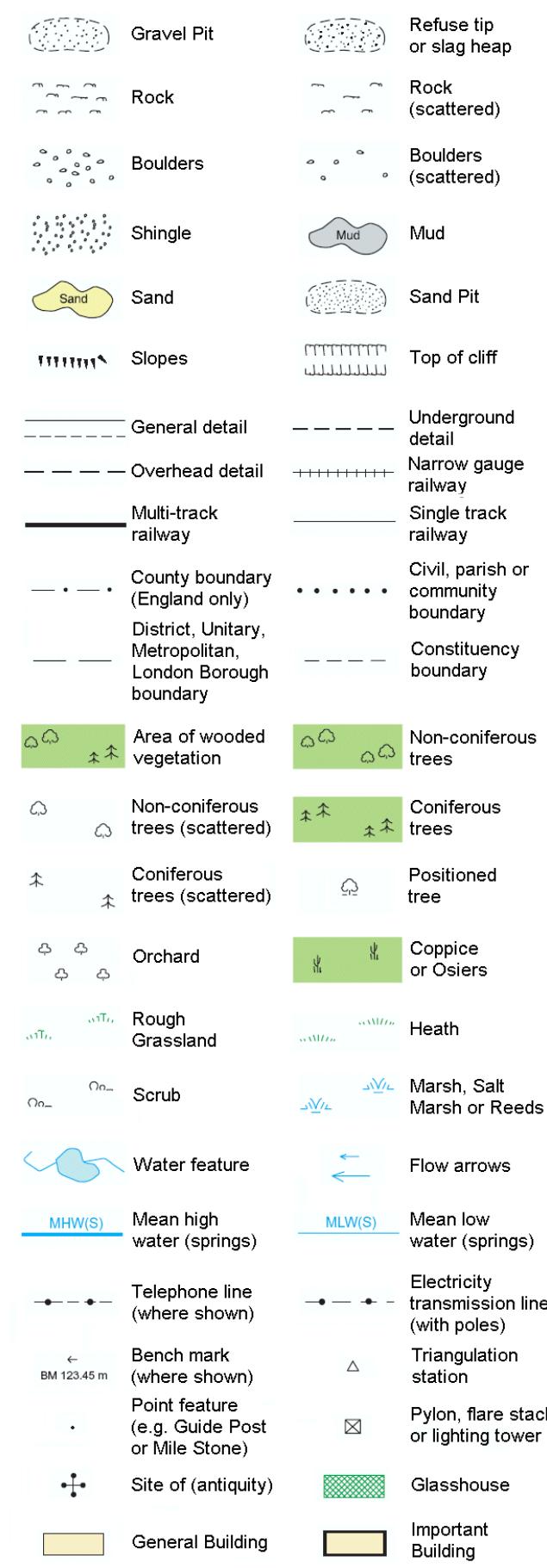
Ordnance Survey County Series 1:10,560



Ordnance Survey Plan 1:10,000



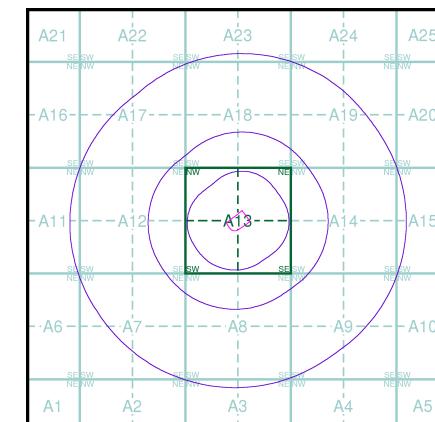
1:10,000 Raster Mapping



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: 48457083_1_1
 Customer Ref: A083215 Plot 3
 National Grid Reference: 386870, 399920
 Slice: A
 Site Area (Ha): 1.05
 Search Buffer (m): 1000

Site Details

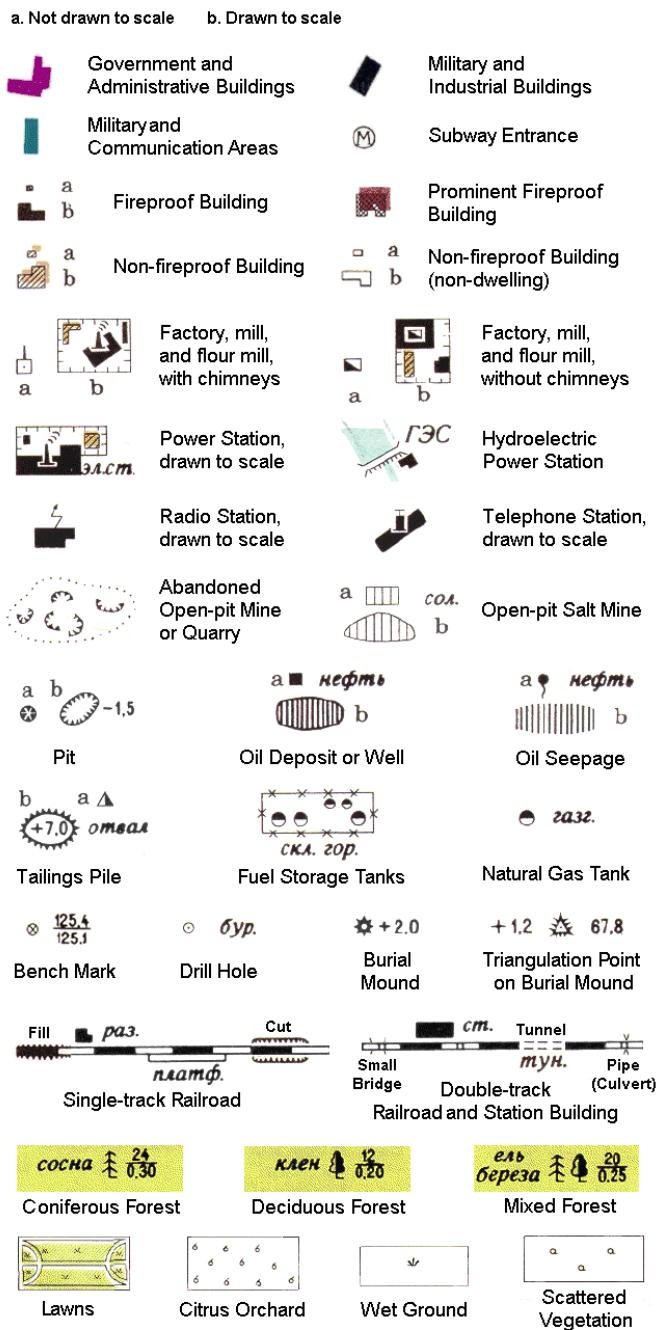
Plot 3, Grimshaw Lane, Newton Heath, Manchester



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

Russian Military Mapping Legends

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



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

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

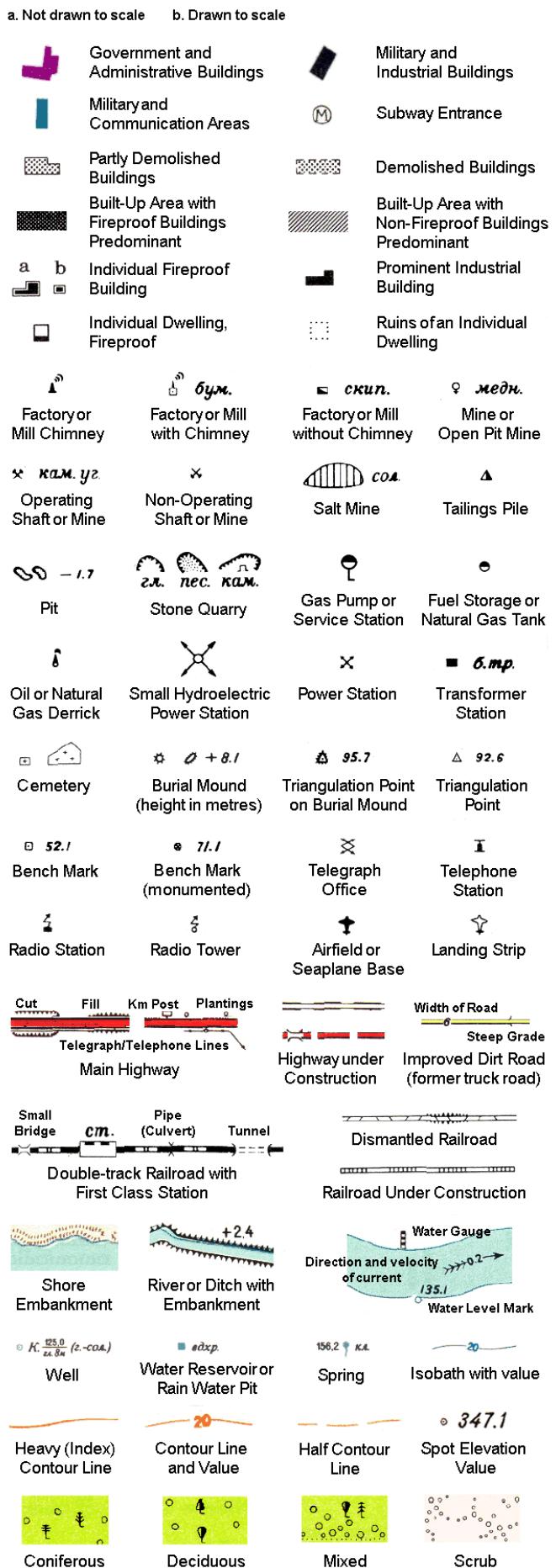
12

the diameter of trees

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

А а (A)	З з (Z)	П п (P)	Ч ч (CH)
Б б (B)	И и (I)	Р р (R)	Ш ш (SH)
В в (V)	Й й (Y)	С с (S)	Щ щ (SHCH)
Г г (G)	К к (K)	Т т (T)	Ђ (D)
Д д (D)	Л л (L)	Ү ү (U)	Ӯ ӯ (E)
Е е (E)	М м (M)	Ӯ ӯ (F)	Ӯ ӯ (E)
Ӯ ӯ (YO)	Н н (N)	Х х (KH)	Ӯ ӯ (YU or IU)
Ӯ ӯ (ZH)	Ӯ ӯ (O)	҆ ҆ (TS)	Ӯ ӯ (YA or IA)

1:25,000 mapping



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

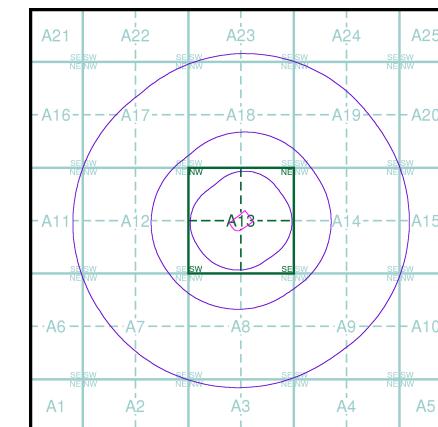
No.	Description
61	Factory (Gas)
64	Factory (Gas)
83	Factory (Machinery)



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: 48457083_1_1
 Customer Ref: A083215 Plot 3
 National Grid Reference: 386870, 399920
 Slice: A
 Site Area (Ha): 1.05
 Search Buffer (m): 1000

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester



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Lancashire And Furness

Published 1848

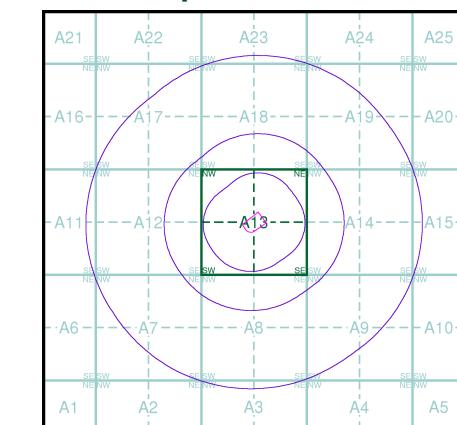
Source map scale - 1:10,560

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)

10400
1848
1:10,560

Historical Map - Slice A

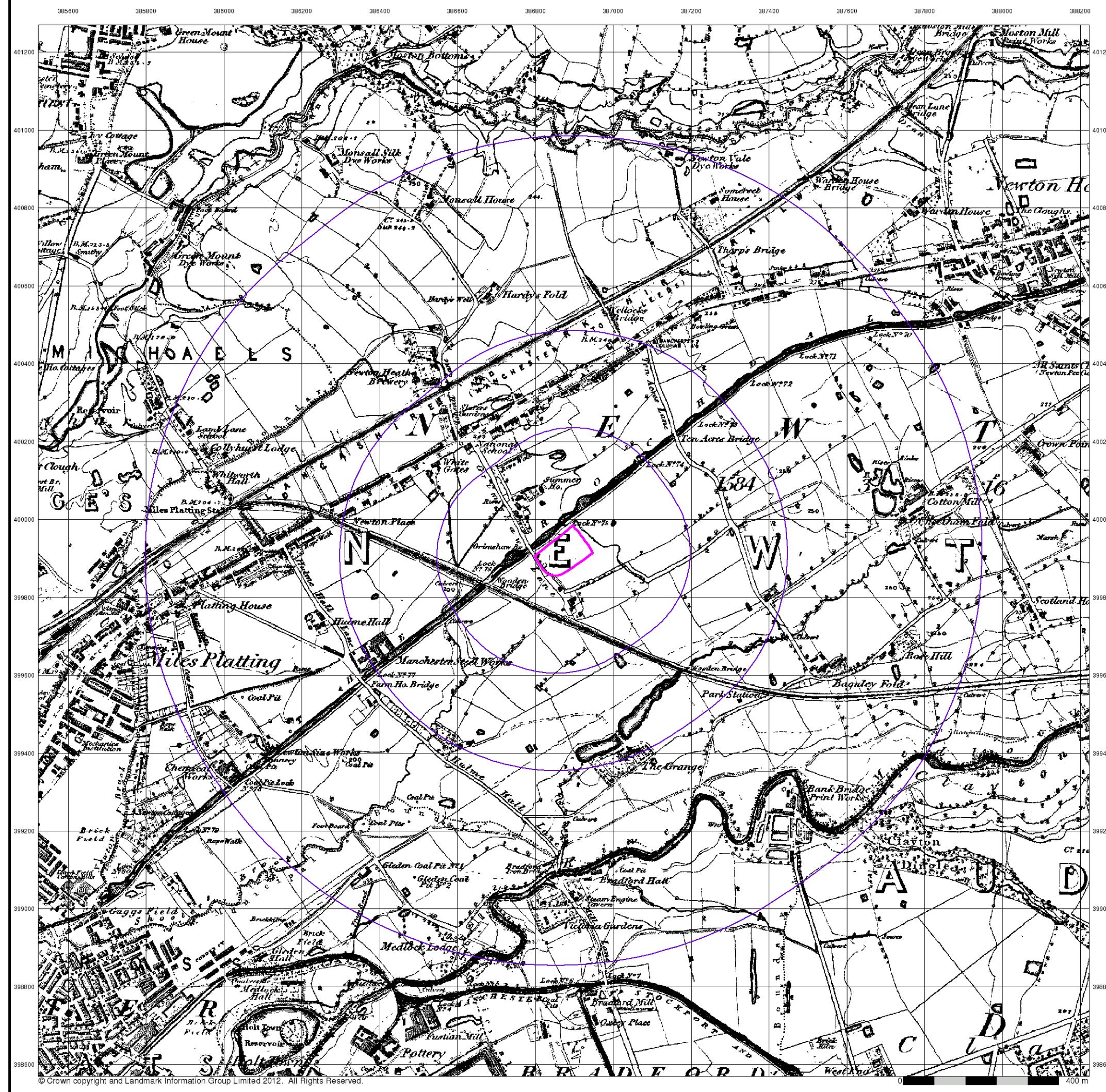


Order Details

Order Number: 48457083_1_1
Customer Ref: A083215 Plot 3
National Grid Reference: 386870, 399920
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





Cheshire

Published 1882

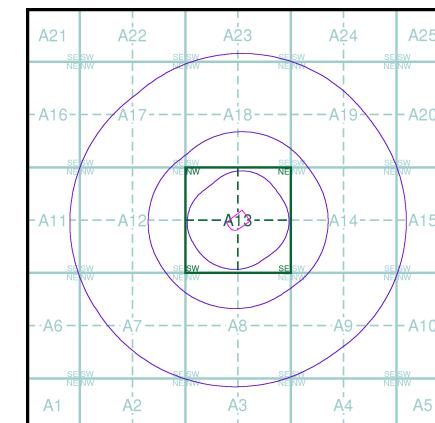
Source map scale - 1:10,560

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)

003A00
1882
1:10,560

Historical Map - Slice A

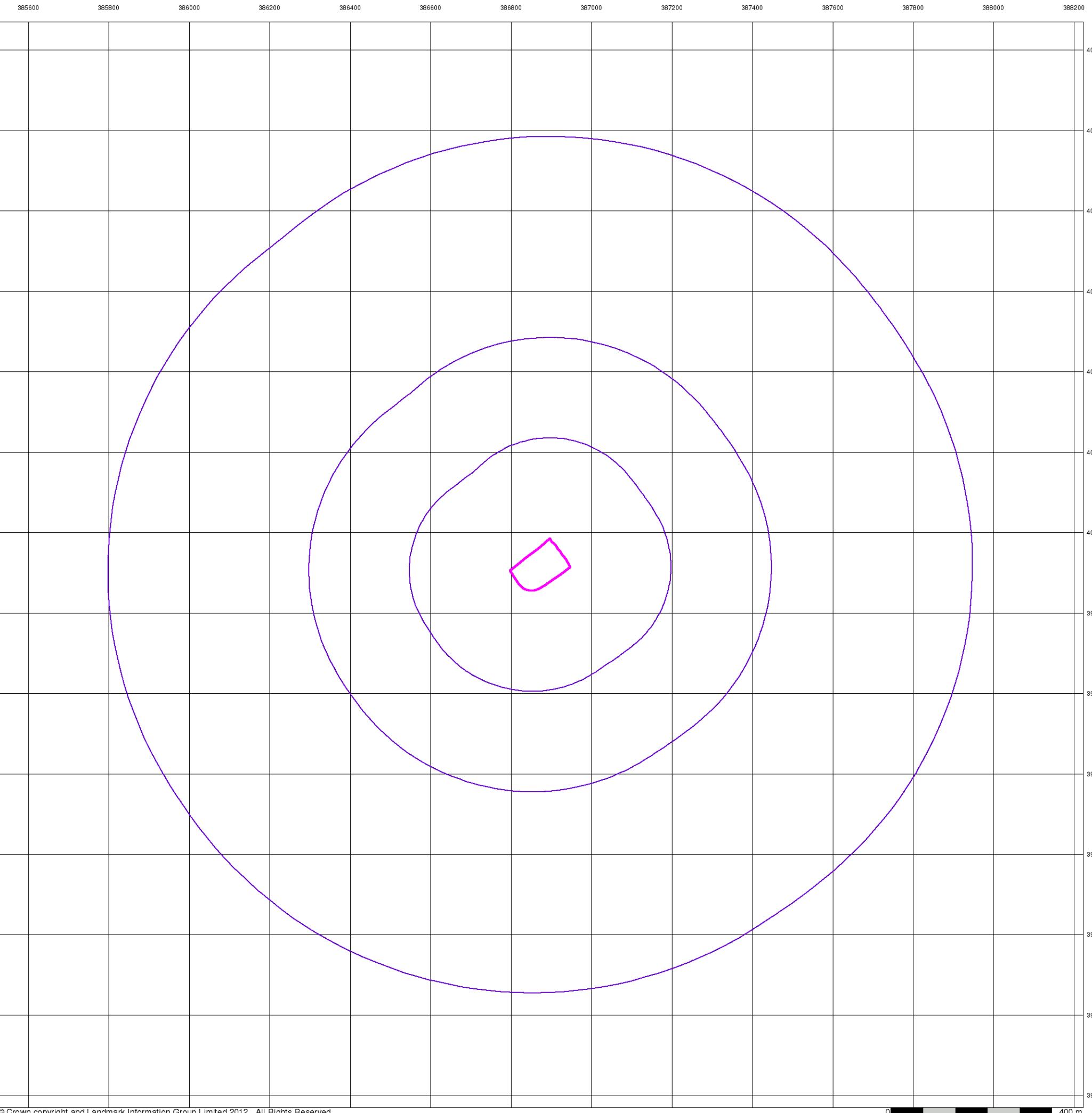


Order Details

Order Number: 48457083_1_1
Customer Ref: A083215 Plot 3
National Grid Reference: 386870, 399920
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





Lancashire And Furness

Published 1894

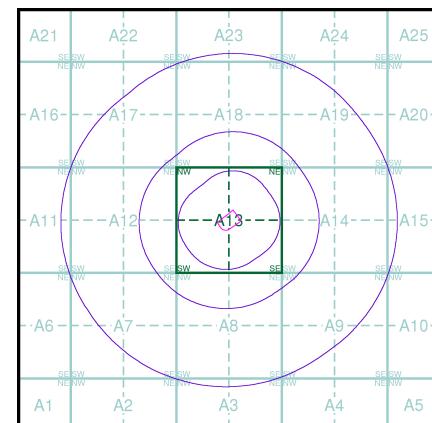
Source map scale - 1:10,560

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)

104NE
1894
1:10,560

Historical Map - Slice A



Order Details

Order Number: 48457083_1_1
Customer Ref: A083215 Plot 3
National Grid Reference: 386870, 399920
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





