



Renaker Build Limited

PHASE 1 PRELIMINARY RISK ASSESSMENT (PRA)

Trinity Islands, Trinity Way, Manchester





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REPORT (VERSION 3) CONFIDENTIAL

PROJECT NO. 70082598

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WSP

8 First Street

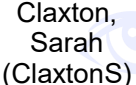
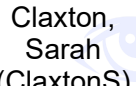
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1 INTRODUCTION

1.1 AUTHORISATION

WSP UK Limited (WSP) was instructed by Renaker Build Limited (RBL) (the client) to undertake a Phase 1 Preliminary Risk Assessment (PRA) for two plots of land called Trinity Islands located on Trinity Way, Manchester, M3 4JH (henceforth referred to as the site). A site location plan is included as Figure 1, Appendix A.

1.2 BACKGROUND AND OBJECTIVES

The irregularly shaped site comprises two plots of land (Site C and Site D) that have a combined area of approximately 1.78 hectares (0.89 hectares each) and are separated by Trinity Way. An aerial overview of the site is included as Insert 1-1.

Insert 1-1 - Aerial Overview of the site



It is proposed to redevelopment the site with the construction of four high-rise residential buildings (two on each plot) with associated two-storey underground basement parking.

The delivery of the redevelopment is likely to include a phased approach with the construction phase for Site C and Site D delivered separately. One detailed planning submission will be submitted for the entire redevelopment.



The aim of this PRA is to identify potential constraints relating to contamination and/or ground conditions which may impact the proposed redevelopment. The overall objective is to aid the client in support of the discharge of future land quality related planning conditions and to provide information to support design works.

1.3 SOURCES OF INFORMATION

The information presented within this report have been collated from the following sources:

- WSP site walkover on 30 March 2021 (Photographs in Appendix B).
- Groundsure Report (ref: GS-7401062), dated 19 March 2021 (included in Appendix C).
- British Geological Survey (BGS) mapping and logging (BGS web-site accessed 28 April 2021) (logs included as Appendix D).
- Geological Survey of England and Wales; 1:50,000 geological map series, Sheet 85, Manchester, Solid and Drift.
- Information from the Coal Authority Interactive website (accessed on 27 March 2021).
- Online aerial imagery.
- A Preliminary Unexploded Ordnance (UXO) Assessment conducted by Zetica (dated 25 March 2021) (included in Appendix E).

1.4 CONFIDENTIALITY STATEMENT AND LIMITATIONS

This report is addressed to and may be relied upon by the following party:

Renaker Build Limited

This assessment has been prepared for the sole use and reliance of the above-named party. This report shall not be relied upon or transferred to any other parties without the express written authorisation of WSP. No responsibility will be accepted where this report is used, either in its entirety or in part, by any other party.

General limitations of the assessment are included as Appendix F.



2 BACKGROUND

2.1 SITE DESCRIPTION AND WALKOVER

Pertinent site detailed are summarised in in Table 2-1. A site features plan is included as Figure 2, Appendix A.

Table 2-1 - Site Details

Site Address		Trinity Islands, Trinity Way, Manchester, M3 4JH
Site Location		The site is located to the west of the Manchester City Centre in a mixed commercial and residential area.
National Grid Coordinates		382802, 397844 (Site C) 382693, 397759 (Site D)
Current Use/ Site Description and Topography	General	The irregular shaped site comprises two surface level car parks (Site D is disused for parking). No permanent structures are visible on either of the sites except for a substation in the southwest of Site D. Both sites are flat and level with the exception of a small retaining wall between 0.40m to 0.70m high which bisected Site C from north to south, with the eastern half higher than the west.
	Ground Cover	Asphalt in relatively good condition. Site D has several areas of cracking with vegetation growing. There is no oil staining evident on the surface.
	Elevation	The site is flat and level at approximately 26metre above ordnance datum (m AOD).
	Access	Site C is accessed from Water Street to the south, Site D is accessed from Trinity Way to the east. An underpass links Sites C and D beneath the Trinity Way Bridge with a maximum clearance of 2.40 metres.
	Utilities	There are drainage grids around the periphery of the site indicating below ground drainage infrastructure. Streetlights and parking meters are visible indicating below ground electrical infrastructure.
	Boundaries	The northern boundaries of Site C and Site D, and western boundary of Site D, comprise retaining walls; the River Irwell is approximately 5.0 – 6.0m lower than the site. Vegetation is growing along the northern boundary out of the top of the retaining wall. The eastern and southern boundary of Site C comprise a metal fence with a railway viaduct beyond the eastern boundary and Water Street beyond the southern boundary. Trinity Way dual carriageway separates Site C and D and raises northwards to cross the River Irwell. The retaining walls of this carriageway (approximately 5m high) comprise the western boundary of Site C and the eastern boundary of Site D. A separate branch of Trinity Way runs south of Site D and the retaining wall of this carriageway (approximately 5m high) forms the southern boundary.
Surrounding Land Use	Invasive Species	Giant Hogweed is recorded adjacent to the River Irwell along the northern boundary in Site C. Invasive species will not be fully grown/ fully in season for several months and therefore further invasive species cannot be ruled out.
		The following land uses surround the site: ■ North: River Irwell with residential high rise blocks beyond. ■ South: Trinity Way and Water Street with commercial buildings beyond. ■ East: Railway viaduct ■ West: River Irwell with residential high-rise blocks beyond.

2.2 PROPOSED DEVELOPMENT PLANS

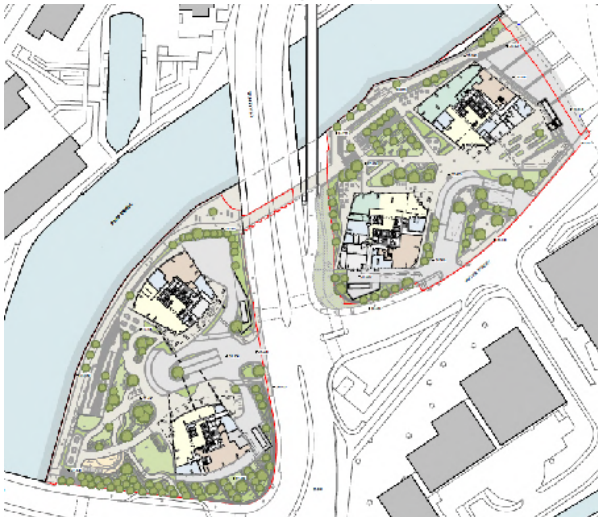
The client is proposing to construct the following:

- Site C: Two residential towers of 39 and 48 storeys providing 935 residential units; and,
- Site D: Two residential towers of 55 and 60 storeys providing 1015 residential units.

The earthworks prior to construction will comprise the installation of a contiguous pile wall followed by the excavation of a double storey basement car park. Construction will then include each tower standing above a two-deck podium. Vehicular access to the basement car parks will be individual to each site making use of previous road infrastructure. There are plans to make use of the underpass under Trinity Way to connect the sites coupled with a proposal to have a landscaped outdoor space vegetated by grass and shrubs/ trees.

An overview of the finished surface layout is included as Insert 2-1 and the extent of the basement excavations is included as Insert 2-2 showing an offset from the river boundary.

Insert 2-1 - Initial Design Layout



Insert 2-2 - Extent of Basement Excavation



3 SITE SETTING

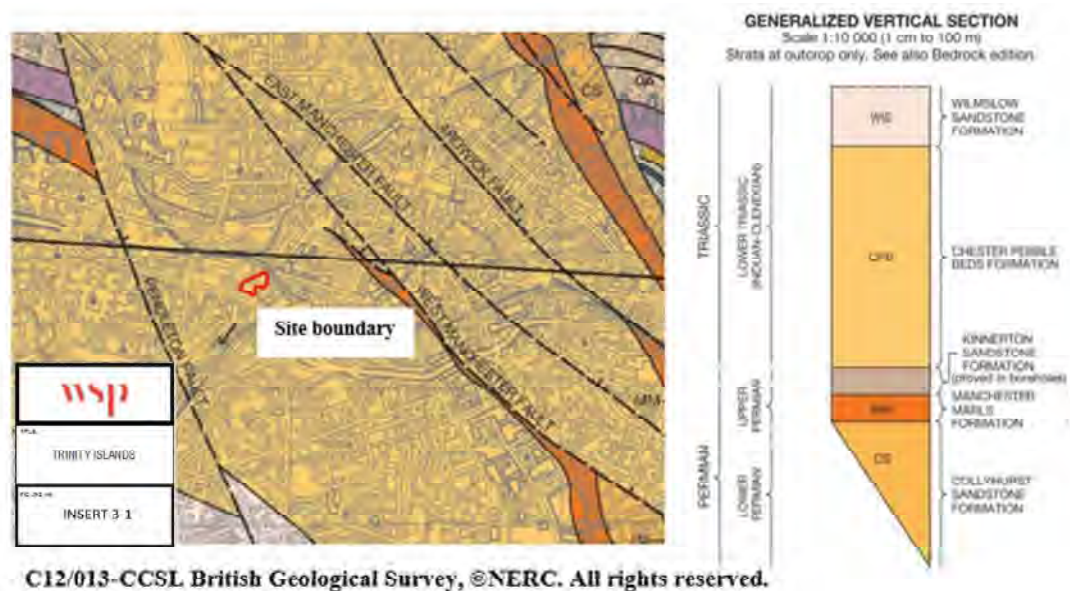
3.1 GEOLOGY

Information extracted from the published British Geological Survey (BGS) 1:50,000 geological map series (Sheet 85 Manchester 2011, Solid and Drift) indicates the solid geology underlying the site comprises the Chester Formation (formerly called the Chester Pebble Beds) consisting of red sandstone /pebbly sandstone.

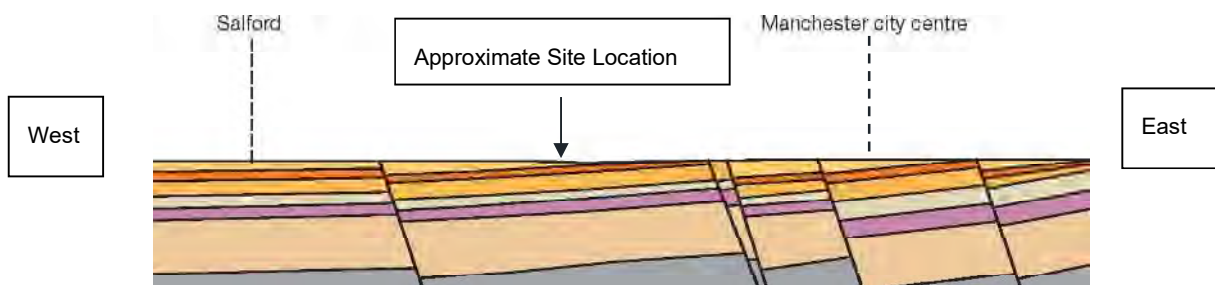
The underlying bedrock dips to the south -west and the thickness of the Chester Formation thins out toward the east. The basement dig therefore has the potential to encounter the underlying Manchester Marl Formation (calcareous mudstone/siltstones) and Kinnerton Sandstone Formation (if present between these strata).

An overview of the site location in relation to the surrounding features and a vertical section is presented as Insert 3-1 and a cross section showing the underlying sequence is presented in Insert 3-2.

Insert 3-1 - BGS Sheet 85 Map Extract

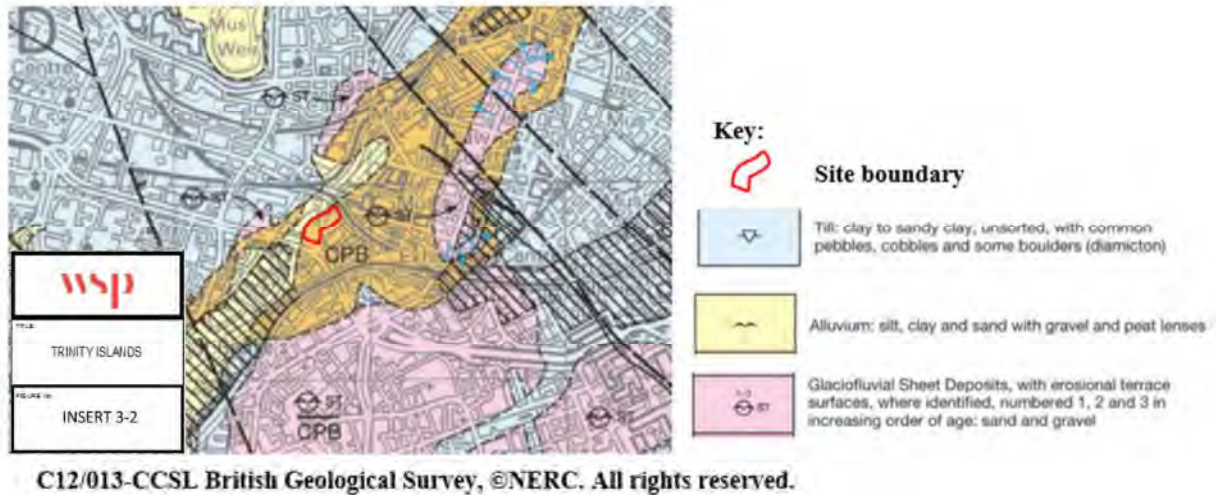


Insert 3-2 - Cross Section of Geological Sequence



BGS mapping does not record superficial deposits underlying the site however Alluvium (silts, clays and sands with gravel and peat lenses) are recorded immediately north of the site (likely related to the River Irwell). An extract of the superficial mapping is presented as Insert 3-3.

Insert 3-3 - BGS Map Extract of Superficial Deposits



BGS logs are not available within the site boundary and limited viewable BGS logs are available in the vicinity of the site. A selection of available borehole logs in the vicinity of the site have been reviewed and the following noted (BGS log available in Appendix D):

- BGS log SJ89NW97 located approximately 15m west of Site C recorded coarse gravel (interpreted as Made Ground) from surface to 3.66m bgl (metres below ground level) the maximum depth of drilling. Groundwater was not recorded.
- BGS log ST89NW641 located approximately 50m to the west of Site C recorded Made Ground to 2.10m bgl directly overlying sandstone bedrock recorded to 3.10m bgl, the maximum drilling depth. Groundwater was not recorded.
- BGS log SJ89NW282 located approximately 50m south of Site C did not record any geological details but recorded groundwater at 6.09m bgl.
- BGS log SJ89NW229 located approximately 60m west of Site D recorded Alluvium deposits to 3.66m bgl underlain by red sandstone. Groundwater was recorded at approximately 11m bgl.

Based on the geological review of the site the expected conditions comprise; Made Ground relating to the previous industrial land uses (see site history section 4), limited superficial deposits (if present) over sandstone bedrock. Given Made Ground/ superficial deposits are recorded in surrounding borehole logs to between 2.10 – 3.66m bgl and are directly underlain by bedrock it is expected that the Chester Formation will likely be encountered between 2.0 – 4.0m bgl underlying the site. Groundwater is likely within bedrock at approximately 6.0m bgl, i.e river level.

3.2 COAL AUTHORITY

The site lies within a Coal Mining Reporting Area. The Coal Authority interactive map viewer indicates the site does not lie within a Development High Risk Area (DHRA). The nearest DHRA is located approximately 2.9km to the northeast and relates to probable shallow workings and mine entries.



Given the distance of these features from the site the potential risk from coal mining is considered to be low and has not been assessed further.

3.3 HYDROGEOLOGY

The Environment Agency (EA) classifies the Chester Formation as a Principal Aquifer and the nearby Alluvium superficial deposits as a Secondary A Aquifer.

There are no current groundwater abstractions within 500m of the site and one historical abstraction recorded approximately 210m to the northeast. The closest active abstraction is approximately 720m to the northwest for Process Water. The site does not lie within a source protection zone (SPZ) and there are no SPZs recorded within 500m.

Given the hydrogeological setting of the site which is potentially directly underlain by a Principal Aquifer the hydrogeological risk setting is considered to be high.

3.4 HYDROLOGY

3.4.1 SURFACE WATER FEATURES

The nearest surface water feature is the River Irwell immediately adjacent to the north / northwest. The Bridgewater Canal and the River Medlock are approximately 300m to the south of the site. There are no active surface water abstractions within 500m of the site and one recorded historical surface water abstraction located approximately 330m southwest.

During the site walkover the surface water level in the River Irwell was observed to be approximately 5.0 - 6.0m below the ground level.

3.5 FLOODING

The Groundsure Report indicates the following in relation to flooding:

3.5.1 RIVERS / COASTAL FLOODING

- Site C is deemed high risk in the centre of the northern boundary immediately adjacent to the River and medium to low further to the south; and,
- Site D is medium risk along the west/northwest boundary and low risk further to the south/southeast.

Overall, the site is classified as being within Flood Zone 2.

3.5.2 SURFACE WATER FLOODING

- Site C: the highest risk areas are in the north western area of the site with generic modelling indicating the potential for 0.3m to 1.0m with a 1 in 30 year return period.
- Site D: the highest risk areas are adjacent to the River with generic modelling indicating the potential for 0.3m to 1.0m with a 1 in 1000 year return period. .

3.5.3 GROUNDWATER FLOODING

The risk of groundwater flooding is considered to be Moderate-High across the site (Site C and Site D) based on a 1 in 100 year return period.



3.6 SENSITIVE LAND USES

The site is located within the Castlefield Conservation Area. These areas are aimed to preserve the features and character of a site.

There are no recorded Sites of Special Scientific Interest (SSSI's), National Nature Reserve (NNR), Special areas of Conservation (SAC), Special Protection Area (SPA), Green Belt, Ancient Woodland, Local Nature Reserve (LNR) and World Heritage Sites within the site boundary or within 500m of the site.

3.6.1 GROUND STABILITY

Ground stability hazards identified within the Groundsure Report are summarised in Table 3-1.

Table 3-1 - Ground Stability Hazards

Stability Hazard	Risk Level
Potential for collapsible ground	Very Low
Potential for compressible ground	Negligible
Potential for dissolution	Negligible
Potential for landslides	Very Low
Potential for running sands	Low

3.6.2 LANDFILLS AND WASTE MANAGEMENT SITES

3.6.2.1 Landfills

The Groundsure report indicates there are no active or recent landfills within 500m of the site. Two closed landfill sites are recorded within 500m:

- One located 40m northwest (across the River Irwell), no pertinent information is available regarding this landfill.
- One located 440m northwest, licensed in 1986 to accept inert waste.

3.6.2.2 Waste Management Sites

Historical mapping indicates the site was used for refuse destruction between 1908 and 1979.

The Groundsure Report records seven waste management sites comprising refuse destructors, breakers yards and scrap yards within 250m of the site.

3.7 RADON

The Groundsure Report indicates that the site lies within an area where less than 1% of properties are at or above the threshold for radon. Radon protection measures are not required in the construction of any of the new developments.



3.8 UNEXPLODED ORDNANCE (UXO) HAZARDS

A Zetica Pre-Desk study for potential unexploded ordnance indicates Site C and D have different risk levels. Site C is deemed to be of low risk and a detailed desk study not essential.

Site D is high risk as records indicate several highly explosive bombs fell in close proximity to the site and a detailed desk study is recommended to assess and zone the potential UXO hazards on site.

4 SITE HISTORY AND REGULATORY INFORMATION

4.1 HISTORICAL MAP REVIEW SUMMARY

A review of the historical maps in the Groundsure Report has been completed with a summary provided below. The historical maps are provided in Appendix C.

The historical mapping indicates the site has had multiple industrial (dye works, chemical works, corporation yard/ refuse destructor etc) and commercial uses (pig market, garage and paper salvage shed) with multiple redevelopments prior to the present-day car parks.

The surrounding land use has been a mixture of residential, commercial and industrial most notably including a meat market and abattoirs in the late 1800's to early 1900's. More recently the land use has been a mix of residential and commercial.

4.1.1 ON-SITE

A summary of on-site land use is provided in Table 4-1.

Table 4-1 - Summary of on-site land use

Date	Land Use	
	Site C	Site D
1851	Fustian Dye Works with reservoirs (north / northeast) Basin (extension of River Irwell) and bonding warehouse (northwest) Store and crane (west) Boiler (centre) Smithy (west)	Chemical works (north) Boat House (southwest) Unnamed buildings (southeast)
1893	Irwell Size Works (replaced Dye Works – reservoirs) no longer shown) Pig market (east) Corporation yard (centre and west) Unspecified buildings (southern boundary)	Corporation Yard (centre with tanks in the south) Unnamed buildings (southern boundary)
1908 - 1922	Corporation Yard (centre, west and along southern boundary) Pig sale depot (east) Unspecified buildings (southern boundary)	Corporation Yard with refuse destructors with an unspecified tank and chimney shown on 1932 Unspecified buildings (southern boundary)
1949 - 1963	Pig sale depot (east) and paper salvage shed (northeast) Garage – potentially part of Corporation Yard Potential unspecified tank (northwest)	No change

	Unspecified buildings (southern boundary)	
1978-1983	Refuse destructors / cleansing depot – remodelled Buildings along southern removed	No change but buildings not labelled
1990-1994	All buildings removed Car park labelled in the east with small structures	All buildings removed Substation shown in southwest corner
1995	No change	No change
2003	Entire site labelled as a car park	Entire site labelled as a car park

4.1.2 SURROUNDING LAND USE

Mapping from 1851 showed little development surrounding the site with a bowling green and open land. The 1893 and 1908 mapping recorded a dense mix of residential and industrial/ commercial land uses surrounding the site. A Corporation Yard with refuse destructor and a river basin were opposite the site on the northern bank of the River Irwell. A railway viaduct was shown to the east/ northeast. The Pig sale depot on the site extended off-site to the northeast and an abattoir was shown approximately 50m south of the site. A hide and skin market was shown approximately 50m southeast of Site C and a second 50m south of Site D. Residential properties (terraced) were shown approximately 100m south of Site D.

By 1932 the Corporation Yard to the north was replaced with a Cleansing Depot which was identified on mapping until 1983 when the site is cleared. The river basin on the northern bank of the River remains until the present day. The abattoir to the south was shown partially labelled as a meat market.

In 1948 the hide and skin market to the south of Site C was shown as a warehouse and the terraced housing had been cleared. The surrounding area remained relatively unchanged until the late 1970s when the abattoir, meat/ hide markets were no longer shown. The meat market and abattoir was replaced by unspecified buildings (potentially Warehouses) and the hide and skin market land was cleared.

The area remained unchanged until 1990 a when garage was shown to the south of Site C; however, no tanks were shown on historical mapping. The surrounding land uses around the site remain similar in the present day.

4.2 REGULATORY INFORMATION SUMMARY

Relevant environmental information from regulatory authorities is contained within the Groundsure Report within Appendix C and summarised below.