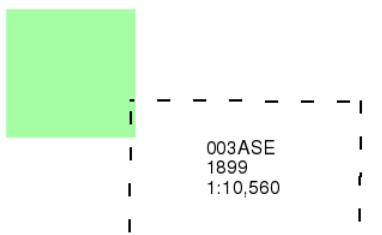
Cheshire

Published 1899

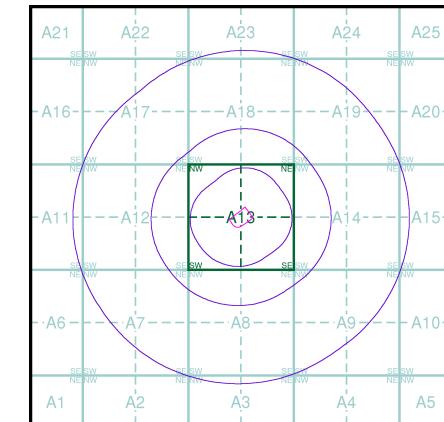
Source map scale - 1:10,560

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

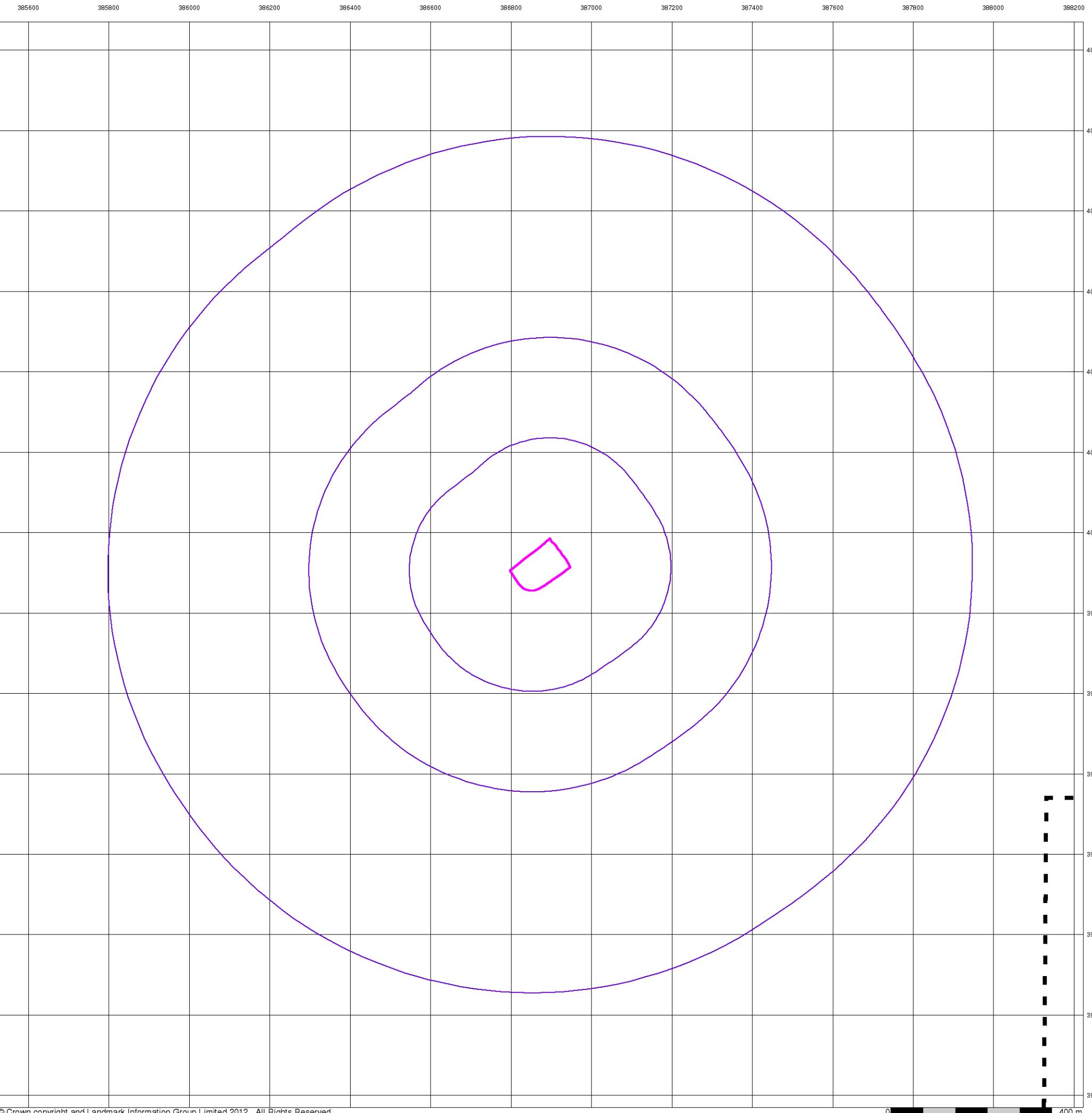
Order Number: 48457083_1_1
Customer Ref: A083215 Plot 3
National Grid Reference: 386870, 399920
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester



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Lancashire And Furness

Published 1909

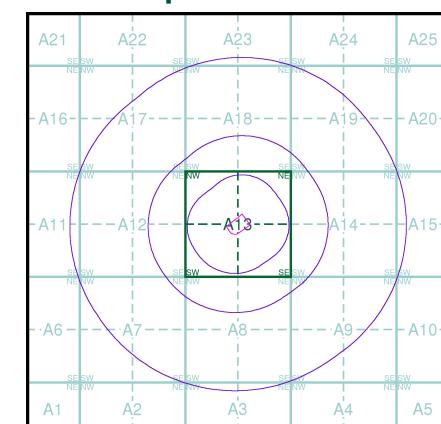
Source map scale - 1:10,560

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)

104NE
1909
1:10,560

Historical Map - Slice A

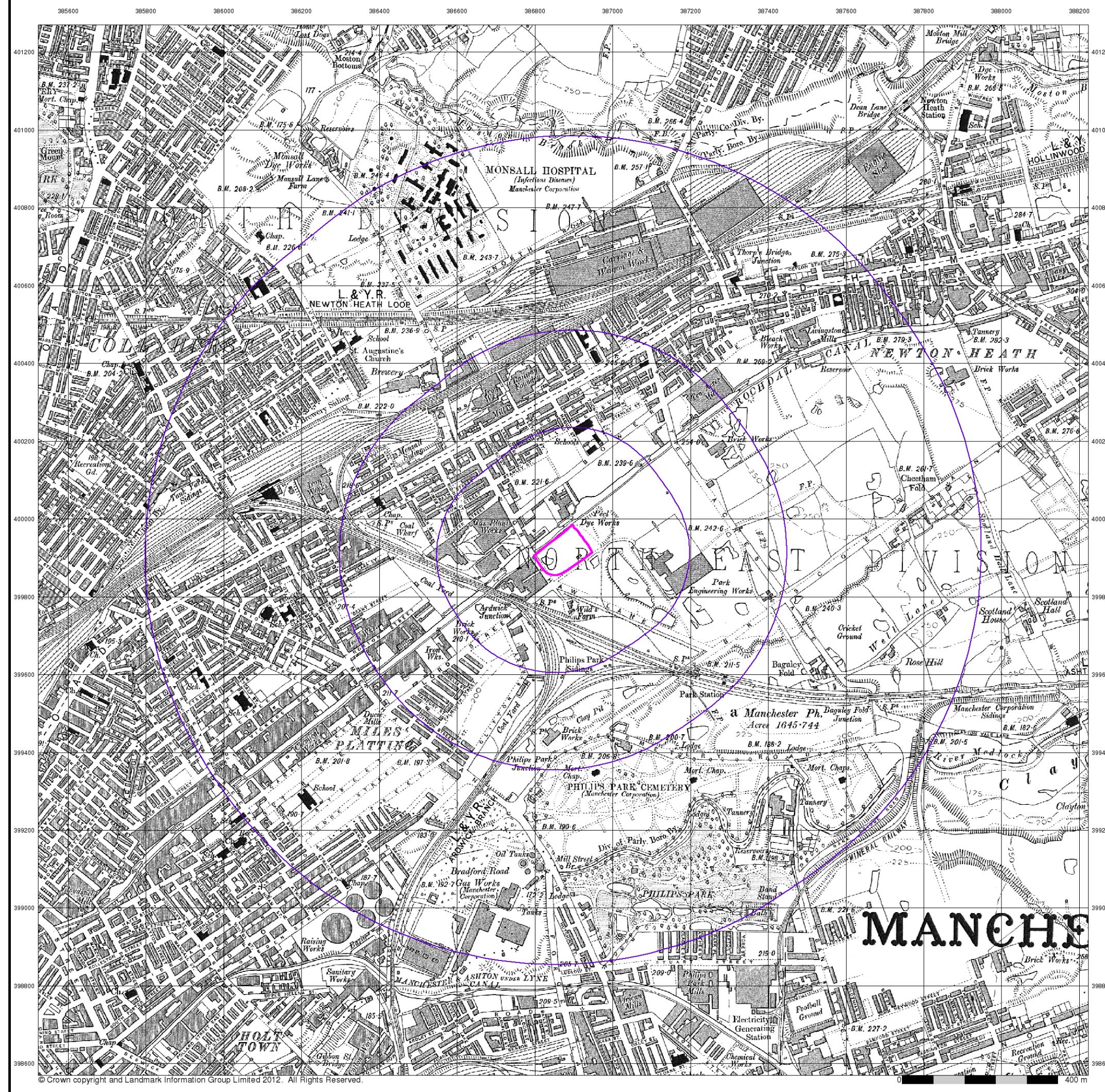


Order Details

Order Number: 48457083_1_1
Customer Ref: A083215 Plot 3
National Grid Reference: 386870, 399920
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





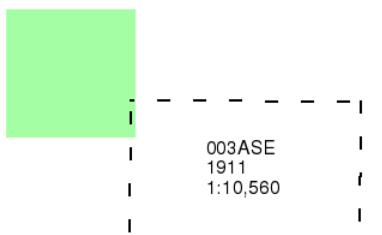
Cheshire

Published 1911

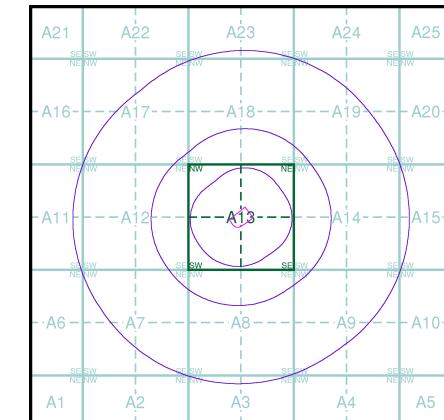
Source map scale - 1:10,560

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

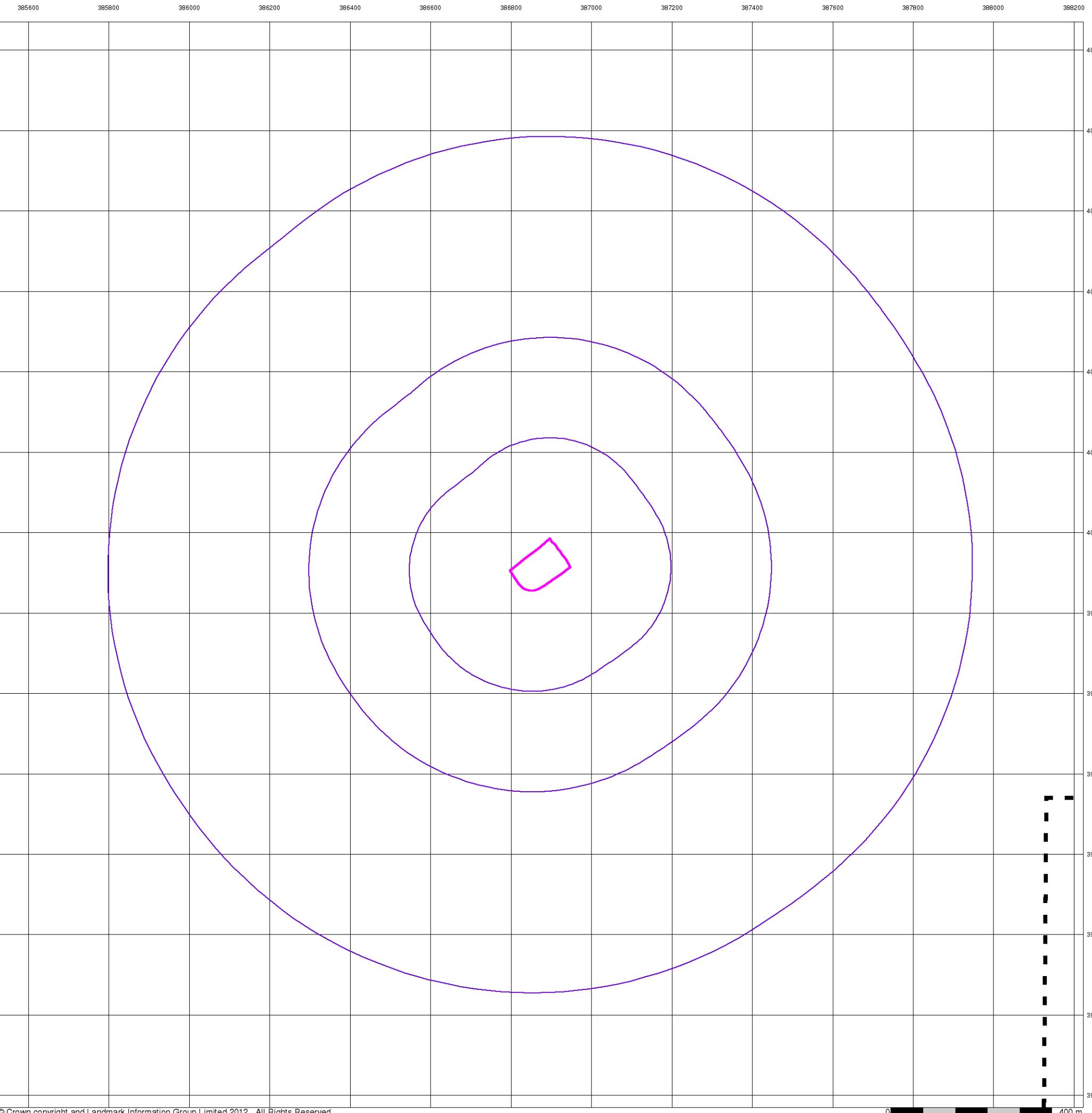


Order Details

Order Number: 48457083_1_1
Customer Ref: A083215 Plot 3
National Grid Reference: 386870, 399920
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





Lancashire And Furness

Published 1923

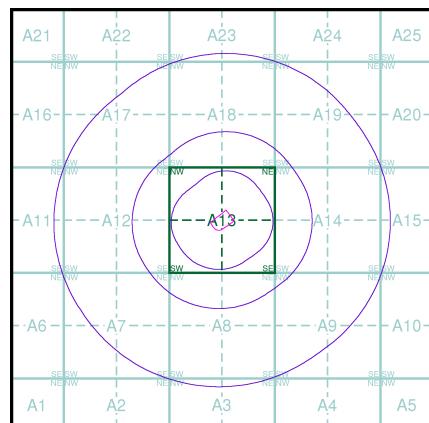
Source map scale - 1:10,560

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)

104NE
1923
1:10,560

Historical Map - Slice A

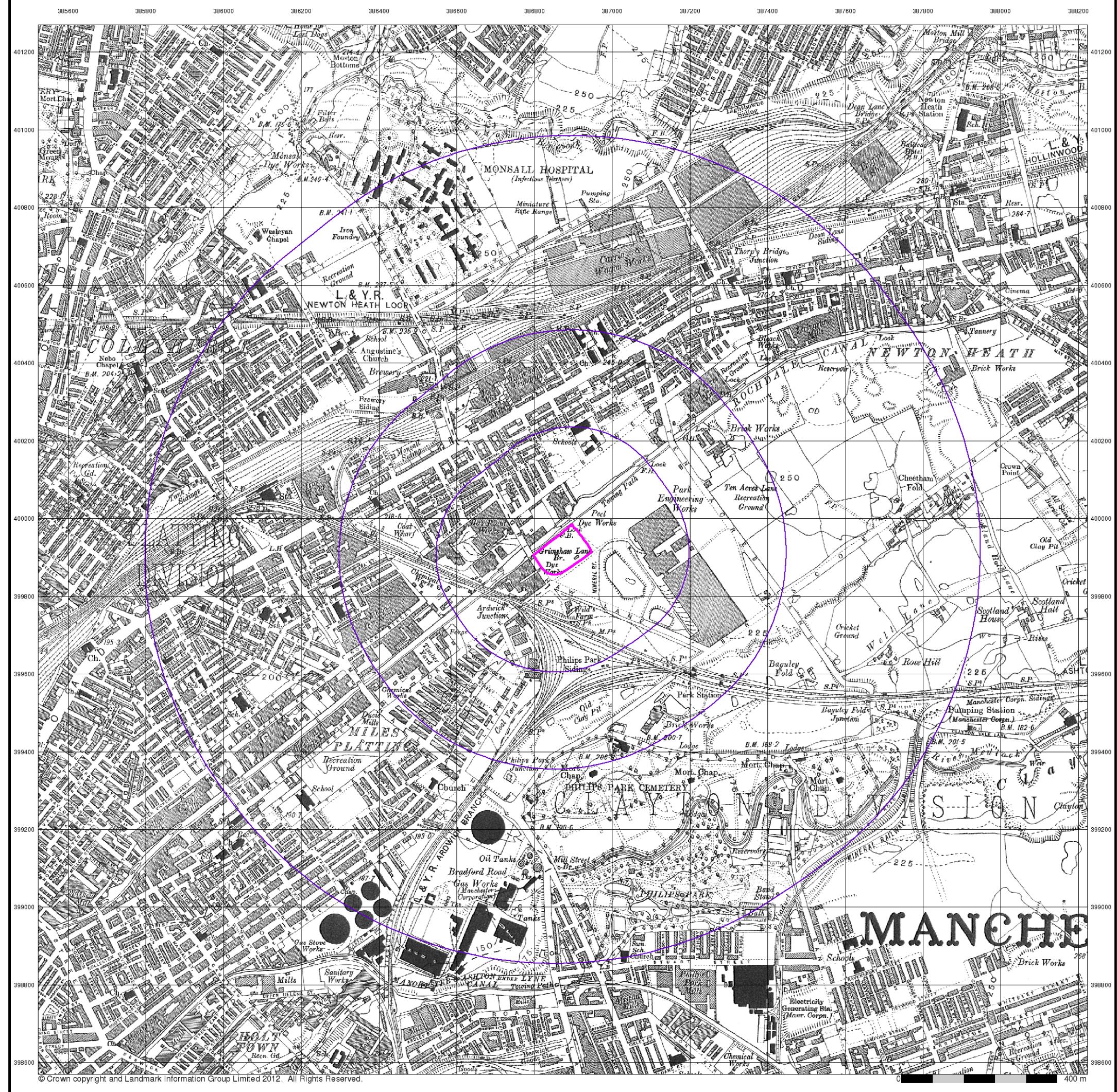


Order Details

Order Number: 48457083_1_1
Customer Ref: A083215 Plot 3
National Grid Reference: 386870, 399920
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





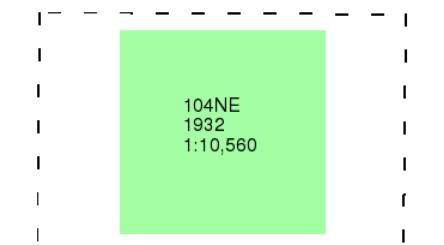
Lancashire And Furness

Published 1932

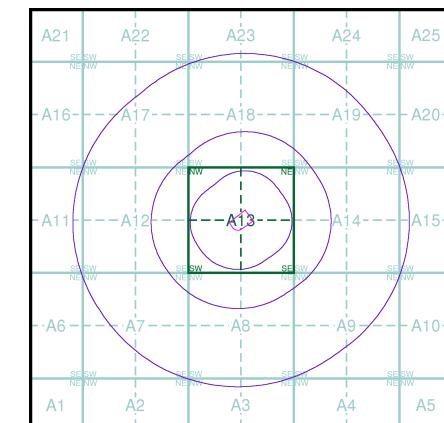
Source map scale - 1:10,560

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

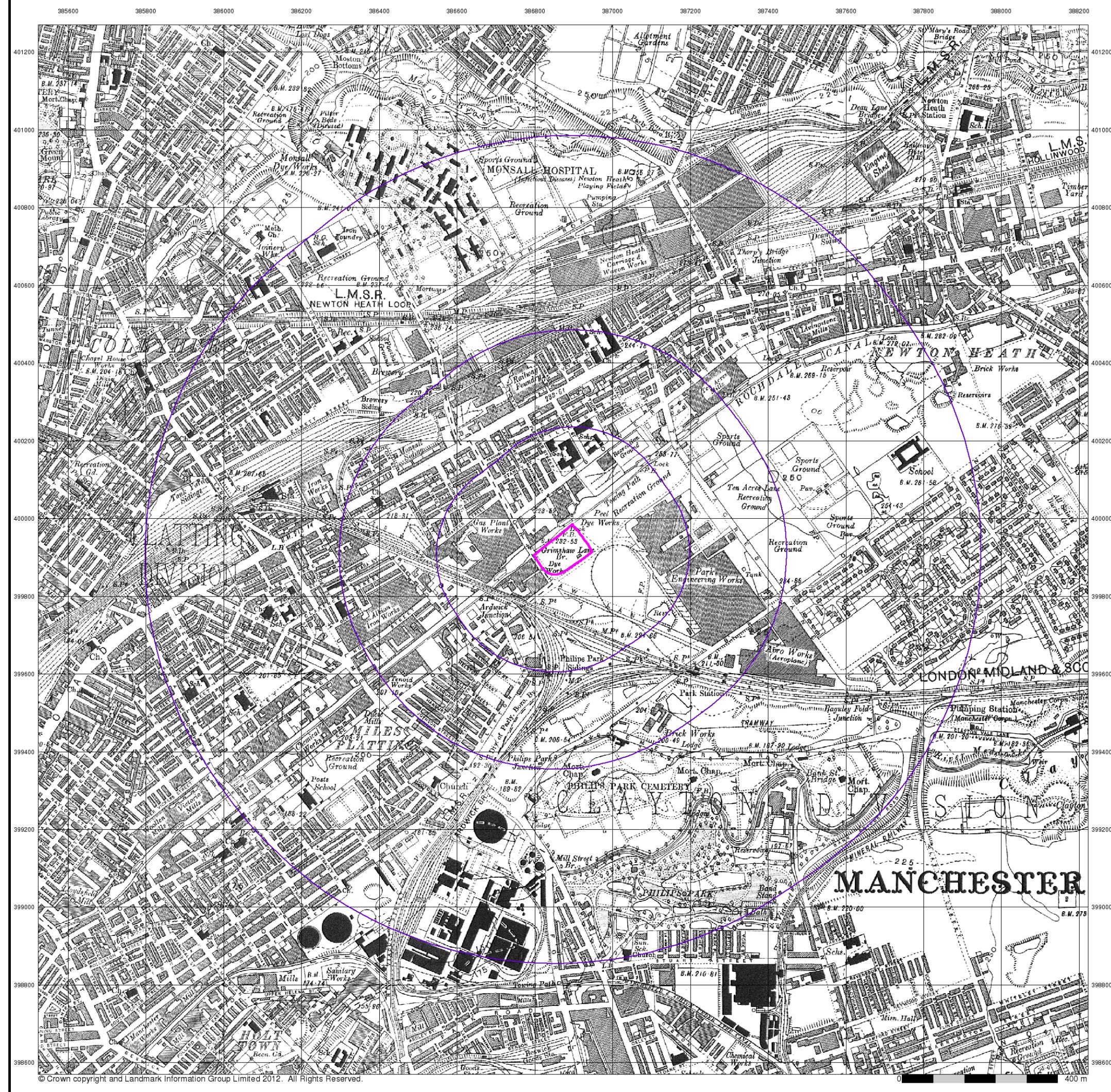


Order Details

Order Number: 48457083_1_1
Customer Ref: A083215 Plot 3
National Grid Reference: 386870, 399920
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





Lancashire And Furness

Published 1938

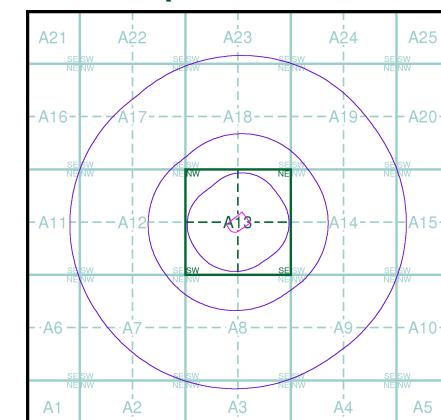
Source map scale - 1:10,560

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)

104NE
1938
1:10,560

Historical Map - Slice A

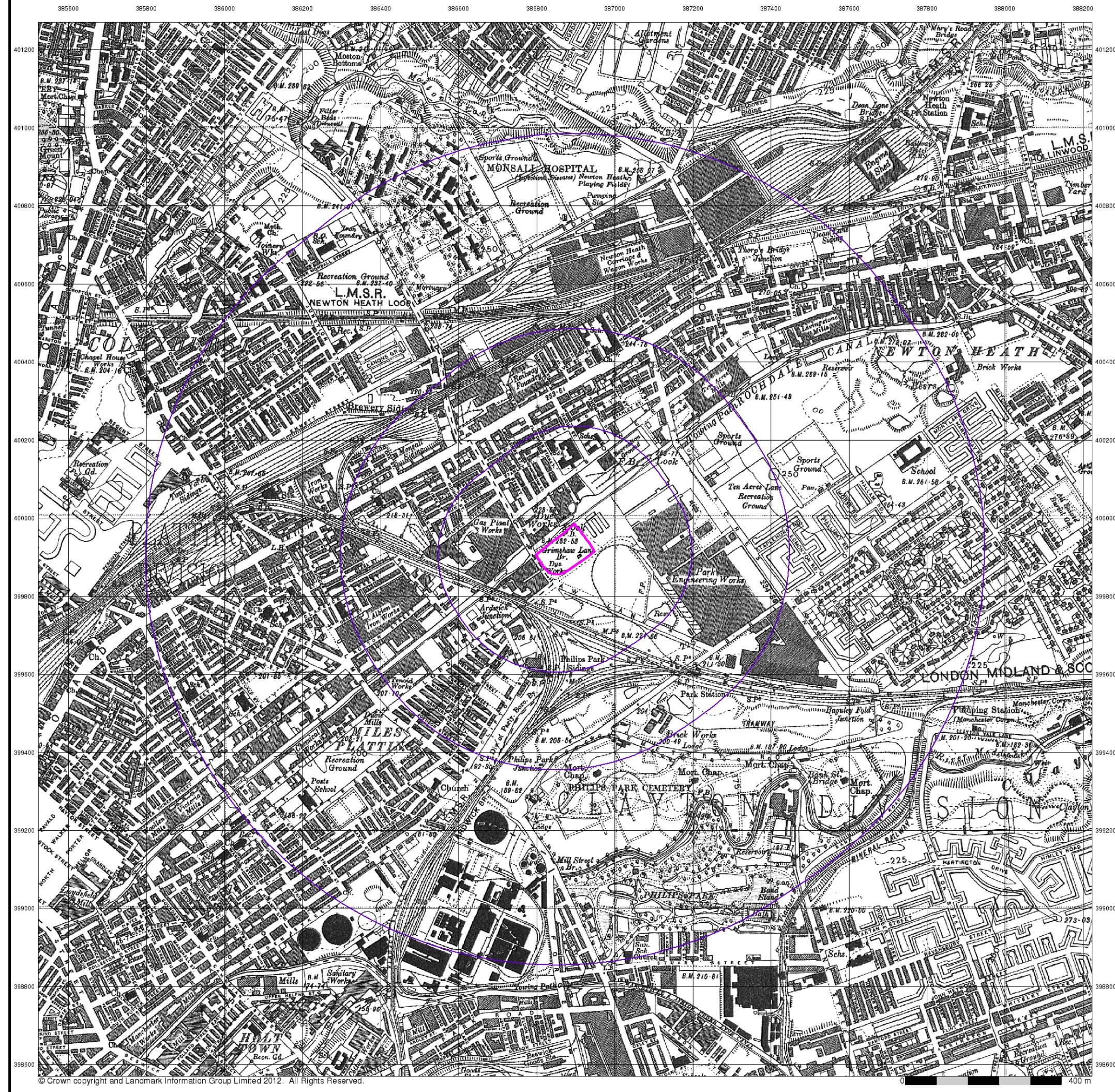


Order Details

Order Number: 48457083_1_1
Customer Ref: A083215 Plot 3
National Grid Reference: 386870, 399920
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





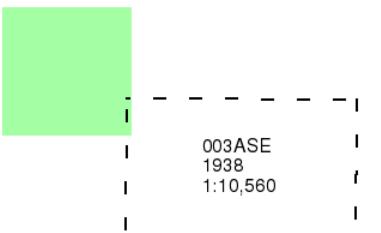
Cheshire

Published 1938

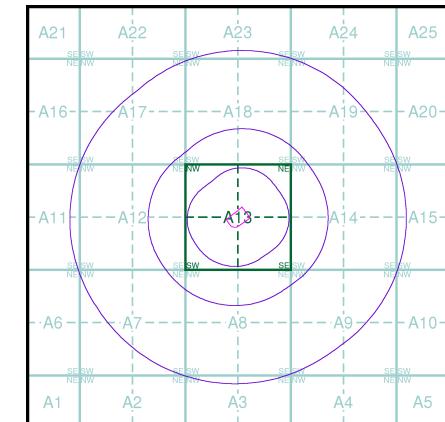
Source map scale - 1:10,560

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

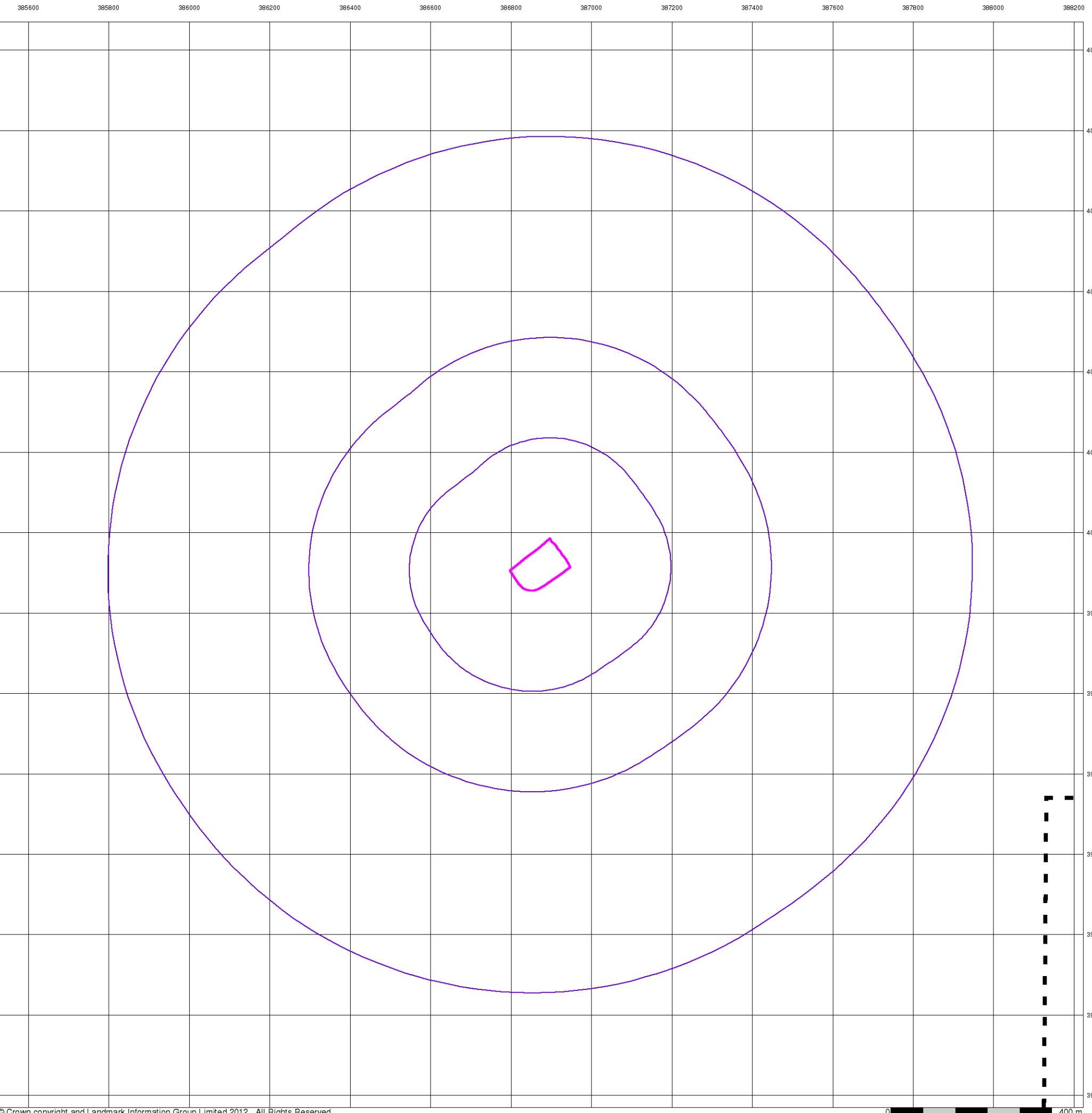


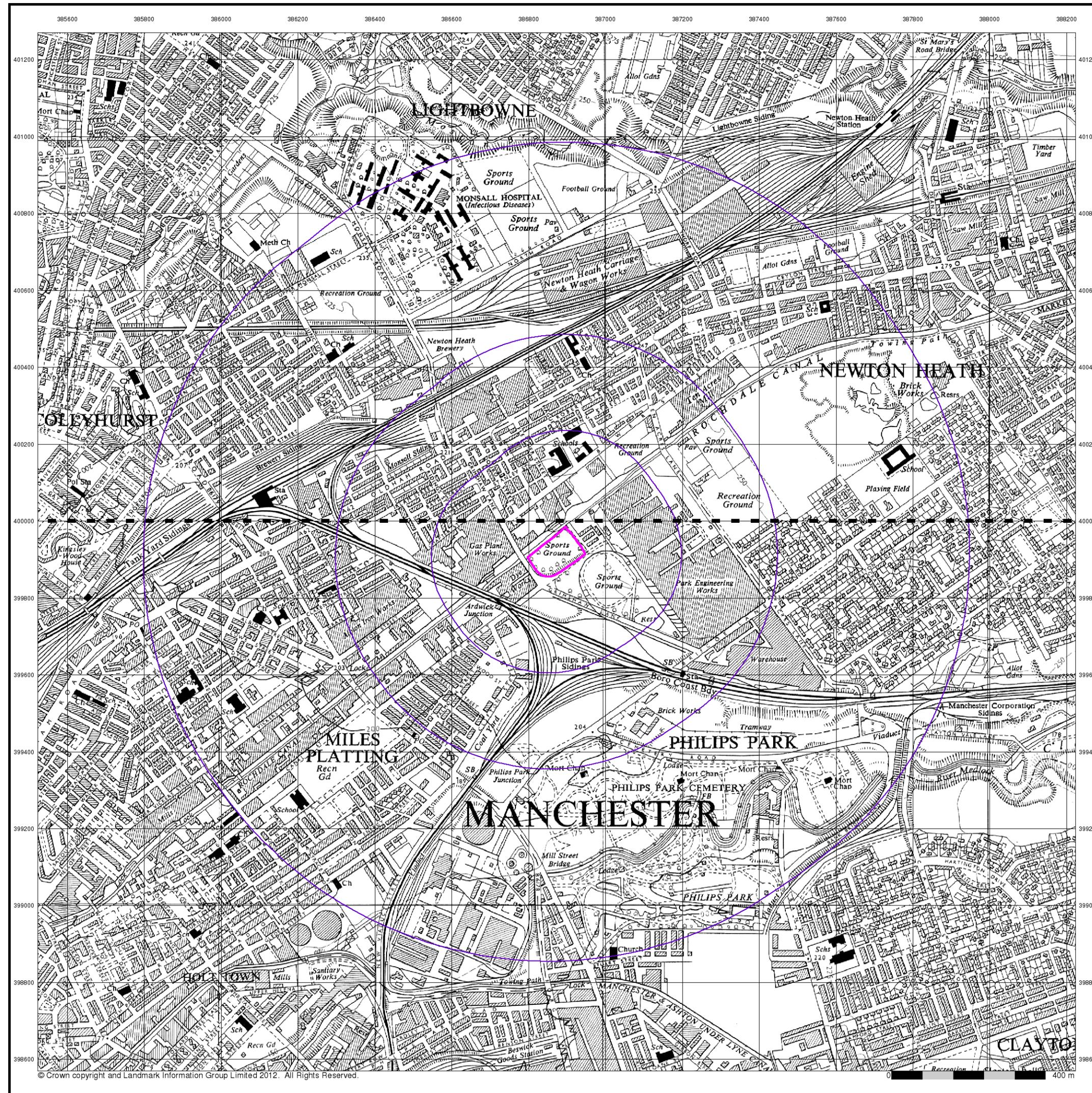
Order Details

Order Number: 48457083_1_1
Customer Ref: A083215 Plot 3
National Grid Reference: 386870, 399920
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





Ordnance Survey Plan

Published 1956

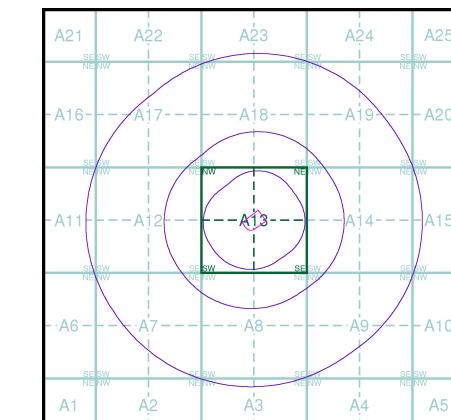
Source map scale - 1:10,000

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	1956
1:10,560	
SJ89NE	1956
1:10,560	

Historical Map - Slice A



Order Details

Order Number: 48457083_1_1
 Customer Ref: A083215 Plot 3
 National Grid Reference: 386870, 399920
 Slice: A
 Site Area (Ha): 1.05
 Search Buffer (m): 1000

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester



Ordnance Survey Plan

Published 1966 - 1968

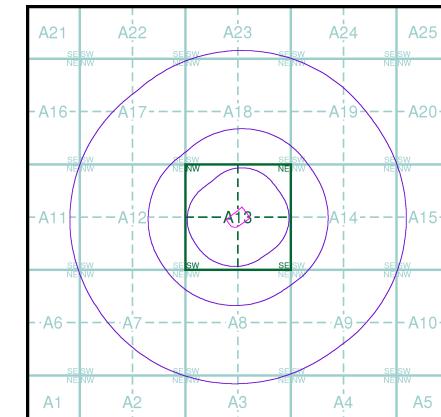
Source map scale - 1:10,000

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	1966	1:10,560
SJ89NE	1968	1:10,560

Historical Map - Slice A

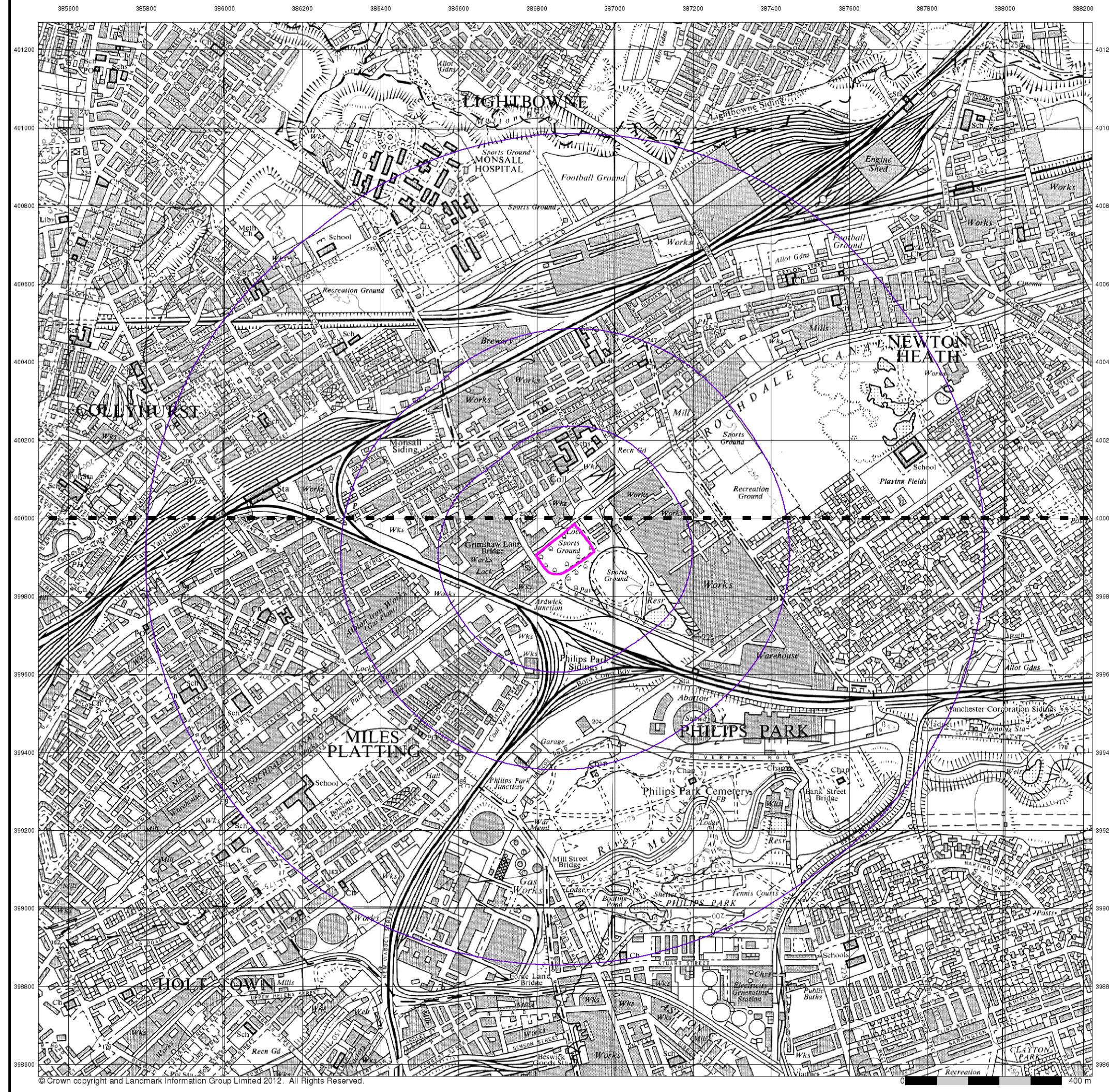


Order Details

Order Number: 48457083_1_1
Customer Ref: A083215 Plot 3
National Grid Reference: 386870, 399920
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





Manchester

Published 1975

Source map scale - 1:25,000

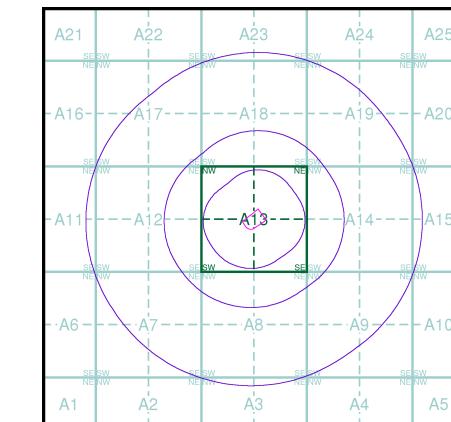
These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed 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

Order Number: 48457083_1_1
Customer Ref: A083215 Plot 3
National Grid Reference: 386870, 399920
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





Ordnance Survey Plan

Published 1978

Source map scale - 1:10,000

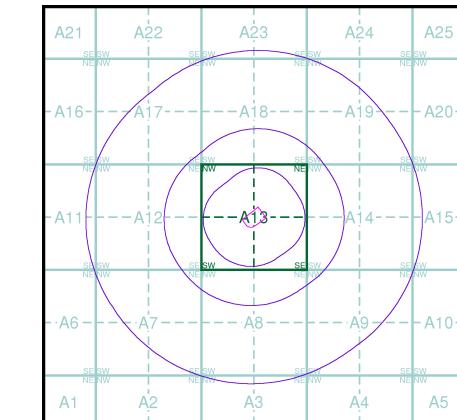
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

SD80SE
1978
1:10,000



Historical Map - Slice A

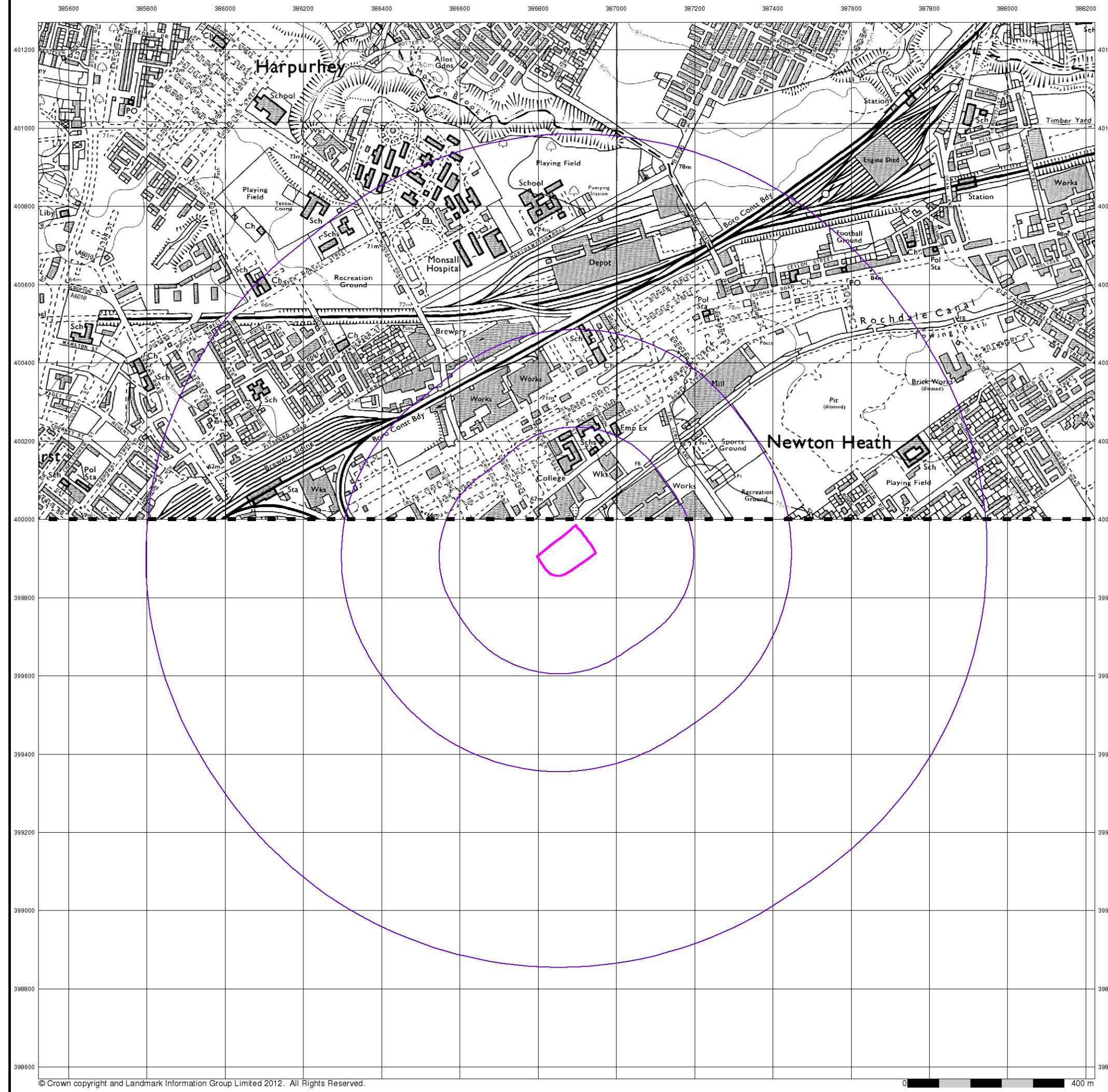


Order Details

Order Number: 48457083_1_1
Customer Ref: A083215 Plot 3
National Grid Reference: 386870, 399920
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