- An active petrol station is located approximately 180m to the northwest.
- An active petrol station is located approximately 280m to the west.
- Recorded pollutant release recorded approximately 115m southwest for Arc Northern for cement works.
- Licensed discharge consent into controlled waters recorded approximately immediately northwest, discharging sewage into the River Irwell. Active between 1995 and 2020.

5 PRELIMINARY CONCEPTUAL MODEL

5.1 INTRODUCTION

The potential risks associated with potential contamination within soil and groundwater are assessed according to the environmental setting / ground model, likely presence of potential sources of contamination and the proposed use of the site.

The source-pathway-receptor model forms the basis of the risk assessment; potential risks are only considered to exist if there is a credible source (e.g. a chemical substance capable of causing harm); a pathway for migration of the source to a receptor; and a sensitive receptor that could be affected (e.g. nearby river or future site users). A source-pathway-receptor contaminant linkage assessment is termed a conceptual model (CM). A preliminary CM is produced prior to intrusive ground investigation and is refined following collection of site-specific data.

5.2 PRELIMINARY GROUND MODEL

The ground conditions across the site are expected to comprise Made Ground relating to the previous development and infilling of basins/reservoirs that were formerly on the site. Made Ground could potentially be underlain by Superficial Deposits (not shown on BGS mapping but recorded in logs adjacent to site) or could be sat directly on the sandstone bedrock (Principal Aquifer).

The bedrock is very likely to be in hydraulic continuity with the River Irwell immediately adjacent to the site. The surface level of the River Irwell was approximately 5.0 – 6.0m below the site level and the groundwater level was recorded at 6.09m bgl in a nearby BGS log. Groundwater is anticipated at approximately 6.0m bgl at the site.

The presence of hardstanding across the site would limit the ability for surface water (rainfall) to infiltrate through the Made Ground/ Superficial deposits and mobilise contamination from the shallow unsaturated zone into the deeper bedrock aquifer. If contamination has migrated into the bedrock it has the potential to migrate laterally downgradient or into the River Irwell.

5.3 SOURCES, PATHWAYS AND RECEPTORS

The potential sources of contamination, receptors relevant to the proposed development into high-rise residential buildings and the potential exposure pathways have been identified and are presented below.

5.3.1 POTENTIAL CONTAMINATION SOURCES

Relevant potential contamination sources:

- Contaminants within Made Ground material associated with previous on-site uses (potentially including asbestos) (potential chemical contaminants could include metals, polyaromatic hydrocarbons, petroleum hydrocarbons, volatile and semi-volatile organic compounds.)
- Contaminants within shallow soils/ shallow bedrock related to previous site uses of an industrial nature and relating to adjacent site uses (the same potential chemical contaminants as above).
- Hazardous Ground Gas associated with potential Made Ground and infilling of basins/reservoirs or organic deposits.
- Hazardous vapours associated with volatile contamination within soil and/or groundwater.

5.3.2 POTENTIAL RECEPTORS

Relevant potential receptors are considered to include the following:

- Construction workers during the redevelopment / future maintenance workers.
- Future site users.
- Neighbouring site users during the redevelopment.
- Third parties during and after the development.
- Groundwater in bedrock (Principal Aquifer).
- Surface water in the River Irwell.

5.3.3 POTENTIAL EXPOSURE PATHWAYS

Relevant potential pathways are considered to include the following:

- Direct contact, ingestion and inhalation of soil bound contaminants/dust.
- Migration of hazardous ground gas (relating to Made Ground or infilled basin/reservoirs) / vapours (relating to soil or groundwater contaminant sources) into any deeper excavations (if proposed i.e. to install deeper drainage manhole chambers) during redevelopment causing asphyxiation or explosion and migration into the future building if left untreated.
- Migration of mobile contaminants into bedrock aquifer/ River Irwell

5.4 POTENTIALLY COMPLETE POLLUTANT LINKAGES

Given the above sources, pathways and receptors the pollutant linkages that are considered to be viable (during construction and post-construction (assuming majority of Made Ground removal during earthworks)) are presented in Table 5-1. A risk likelihood graded according to CIRIA C552 (included as Appendix G) is provided.

Table 5-1 - Potentially Complete Pollutant Linkages

Source	Pathway	Receptor	Qualitative Comment	Risk Likelihood
Contamination (including asbestos) associated with Made Ground materials from previous land use and infilling of basins. Contamination relating to former site uses or adjacent industrial uses (e.g. spills, leaks)	Direct contact, ingestion of inhalation	Construction Workers during redevelopment	There is potential for soil chemical contamination including asbestos relating to the site previous uses. The potential for exposure can potentially be mitigated during redevelopment via good practice and the use of standard Personal Protective Equipment (PPE), Respiratory Protective Equipment (RPE) and good hygiene practices.	MODERATE - LOW
		Maintenance workers post development	Earthworks for the basements are likely to remove the majority of Made Ground. Any landscaped area post development would likely comprise imported clean soils. If residual contamination remains in Made Ground	LOW

			around periphery then good practice i.e. PPE etc would mitigate potential exposure during any short-term groundworks.	
		Future Site Users (Residential Receptors)	Upon redevelopment the site will comprise building footprint, hardstanding or landscaped areas. The landscaped areas will likely be imported clean topsoil. The potential for direct contact, ingestion or inhalation is therefore likely to be low.	LOW
	Mobilisation of contamination into groundwater/ surface waters.	Groundwater within bedrock/ Surface Water in River Irwell	Potential for contamination in Made Ground or shallow soils. The presence of the current site wide hardstanding will potentially have limited surface water infiltration and vertical migration of contamination into the bedrock aquifer. A ground investigation will assess groundwater and surface water quality. If contamination has impacted groundwater/ surface water quality then source removal would be likely during basement earthworks dig which would provide significant betterment. Possibility of residual secondary sources within bedrock.	MODERATE
Hazardous Ground Gas related to Made Ground or organic material in infilled dock sediments.	Migration into ground excavations / man-hole chambers	Construction Workers during redevelopment	Potential for soil/ groundwater gas/ vapour.	MODERATE
Volatile contamination in groundwater causing vapour migration		Maintenance workers post development	Ground investigation will assess for the potential presence of ground gas concentrations and volatile groundwater contamination/ non-aqueous phase liquid (NAPL).	
		Future Site Users		

5.5 WASTE DISPOSAL AND CLASSIFICATION

In the event that surplus materials from the site are to be disposed of at landfill, the material should be segregated (i.e. soil, asphalt, concrete) and the materials should be characterised with respect to chemical and asbestos content to determine the classification of the waste for landfilling purposes.



It is expected there would be limited opportunities for re-use based on the design. However, if soil arisings are considered suitable for on-site re-use (following appropriate testing) then a Materials Management Plan will be required, together with supporting documents, in line with the Definition of Waste: Development Industry Code of Practice

Once an invasive species survey has been undertaken if Japanese Knotweed is found at the site then this could significantly increase waste disposal costs. It is recommended that early identification and removal are undertaken to prevent any Japanese Knotweed (if present) becoming mixed in with soil material during the earthworks.

6 CONCLUSIONS AND RECOMMENDATIONS

6.1 CONCLUSIONS

The 1.78ha site comprises two plots of land (Site C and Site D) which are currently used for car parking. Made Ground is anticipated relating to previous site uses. There is potential for Made Ground or natural superficial or shallow soils/ shallow bedrock to contain contaminants of concern (such as asbestos, metals, polyaromatic hydrocarbons, petroleum hydrocarbons and volatile/ semi-volatile organic compounds) relating to previous known site uses or adjacent industrial site uses.

The site redevelopment will involve significant earthworks including the removal of the majority of the Made Ground to facilitate the construction of the two storey basements. Historical development is likely to have left significant obstructions and backfilled features such as the refuse destructor foundations and river basin and former reservoirs, however these will also be removed as part of the construction works. On completion the site will comprise predominantly building cover/ hardstanding with limited landscaped areas. There is potential for exposure of groundworkers to the contaminated soils during redevelopment. Given the extent of the basement dig and proposed hardstanding/building cover there is a limited potential for exposure of site users to contaminated soils post-development via direct contact. There will remain the potential for soil and groundwater gas/ vapours, if present, to migrate into buildings/services if not mitigated.

The site is considered to have a moderate sensitivity with regards to controlled waters given it is directly underlain by a Principal Aquifer and immediately adjacent to the River Irwell. However the main on-site source of groundwater contamination is likely to be within any Made Ground, the majority of which will be removed during construction.

Given the site history there is potential for contamination impacting soil and groundwater and therefore potential pollutant linkages pertinent to the redevelopment have been identified. These are associated with the potential presence of Made Ground (if present) / shallow soil/bedrock contamination from previous site uses and the potential for ground gases within any excavations. These risks will be significantly reduced through the course of development as potential contaminants are removed during the basement excavation. A series of standard good practice mitigation measures to manage the potential risks are recommended during redevelopment.

The current design includes landscaped areas around the residential blocks and it would usually be recommended to retain suitable soils to minimise disposal to landfill. Given the complex industrial history at the site there is potential that soils will not be suitable for retention and will require disposal off-site. Chemical and geotechnical testing of soils will be required to determine suitability and design parameters. If materials are unsuitable for retention or the design necessitates their removal off-site waste classification testing will also be required.

6.2 RECOMMENDATIONS

Based on the data presented in this report, the following is recommended:

- Completion of a detailed desk study to ascertain the UXO risk at the site prior to site investigation.
- An assessment by an ecologist should be completed mid-season to assess for invasive species and appropriate advice from an ecologist should be sought regarding the disposal/treatment of the Giant Hogweed on the site together with confirmation of the absence of other invasive

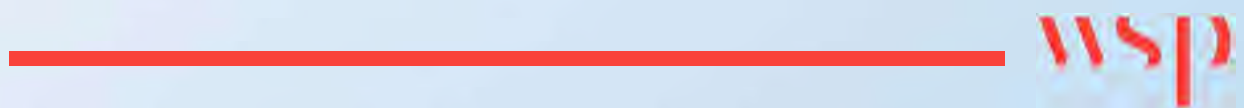


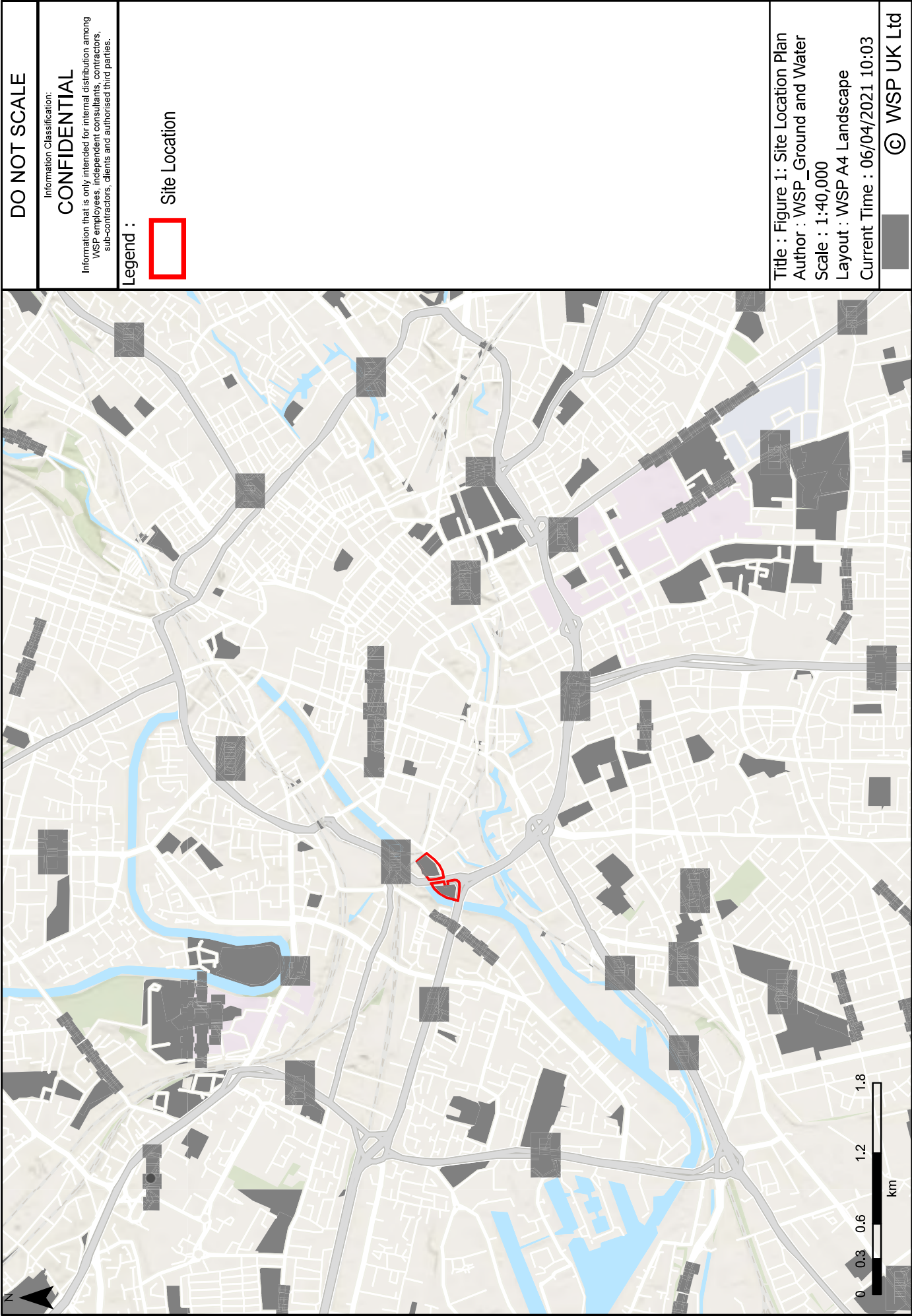
species such as Japanese Knotweed. It should be noted that disposal of soils contaminated with Japanese Knotweed rhizomes carries a significant premium. (Following the first issue of this report, WSP understand an Ecological Assessment has been undertaken and will be submitted as part of the planning application.)

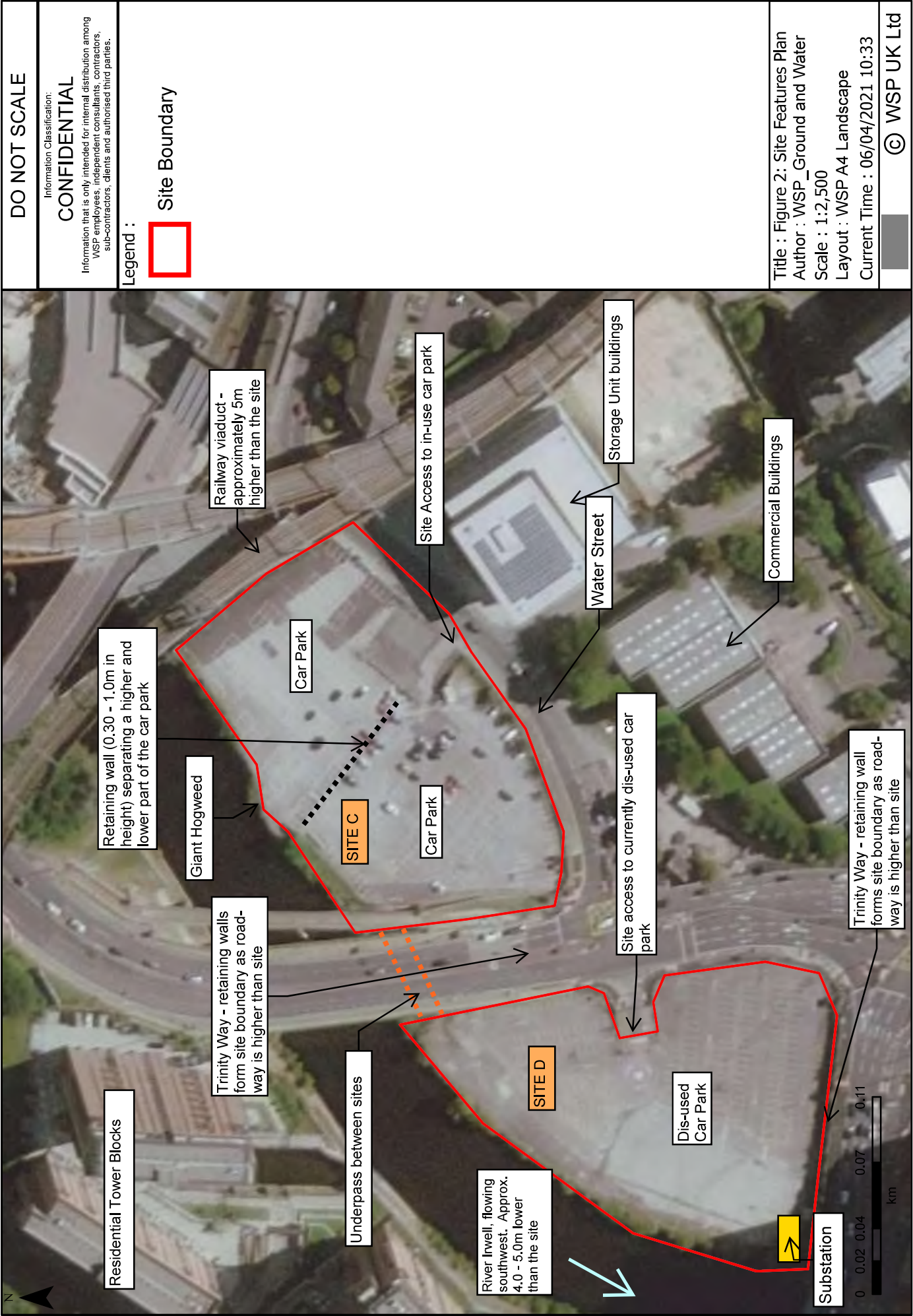
- Characterisation of the soils onsite for potential human health risk and to aid in surplus soil disposal classification as well as geotechnical design parameters) and refine the conceptual model.
- Installation and monitoring of ground gas and groundwater.
- Identify material waste classification status to satisfy EA, land contamination officers and planners.

Appendix A

FIGURES







Appendix B

PHOTOGRAPHIC LOG





Photo 1: Looking south west along the boundary of Site C.



Photo 2: Looking southeast from the centre of Site C, looking at nearby storage building.

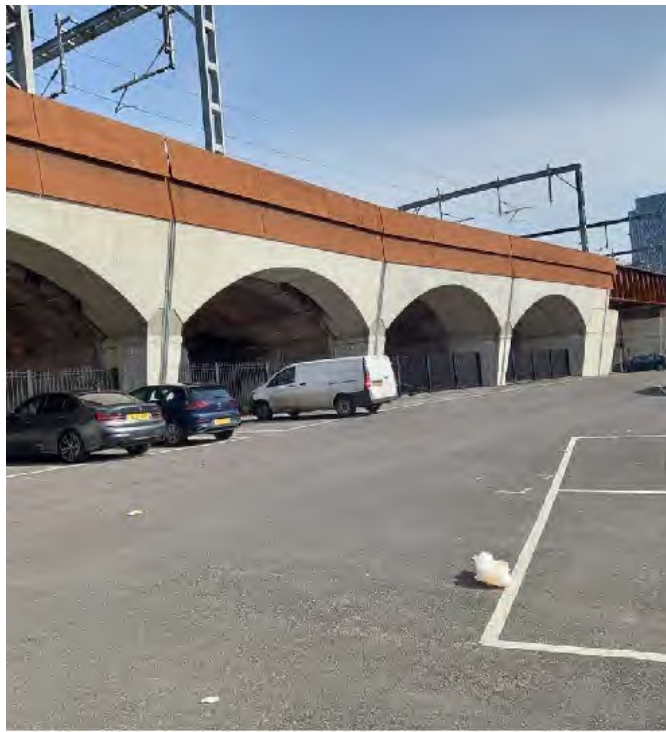


Photo 3: Looking east at the viaduct beneath the train line bounding Site C to the northeast.



Photo 4: Looking south at commercial/ industrial surrounding land use.



Photo 5: Looking east along Water Street.



Photo 6: Large concrete weight to the north of Site D.

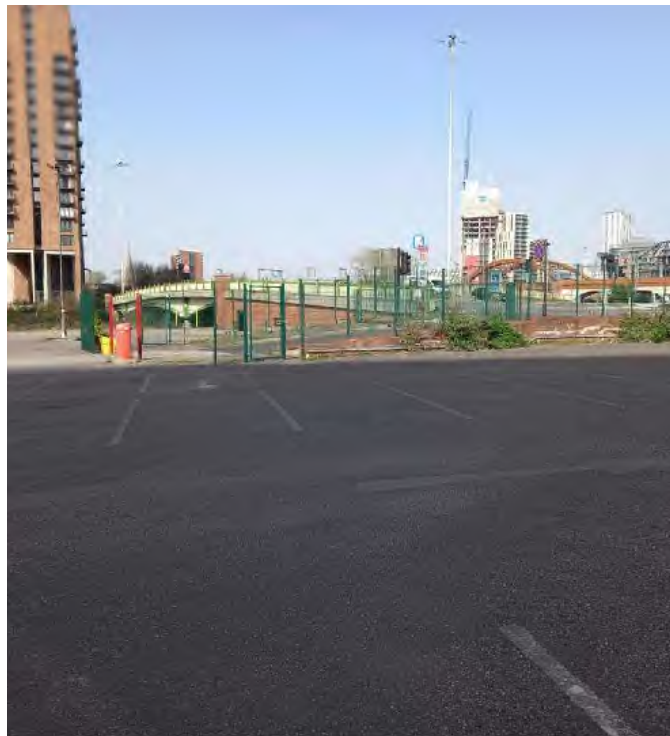


Photo 7: Fenced entrance to Site D.



Photo 8: Asphalt surface and previous borehole location with vegetation growing in crack, within Site D.



Photo 9: Remains of an old structure outside the fence of Site C.



Photo 10: Parking meter by the entrance of Site D.