Ordnance Survey Plan

Published 1981 - 1982

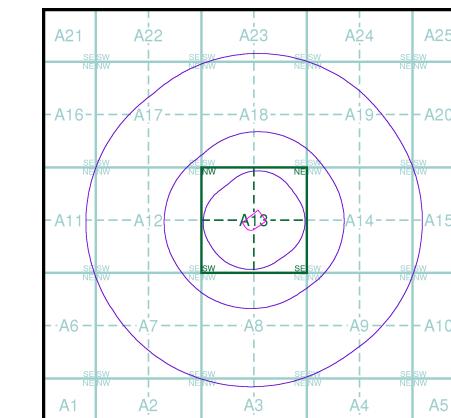
Source map scale - 1:10,000

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

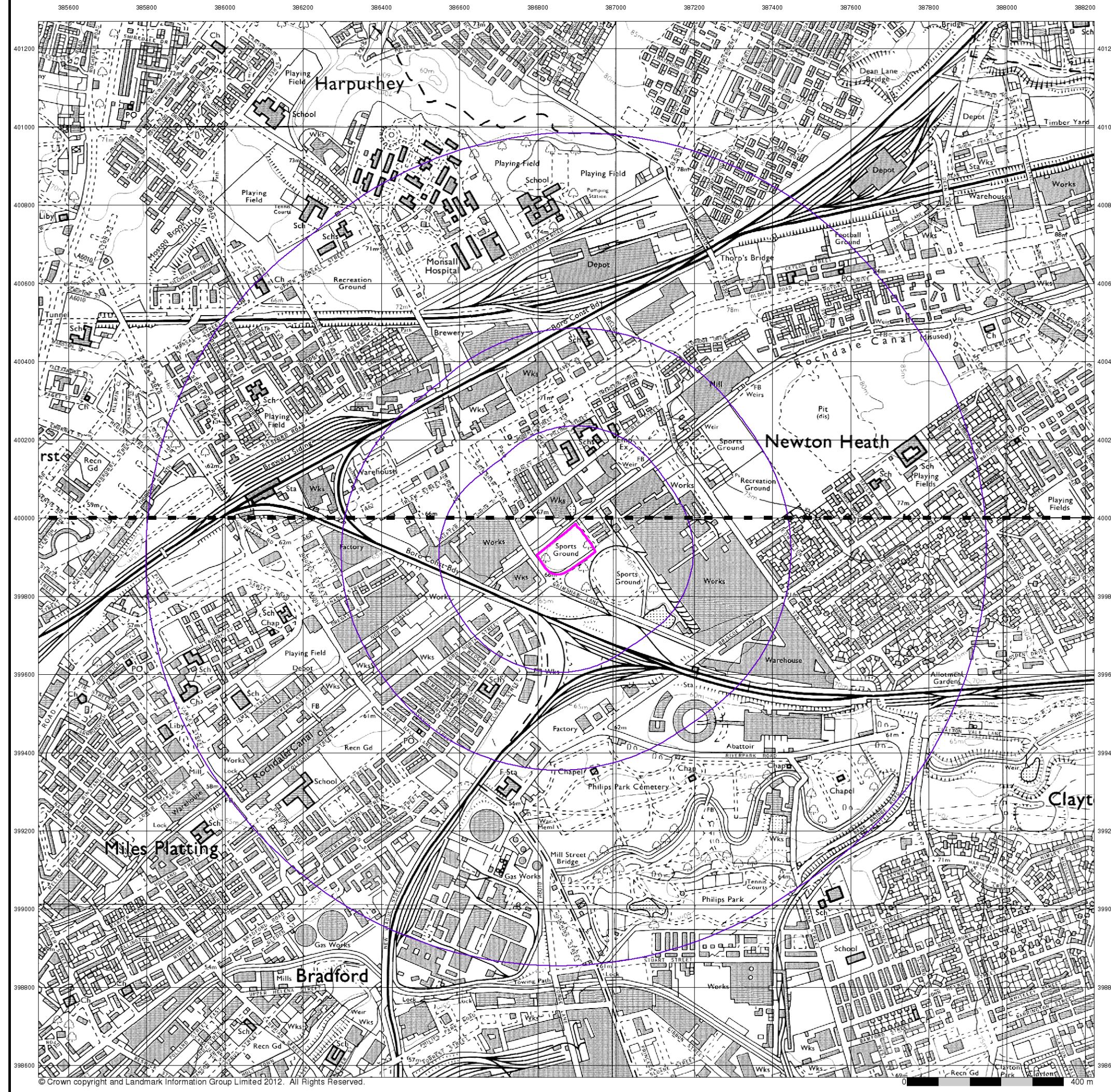


Order Details

Order Number: 48457083_1_1
 Customer Ref: A083215 Plot 3
 National Grid Reference: 386870, 399920
 Slice: A
 Site Area (Ha): 1.05
 Search Buffer (m): 1000

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





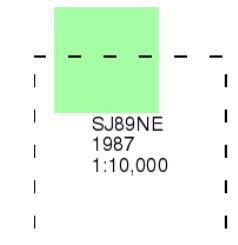
Ordnance Survey Plan

Published 1987

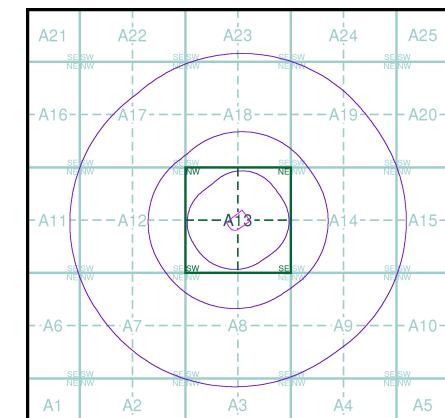
Source map scale - 1:10,000

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

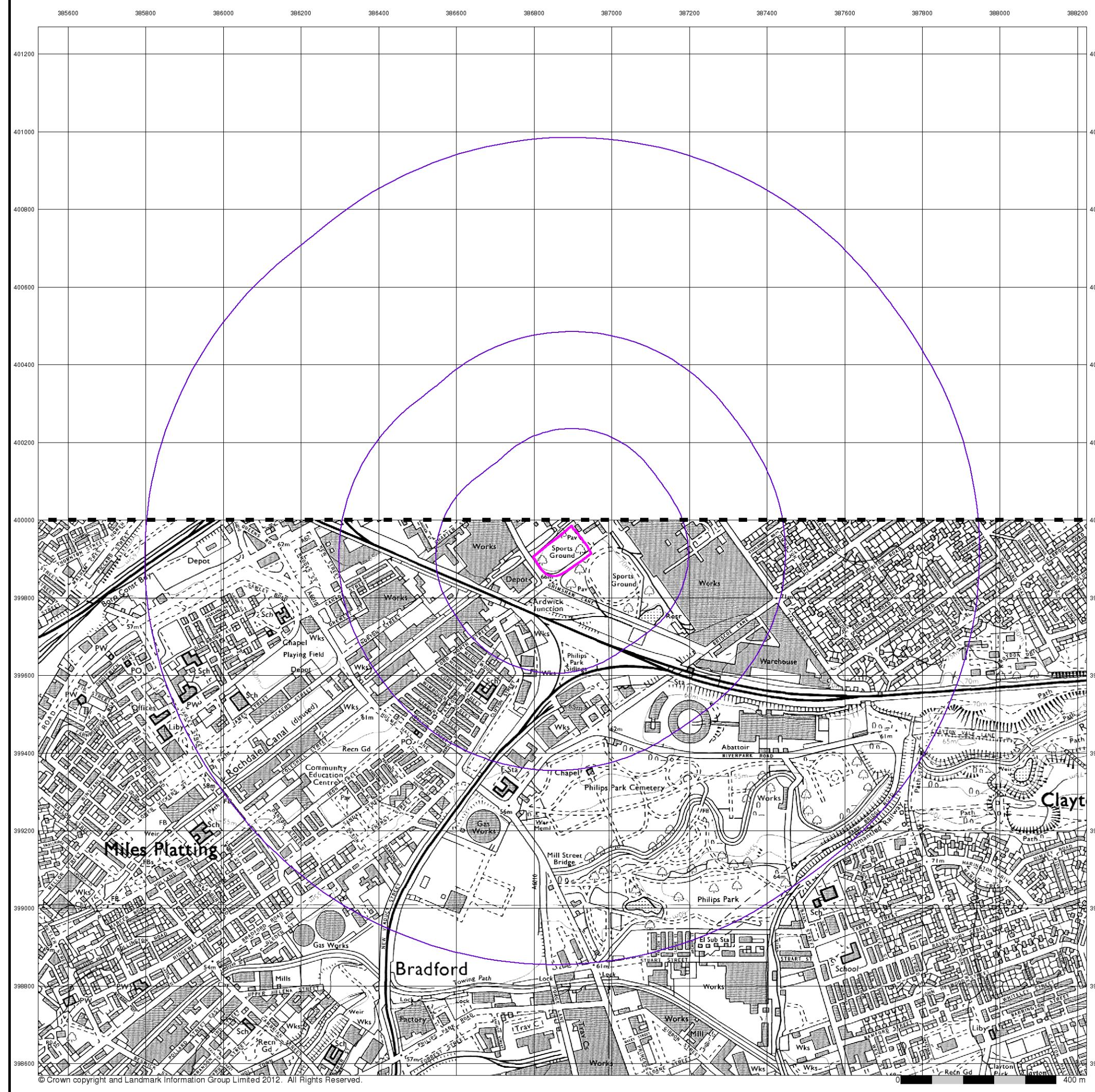


Order Details

Order Number: 48457083_1_1
Customer Ref: A083215 Plot 3
National Grid Reference: 386870, 399920
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





Ordnance Survey Plan

Published 1990 - 1993

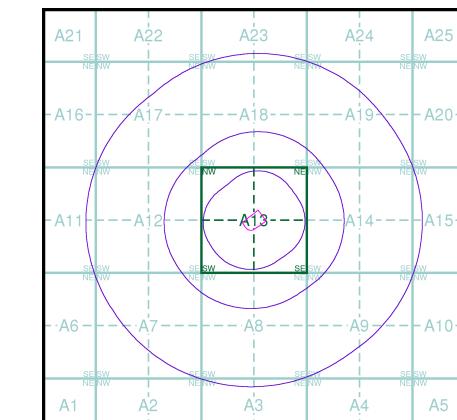
Source map scale - 1:10,000

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
1:10,000	
SJ89NE	1993
1:10,000	

Historical Map - Slice A

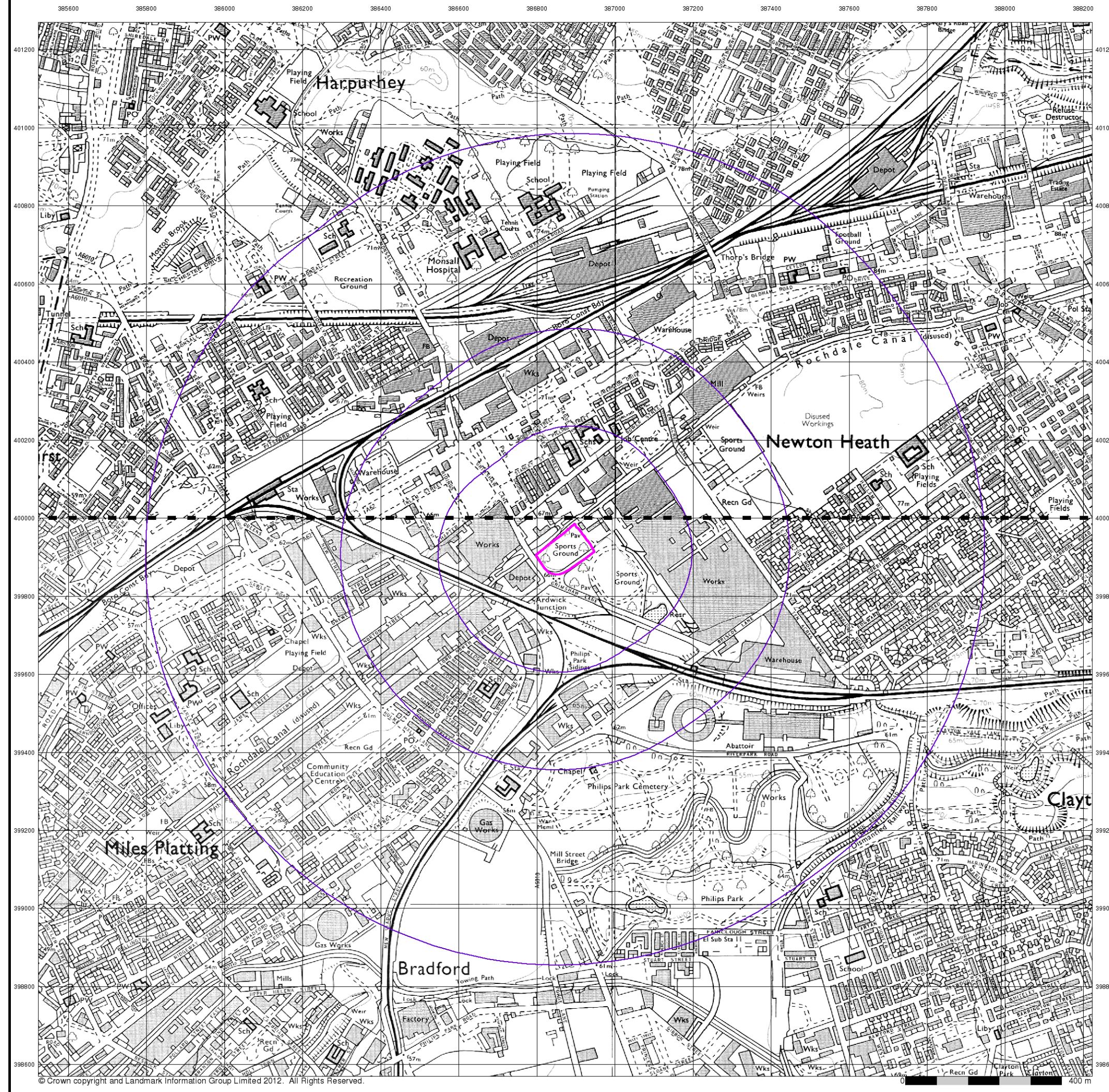


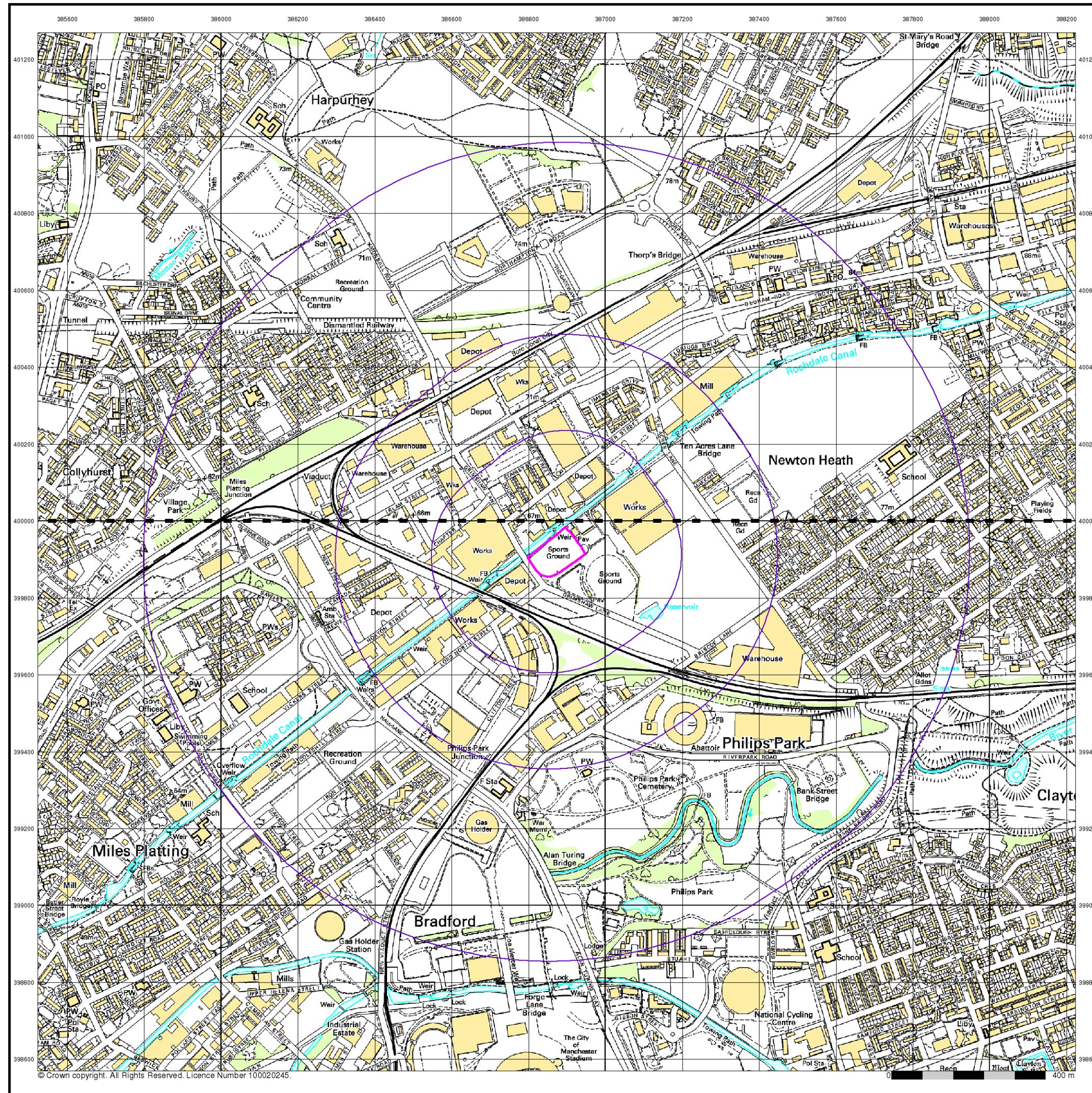
Order Details

Order Number: 48457083_1_1
 Customer Ref: A083215 Plot 3
 National Grid Reference: 386870, 399920
 Slice: A
 Site Area (Ha): 1.05
 Search Buffer (m): 1000

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





10k Raster Mapping

Published 2006

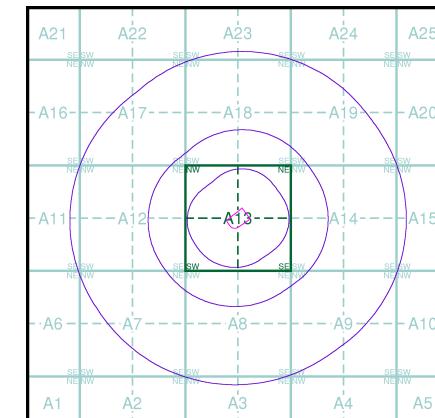
Source map scale - 1:10,000

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: 48457083_1_1
 Customer Ref: A083215 Plot 3
 National Grid Reference: 386870, 399920
 Slice: A
 Site Area (Ha): 1.05
 Search Buffer (m): 1000