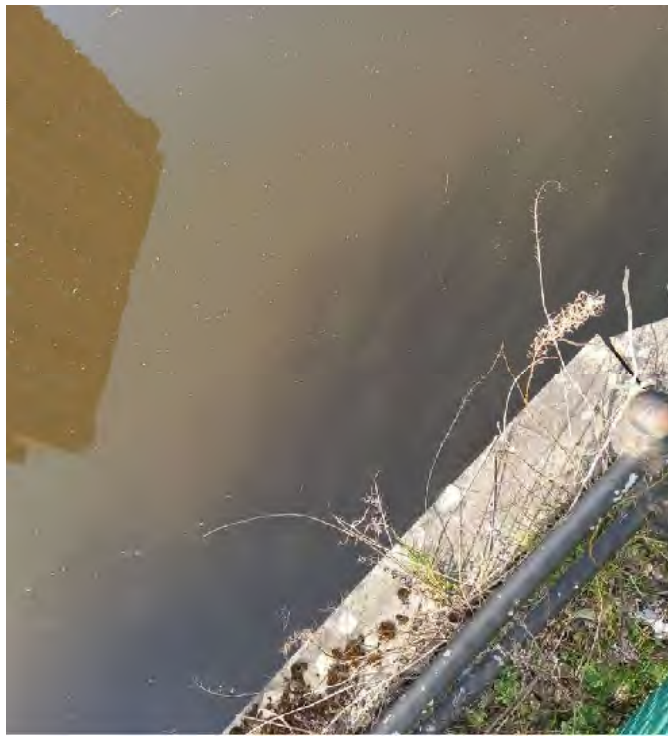


Photo 11: View over the fence at the level of the River Irwell.

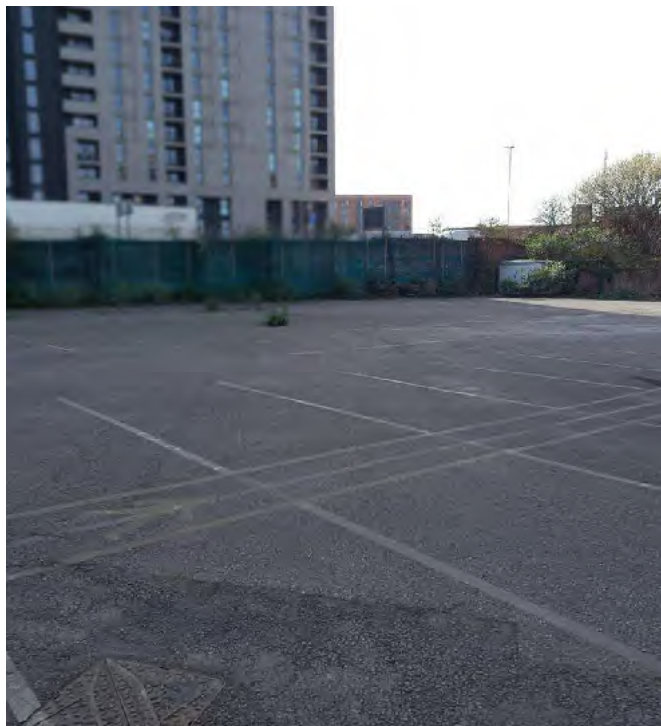


Photo 12: Looking southwest at the electricity sub station within Site D.



Photo 13: Semi mature vegetation growing along the boundary between the site and the River Irwell.



Photo 14: Pink flowering vegetation growing on the north western boundary of Site D.



Photo 15: Electricity sub station located to the south west of Site D.



Photo 16: Brick Retaining wall running adjacent to the Regent Road Bridge, covered with netting due to reasonably poor quality of the brick surface.



Photo 17: Pre-existing tunnel under the Trinity Way bridge connecting the two sites.



Photo 18: Looking southwest along the north western boundary of site D, adjacent to the River Irwell.



Photo 18: Looking south along the retaining wall adjacent to Trinity Way bridge, in good condition.

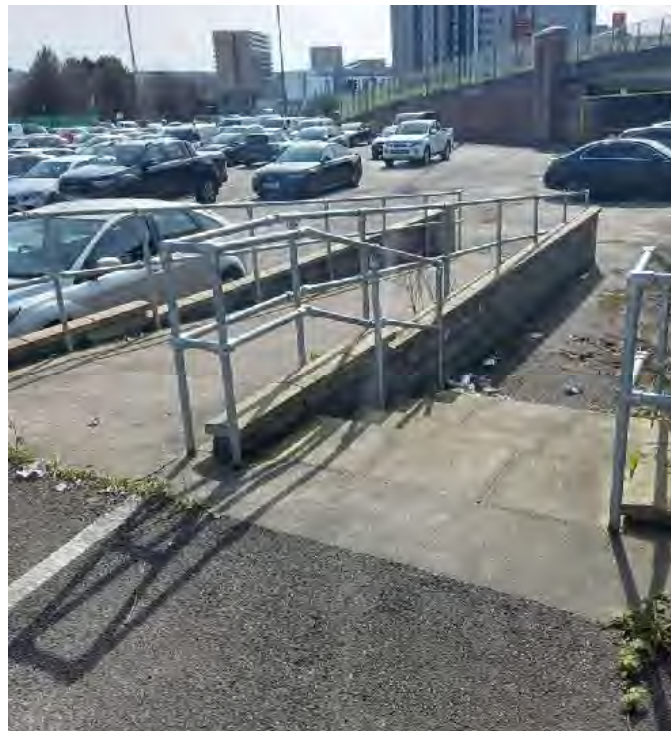


Photo 19: Paved steps and ramp giving access between the two elevation layers within Site C.



Photo 20: Spotlight present within Site D.



Photo 21: Giant Hogweed present along the boundary between Site D and the River Irwell.



Photo 22: Accumulation of litter to the north of Site C.



Photo 23: Drainage grid present within Site C.

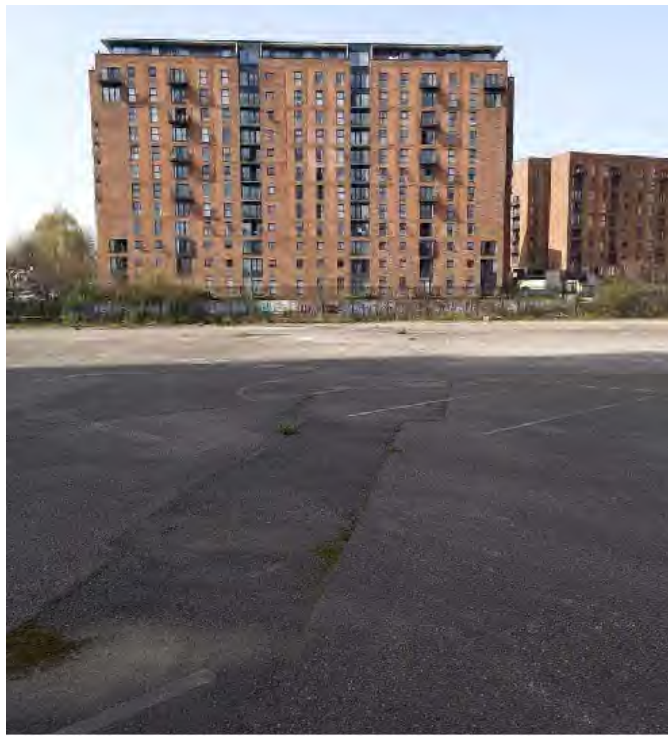


Photo 24: View looking north within Site D at newly built apartments to the north of the River Irwell.

Appendix C

GROUNDSURE REPORT



LAND A JUNCTION OF WATER STREET AND NEW ELM ROAD, NEW ELM ROAD, MANCHESTER, M3 4JH

Order Details

Date: 19/03/2021
Your ref: Trinity_Islands__Po_20124801__
Our Ref: WSP-7671630
Client: WSP UK LIMITED

Site Details

Location: 382733 397835
Area: 1.83 ha
Authority: [Manchester City Council](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.12

groundsure.com/insightuserguide

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
<u>13</u>	<u>1.1</u>	<u>Historical industrial land uses</u>	19	24	98	155	-
<u>24</u>	<u>1.2</u>	<u>Historical tanks</u>	4	0	17	50	-
<u>27</u>	<u>1.3</u>	<u>Historical energy features</u>	0	2	3	28	-
29	1.4	Historical petrol stations	0	0	0	0	-
<u>29</u>	<u>1.5</u>	<u>Historical garages</u>	3	2	5	19	-
30	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
<u>31</u>	<u>2.1</u>	<u>Historical industrial land uses</u>	20	33	163	232	-
<u>48</u>	<u>2.2</u>	<u>Historical tanks</u>	12	0	34	98	-
<u>53</u>	<u>2.3</u>	<u>Historical energy features</u>	0	7	26	75	-
57	2.4	Historical petrol stations	0	0	0	0	-
<u>57</u>	<u>2.5</u>	<u>Historical garages</u>	5	8	11	29	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
60	3.1	Active or recent landfill	0	0	0	0	-
60	3.2	Historical landfill (BGS records)	0	0	0	0	-
61	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
<u>61</u>	<u>3.4</u>	<u>Historical landfill (EA/NRW records)</u>	0	1	0	1	-
<u>61</u>	<u>3.5</u>	<u>Historical waste sites</u>	9	14	13	3	-
<u>66</u>	<u>3.6</u>	<u>Licensed waste sites</u>	0	0	3	1	-
<u>67</u>	<u>3.7</u>	<u>Waste exemptions</u>	11	1	5	14	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
<u>71</u>	<u>4.1</u>	<u>Recent industrial land uses</u>	0	3	19	-	-
<u>73</u>	<u>4.2</u>	<u>Current or recent petrol stations</u>	0	0	1	3	-
73	4.3	Electricity cables	0	0	0	0	-
73	4.4	Gas pipelines	0	0	0	0	-
74	4.5	Sites determined as Contaminated Land	0	0	0	0	-



74	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
74	4.7	Regulated explosive sites	0	0	0	0	-
74	4.8	Hazardous substance storage/usage	0	0	0	0	-
74	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
75	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
75	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	4	3	-
76	4.12	Radioactive Substance Authorisations	0	0	0	0	-
76	4.13	<u>Licensed Discharges to controlled waters</u>	0	5	19	19	-
83	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
83	4.15	Pollutant release to public sewer	0	0	0	0	-
83	4.16	List 1 Dangerous Substances	0	0	0	0	-
83	4.17	List 2 Dangerous Substances	0	0	0	0	-
83	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	1	0	7	-
84	4.19	Pollution inventory substances	0	0	0	0	-
85	4.20	Pollution inventory waste transfers	0	0	0	0	-
85	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
86	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
88	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
89	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
90	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
90	5.5	Groundwater vulnerability- local information	None (within 0m)				
91	5.6	<u>Groundwater abstractions</u>	0	0	1	0	38
101	5.7	<u>Surface water abstractions</u>	0	0	0	2	4
103	5.8	<u>Potable abstractions</u>	0	0	0	0	9
106	5.9	Source Protection Zones	0	0	0	0	-
106	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
107	6.1	<u>Water Network (OS MasterMap)</u>	0	1	23	-	-



109	6.2	<u>Surface water features</u>	1	3	9	-	-
110	6.3	<u>WFD Surface water body catchments</u>	2	-	-	-	-
110	6.4	<u>WFD Surface water bodies</u>	0	1	2	-	-
111	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
112	7.1	<u>Risk of Flooding from Rivers and Sea (RoFRaS)</u>	High (within 50m)				
113	7.2	<u>Historical Flood Events</u>	0	0	1	-	-
113	7.3	Flood Defences	0	0	0	-	-
113	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
114	7.5	Flood Storage Areas	0	0	0	-	-
115	7.6	<u>Flood Zone 2</u>	Identified (within 50m)				
116	7.7	<u>Flood Zone 3</u>	Identified (within 50m)				
Page	Section	Surface water flooding					
117	8.1	<u>Surface water flooding</u>	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
119	9.1	<u>Groundwater flooding</u>	High (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
120	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
120	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
120	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
120	10.4	Special Protection Areas (SPA)	0	0	0	0	0
121	10.5	National Nature Reserves (NNR)	0	0	0	0	0
121	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
121	10.7	Designated Ancient Woodland	0	0	0	0	0
121	10.8	Biosphere Reserves	0	0	0	0	0
122	10.9	Forest Parks	0	0	0	0	0
122	10.10	Marine Conservation Zones	0	0	0	0	0
122	10.11	Green Belt	0	0	0	0	0
122	10.12	Proposed Ramsar sites	0	0	0	0	0



122	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
123	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
123	10.15	Nitrate Sensitive Areas	0	0	0	0	0
<u>123</u>	<u>10.16</u>	<u>Nitrate Vulnerable Zones</u>	0	0	0	1	2
<u>124</u>	<u>10.17</u>	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
125	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
126	11.1	World Heritage Sites	0	0	0	-	-
127	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
127	11.3	National Parks	0	0	0	-	-
<u>127</u>	<u>11.4</u>	<u>Listed Buildings</u>	0	1	11	-	-
<u>128</u>	<u>11.5</u>	<u>Conservation Areas</u>	1	0	0	-	-
129	11.6	Scheduled Ancient Monuments	0	0	0	-	-
129	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
<u>130</u>	<u>12.1</u>	<u>Agricultural Land Classification</u>	Urban (within 250m)				
131	12.2	Open Access Land	0	0	0	-	-
131	12.3	Tree Felling Licences	0	0	0	-	-
131	12.4	Environmental Stewardship Schemes	0	0	0	-	-
131	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
132	13.1	Priority Habitat Inventory	0	0	0	-	-
132	13.2	Habitat Networks	0	0	0	-	-
<u>133</u>	<u>13.3</u>	<u>Open Mosaic Habitat</u>	0	1	5	-	-
133	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
<u>134</u>	<u>14.1</u>	<u>10k Availability</u>	Identified (within 500m)				
<u>135</u>	<u>14.2</u>	<u>Artificial and made ground (10k)</u>	0	2	4	3	-
<u>137</u>	<u>14.3</u>	<u>Superficial geology (10k)</u>	1	0	3	3	-

138	14.4	Landslip (10k)	0	0	0	0	-
<u>139</u>	<u>14.5</u>	<u>Bedrock geology (10k)</u>	1	0	0	0	-
140	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
<u>141</u>	<u>15.1</u>	<u>50k Availability</u>	Identified (within 500m)				
<u>142</u>	<u>15.2</u>	<u>Artificial and made ground (50k)</u>	0	0	1	0	-
143	15.3	Artificial ground permeability (50k)	0	0	-	-	-
<u>144</u>	<u>15.4</u>	<u>Superficial geology (50k)</u>	1	0	3	3	-
<u>145</u>	<u>15.5</u>	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
145	15.6	Landslip (50k)	0	0	0	0	-
145	15.7	Landslip permeability (50k)	None (within 50m)				
<u>146</u>	<u>15.8</u>	<u>Bedrock geology (50k)</u>	1	0	0	0	-
<u>147</u>	<u>15.9</u>	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
147	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
<u>148</u>	<u>16.1</u>	<u>BGS Boreholes</u>	6	28	133	-	-
Page	Section	Natural ground subsidence					
<u>156</u>	<u>17.1</u>	<u>Shrink swell clays</u>	Very low (within 50m)				
<u>157</u>	<u>17.2</u>	<u>Running sands</u>	Low (within 50m)				
<u>158</u>	<u>17.3</u>	<u>Compressible deposits</u>	Moderate (within 50m)				
<u>160</u>	<u>17.4</u>	<u>Collapsible deposits</u>	Very low (within 50m)				
<u>161</u>	<u>17.5</u>	<u>Landslides</u>	Very low (within 50m)				
<u>162</u>	<u>17.6</u>	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
164	18.1	Natural cavities	0	0	0	0	-
165	18.2	BritPits	0	0	0	0	-
<u>165</u>	<u>18.3</u>	<u>Surface ground workings</u>	12	8	32	-	-
<u>167</u>	<u>18.4</u>	<u>Underground workings</u>	0	0	0	0	5
167	18.5	Historical Mineral Planning Areas	0	0	0	0	-



168	18.6	Non-coal mining	0	0	0	0	0
<u>168</u>	<u>18.7</u>	<u>Mining cavities</u>	0	0	0	0	1
<u>168</u>	<u>18.8</u>	<u>JPB mining areas</u>	Identified (within 0m)				
<u>169</u>	<u>18.9</u>	<u>Coal mining</u>	Identified (within 0m)				
169	18.10	Brine areas	None (within 0m)				
169	18.11	Gypsum areas	None (within 0m)				
170	18.12	Tin mining	None (within 0m)				
170	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
<u>171</u>	<u>19.1</u>	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
<u>172</u>	<u>20.1</u>	<u>BGS Estimated Background Soil Chemistry</u>	2	1	-	-	-
<u>172</u>	<u>20.2</u>	<u>BGS Estimated Urban Soil Chemistry</u>	9	5	-	-	-
<u>173</u>	<u>20.3</u>	<u>BGS Measured Urban Soil Chemistry</u>	0	1	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
174	21.1	Underground railways (London)	0	0	0	-	-
174	21.2	Underground railways (Non-London)	0	0	0	-	-
175	21.3	Railway tunnels	0	0	0	-	-
<u>175</u>	<u>21.4</u>	<u>Historical railway and tunnel features</u>	10	14	72	-	-
179	21.5	Royal Mail tunnels	0	0	0	-	-
<u>179</u>	<u>21.6</u>	<u>Historical railways</u>	0	8	15	-	-
<u>180</u>	<u>21.7</u>	<u>Railways</u>	0	15	63	-	-
183	21.8	Crossrail 1	0	0	0	0	-
183	21.9	Crossrail 2	0	0	0	0	-
183	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2021. All Rights Reserved.

Capture Date: 22/04/2019

Site Area: 1.83ha



Recent site history - 2015 aerial photograph



Capture Date: 11/06/2015

Site Area: 1.83ha



Recent site history - 2009 aerial photograph



Capture Date: 02/06/2009

Site Area: 1.83ha



Recent site history - 2000 aerial photograph

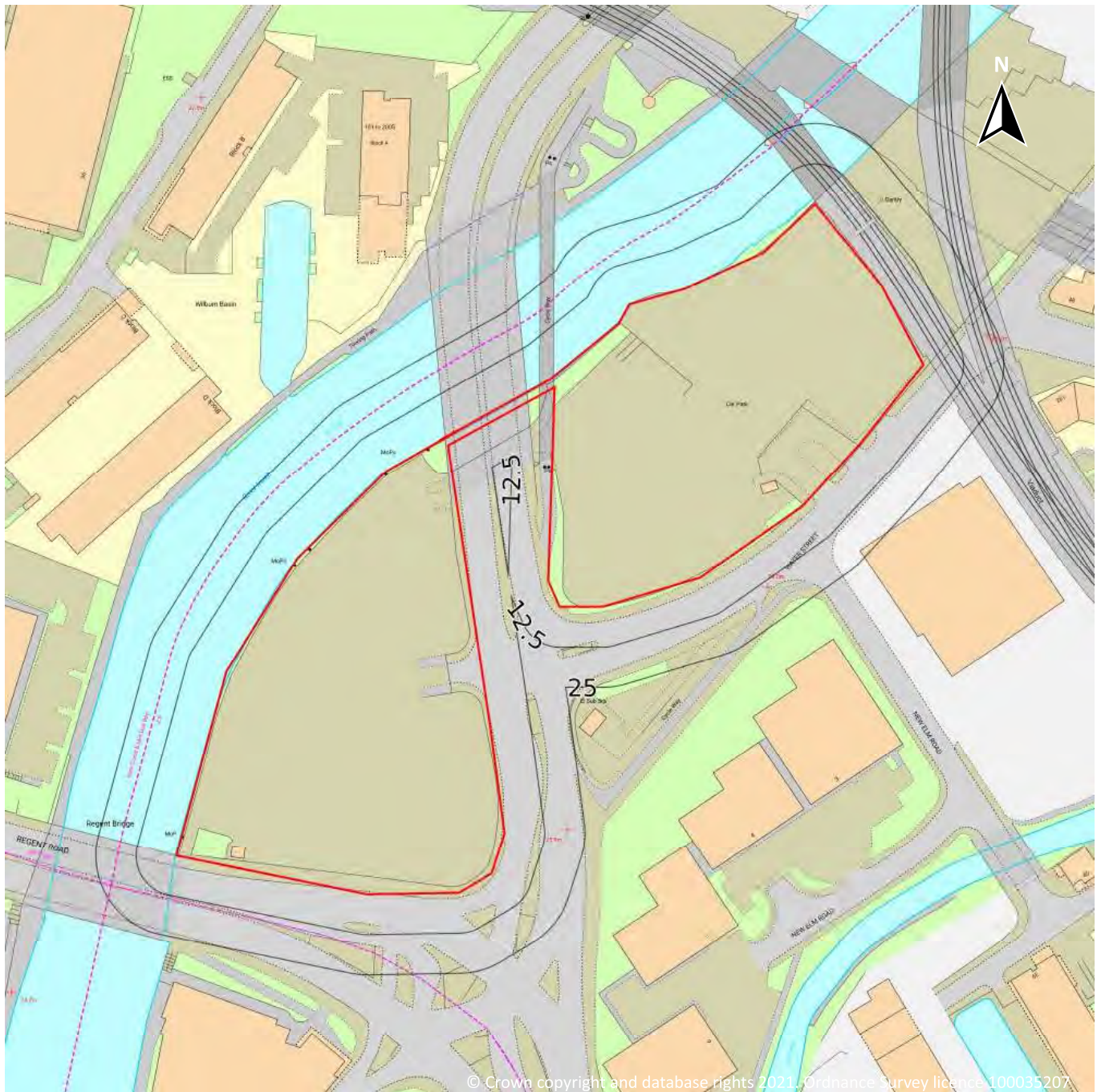


Capture Date: 27/06/2000

Site Area: 1.83ha



OS MasterMap site plan



Site Area: 1.83ha



1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

1.1 Historical industrial land uses

Records within 500m

296

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
1	On site	Brewery	1851	822705

ID	Location	Land use	Dates present	Group ID
A	On site	Quay	1851	808070
A	On site	Chemical Works	1851	834546
A	On site	Unspecified Depot	1978	848064
A	On site	Unspecified Depot	1985	873557
A	On site	Unspecified Depot	1988	876447
A	On site	Unspecified Depot	1971	889604
A	On site	Corporation Yard	1896	896211
A	On site	Corporation Yard	1923	899229
A	On site	Cleansing Depot	1956	901006
A	On site	Cleansing Depot	1932 - 1938	902946
A	On site	Corporation Yard	1905	974049
A	On site	Corporation Yard	1916	987793
B	On site	Refuse Heap	1851	829085
B	On site	Dye Works	1851	833958
C	On site	Railway Sidings	1971	888837
C	On site	Railway Sidings	1985	891167
C	On site	Railway Sidings	1978	944715
C	On site	Railway Sidings	1956	956450
C	13m NE	Railway Sidings	1923	921834
E	16m NE	Railway Sidings	1932	936526
E	16m NE	Railway Sidings	1905	984895
F	16m NE	Railway Sidings	1916 - 1938	893253
F	17m NE	Railway Sidings	1894	920471
G	20m NE	Railway Sidings	1988 - 1994	962023
C	20m NE	Railway Sidings	1896	979167
D	21m SE	Refuse Heap	1851	829086
D	24m SE	Unspecified Commercial/Industrial	1923	796721
2	29m NW	Corporation Yard	1916 - 1923	939407