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester



10k Raster Mapping

Published 2013

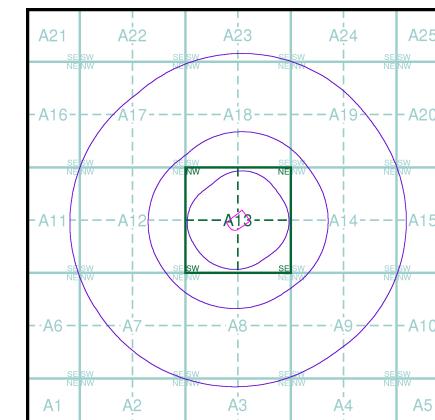
Source map scale - 1:10,000

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

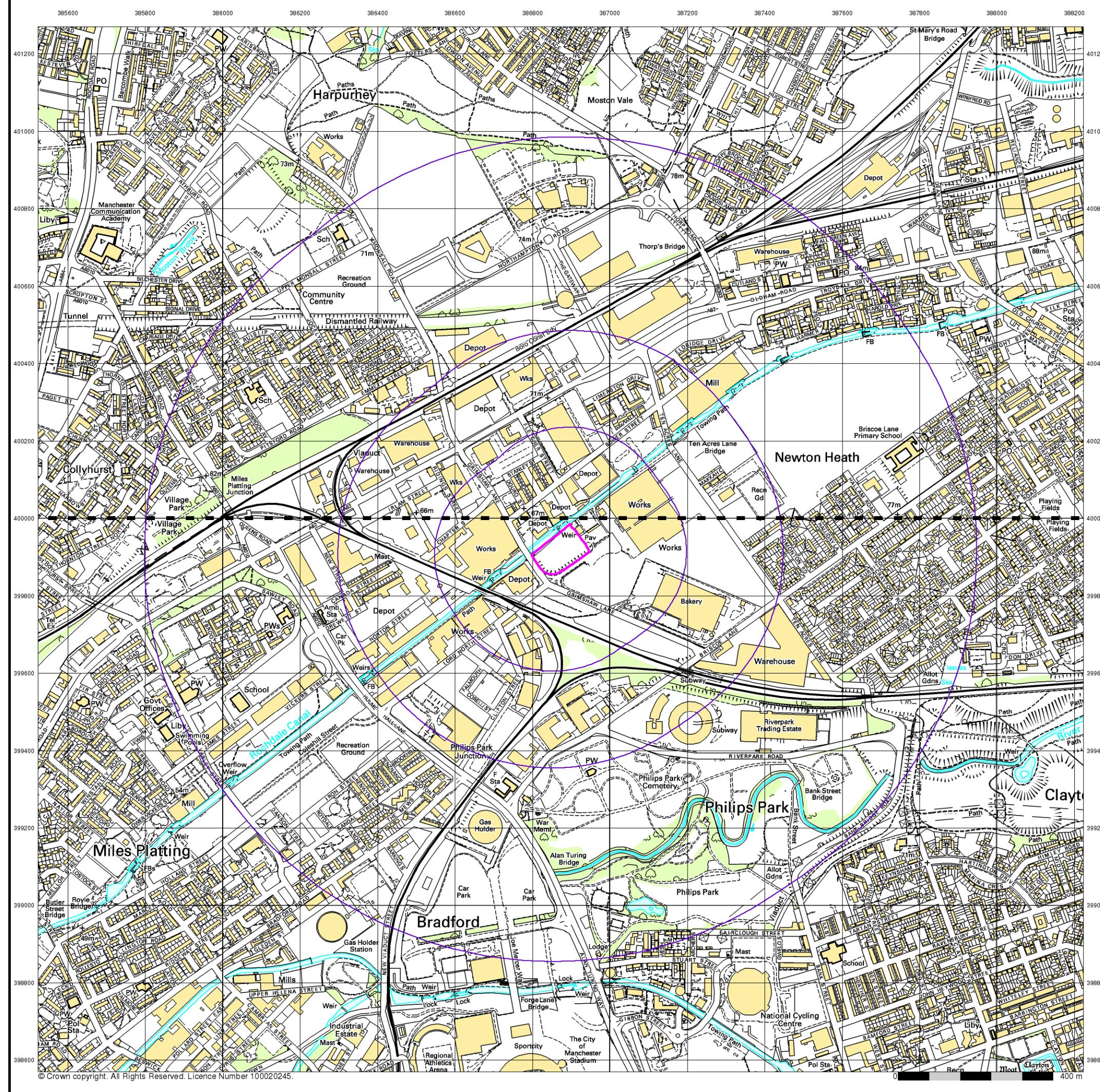


Order Details

Order Number: 48457083_1_1
Customer Ref: A083215 Plot 3
National Grid Reference: 386870, 399920
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Plot 3, Grimshaw Lane, Newton Heath, Manchester





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

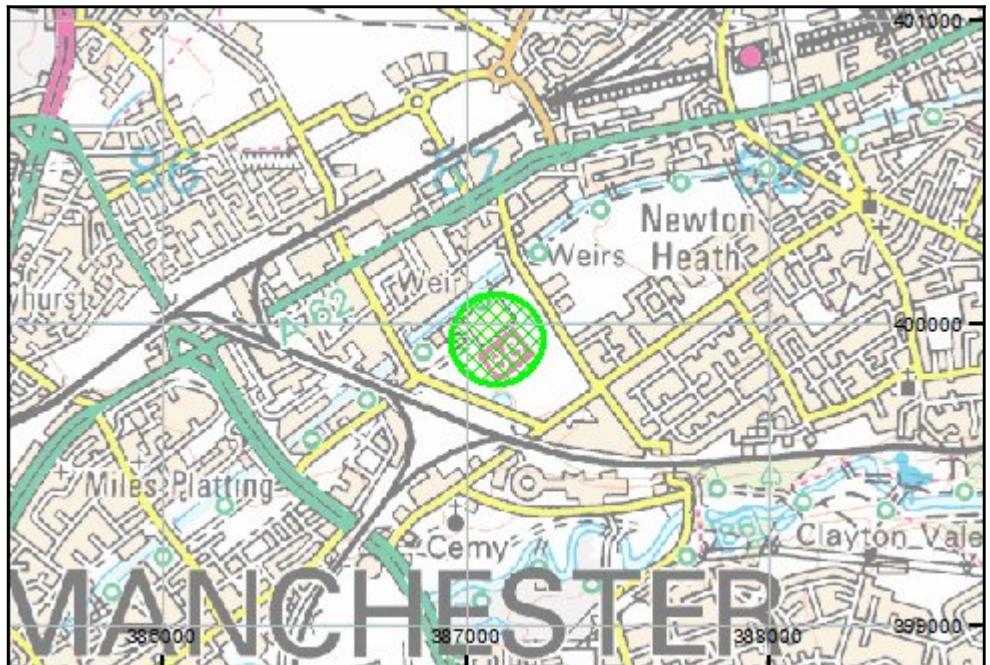
This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions 2006.

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.

Location map



Approximate position
of property

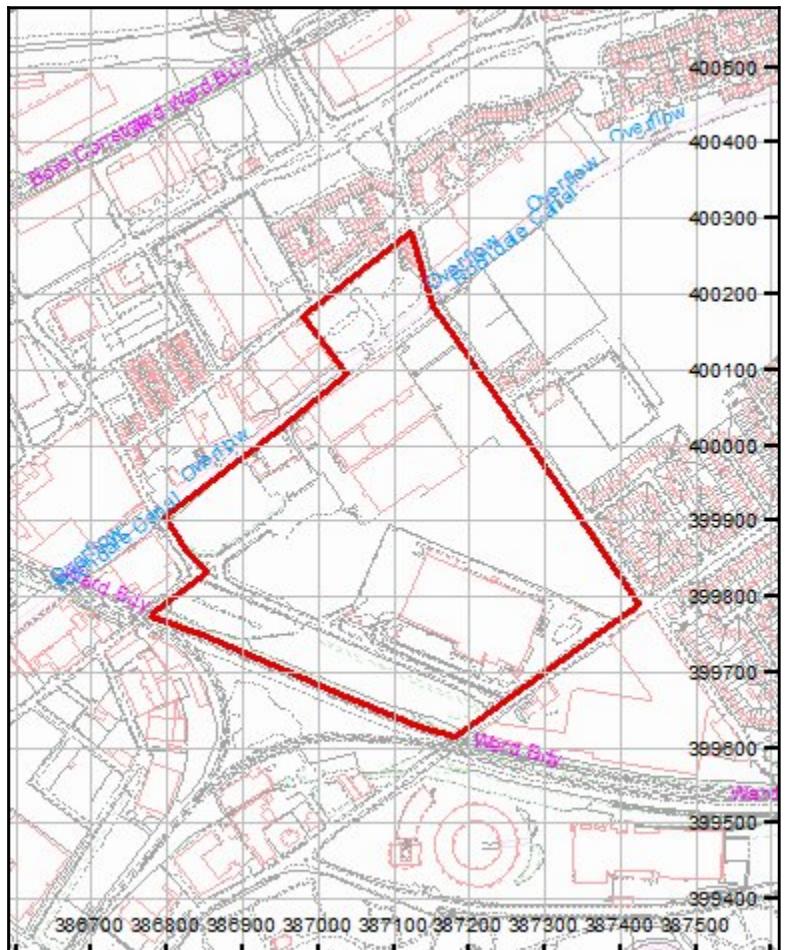


Enquiry boundary

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Key

Approximate position of enquiry
boundary shown



Mapping
sourced from

Ordnance Survey®



Appendix E - Exploratory Hole Logs

WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH

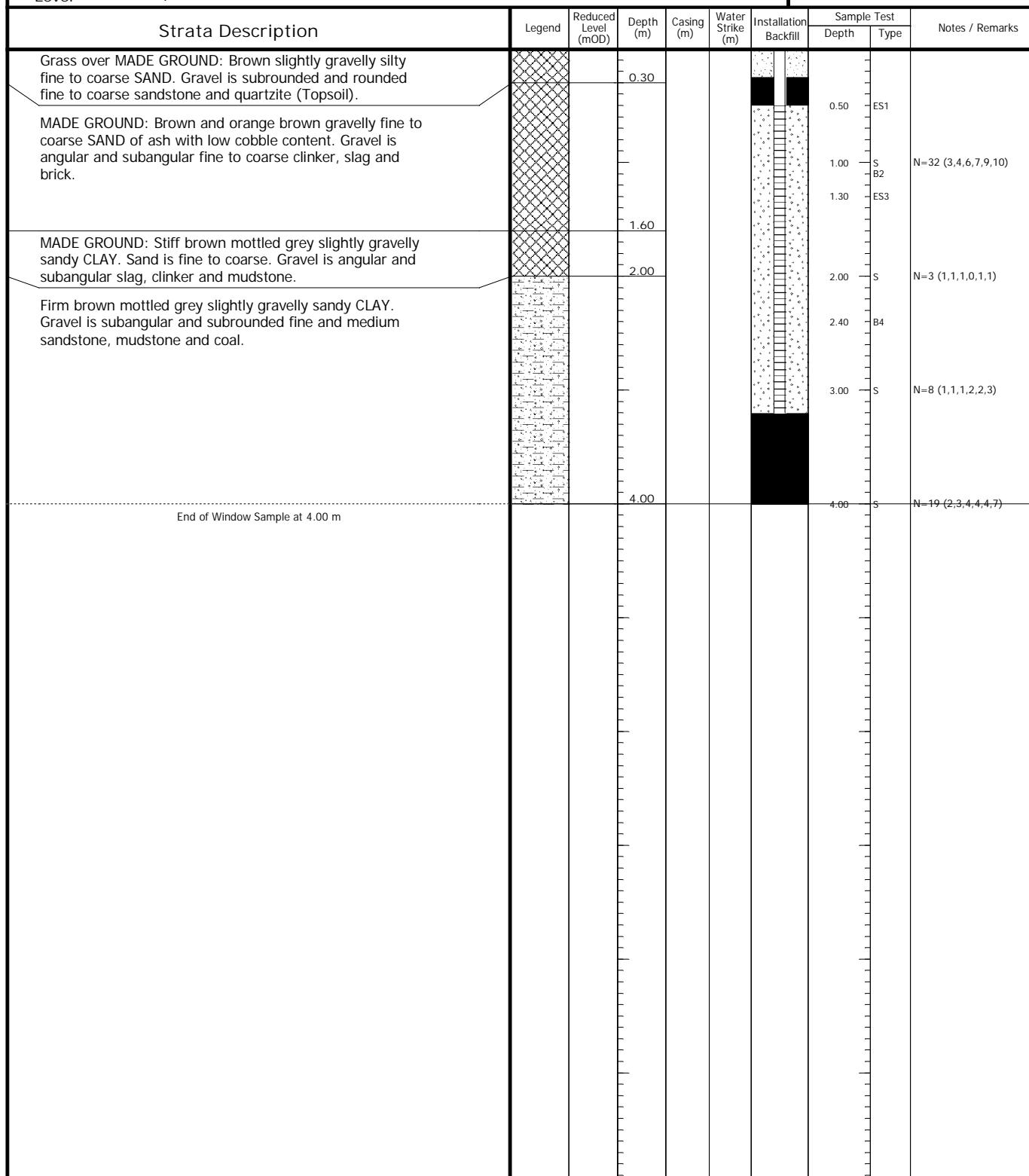
Tel: 0161 872 3223 Fax: 0161 872 3193

Exploratory Hole Number

WS301

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



Observations / Remarks

1. Hole drilled on Plot 3.
2. Hand dug inspection pit to 1.2m bgl prior to drilling.
3. Groundwater not observed.
4. On completion, hole installed with 50mm monitoring well with response zone 0.5-3.2m bgl.

WYG ENVIRONMENT

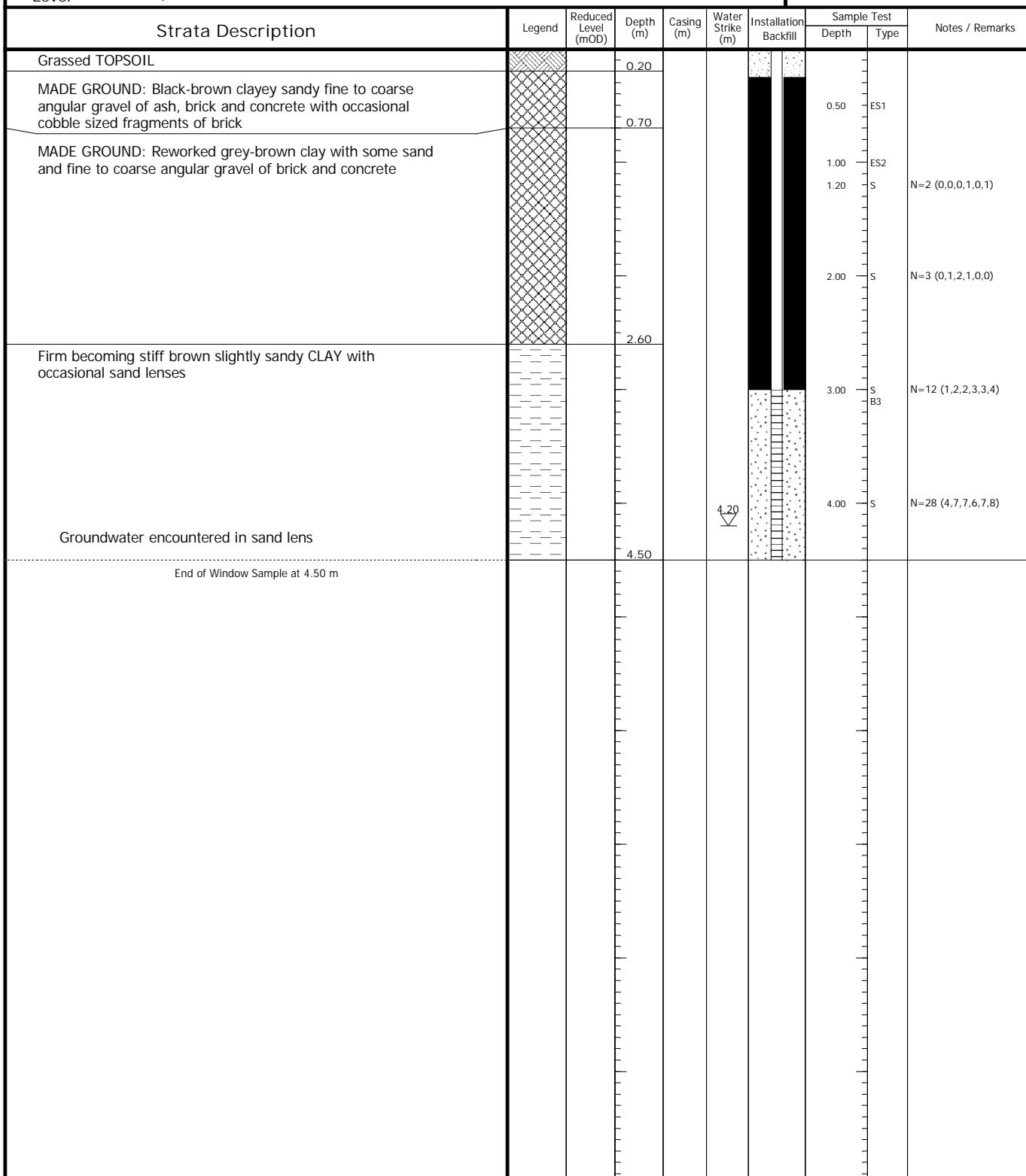
Quay West at MediaCityUK, Salford Quays, M17 1HH
Tel: 0161 872 3223 Fax: 0161 872 3193

Exploratory Hole Number

WS302

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 : JRT
Checked By : RAJ
Start Date : 19/08/13
Finish Date : 19/08/13



Observations / Remarks

1. Inspection pit hand excavated to 1.2m bgl prior to drilling.
2. Groundwater encountered at 4.2m bgl in sand lens.
3. Upon completion 50mm diameter standpipe installed to 4.5m bgl

WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH

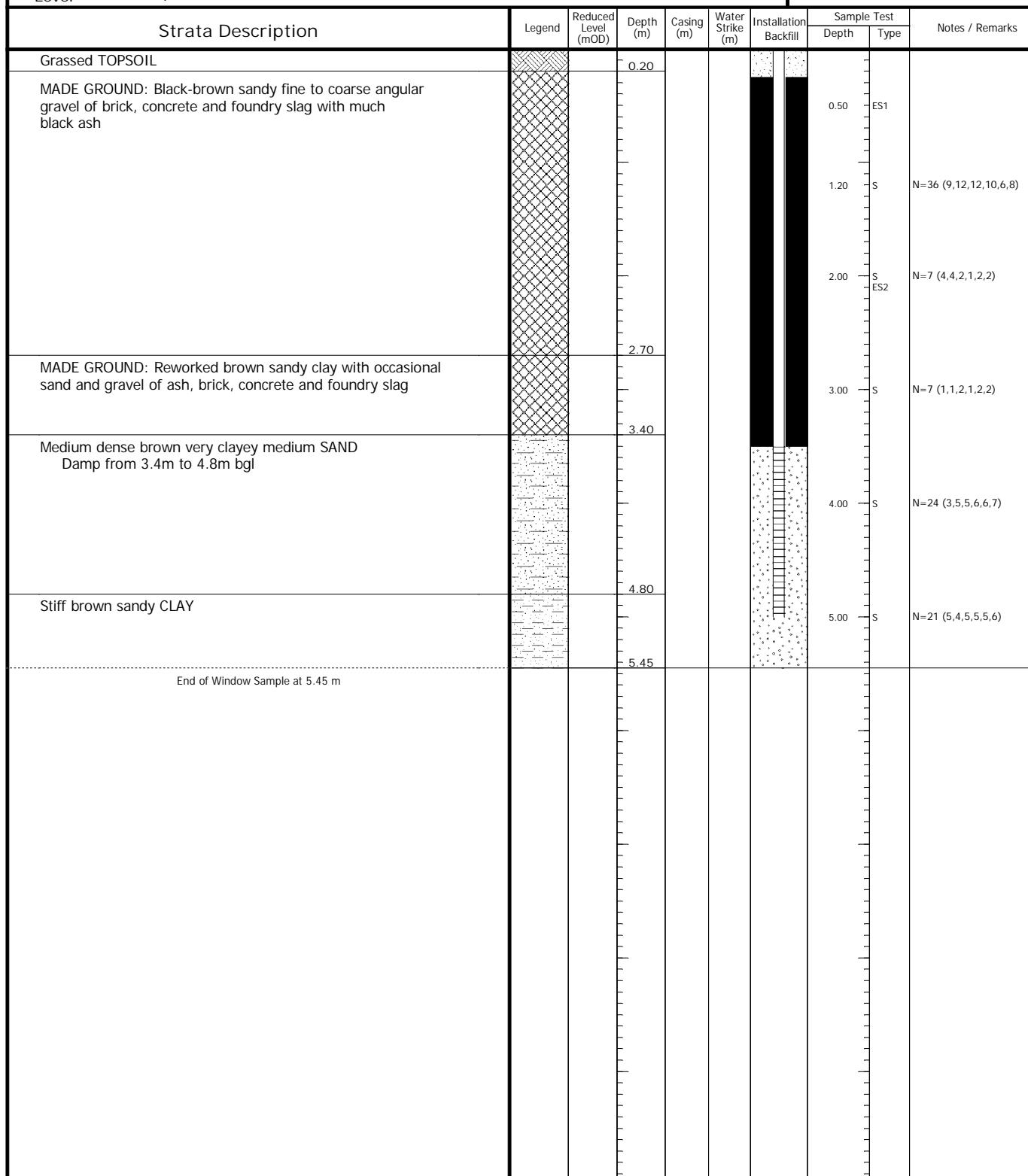
Tel: 0161 872 3223 Fax: 0161 872 3193

Exploratory Hole Number

WS303

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 : JRT
 Checked By : RAJ
 Start Date : 19/08/13
 Finish Date : 19/08/13



Observations / Remarks

1. Inspection pit hand excavated to 1.2m bgl prior to drilling.
2. Groundwater encountered in sand from 3.4 to 4.8m bgl.
3. Upon completion 50mm diameter standpipe installed to 5.0m bgl

WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH
Tel: 0161 872 3223 Fax: 0161 872 3193

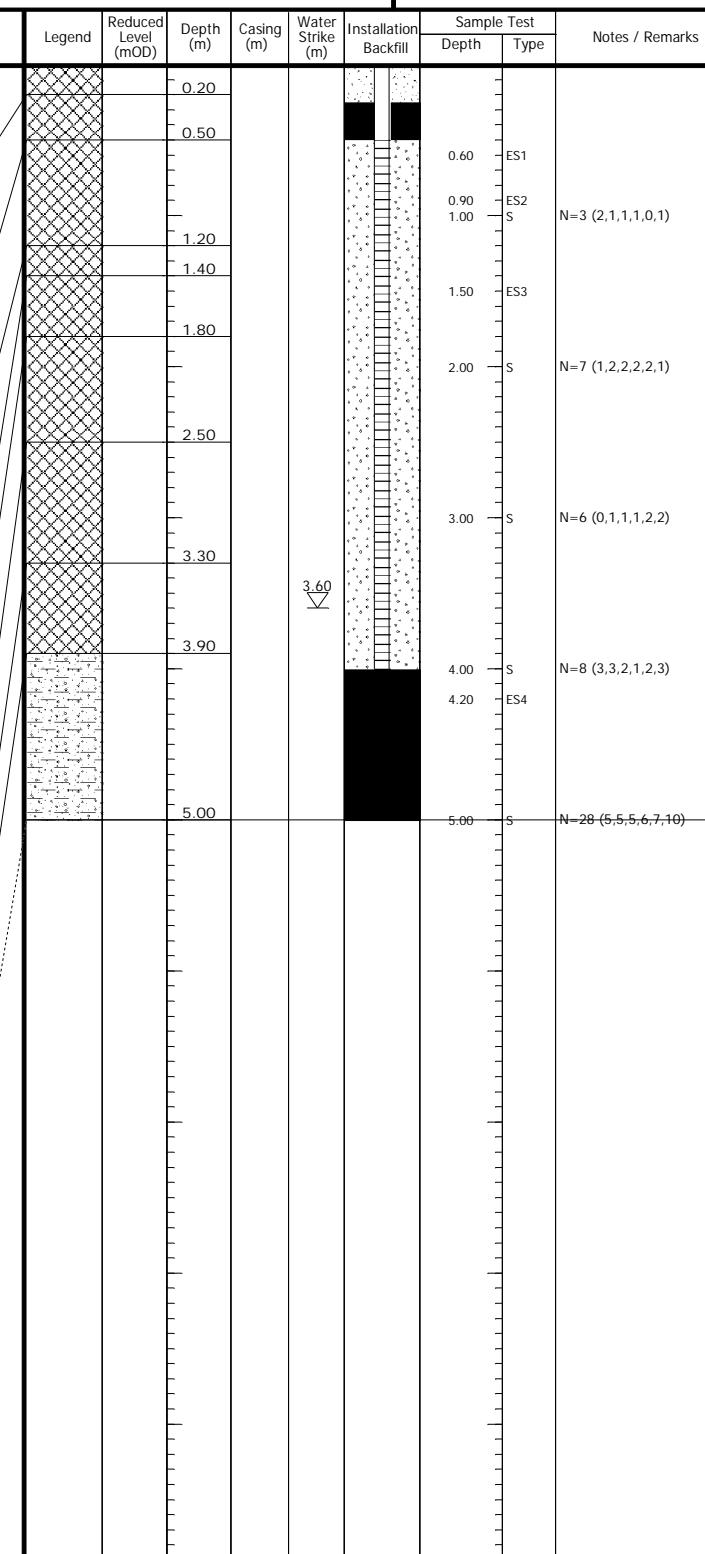
Exploratory Hole Number

WS304

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 : 20/08/13
Finish Date : 20/08/13

Strata Description



Observations / Remarks

1. Hole drilled on Plot 3.
2. Hand dug pit to 1.2m bgl prior to drilling.
3. Damp strata observed at 3.6m bgl.
4. On completion, hole installed with 50mm monitoring well with response zone from 0.5-4.0m bgl.

WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH

Tel. 0161 872 3223 Fax. 0161 872 3193

Exploratory Hole Number

TP301

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)	Water Strike (m)	Installation/Backfill	Sample Test	Notes / Remarks
					Depth	

Grass over MADE GROUND: Dark brown slightly gravelly fine to coarse SAND with rootlets. Gravel is angular fine and medium sandstone and glass.

MADE GROUND: Black slightly gravelly fine to coarse SAND of ash. Gravel is angular fine to coarse sandstone, glass, brick, slag and ash.

At 1m bgl: Boulders of brick and sandstone.

Stiff brown grey slightly sandy CLAY.

End of Trial Pit at 4.00 m bgl.

Observations / Remarks

1. Trial pit excavated on Plot 3.
2. Groundwater observed at 3.9m bgl.
3. Hole backfilled with arisings on completion.

Excavation Information

Length : 3.00m
 Width : 0.50m
 Orientation : 45°
 Shoring :
 Stability : Stable

Groundwater

Struck	Rising to	Time (mins)	Remarks
--------	-----------	-------------	---------

3.90	3.80	5mins	
------	------	-------	--

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 : 19/08/13 Finish Date : 19/08/13		
Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Water Strike (m)	Installation/ Backfill	Sample Test		Notes / Remarks
						Depth	Type	
Grass over MADE GROUND: Light brown slightly gravelly fine to coarse SAND. Gravel is angular fine and medium sandstone.			0.20					
MADE GROUND: Black slightly gravelly fine to coarse SAND with rootlets and pockets of clay. Gravel is angular fine to coarse ash, slag and brick			0.60			0.50	ES1	
MADE GROUND: Stiff brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is angular fine and medium sandstone, mudstone, brick, nails and glass.						0.80	ES2	
Very high strength at 3m bgl: Hand Vane = 215kPa.			3.20			0.80	D3	
Stiff brown mottled grey slightly sandy slightly gravelly CLAY with frequent fine to coarse sand lenses. Gravel is angular fine and medium mudstone and coal.			3.70			3.50	ES5	
						3.50	D6	
						3.50	B7	
End of Trial Pit at 3.70 m bgl.								
Observations / Remarks			Excavation Information			Groundwater		
1. Trial pit excavated on Plot 3. 2. Groundwater not observed. 3. Hole backfilled with arisings on completion.			Length : 3.00m Width : 0.50m Orientation : 45° Shoring : Stability : Stable			Struck	Rising to	Time (mins)

<p>Project : Weir Pumps, Newton Heath Project Number : A083215 Client : HCA Method : Machine Excavator Co-ordinates : Level : </p>						<p>Scale 1:50 Sheet 1 of 1 Logged By : AC Checked By: RAJ Start Date : 20/08/13 Finish Date : 20/08/13</p>																
Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Water Strike (m)	Installation/ Backfill	Sample Test		Notes / Remarks														
						Depth	Type															
Grass over MADE GROUND: Dark brown slightly gravelly fine to coarse SAND with rootlets. Gravel is angular fine to coarse ceramic, glass and sandstone.			0.20 0.40			0.30 0.60	ES1 ES2															
MADE GROUND: Brown slightly gravelly fine to coarse SAND of ash with clay pockets. Gravel is angular fine to coarse clinker, sandstone and glass.																						
MADE GROUND: Firm to stiff brown slightly gravelly CLAY with medium cobble content of brick. Gravel is angular fine to coarse brick, coal, clinker and sandstone.																						
<p>At 1.4m bgl: Boulders of red sandstone.</p> <p>Very high strength at 3m bgl: Hand Vane = 180kPa</p> <p>Stiff grey mottled brown slightly silty CLAY with occasional fine to coarse sand pockets.</p> <p>End of Trial Pit at 4.00 m bgl.</p>																						
						<p>Sample Test</p> <table border="1"> <thead> <tr> <th>Depth</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>0.30</td> <td>ES1</td> </tr> <tr> <td>0.60</td> <td>ES2</td> </tr> <tr> <td>2.30</td> <td>ES3</td> </tr> <tr> <td>3.60</td> <td>ES4</td> </tr> <tr> <td>3.60</td> <td>D5</td> </tr> <tr> <td>3.60</td> <td>D6</td> </tr> </tbody> </table>			Depth	Type	0.30	ES1	0.60	ES2	2.30	ES3	3.60	ES4	3.60	D5	3.60	D6
Depth	Type																					
0.30	ES1																					
0.60	ES2																					
2.30	ES3																					
3.60	ES4																					
3.60	D5																					
3.60	D6																					
Observations / Remarks						Excavation Information		Groundwater														
<p>1. Trial pit excavated on Plot 3. 2. Groundwater observed at 4m bgl. 3. Hole backfilled with arisings on completion.</p>						Length : 3.00m Width : 0.50m Orientation : 45° Shoring : Stability : Stable	Struck : 4.00 Rising to : - Time (mins) : -mins	Remarks														

WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH

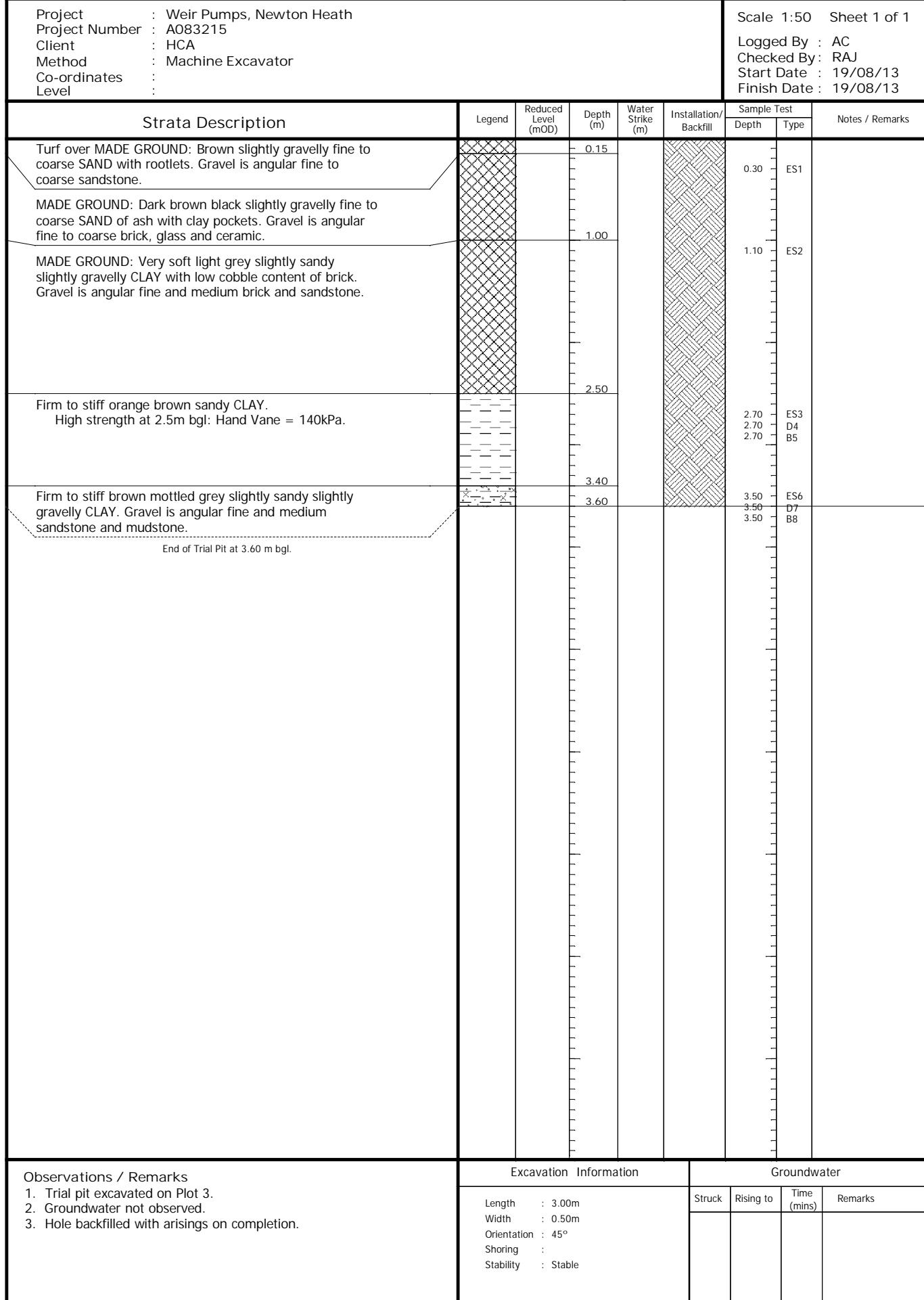
Tel. 0161 872 3223 Fax. 0161 872 3193

Exploratory Hole Number

TP304

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 : 19/08/13
 Finish Date : 19/08/13



WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH

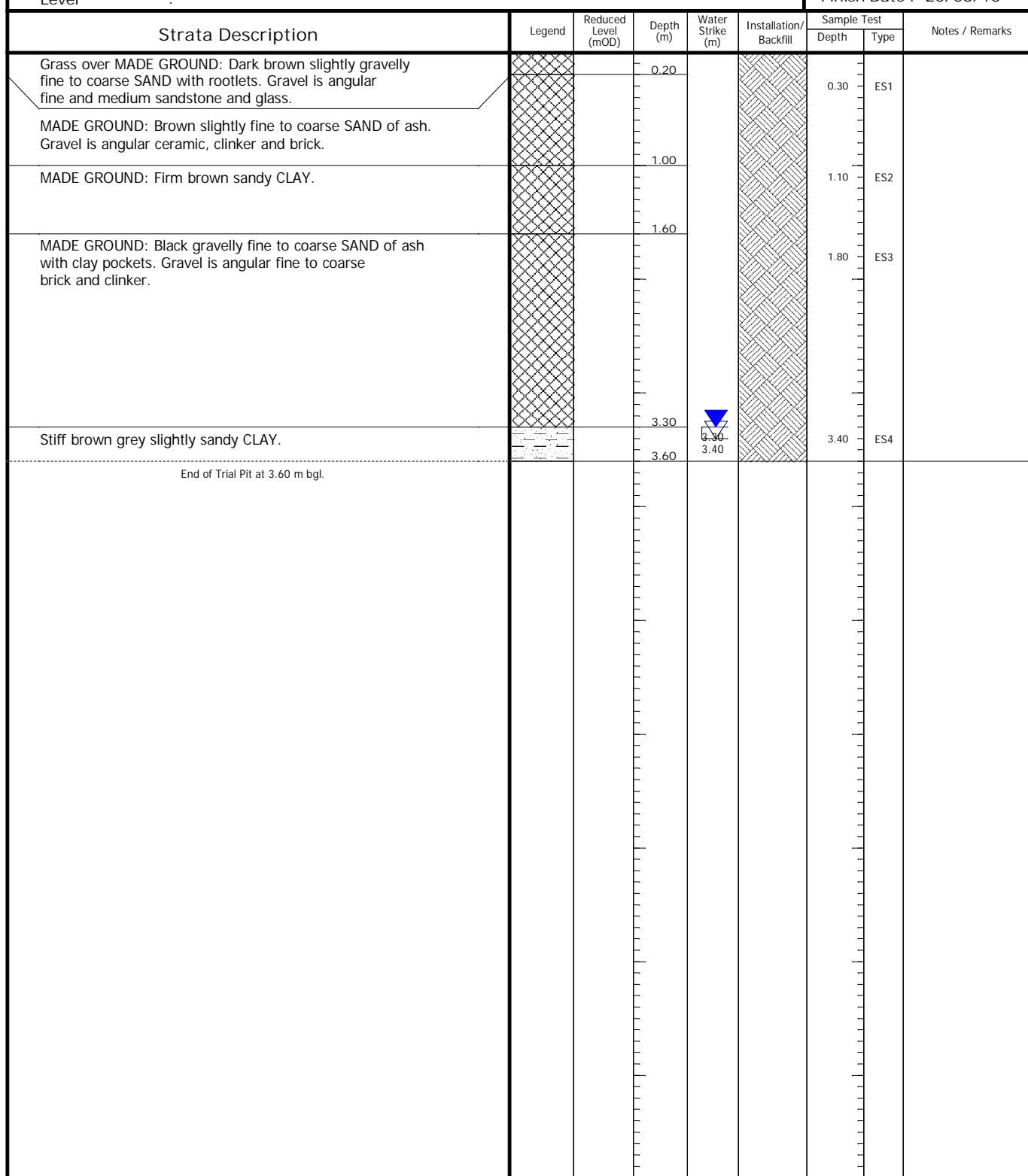
Tel. 0161 872 3223 Fax. 0161 872 3193

Exploratory Hole Number

TP305

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



Observations / Remarks

1. Trial pit excavated on Plot 3.
2. Groundwater observed at 3.4m bgl.
3. Hole backfilled with arisings on completion.

Excavation Information

Length : 3.00m
 Width : 0.50m
 Orientation : 45°
 Shoring :
 Stability : Stable

Struck	Rising to	Time (mins)	Remarks
3.40	3.30	5mins	

Groundwater



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 13/7629 Batch 1
Location : NEWTON HEATH
Date samples received : 21st August, 2013
Status : Final report
Issue : 1

Ten samples were received for analysis on 21st 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

Jones Environmental Laboratory
Client Name: WYG

Report : Solid
Reference: A083215

Location: NEWTON HEATH

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Contact: John Taylor

JE Job No.: 13/7629

J E Sample No.	1-2	3-4	5-6	7-8	15-16	17-18	19-20				
Sample ID	WS303	WS303	WS302	WS302	WS404	WS402	WS402				
Depth	2.0	0.5	1.0	0.5	1.0	1.3	0.5				
COC No / misc											
Containers	V J	V J	V J	V J	V J	V J	V J				
Sample Date	15/08/2013	15/08/2013	15/08/2013	15/08/2013	15/08/2013	15/08/2013	15/08/2013				
Sample Type	Soil										
Batch Number	1	1	1	1	1	1	1				
Date of Receipt	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013				
Arsenic #M	9.8	27.9	10.9	-	135.9	31.3	-				
Arsenic	-	-	-	40.6	-	-	28.8				
Cadmium #M	<0.1	<0.1	0.6	-	<0.1	<0.1	-				
Cadmium	-	-	-	4.3	-	-	5.0				
Chromium #M	20.2	53.8	25.8	-	25.0	23.8	-				
Chromium	-	-	-	65.1	-	-	21.5				
Copper #M	11	50	285	-	293	76	-				
Copper	-	-	-	1830	-	-	285				
Lead #M	25	53	83	-	988	167	-				
Lead	-	-	-	960	-	-	263				
Mercury #M	<0.1	<0.1	<0.1	-	4.0	0.4	-				
Mercury	-	-	-	0.7	-	-	3.6				
Nickel #M	18.7	27.4	33.4	-	35.3	26.3	-				
Nickel	-	-	-	58.3	-	-	35.9				
Selenium #M	2	2	1	-	4	2	-				
Selenium	-	-	-	4	-	-	2				
Water Soluble Boron #M	0.4	0.9	1.2	-	6.8	2.1	-				
Water Soluble Boron	-	-	-	0.9	-	-	0.8				
Zinc #M	22	34	153	-	259	66	-				
Zinc	-	-	-	697	-	-	304				
PAH MS											
Naphthalene #M	0.21	0.08	0.06	<0.04	0.82	0.15	0.20				
Acenaphthylene	<0.03	<0.03	0.05	0.09	0.17	0.11	0.14				
Acenaphthene #M	<0.05	<0.05	<0.05	<0.05	0.40	0.24	0.40				
Fluorene #M	0.04	<0.04	0.05	0.05	0.37	0.23	0.34				
Phenanthrene #M	0.31	0.11	0.62	0.64	3.91	2.46	2.95				
Anthracene #	0.04	<0.04	0.21	0.22	0.86	0.44	0.79				
Fluoranthene #M	0.35	0.22	1.55	0.89	5.33	3.46	4.71				
Pyrene #	0.21	0.14	1.00	0.84	5.08	3.30	4.15				
Benzo(a)anthracene #	<0.06	0.09	0.47	0.46	2.46	1.42	1.99				
Chrysene #M	0.05	0.09	0.55	0.51	2.88	1.87	2.24				
Benzo(bk)fluoranthene #M	<0.07	0.10	0.66	0.80	3.80	2.30	3.45				
Benzo(a)pyrene #	<0.04	0.07	0.49	0.60	2.64	1.63	2.28				
Indeno(123cd)pyrene #M	<0.04	0.04	0.26	0.37	1.29	0.82	1.29				
Dibeno(ah)anthracene #	<0.04	<0.04	0.06	0.07	0.16	0.14	0.17				
Benzo(ghi)perylene #	<0.04	0.04	0.21	0.38	1.30	0.84	1.30				
PAH 16 Total	1.2	1.0	6.2	5.9	31.5	19.4	26.4				
Benzo(b)fluoranthene	<0.05	0.07	0.48	0.58	2.74	1.66	2.48				
Benzo(k)fluoranthene	<0.02	0.03	0.18	0.22	1.06	0.64	0.97				
PAH Surrogate % Recovery	108	100	74	96	86	87	91				
EPH >C8-C10 #M	<5	<5	<5	<5	<5	<5	<5				
EPH >C10-C12 #M	<10	<10	<10	<10	<10	<10	<10				

Please see attached notes for all abbreviations and acronyms

Jones Environmental Laboratory

Client Name: WYG

Report : Solid

Reference: A083215

Location: NEWTON HEATH

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Contact: John Taylor

JE Job No.: 13/7629

J E Sample No. 1-2

J E Sample No.	1-2	3-4	5-6	7-8	15-16	17-18	19-20					
Sample ID	WS303	WS303	WS302	WS302	WS404	WS402	WS402					
Depth	2.0	0.5	1.0	0.5	1.0	1.3	0.5					
COC No / misc												
Containers	V J	V J	V J	V J	V J	V J	V J					
Sample Date	15/08/2013	15/08/2013	15/08/2013	15/08/2013	15/08/2013	15/08/2013	15/08/2013					
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil					
Batch Number	1	1	1	1	1	1	1					
Date of Receipt	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013					
EPH >C12-C16 #M	<10	<10	<10	<10	15	13	<10			<10	mg/kg	TM5/PM8
EPH >C16-C21 #M	<10	<10	20	70	129	85	88			<10	mg/kg	TM5/PM8
EPH >C21-C40	32	<10	207	497	610	439	639			<10	mg/kg	TM5/PM8
EPH >C8-C40	32	<30	227	567	754	537	727			<30	mg/kg	TM5/PM8
TPH CWG												
Aliphatics												
>C5-C6 #M	-	0.1	-	<0.1	<0.1	-	<0.1			<0.1	mg/kg	TM36/PM12
>C6-C8 #M	-	0.6	-	<0.1	<0.1	-	<0.1			<0.1	mg/kg	TM36/PM12
>C8-C10	-	0.3	-	<0.1	<0.1	-	<0.1			<0.1	mg/kg	TM36/PM12
>C10-C12 #M	-	<0.2	-	<0.2	<0.2	-	<0.2			<0.2	mg/kg	TM5/PM16
>C12-C16 #M	-	<4	-	<4	<4	-	<4			<4	mg/kg	TM5/PM16
>C16-C21 #M	-	<7	-	<7	<7	-	<7			<7	mg/kg	TM5/PM16
>C21-C35 #M	-	<7	-	<7	<7	-	76			<7	mg/kg	TM5/PM16
Total aliphatics C5-35	-	<19	-	<19	<19	-	76			<19	mg/kg	TM5/PM16
Aromatics												
>C5-EC7	-	<0.1	-	<0.1	<0.1	-	<0.1			<0.1	mg/kg	TM36/PM12
>EC7-EC8	-	<0.1	-	<0.1	<0.1	-	<0.1			<0.1	mg/kg	TM36/PM12
>EC8-EC10 #M	-	<0.1	-	<0.1	<0.1	-	<0.1			<0.1	mg/kg	TM36/PM12
>EC10-EC12 #M	-	<0.2	-	<0.2	<0.2	-	<0.2			<0.2	mg/kg	TM5/PM16
>EC12-EC16 #M	-	<4	-	<4	11	-	<4			<4	mg/kg	TM5/PM16
>EC16-EC21 #M	-	<7	-	<7	84	-	26			<7	mg/kg	TM5/PM16
>EC21-EC35 #M	-	<7	-	<7	237	-	170			<7	mg/kg	TM5/PM16
Total aromatics C5-35	-	<19	-	<19	332	-	196			<19	mg/kg	TM5/PM16
Total aliphatics and aromatics(C5-35)	-	<38	-	<38	332	-	272			<38	mg/kg	TM5/PM16
MTBE #	-	<5	-	<5	<5	-	<5			<5	ug/kg	TM31/PM12
Benzene #	-	10	-	<5	<5	-	<5			<5	ug/kg	TM31/PM12
Toluene #	-	22	-	<5	<5	-	<5			<5	ug/kg	TM31/PM12
Ethylbenzene #	-	<5	-	<5	<5	-	<5			<5	ug/kg	TM31/PM12
m/p-Xylene #	-	10	-	<5	<5	-	<5			<5	ug/kg	TM31/PM12
o-Xylene #	-	<5	-	<5	<5	-	<5			<5	ug/kg	TM31/PM12
Total Phenols HPLC	<0.15	<0.15	<0.15	x10 Dilution	<1.50	x10 Dilution	<1.50	<0.15		<0.15	mg/kg	TM26/PM21
Hexavalent Chromium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3			<0.3	mg/kg	TM38/PM20
Sulphate as SO4 (2:1 Ext) #M	0.4143	0.3133	0.0342	-	0.1555	0.3170	-			<0.0015	g/l	TM38/PM20
Sulphate as SO4 (2:1 Ext) #M	-	-	-	0.5106	-	-	0.1932			<0.0015	g/l	TM38/PM60
Free Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	mg/kg	TM89/PM45
Fraction Organic Carbon	-	0.190	-	-	0.142	-	-			<0.001	None	TM21/PM24
pH #M	6.87	5.41	7.89	7.52	6.97	7.10	8.00			<0.01	pH units	TM73/PM11

Please see attached notes for all abbreviations and acronyms

Please include all sections of this report if it is reproduced.