ID	Location	Land use	Dates present	Group ID
3	34m W	Cotton Mill	1851	797895
G	35m NE	Railway Building	1905 - 1916	858395
G	35m NE	Railway Building	1932 - 1938	966518
G	41m E	Railway Buildings	1896	833655
H	42m NW	Railway Building	1923	855519
I	43m SW	Unspecified Commercial/Industrial	1956 - 1971	941987
G	44m NE	Goods Depot	1978	893922
G	44m NE	Goods Depot	1971	912312
H	47m N	Railway Sidings	1851	861529
J	50m NE	Railway Building	1923	969528
H	50m NW	Railway Building	1905 - 1916	930060
H	50m NW	Railway Building	1932 - 1938	946353
J	50m NE	Railway Building	1932 - 1938	903707
J	50m NE	Railway Building	1905 - 1916	865666
G	54m NE	Unspecified Commercial/Industrial	1851	796722
J	57m NE	Railway Building	1923	820443
K	57m W	Unspecified Commercial/Industrial	1916 - 1938	919087
K	57m W	Unspecified Commercial/Industrial	1905	980628
J	58m NE	Railway Building	1956	820442
G	60m NE	Goods Station	1905 - 1938	920947
H	69m N	Railway Building	1932 - 1938	895977
H	69m N	Railway Building	1905 - 1916	903757
G	70m NE	Railway Sidings	1851	921813
4	71m SE	Paper Mill	1851	833296
J	72m NE	Railway Building	1956	820440
G	73m NE	Railway Building	1985 - 1994	858030
G	73m NE	Railway Building	1956 - 1971	893290
G	73m NE	Railway Building	1978	963323



ID	Location	Land use	Dates present	Group ID
H	75m N	Railway Building	1896	844983
H	78m N	Railway Building	1956	978275
L	97m N	Unspecified Wharf	1916 - 1923	884372
G	111m NE	Railway Buildings	1923	925398
G	112m NE	Railway Buildings	1905 - 1916	876717
G	112m NE	Railway Buildings	1932 - 1938	894881
M	112m S	Unspecified Warehouses	1905	812726
M	112m S	Unspecified Warehouse	1916 - 1938	867773
N	117m N	Unspecified Ground Workings	1905 - 1916	978845
K	121m W	Unspecified Commercial/Industrial	1932 - 1938	861402
K	121m W	Unspecified Commercial/Industrial	1905	881193
K	121m W	Iron Works	1916 - 1923	949359
M	122m S	Quay	1851	808069
I	124m SW	Silk and Cotton Mill	1851	810085
N	125m N	Unspecified Ground Workings	1956	950880
7	128m NW	Railway Buildings	1923	833654
C	128m NW	Mineral Yard	1923	893171
C	129m NW	Mineral Yard	1916	903719
G	129m NE	Railway Building	1923	820441
N	132m N	Unspecified Ground Workings	1988	877209
C	134m NW	Mineral Yard	1932 - 1938	926505
N	138m NE	Unspecified Ground Workings	1923 - 1938	892127
O	143m NW	Unspecified Works	1978	853423
O	143m NW	Unspecified Works	1985 - 1994	919158
K	143m SW	Unspecified Heap	1851	804001
P	147m N	Railway Sidings	1923	969001
Q	156m SE	Unspecified Wharves	1905 - 1916	881666
Q	156m SE	Unspecified Wharves	1932 - 1938	937403



ID	Location	Land use	Dates present	Group ID
P	159m N	Railway Sidings	1896	881141
C	159m NW	Railway Buildings	1896	833652
R	163m SE	Unspecified Depot	1985 - 1988	896077
F	164m N	Railway Sidings	1978	956875
F	164m N	Railway Sidings	1971	969970
P	164m N	Railway Sidings	1956	985870
C	164m NW	Railway Station	1905 - 1938	989189
G	166m NE	Railway Building	1916 - 1923	854882
S	173m SW	Iron Works	1916 - 1923	873229
S	173m SW	Unspecified Commercial/Industrial	1932 - 1938	846750
S	173m SW	Unspecified Commercial/Industrial	1905	870019
C	175m NW	Railway Building	1971	820335
C	178m NW	Railway Station	1956	893823
G	180m NE	Goods Sheds	1905 - 1938	895888
T	182m NW	Railway Sidings	1988 - 1994	982507
C	184m NW	Railway Building	1896	945096
C	186m NW	Railway Building	1971	987093
G	186m NE	Railway Building	1896	878088
G	187m NE	Railway Building	1956 - 1971	913293
G	187m NE	Railway Building	1985	916120
G	187m NE	Railway Building	1978	967702
C	190m NW	Railway Building	1923	820334
C	191m NW	Railway Station	1896	879526
C	194m NW	Railway Building	1956 - 1971	920020
U	195m E	Goods Sheds	1905 - 1938	958104
U	204m E	Railway Buildings	1896	833656
C	208m NW	Railway Building	1896	894206
C	212m NW	Railway Building	1971	923574



ID	Location	Land use	Dates present	Group ID
V	213m S	Railway Building	1932 - 1938	912895
11	215m SE	Wharf	1851	831113
V	217m S	Railway Building	1923	820273
U	227m E	Railway Sidings	1956	951082
W	228m NW	Unspecified Works	1978	864375
W	228m NW	Rolling Mills	1956	876625
W	228m NW	Unspecified Works	1971	926973
W	228m NW	Unspecified Works	1985 - 1994	965056
U	232m E	Railway Building	1978	848652
U	232m E	Railway Building	1971	911620
U	232m E	Railway Building	1985	938373
W	234m NW	Rolling Mills	1932 - 1938	961742
C	236m NW	Railway Building	1956 - 1971	870911
13	237m SE	Timber Wharf	1851	811392
X	237m NW	Railway Building	1923 - 1956	899189
V	240m SE	Unspecified Commercial/Industrial	1956 - 1971	923803
C	243m NW	Unspecified Commercial/Industrial	1851	796728
V	243m SE	Unspecified Commercial/Industrial	1905	894637
V	243m SE	Unspecified Mills	1916 - 1938	928073
Y	243m SE	Quay	1851	846276
X	243m NW	Railway Building	1896	869504
C	244m NW	Railway Sidings	1851	894091
Y	245m SE	Unspecified Depot	1978	853404
Y	245m SE	Unspecified Depot	1985 - 1994	921090
U	246m E	Goods Sheds	1905 - 1938	880509
X	246m NW	Railway Building	1916	846329
X	246m NW	Railway Building	1905	894349
V	247m S	Unspecified Commercial/Industrial	1896	861626



ID	Location	Land use	Dates present	Group ID
Z	252m SE	Unspecified Ground Workings	1851	800610
U	254m E	Goods Station	1956	821661
U	254m E	Railway Building	1978	907268
U	254m E	Railway Building	1985	923295
U	254m E	Railway Building	1971	983624
AA	258m N	Railway Building	1923	820439
AB	264m SW	Unspecified Works	1978	845316
AB	264m SW	Unspecified Works	1985 - 1988	941424
S	269m SW	Unspecified Works	1978	830431
V	269m S	Unspecified Mills	1978	870292
AA	271m N	Goods Sheds	1916 - 1938	911217
AA	271m N	Railway Building	1896 - 1905	941745
C	271m NW	Railway Sidings	1851	873408
V	272m S	Railway Building	1932 - 1938	920704
F	275m NW	Unspecified Commercial/Industrial	1851	796726
Z	275m SE	Railway Building	1932 - 1938	878526
V	276m S	Railway Buildings	1923	833632
Z	278m SE	Railway Buildings	1905	833631
Z	278m SE	Railway Building	1916 - 1923	906988
P	282m N	Coal Wharf	1851	794096
P	283m NW	Goods Sheds	1932 - 1938	934189
P	283m NW	Railway Building	1905 - 1923	961112
P	284m N	Railway Building	1956 - 1971	865250
P	284m N	Goods Sheds	1916 - 1938	858648
P	284m N	Railway Building	1896 - 1905	885708
P	284m NW	Railway Building	1896	872083
V	287m S	Iron Works	1905	822792
V	287m S	Unspecified Commercial/Industrial	1916 - 1923	850018



ID	Location	Land use	Dates present	Group ID
V	287m S	Unspecified Commercial/Industrial	1896	974596
17	287m SE	Gravel Pit	1851	807881
P	289m N	Goods Station	1956	821662
P	289m N	Railway Building	1971	858093
V	293m S	Railway Building	1932 - 1938	845151
AA	296m N	Railway Building	1978	911553
P	301m N	Railway Building	1978	943408
V	308m S	Unspecified Commercial/Industrial	1923	965943
W	313m NW	Iron Rolling Mill	1851	842370
Y	320m SE	Unspecified Ground Workings	1851	800608
P	321m N	Railway Building	1978	960884
Y	321m SE	Warehouse	1851	837277
L	327m NE	Railway Building	1923	820436
U	328m E	Railway Buildings	1932 - 1938	921932
P	330m N	Railway Sidings	1851	927306
C	335m NW	Unspecified Ground Workings	1851	800619
U	338m E	Railway Building	1905 - 1923	869326
P	347m N	Railway Building	1923	852884
P	347m N	Goods Station	1932 - 1938	951250
P	347m N	Goods Station	1905 - 1916	986495
23	347m SE	Sand Pit	1851	797576
P	348m N	Railway Building	1896	903901
P	350m N	Railway Building	1956 - 1971	872390
AC	353m SW	Unspecified Works	1978	830430
AC	353m SW	Unspecified Commercial/Industrial	1956 - 1971	927269
24	353m SE	Railway Building	1905 - 1923	846298
C	355m NW	Railway Building	1923	820332
25	359m SE	Slate Wharf	1851	837258



ID	Location	Land use	Dates present	Group ID
C	359m NW	Railway Building	1916	820333
27	361m N	Railway Sidings	1906 - 1994	870586
28	361m N	Railway Sidings	1988	895913
AD	362m W	Iron Works	1905 - 1923	962223
30	362m N	Railway Building	1905 - 1923	925514
V	363m S	Railway Building	1932 - 1938	911580
AD	363m W	Unspecified Commercial/Industrial	1932 - 1938	935038
V	368m S	Sawmill	1851	808364
F	375m NW	Railway Sidings	1851	878868
AE	381m SW	Docks	1956 - 1971	847093
AE	381m SW	Docks	1988	876412
AE	381m SW	Railway Sidings	1971	927627
AE	381m SW	Railway Sidings	1977	933048
AE	381m SW	Railway Sidings	1956 - 1959	945210
AF	384m SE	Railway Sidings	1956	917334
AF	387m SE	Railway Sidings	1905 - 1916	871753
AF	387m SE	Railway Sidings	1932 - 1938	982150
Y	388m SE	Unspecified Warehouses	1971	812727
AG	389m NE	Goods Shed	1923	971098
AF	390m SE	Railway Sidings	1923	923309
AE	391m SW	Railway Sidings	1905 - 1938	908250
AE	391m SW	Docks	1905 - 1938	930741
Z	391m SE	Railway Building	1932 - 1938	982027
Z	394m SE	Railway Building	1916	972538
AH	395m N	Railway Building	1923	952513
33	396m NW	Unspecified Pit	1851	840483
Z	396m SE	Railway Building	1923	820260
AG	396m NE	Goods Shed	1932	865590