OF-PM 3.1.2 v10

All solid results are expressed on a dry weight basis unless stated otherwise.

Jones Environmental Laboratory

Client Name: WYG

Report : Solid

Reference: A083215

Location: NEWTON HEATH

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Contact: John Taylor

JE Job No.: 13/7629

J E Sample No. 1-2

J.E Sample No.	1-2	3-4	5-6	7-8	13-14	17-18	19-20				
Sample ID	WS303	WS303	WS302	WS302	WS404	WS402	WS402				
Depth	2.0	0.5	1.0	0.5	1.0	1.3	0.5				
COC No / misc											
Containers	V J	V J	V J	V J	V J	V J	V J				
Sample Date	15/08/2013	15/08/2013	15/08/2013	15/08/2013	15/08/2013	15/08/2013	15/08/2013				
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Batch Number	1	1	1	1	1	1	1				
Date of Receipt	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013				
Sample Type	Sandy Loam	Sandy Loam	Clay	Clay	Clay	Clay	Loamy Sand				None PM13/PM0
Sample Colour	Dark Brown	Dark Brown	Medium Grey	Dark Brown	Dark Brown	Dark Brown	Medium Brown				None PM13/PM0
Other Items	grass and stones	stones	stones	sand and stones	sand and stones	sand and stones	stones and brick				None PM13/PM0

Please include all sections of this report if it is reproduced.

OF-PM 3.1.2 v10

All solid results are expressed on a dry weight basis unless stated otherwise.

Jones Environmental Laboratory

Asbestos Analysis

Client Name: WYG
Reference: A083215
Location: NEWTON HEATH
Contact: John Taylor

Note:

Analysis was carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions lie outside the scope of our UKAS accreditation.

Where the sample is not taken by a Jones Environmental Laboratory consultant, Jones Environmental Laboratory cannot be responsible for inaccurate or unrepresentative sampling.

If asbestos fibres are reported at trace levels there will not be enough fibres to quantify and will be less than 0.001%.

Signed on behalf of Jones Environmental Laboratory:

Essex

Gemma Newsome
Asbestos Team Leader

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 13/7629

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 $35^{\circ}\text{C} \pm 5^{\circ}\text{C}$ unless otherwise stated. Moisture content for CEN Leachate tests are dried at $105^{\circ}\text{C} \pm 5^{\circ}\text{C}$.

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

JE Job No 13/7629



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 13/7633 Batch 1
Location : NEWTON HEATH
Date samples received : 21st August, 2013
Status : Final report
Issue : 1

Twenty four samples were received for analysis on 21st 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

Jones Environmental Laboratory
Client Name: WYG

Report : Solid
Reference: A083215

Location: NEWTON HEATH

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Contact: John Taylor

JE Job No.: 13/7633

J E Sample No.	7-8	11-12	13-14	17-18	35-36	43-44	45-46				
Sample ID	TP401	TP402	TP402	TP403	TP302	TP304	TP404				
Depth	0.5	0.5	1.2	0.5	0.5	1.1	1.9				
COC No / misc											
Containers	V J	V J	V J	V J	V J	V J	V J				
Sample Date	19/08/2013	19/08/2013	19/08/2013	19/08/2013	19/08/2013	19/08/2013	19/08/2013				
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Batch Number	1	1	1	1	1	1	1				
Date of Receipt	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013				
Arsenic #M	111.5	45.8	16.5	-	27.5	36.4	15.6				
Arsenic	-	-	-	39.0	-	-	-				
Cadmium #M	1.7	0.2	0.1	-	<0.1	0.3	1.0				
Cadmium	-	-	-	1.4	-	-	-				
Chromium #M	69.5	23.4	21.4	-	13.2	26.0	41.8				
Chromium	-	-	-	35.6	-	-	-				
Copper #M	2915	77	40	-	80	304	32				
Copper	-	-	-	265	-	-	-				
Lead #M	2124	85	89	-	18	272	22				
Lead	-	-	-	3351	-	-	-				
Mercury #M	3.1	<0.1	<0.1	-	<0.1	0.2	<0.1				
Mercury	-	-	-	0.5	-	-	-				
Nickel #M	80.0	45.7	23.5	-	41.5	29.5	64.8				
Nickel	-	-	-	60.4	-	-	-				
Selenium #M	5	<1	1	-	3	2	1				
Selenium	-	-	-	1	-	-	-				
Water Soluble Boron #M	4.6	0.9	4.5	-	0.4	2.0	6.9				
Water Soluble Boron	-	-	-	2.3	-	-	-				
Zinc #M	2234	111	77	-	60	144	79				
Zinc	-	-	-	572	-	-	-				
PAH MS		x5 Dilution									
Naphthalene #M	1.50	<0.20	<0.04	1.12	<0.04	0.08	0.16				
Acenaphthylene	1.60	<0.15	<0.03	0.40	0.04	<0.03	0.08				
Acenaphthene #M	1.53	0.47	<0.05	1.30	<0.05	0.11	0.14				
Fluorene #M	1.11	0.30	<0.04	1.05	<0.04	0.05	0.17				
Phenanthrene #M	13.34	4.48	0.07	7.53	0.19	0.98	0.90				
Anthracene #	4.65	0.92	<0.04	2.17	0.06	0.20	0.26				
Fluoranthene #M	40.90	10.29	0.11	11.88	0.38	1.91	1.20				
Pyrene #	29.47	6.74	0.09	10.79	0.43	1.75	1.19				
Benzo(a)anthracene #	12.04	2.81	0.08	5.31	0.24	0.89	0.60				
Chrysene #M	15.26	3.40	0.08	6.00	0.24	1.06	0.65				
Benzo(bk)fluoranthene #M	21.62	4.17	0.09	9.39	0.38	1.49	0.85				
Benzo(a)pyrene #	13.19	2.56	0.07	6.50	0.28	0.90	0.66				
Indeno(123cd)pyrene #M	7.53	1.64	<0.04	3.47	0.20	0.54	0.30				
Dibenzo(ah)anthracene #	1.97	0.36	<0.04	0.33	<0.04	0.07	0.05				
Benzo(ghi)perylene #	7.10	1.39	<0.04	3.57	0.20	0.48	0.30				
PAH 16 Total	172.8	39.5	<0.6	70.8	2.6	10.5	7.5				
Benzo(b)fluoranthene	15.57	3.00	0.06	6.76	0.27	1.07	0.61				
Benzo(k)fluoranthene	6.05	1.17	0.03	2.63	0.11	0.42	0.24				
PAH Surrogate % Recovery	101	100	86	94	90	100	89				
EPH >C8-C10 #M	<5	<5	<5	<5	<5	<5	<5				
EPH >C10-C12 #M	<10	<10	<10	<10	<10	<10	<10				

Please see attached notes for all abbreviations and acronyms

Jones Environmental Laboratory

Client Name: WYG

Report : Solid

Reference: A083215

Location: NEWTON HEATH

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Contact: John Taylor

JE Job No.: 13/7633

J E Sample No.	7-8	11-12	13-14	17-18	35-36	43-44	45-46				
Sample ID	TP401	TP402	TP402	TP403	TP302	TP304	TP404				
Depth	0.5	0.5	1.2	0.5	0.5	1.1	1.9				
COC No / misc											
Containers	V J	V J	V J	V J	V J	V J	V J				
Sample Date	19/08/2013	19/08/2013	19/08/2013	19/08/2013	19/08/2013	19/08/2013	19/08/2013				
Sample Type	Soil										
Batch Number	1	1	1	1	1	1	1				
Date of Receipt	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013				
EPH >C12-C16 #M	16	<10	<10	35	<10	<10	<10				
EPH >C16-C21 #M	176	25	<10	307	<10	<10	<10				
EPH >C21-C40	1161	1019	52	2947	<10	131	98				
EPH >C8-C40	1353	1044	52	3289	<30	131	98				
TPH CWG											
Aliphatics											
>C5-C6 #M	-	-	-	<0.1	-	-	<0.1				
>C6-C8 #M	-	-	-	<0.1	-	-	<0.1				
>C8-C10	-	-	-	<0.1	-	-	<0.1				
>C10-C12 #M	-	-	-	<0.2	-	-	<0.2				
>C12-C16 #M	-	-	-	<4	-	-	<4				
>C16-C21 #M	-	-	-	60	-	-	<7				
>C21-C35 #M	-	-	-	1183	-	-	<7				
Total aliphatics C5-35	-	-	-	1243	-	-	<19				
Aromatics											
>C5-EC7	-	-	-	<0.1	-	-	<0.1				
>EC7-EC8	-	-	-	<0.1	-	-	<0.1				
>EC8-EC10 #M	-	-	-	<0.1	-	-	<0.1				
>EC10-EC12 #M	-	-	-	<0.2	-	-	<0.2				
>EC12-EC16 #M	-	-	-	15	-	-	<4				
>EC16-EC21 #M	-	-	-	110	-	-	<7				
>EC21-EC35 #M	-	-	-	621	-	-	<7				
Total aromatics C5-35	-	-	-	746	-	-	<19				
Total aliphatics and aromatics(C5-35)	-	-	-	1989	-	-	<38				
MTBE #	-	-	-	<5	-	-	<5				
Benzene #	-	-	-	<5	-	-	<5				
Toluene #	-	-	-	<5	-	-	<5				
Ethylbenzene #	-	-	-	<5	-	-	<5				
m/p-Xylene #	-	-	-	<5	-	-	<5				
o-Xylene #	-	-	-	<5	-	-	<5				
Total Phenols HPLC	<0.15	<0.15	<0.15	0.34	<0.15	<1.50	<0.15				
Hexavalent Chromium	0.4	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3				
Sulphate as SO4 (2:1 Ext) #M	0.2304	0.0336	0.3007	-	0.0454	0.1295	0.3116				
Sulphate as SO4 (2:1 Ext) #M	-	-	-	0.5022	-	-	-				
Free Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
Fraction Organic Carbon	-	-	-	-	-	-	0.057				
pH #M	7.37	8.59	6.96	7.78	6.20	6.68	6.67				

Please see attached notes for all abbreviations and acronyms

Please include all sections of this report if it is reproduced

Jones Environmental Laboratory

Client Name: WYG

Report : Solid

Reference: A083215

Location: NEWTON HEATH

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Contact: John Taylor

JE Job No.: 13/7633

J E Sample No. 7-8

J.E Sample No.	7-8	11-12	13-14	17-18	33-35	43-44	45-46					
Sample ID	TP401	TP402	TP402	TP403	TP302	TP304	TP404					
Depth	0.5	0.5	1.2	0.5	0.5	1.1	1.9					
COC No / misc												
Containers	V J	V J	V J	V J	V J	V J	V J					
Sample Date	19/08/2013	19/08/2013	19/08/2013	19/08/2013	19/08/2013	19/08/2013	19/08/2013					
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil					
Batch Number	1	1	1	1	1	1	1					
Date of Receipt	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013					
Sample Type	Clayey Loam	Clayey Sand	Clay	Clayey Sand	Clayey Loam	Clay	Clay				None	PM13/PM0
Sample Colour	Black	Medium Brown	Dark Grey	Black	Black	Black	Black				None	PM13/PM0
Other Items	stones	stones	stones	stones	stones	stones	stones				None	PM13/PM0

Please include all sections of this report if it is reproduced.

OE-PM 3.1.2 v10

All solid results are expressed on a dry weight basis unless stated otherwise.

Jones Environmental Laboratory**Asbestos Analysis**

Client Name: WYG
Reference: A083215
Location: NEWTON HEATH
Contact: John Taylor

Note:

Analysis was carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions lie outside the scope of our UKAS accreditation.

Where the sample is not taken by a Jones Environmental Laboratory consultant, Jones Environmental Laboratory cannot be responsible for inaccurate or unrepresentative sampling.

If asbestos fibres are reported at trace levels there will not be enough fibres to quantify and will be less than 0.001%.

Signed on behalf of Jones Environmental Laboratory:



Gemma Newsome
Asbestos Team Leader

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	Date Of Analysis	Description	Asbestos Results	
13/7633	1	TP403	0.5	17-18	30/08/13	Soil/Stone/Brick/Silt-Fibre bundles	Chrysotile	
13/7633	1	TP404	1.9	45-46	30/08/13	Soil/Stone/Brick	NAD	

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 13/7633

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 $35^{\circ}\text{C} \pm 5^{\circ}\text{C}$ unless otherwise stated. Moisture content for CEN Leachate tests are dried at $105^{\circ}\text{C} \pm 5^{\circ}\text{C}$.

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

JE Job No 13/7633



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 : 19th 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

Jones Environmental Laboratory

Client Name: WYG

Report : Solid

Reference: A083215

Location: Weir Pumps Site Newton Heath

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Contact: John Taylor

JE Job No.: 13/7670

J E Sample No.	1-2	9-10	18-19	20-21	39-40	41-42					
Sample ID	TP101 ES1	TP303 ES2	TP301 ES2	TP301 ES3	WS101	WS102					
Depth	0.2	0.6	1.5	3.4	0.7	0.4					
COC No / misc											
Containers	V J	V J	V J	V J	V J	V J					
Sample Date	20/08/2013	20/08/2013	20/08/2013	20/08/2013	20/08/2013	20/08/2013					
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil					
Batch Number	1	1	1	1	1	1					
Date of Receipt	22/08/2013	22/08/2013	22/08/2013	22/08/2013	22/08/2013	22/08/2013					
Arsenic #M	15.5	8.9	13.8	8.5	5.0	10.8				<0.5	mg/kg
Cadmium #M	0.4	0.2	0.2	0.1	0.1	0.5				<0.1	mg/kg
Chromium #M	16.6	28.9	84.7	37.2	52.1	15.8				<0.5	mg/kg
Copper #M	44	35	104	25	29	42				<1	mg/kg
Lead #M	207	85	54	19	29	129				<5	mg/kg
Mercury #M	1.3	<0.1	<0.1	<0.1	<0.1	1.5				<0.1	mg/kg
Nickel #M	19.4	37.8	24.2	46.8	33.7	23.1				<0.7	mg/kg
Selenium #M	<1	1	<1	1	1	<1				<1	mg/kg
Water Soluble Boron #M	0.5	0.9	0.7	1.3	2.1	0.9				<0.1	mg/kg
Zinc #M	392	99	73	71	87	175				<5	mg/kg
PAH MS											
Naphthalene #M	2.15	<0.04	0.60	<0.04	<0.04	2.30				<0.04	mg/kg
Acenaphthylene	0.64	<0.03	0.09	<0.03	<0.03	0.85				<0.03	mg/kg
Acenaphthene #M	1.44	<0.05	0.57	<0.05	<0.05	2.00				<0.05	mg/kg
Fluorene #M	1.56	<0.04	0.44	<0.04	<0.04	1.45				<0.04	mg/kg
Phenanthrene #M	13.11	0.07	3.71	<0.03	0.17	20.86				<0.03	mg/kg
Anthracene #	3.78	<0.04	0.58	<0.04	<0.04	5.09				<0.04	mg/kg
Fluoranthene #M	20.89	0.13	5.13	0.04	0.41	45.76				<0.03	mg/kg
Pyrene #	14.41	0.10	5.02	0.04	0.35	34.21				<0.03	mg/kg
Benzo(a)anthracene #	5.64	0.07	2.24	<0.06	0.14	14.14				<0.06	mg/kg
Chrysene #M	6.37	0.07	2.85	0.04	0.20	16.52				<0.02	mg/kg
Benzo(bk)fluoranthene #M	8.23	0.11	3.93	<0.07	0.21	23.23				<0.07	mg/kg
Benzo(a)pyrene #	5.34	0.07	2.56	<0.04	0.15	15.40				<0.04	mg/kg
Indeno(123cd)pyrene #M	2.57	<0.04	1.25	<0.04	0.08	6.69				<0.04	mg/kg
Dibenzo(ah)anthracene #	0.55	<0.04	0.27	<0.04	<0.04	0.93				<0.04	mg/kg
Benzo(ghi)perylene #	2.94	0.05	1.46	<0.04	0.13	8.88				<0.04	mg/kg
PAH 16 Total	89.6	0.7	30.7	<0.6	1.8	198.3				<0.6	mg/kg
Benzo(b)fluoranthene	5.93	0.08	2.83	<0.05	0.15	16.73				<0.05	mg/kg
Benzo(k)fluoranthene	2.30	0.03	1.10	<0.02	0.06	6.50				<0.02	mg/kg
PAH Surrogate % Recovery	99	97	106	95	98	99				<0	%
EPH >C8-C10 #M	<5	<5	<5	<5	<5	<5				<5	mg/kg
EPH >C10-C12 #M	<10	<10	<10	<10	<10	<10				<10	mg/kg
EPH >C12-C16 #M	17	<10	<10	<10	<10	15				<10	mg/kg
EPH >C16-C21 #M	104	<10	61	<10	<10	136				<10	mg/kg
EPH >C21-C40	580	<10	236	<10	<10	473				<10	mg/kg
EPH >C8-C40	701	<30	297	<30	<30	624				<30	mg/kg

Please see attached notes for all abbreviations and acronyms

Please include all sections of this report if it is reproduced

Jones Environmental Laboratory

Client Name: WYG

Report : Solid

Reference: A083215

Location: Weir Pumps Site Newton Heath

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Contact: John Taylor

JE Job No.: 13/7670

J E Sample No.	1-2	9-10	18-19	20-21	39-40	41-42					
Sample ID	TP101 ES1	TP303 ES2	TP301 ES2	TP301 ES3	WS101	WS102					
Depth	0.2	0.6	1.5	3.4	0.7	0.4					
COC No / misc											
Containers	V J	V J	V J	V J	V J	V J					
Sample Date	20/08/2013	20/08/2013	20/08/2013	20/08/2013	20/08/2013	20/08/2013					
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil					
Batch Number	1	1	1	1	1	1					
Date of Receipt	22/08/2013	22/08/2013	22/08/2013	22/08/2013	22/08/2013	22/08/2013					
TPH CWG											
Aliphatics											
>C5-C6 #M	-	<0.1	<0.1	<0.1	<0.1	-				<0.1	mg/kg
>C6-C8 #M	-	<0.1	<0.1	<0.1	<0.1	-				<0.1	mg/kg
>C8-C10	-	<0.1	<0.1	<0.1	<0.1	-				<0.1	mg/kg
>C10-C12 #M	-	<0.2	<0.2	<0.2	<0.2	-				<0.2	mg/kg
>C12-C16 #M	-	<4	<4	<4	<4	-				<4	mg/kg
>C16-C21 #M	-	<7	<7	<7	<7	-				<7	mg/kg
>C21-C35 #M	-	<7	<7	<7	<7	-				<7	mg/kg
Total aliphatics C5-35	-	<19	<19	<19	<19	-				<19	mg/kg
											TM36/PM12
Aromatics											
>C5-EC7	-	<0.1	<0.1	<0.1	<0.1	-				<0.1	mg/kg
>EC7-EC8	-	<0.1	<0.1	<0.1	<0.1	-				<0.1	mg/kg
>EC8-EC10 #M	-	<0.1	<0.1	<0.1	<0.1	-				<0.1	mg/kg
>EC10-EC12 #M	-	<0.2	<0.2	<0.2	<0.2	-				<0.2	mg/kg
>EC12-EC16 #M	-	<4	6	<4	<4	-				<4	mg/kg
>EC16-EC21 #M	-	<7	47	<7	<7	-				<7	mg/kg
>EC21-EC35 #M	-	<7	127	<7	<7	-				<7	mg/kg
Total aromatics C5-35	-	<19	180	<19	<19	-				<19	mg/kg
Total aliphatics and aromatics(C5-35)	-	<38	180	<38	<38	-				<38	mg/kg
											TM5/PM16
MTBE #	-	<5	<5	<5	<5	-				<5	ug/kg
Benzene #	-	<5	<5	<5	<5	-				<5	ug/kg
Toluene #	-	<5	<5	<5	<5	-				<5	ug/kg
Ethylbenzene #	-	<5	<5	<5	<5	-				<5	ug/kg
m/p-Xylene #	-	<5	<5	<5	<5	-				<5	ug/kg
o-Xylene #	-	<5	<5	<5	<5	-				<5	ug/kg
Total Phenols HPLC	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15				<0.15	mg/kg
Hexavalent Chromium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3				<0.3	mg/kg
Sulphate as SO4 (2:1 Ext) #M	0.0538	0.0098	0.0662	0.0401	0.0847	0.1101				<0.0015	g/l
Free Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				<0.5	mg/kg
Fraction Organic Carbon	-	0.017	0.044	0.011	0.009	-				<0.001	None
pH #M	8.49	8.44	7.30	7.81	8.08	8.49				<0.01	pH units
Sample Type	Clayey Sand	Clay	Loam	Clay	Clay	Loamy Sand					TM73/PM11
Sample Colour	Medium Brown	Medium Brown	Dark Brown	Medium Brown	Medium Grey	Dark Brown					PM13/PM0
Other Items	stones	stones	stones	coal	none	stones					PM13/PM0

Please see attached notes for all abbreviations and acronyms

Please include all sections of this report if it is reproduced

Jones Environmental Laboratory

Asbestos Analysis

Client Name: WYG
Reference: A083215
Location: Weir Pumps Site Newton Heath
Contact: John Taylor

Note:

Analysis was carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions lie outside the scope of our UKAS accreditation.

Where the sample is not taken by a Jones Environmental Laboratory consultant, Jones Environmental Laboratory cannot be responsible for inaccurate or unrepresentative sampling.

If asbestos fibres are reported at trace levels there will not be enough fibres to quantify and will be less than 0.001%.

Signed on behalf of Jones Environmental Laboratory:

Exhibit 1

Gemma Newsome
Asbestos Team Leader

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 $35^{\circ}\text{C} \pm 5^{\circ}\text{C}$ unless otherwise stated. Moisture content for CEN Leachate tests are dried at $105^{\circ}\text{C} \pm 5^{\circ}\text{C}$.

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

JE Job No 13/7670



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

Jones Environmental Laboratory

Client Name: WYG

Report : Solid

Reference: A083215

Location: WEIR PUMPS SITE NEWTON HEATH

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Contact: John Taylor

JE Job No.: 13/7670

J E Sample No.	1-2	9-10	18-19	20-21	39-40	41-42					
Sample ID	TP101 ES1	TP303 ES2	TP301 ES2	TP301 ES3	WS101	WS102					
Depth	0.2	0.6	1.5	3.4	0.7	0.4					
COC No / misc											
Containers	V J	V J	V J	V J	V J	V J					
Sample Date	20/08/2013	20/08/2013	20/08/2013	20/08/2013	20/08/2013	20/08/2013					
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil					
Batch Number	1	1	1	1	1	1					
Date of Receipt	22/08/2013	22/08/2013	22/08/2013	22/08/2013	22/08/2013	22/08/2013					
Arsenic #M	15.5	8.9	-	8.5	5.0	10.8					
Cadmium #M	0.4	0.2	-	0.1	0.1	0.5					
Chromium #M	16.6	28.9	-	37.2	52.1	15.8					
Copper #M	44	35	-	25	29	42					
Lead #M	207	85	-	19	29	129					
Mercury #M	1.3	<0.1	-	<0.1	<0.1	1.5					
Nickel #M	19.4	37.8	-	46.8	33.7	23.1					
Selenium #M	<1	1	-	1	1	<1					
Water Soluble Boron #M	0.5	0.9	-	1.3	2.1	0.9					
Zinc #M	392	99	-	71	87	175					
PAH MS											
Naphthalene #M	2.15	<0.04	-	<0.04	<0.04	2.30					
Acenaphthylene	0.64	<0.03	-	<0.03	<0.03	0.85					
Acenaphthene #M	1.44	<0.05	-	<0.05	<0.05	2.00					
Fluorene #M	1.56	<0.04	-	<0.04	<0.04	1.45					
Phenanthrene #M	13.11	0.07	-	<0.03	0.17	20.86					
Anthracene #	3.78	<0.04	-	<0.04	<0.04	5.09					
Fluoranthene #M	20.89	0.13	-	0.04	0.41	45.76					
Pyrene #	14.41	0.10	-	0.04	0.35	34.21					
Benzo(a)anthracene #	5.64	0.07	-	<0.06	0.14	14.14					
Chrysene #M	6.37	0.07	-	0.04	0.20	16.52					
Benzo(bk)fluoranthene #M	8.23	0.11	-	<0.07	0.21	23.23					
Benzo(a)pyrene #	5.34	0.07	-	<0.04	0.15	15.40					
Indeno(123cd)pyrene #M	2.57	<0.04	-	<0.04	0.08	6.69					
Dibenzo(ah)anthracene #	0.55	<0.04	-	<0.04	<0.04	0.93					
Benzo(ghi)perylene #	2.94	0.05	-	<0.04	0.13	8.88					
PAH 16 Total	89.6	0.7	-	<0.6	1.8	198.3					
Benzo(b)fluoranthene	5.93	0.08	-	<0.05	0.15	16.73					
Benzo(k)fluoranthene	2.30	0.03	-	<0.02	0.06	6.50					
PAH Surrogate % Recovery	99	97	-	95	98	99					
EPH >C8-C10 #M	<5	<5	-	<5	<5	<5					
EPH >C10-C12 #M	<10	<10	-	<10	<10	<10					
EPH >C12-C16 #M	17	<10	-	<10	<10	15					
EPH >C16-C21 #M	104	<10	-	<10	<10	136					
EPH >C21-C40	580	<10	-	<10	<10	473					
EPH >C8-C40	701	<30	-	<30	<30	624					

Please see attached notes for all abbreviations and acronyms

Jones Environmental Laboratory
Client Name: WYG

Report : Solid
Reference: A083215

Location: WEIR PUMPS SITE NEWTON HEATH

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

Contact: John Taylor

JE Job No.: 13/7670

J E Sample No.	1-2	9-10	18-19	20-21	39-40	41-42					
Sample ID	TP101 ES1	TP303 ES2	TP301 ES2	TP301 ES3	WS101	WS102					
Depth	0.2	0.6	1.5	3.4	0.7	0.4					
COC No / misc											
Containers	V J	V J	V J	V J	V J	V J					
Sample Date	20/08/2013	20/08/2013	20/08/2013	20/08/2013	20/08/2013	20/08/2013					
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil					
Batch Number	1	1	1	1	1	1					
Date of Receipt	22/08/2013	22/08/2013	22/08/2013	22/08/2013	22/08/2013	22/08/2013					
TPH CWG											
Aliphatics											
>C5-C6 #M	-	<0.1	<0.1	<0.1	<0.1	-				<0.1	mg/kg
>C6-C8 #M	-	<0.1	<0.1	<0.1	<0.1	-				<0.1	mg/kg
>C8-C10	-	<0.1	<0.1	<0.1	<0.1	-				<0.1	mg/kg
>C10-C12 #M	-	<0.2	-	<0.2	<0.2	-				<0.2	mg/kg
>C12-C16 #M	-	<4	-	<4	<4	-				<4	mg/kg
>C16-C21 #M	-	<7	-	<7	<7	-				<7	mg/kg
>C21-C35 #M	-	<7	-	<7	<7	-				<7	mg/kg
Total aliphatics C5-35	-	<19	-	<19	<19	-				<19	mg/kg
											TM36/PM12
Aromatics											
>C5-EC7	-	<0.1	<0.1	<0.1	<0.1	-				<0.1	mg/kg
>EC7-EC8	-	<0.1	<0.1	<0.1	<0.1	-				<0.1	mg/kg
>EC8-EC10 #M	-	<0.1	<0.1	<0.1	<0.1	-				<0.1	mg/kg
>EC10-EC12 #M	-	<0.2	-	<0.2	<0.2	-				<0.2	mg/kg
>EC12-EC16 #M	-	<4	-	<4	<4	-				<4	mg/kg
>EC16-EC21 #M	-	<7	-	<7	<7	-				<7	mg/kg
>EC21-EC35 #M	-	<7	-	<7	<7	-				<7	mg/kg
Total aromatics C5-35	-	<19	-	<19	<19	-				<19	mg/kg
Total aliphatics and aromatics(C5-35)	-	<38	-	<38	<38	-				<38	mg/kg
											TM5/PM16
MTBE #	-	<5	<5	<5	<5	-				<5	ug/kg
Benzene #	-	<5	<5	<5	<5	-				<5	ug/kg
Toluene #	-	<5	<5	<5	<5	-				<5	ug/kg
Ethylbenzene #	-	<5	<5	<5	<5	-				<5	ug/kg
m/p-Xylene #	-	<5	<5	<5	<5	-				<5	ug/kg
o-Xylene #	-	<5	<5	<5	<5	-				<5	ug/kg
Total Phenols HPLC	<0.15	<0.15	-	<0.15	<0.15	<0.15				<0.15	mg/kg
Hexavalent Chromium	<0.3	<0.3	-	<0.3	<0.3	<0.3				<0.3	mg/kg
Sulphate as SO4 (2:1 Ext) #M	0.0538	0.0098	-	0.0401	0.0847	0.1101				<0.0015	g/l
Free Cyanide	<0.5	<0.5	-	<0.5	<0.5	<0.5				<0.5	mg/kg
Fraction Organic Carbon	-	0.017	-	0.011	0.009	-				<0.001	None
pH #M	8.49	8.44	-	7.81	8.08	8.49				<0.01	pH units
Sample Type	Clayey Sand	Clay	-	Clay	Clay	Loamy Sand				None	TM73/PM11
Sample Colour	Medium Brown	Medium Brown	-	Medium Brown	Medium Grey	Dark Brown				None	PM13/PM0
Other Items	stones	stones	-	coal	none	stones				None	PM13/PM0

Please see attached notes for all abbreviations and acronyms

Please include all sections of this report if it is reproduced

Jones Environmental Laboratory

Asbestos Analysis

Client Name: WYG
Reference: A083215
Location: WEIR PUMPS SITE NEWTON HEATH
Contact: John Taylor

Note:

Analysis was carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions lie outside the scope of our UKAS accreditation.

Where the sample is not taken by a Jones Environmental Laboratory consultant, Jones Environmental Laboratory cannot be responsible for inaccurate or unrepresentative sampling.

If asbestos fibres are reported at trace levels there will not be enough fibres to quantify and will be less than 0.001%.

Signed on behalf of Jones Environmental Laboratory:

Concord

Gemma Newsome
Asbestos Team Leader

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	Date Of Analysis	Description	Asbestos Results	
13/7670	1	TP303 ES2	0.6	9-10	02/09/13	Soil/Clay	NAD	
13/7670	1	TP301 ES3	3.4	20-21	02/09/13	Soil/Clay	NAD	
13/7670	1	WS101	0.7	39-40	02/09/13	Soil/Clay	NAD	

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 $35^{\circ}\text{C} \pm 5^{\circ}\text{C}$ unless otherwise stated. Moisture content for CEN Leachate tests are dried at $105^{\circ}\text{C} \pm 5^{\circ}\text{C}$.

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

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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

JE Job No 13/7670



Appendix G – Geotechnical Laboratory Results

PSL

Professional Soils Laboratory

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)

5 – 7 Hexthorpe Road, Hexthorpe,
Doncaster DN4 0AR
tel: +44 (0)844 815 6641
fax: +44 (0)844 815 6642
e-mail: rgunson@prosoils.co.uk
awatkins@prosoils.co.uk

Page 1 of

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.



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)

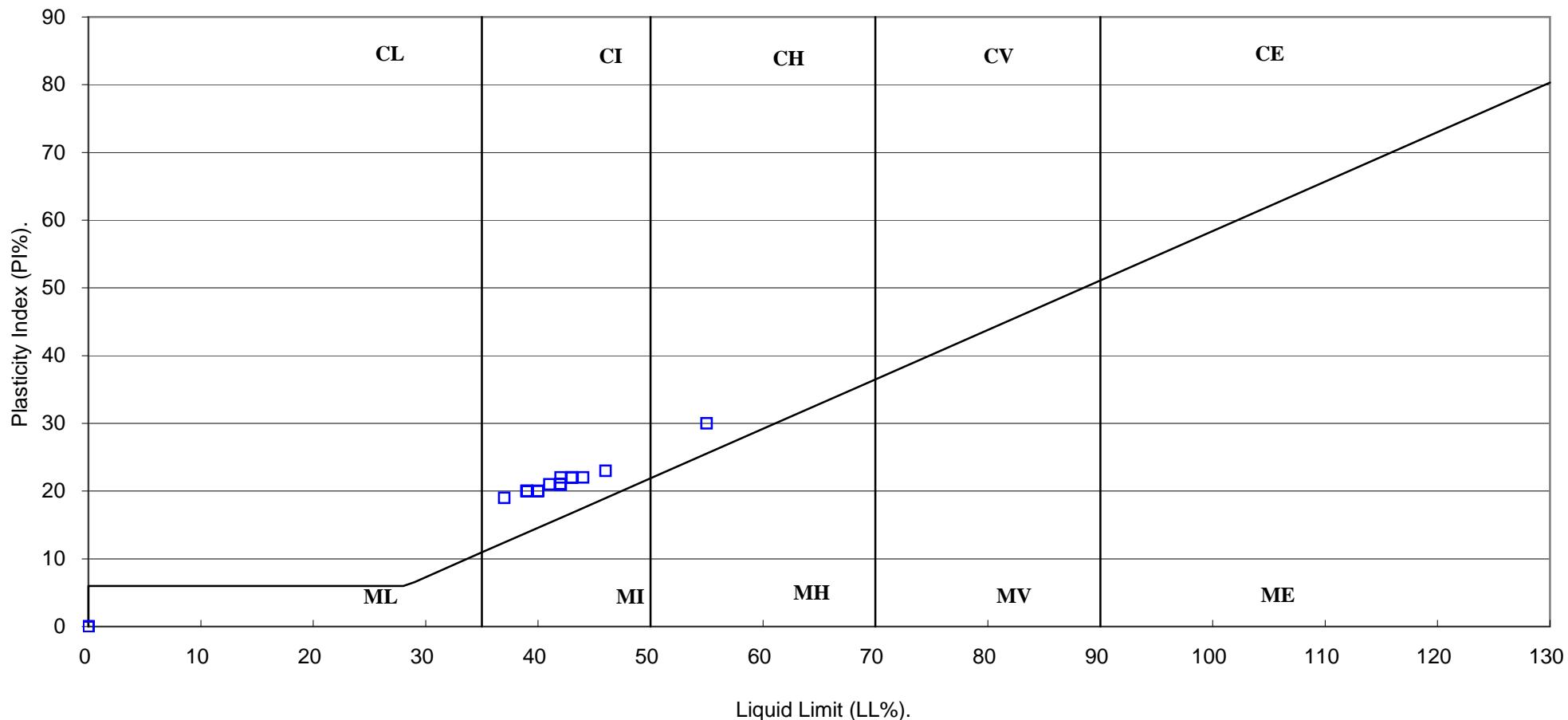
SYMBOLS : NP : Non Plastic



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

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.

(B.S.5930 : 1999)



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



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	DETScx	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
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	DETScx	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
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	DETScxx	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
pH		DETSC 2008#		8.1	8.5	8.0	8.6
							34

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	DETScxx	LOD	

Organic matter	%	DETSC 2002#	0.1	
Sulphate Aqueous Extract as SO4	mg/l	DETSC 2076#	10	20
pH		DETSC 2008#		8.6

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 3**
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 - Instruments used - GA4000, Flow Pod & Minirae 2000, Dip Meter

Background (start)	CH₄	<u>0.0%</u>	CO₂	<u>0.0%</u>	O₂	<u>20.7%</u>	VOCs	<u>0</u>	AP	<u>1011</u>
Background (end)	CH₄	<u>0.0%</u>	CO₂	<u>0.0%</u>	O₂	<u>20.6%</u>	VOCs	<u>0</u>	AP	<u>1012</u>

Installation	Elevation of cover (mAOD)	CH ₄		CH ₄ % LEL		CO ₂		O ₂	CO	H ₂ 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 ₄	CO ₂	Maximum GSV	
WS301		0.0	0.0	0.0	0.0	0.0	0.0	20.7	3.0	0.0	0.0	0.0	0.0	1012	DRY	3.30					
WS302		0.0	0.0	0.0	0.0	0.0	0.0	20.2	1.0	0.0	0.0	0.0	0.0	1011	2.20	4.00					
WS303		0.0	0.0	0.0	0.0	0.0	0.0	20.7	0.0	0.0	0.0	0.0	0.0	1011	3.05	4.20					
WS304		0.0	0.0	0.0	0.0	0.0	0.0	20.8	0.0	0.0	0.0	0.0	0.0	1012	3.50	4.00					
Whole Site Summary																					
Maximum	-	0.0	0.0	0	0	0.0	0.0	-	1	0	0.0	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 CH₄ or CO₂ multiplied by the gas flow rate.

GAS & GROUNDWATER MONITORING RECORD SHEET

Client **Homes and Communities Agency**
Project **Plot 3**
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 - Instruments used - GA4000, Flow Pod & Minirae 2000, Dip Meter

Background (start)	CH₄	<u>0.0%</u>	CO₂	<u>0.0%</u>	O₂	<u>20.9%</u>	VOCs	<u>0</u>	AP	<u>1022</u>
Background (end)	CH₄	<u>0.0%</u>	CO₂	<u>0.0%</u>	O₂	<u>20.9%</u>	VOCs	<u>0</u>	AP	<u>1022</u>

Installation	Elevation of cover (mAOD)	CH ₄		CH ₄ % LEL		CO ₂		O ₂	CO	H ₂ 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 ₄	CO ₂	Maximum GSV	
WS301		0.0	0.0	0.0	0.0	0.0	0.0	20.7	0.0	0.0	1.0	0.0	0.0	1020	DRY	3.26					
WS302		0.0	0.0	0.0	0.0	0.0	0.0	20.7	0.0	0.0	1.6	0.0	0.0	1019	2.2	3.7					
WS303		0.0	0.0	0.0	0.0	0.0	0.0	20.6	1.0	0.0	1.6	0.0	0.0	1019	3.10	4.10					
WS304		0.0	0.0	0.0	0.0	0.0	0.0	20.7	0.0	0.0	2.5	0.0	0.0	1019	3.50	4.10					
Whole Site Summary																					
Maximum	-	0.0	0.0	0	0	0.0	0.0	-	1	0	2.5	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 CH₄ or CO₂ multiplied by the gas flow rate.

GAS & GROUNDWATER MONITORING RECORD SHEET

Client **Homes and Communities Agency**
Project **Plot 3**
Job Number **A083215**

Visit No. 3 **Date** 10/09/2013 **Start** 08:30 **End** 13:00 **By** AC **AP Trend** 1013 **Weather** Cloudy and dry

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

Background (start)	CH₄	<u>0.0%</u>	CO₂	<u>0.0%</u>	O₂	<u>20.1%</u>	VOCs	<u>0</u>	AP	<u>1013</u>
Background (end)	CH₄	<u>0.0%</u>	CO₂	<u>0.0%</u>	O₂	<u>20.2%</u>	VOCs	<u>0</u>	AP	<u>1013</u>

Installation	Elevation of cover (mAOD)	CH ₄		CH ₄ % LEL		CO ₂		O ₂	CO	H ₂ 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 ₄	CO ₂	Maximum GSV	
WS301		0.0	0.0	0.0	0.0	0.0	0.0	20.1	1.0	0.0	0.0	0.0	0.0	1014	DRY	3.3					
WS302		0.0	0.0	0.0	0.0	0.0	0.0	20.4	1.0	0.0	0.0	0.0	0.0	1014	3.6	4					
WS303		0.0	0.0	0.0	0.0	0.0	0.0	20.1	1.0	0.0	0.0	0.0	0.0	1014	2.20	4.00					
WS304		0.0	0.0	0.0	0.0	0.0	0.0	20.3	1.0	0.0	0.0	0.0	0.0	1013	3.10	4.15					
Whole Site Summary																					
Maximum	-	0.0	0.0	0	0	0.0	0.0	-	1	0	0.0	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 CH₄ or CO₂ multiplied by the gas flow rate.

GAS & GROUNDWATER MONITORING RECORD SHEET

Client **Homes and Communities Agency**
Project **Plot 3**
Job Number **A083215**

Visit No. 4 **Date** **17/06/2013** **Start** **10:00** **End** **10:25** **By** **AC** **AP Trend** **Falling** **Weather** **Cloudy and overcast**

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

Background (start)	CH₄	-0.1%	CO₂	0.0%	O₂	20.2%	VOCs	0	AP	990
Background (end)	CH₄	-0.1%	CO₂	0.0%	O₂	20.2%	VOCs	0	AP	990

Installation	Elevation of cover (mAOD)	CH ₄		CH ₄ % LEL		CO ₂		O ₂	CO	H ₂ 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 ₄	CO ₂	Maximum GSV	
WS301		0.0	0.0	0.0	0.0	0.0	0.0	19.8	1.0	0.0	0.0	0.0	0.0	989	DRY	3.4					
WS302		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	1.8	3.9					
WS303		0.0	0.0	0.0	0.0	0.0	0.0	20.3	1.0	0.0	0.0	0.0	0.0	989	3.10	4.15					
WS304		0.0	0.0	0.0	0.0	0.0	0.0	20.3	0.0	0.0	0.0	0.0	0.0	989	3.00	4.10					
Whole Site Summary																					
Maximum	-	0.0	0.0	0	0	0.0	0.0	-	1	0	0.0	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 CH₄ or CO₂ multiplied by the gas flow rate.

GAS & GROUNDWATER MONITORING RECORD SHEET

Client **Homes and Communities Agency**
Project **Plot 3**
Job Number **A083215**

Visit No. 5 **Date** **23/09/2013** **Start** **12:00** **End** **12:35** **By** **AC** **AP Trend** **Rising** **Weather** **Cloudy**

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

Background (start)	CH₄	0.0%	CO₂	0.0%	O₂	20.6%	VOCs	0	AP	1018
Background (end)	CH₄	0.0%	CO₂	0.0%	O₂	20.6%	VOCs	0	AP	1018

Installation	Elevation of cover (mAOD)	CH ₄		CH ₄ % LEL		CO ₂		O ₂	CO	H ₂ 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 ₄	CO ₂	Maximum GSV	
WS301		0.0	0.0	0.0	0.0	0.0	0.0	20.6	0.0	0.0	1.9	0.0	0.0	1018	DRY	3.3					
WS302		0.0	0.0	0.0	0.0	0.0	0.0	20.6	0.0	0.0	2.5	0.0	0.0	1019	2	3.9					
WS303		0.0	0.0	0.0	0.0	0.0	0.0	20.7	1.0	0.0	1.7	0.0	0.0	1018	3.10	4.10					
WS304		0.0	0.0	0.0	0.0	0.0	0.0	20.6	0.0	0.0	2.1	0.0	0.0	1018	3.50	4.00					
Whole Site Summary																					
Maximum	-	0.0	0.0	0	0	0.0	0.0	-	1	0	2.5	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 CH₄ or CO₂ multiplied by the gas flow rate.

GAS & GROUNDWATER MONITORING RECORD SHEET

Client **Homes and Communities Agency**
Project **Plot 3**
Job Number **A083215**

Visit No. 6 **Date** **26/09/2013** **Start** **12:00** **End** **12:35** **By** **AC** **AP Trend** **Rising** **Weather** **Cloudy**

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

Background (start)	CH₄	0.0%	CO₂	0.0%	O₂	20.6%	VOCs	0	AP	1011
Background (end)	CH₄	0.0%	CO₂	0.0%	O₂	20.6%	VOCs	0	AP	1011

Installation	Elevation of cover (mAOD)	CH ₄		CH ₄ % LEL		CO ₂		O ₂	CO	H ₂ 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 ₄	CO ₂	Maximum GSV	
WS301		0.0	0.0	0.0	0.0	0.0	0.0	20.7	1.0	0.0	1.2	0.0	0.0	1010	WAB	3.27					
WS302		0.0	0.0	0.0	0.0	0.0	0.0	20.5	1.0	0.0	1.3	0.0	0.0	1009	1.8	3.9					
WS303		0.0	0.0	0.0	0.0	0.0	0.0	20.7	3.0	0.0	1.3	0.0	0.0	1009	2.90	4.10					
WS304		0.0	0.0	0.0	0.0	0.0	0.0	20.7	0.0	0.0	1.5	0.0	0.0	1010	3.50	4.00					
Whole Site Summary																					
Maximum	-	0.0	0.0	0	0	0.0	0.0	-	3	0	1.5	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 CH₄ or CO₂ multiplied by the gas flow rate.