ID	Location	Land use	Dates present	Group ID
AG	396m NE	Railway Building	1905	877060
AG	396m NE	Goods Shed	1916	953310
AG	396m NE	Goods Shed	1938	969946
AG	399m NE	Railway Building	1896 - 1956	867616
F	400m NW	Railway Sidings	1851	966500
AH	402m N	Railway Building	1896 - 1905	901284
AH	402m N	Railway Building	1916	924407
P	404m N	Railway Building	1923	902043
AH	405m N	Railway Building	1932	882954
AH	405m N	Railway Building	1938	921737
AG	406m N	Railway Sidings	1931	923806
AG	406m N	Railway Sidings	1906 - 1938	989144
T	407m NW	Railway Building	1923	820330
F	410m N	Coal Wharf	1851	794094
AH	411m N	Railway Building	1956	875151
P	411m N	Railway Building	1916	972779
AH	413m N	Railway Building	1916	865603
AH	413m N	Railway Building	1931	919220
AJ	422m SW	Unspecified Commercial/Industrial	1956 - 1971	948457
AK	425m S	Railway Building	1905	878479
AK	425m S	Railway Building	1923	892827
AL	427m E	Unspecified Works	1932 - 1938	898924
AL	427m E	Unspecified Commercial/Industrial	1905	935109
AL	427m E	Unspecified Commercial/Industrial	1923	991353
F	428m NW	Unspecified Heap	1851	804000
AM	428m NW	Railway Buildings	1923	833651
F	428m NW	Railway Buildings	1938	854183
F	428m NW	Railway Buildings	1905	948460



ID	Location	Land use	Dates present	Group ID
F	428m NW	Railway Buildings	1932	965182
F	428m NW	Railway Buildings	1916	971578
AJ	432m SW	Dye Works	1905 - 1938	911990
AE	433m SW	Docks	1896	887061
AE	433m SW	Railway Sidings	1896	986088
F	434m NW	Railway Sidings	1851	903005
AJ	435m SW	Dye Works	1851	916137
36	435m SE	Warehouse	1851	837278
AO	436m NW	Railway Sidings	1851	971744
F	437m NW	Railway Buildings	1923	872663
AG	441m N	Railway Building	1956	820437
AQ	445m SE	Railway Buildings	1905 - 1938	962263
AR	455m S	Unspecified Commercial/Industrial	1956 - 1971	952195
T	458m NW	Railway Building	1956	820336
AS	460m NE	Unspecified Yard	1923	861393
T	460m NW	Railway Building	1932 - 1938	876387
AM	462m NW	Railway Building	1905 - 1916	927812
AM	462m NW	Railway Building	1932 - 1938	978659
AJ	464m SW	Unspecified Commercial/Industrial	1896	966213
AR	466m S	Unspecified Commercial/Industrial	1938	897464
AR	466m S	Unspecified Mills	1916 - 1923	960036
AR	466m S	Unspecified Commercial/Industrial	1905	967266
39	467m W	Unspecified Works	1978	830438
AG	469m N	Railway Building	1923	820438
AT	470m NW	Railway Sidings	1938	898420
AT	470m NW	Railway Sidings	1906	882270
AT	470m NW	Railway Sidings	1916	958377
AT	470m NW	Railway Sidings	1931	961610



ID	Location	Land use	Dates present	Group ID
AO	471m NW	Railway Building	1896	820338
40	471m SE	Quay	1905 - 1938	872988
AS	472m NE	Unspecified Yard	1956	976980
AU	474m NE	Hospital	1971	860292
AU	474m NE	Hospital	1978	862722
AU	474m NE	Hospital	1985 - 1994	942775
AO	474m NW	Carriage Shed	1905 - 1938	932384
AG	474m NE	Railway Building	1906 - 1916	959450
AG	474m NE	Railway Building	1931 - 1938	960892
AG	487m N	Railway Building	1916	848664
AG	487m N	Railway Building	1931	857034
AM	489m NW	Railway Building	1923	820344
43	494m NW	Cotton Mill	1851	797896
AG	496m NE	Unspecified Tank	1923	825271
44	499m NW	Cuttings	1985	795818

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

71

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Tank	1932	115634
A	On site	Unspecified Tank	1932	115639
A	On site	Unspecified Tank	1949 - 1963	128766



ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Tank	1949 - 1963	136050
H	51m NW	Unspecified Tank	1908	131064
H	54m NW	Unspecified Tank	1893 - 1922	126917
H	55m NW	Unspecified Tank	1980	135020
H	56m NW	Unspecified Tank	1932	115640
H	56m NW	Unspecified Tank	1990	144767
H	57m NW	Unspecified Tank	1953	133553
H	57m NW	Unspecified Tank	1992 - 1997	125308
H	58m NW	Unspecified Tank	1949	129333
H	58m NW	Unspecified Tank	1963	130189
H	58m NW	Unspecified Tank	1949	137879
H	58m NW	Unspecified Tank	1949	146026
H	109m NW	Unspecified Tank	1949	115641
8	139m NW	Tanks	1980	106793
C	177m NW	Unspecified Tank	1893	115630
R	189m SE	Unspecified Tank	1963	131255
R	190m SE	Unspecified Tank	1963	133635
12	225m NE	Unspecified Tank	1948 - 1983	135352
Q	252m SE	Tanks	1963	148559
V	263m S	Tanks	1948 - 1998	149178
V	264m S	Tanks	1949	140617
15	279m NE	Unspecified Tank	1891	115647
V	282m S	Unspecified Tank	1948 - 1949	123558
S	283m SW	Unspecified Tank	1891	115652
16	285m SW	Tanks	1977 - 1985	126256
L	287m NE	Tanks	1932	106800
S	288m SW	Unspecified Tank	1891	115651
S	290m SW	Unspecified Tank	1891	115653



ID	Location	Land use	Dates present	Group ID
Z	294m SE	Unspecified Tank	1922	115648
S	296m SW	Unspecified Tank	1891	115650
18	299m W	Unspecified Tank	1977	115637
C	302m NW	Unspecified Tank	1932	115635
S	309m SW	Unspecified Tank	1891	115655
S	313m SW	Unspecified Tank	1891	115654
19	315m SE	Unspecified Tank	1995 - 1998	132953
V	330m S	Unspecified Tank	1908	125058
V	330m S	Unspecified Tank	1893 - 1922	147499
F	332m NW	Tanks	1953 - 1955	137237
21	336m NE	Unspecified Tank	1957 - 1958	143482
V	344m S	Unspecified Tank	1948 - 1963	128267
29	361m SW	Unspecified Tank	1891	115656
31	362m S	Unspecified Tank	1891	115659
L	365m NE	Unspecified Tank	1893	115624
32	373m W	Unspecified Tank	1891	115638
V	390m S	Unspecified Tank	1891	115660
V	392m S	Unspecified Tank	1982 - 1998	122775
L	399m NE	Unspecified Tank	1893 - 1908	134131
34	425m NE	Unspecified Tank	1891	115644
AN	435m SW	Unspecified Tank	1963 - 1982	140444
T	442m NW	Unspecified Tank	1949 - 1963	137997
T	444m NW	Unspecified Tank	1932	115631
AH	445m N	Unspecified Tank	1891 - 1892	130475
AP	456m SE	Unspecified Tank	1960	123914
AP	456m SE	Unspecified Tank	1980	132153
AP	456m SE	Unspecified Tank	1980	143849
AP	456m SE	Unspecified Tank	1969	143958



ID	Location	Land use	Dates present	Group ID
AP	456m SE	Unspecified Tank	1963	141829
AN	458m SW	Tanks	1963 - 1982	138147
AN	458m SW	Unspecified Tank	1963 - 1977	134128
AM	460m NW	Tanks	1981	106799
AN	460m SW	Unspecified Tank	1891	115657
AN	466m SW	Unspecified Tank	1963 - 1977	138267
AG	475m NE	Unspecified Tank	1957 - 1970	123731
AG	477m NE	Unspecified Tank	1957	124181
AG	477m NE	Unspecified Tank	1962	142505
AG	477m NE	Unspecified Tank	1957	123403
AN	481m SW	Tanks	1891	107128
AQ	485m SE	Unspecified Tank	1932	115649

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

33

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
A	27m E	Electricity Substation	1990	78385
A	29m E	Electricity Substation	1992 - 1997	73642
6	109m SE	Electricity Substation	1994 - 1997	81653
10	157m SE	Electricity Substation	1980 - 1997	78864
K	169m W	Electricity Substation	1948 - 1995	77805
14	255m SW	Electricity Substation	1982 - 1995	65673



ID	Location	Land use	Dates present	Group ID
AA	256m N	Electricity Substation	1983 - 1994	74311
C	258m NW	Electricity Substation	1977 - 1985	72958
U	272m E	Electricity Substation	1981	80246
U	272m SE	Electricity Substation	1994 - 1995	83961
U	276m E	Electricity Substation	1979	77417
U	284m SE	Electricity Substation	1986	67819
U	284m SE	Electricity Substation	1990	69796
U	288m E	Electricity Substation	1948 - 1979	80738
U	288m E	Electricity Substation	1995	82695
U	302m SE	Electricity Substation	1948	82720
L	304m NE	Electricity Substation	1953	83440
L	304m NE	Electricity Substation	1949 - 1955	83698
L	304m NE	Electricity Substation	1948	85173
L	306m NE	Electricity Substation	1969 - 1970	82059
U	315m E	Electricity Substation	1986 - 1995	67220
U	316m E	Electricity Substation	1994 - 1995	65816
V	317m S	Electricity Substation	1948 - 1949	73349
20	332m NE	Electricity Substation	1994 - 1996	77564
22	344m W	Electricity Substation	1985 - 1995	71692
26	359m E	Electricity Substation	1948 - 1995	75611
AI	400m W	Electricity Substation	1995	68312
AI	400m W	Electricity Substation	1990 - 1992	65873
AP	438m SE	Electricity Substation	1995 - 1997	72564
T	448m NW	Electricity Substation	1955	74038
T	448m NW	Electricity Substation	1970	79247
T	448m NW	Electricity Substation	1970	66515
41	474m NE	Electricity Substation	1996	62102

This data is sourced from Ordnance Survey / Groundsure.



1.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

29

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
A	On site	Garage	1953	22545
A	On site	Garage	1949 - 1963	24553
A	On site	Garage	1949	25081
D	14m SE	Garage	1992 - 1997	27064
D	15m SE	Garage	1990	24593
5	79m S	Garage	1978 - 1980	27283
9	157m SE	Garage	1990	20295
R	158m SE	Boat Repair Yard	1948 - 1949	26540
R	158m SE	Boat Repair Yard	1949 - 1953	27284
U	228m E	Garage	1981 - 1990	24611
V	297m S	Omnibus Garage	1948 - 1963	24746
V	297m S	Bus Garage	1982 - 1984	27058
V	297m S	Omnibus Garage	1949 - 1963	25395
V	298m S	Omnibus Garage	1977	21743



ID	Location	Land use	Dates present	Group ID
Z	309m SE	Garage	1963 - 1981	25923
Z	309m SE	Garage	1981	20293
Z	310m SE	Garage	1986	21682
Z	357m SE	Garage	1981 - 1986	26958
Z	357m SE	Garage	1963	21869
Z	357m SE	Garage	1963	21949
35	426m W	Garage	1977 - 1979	24620
37	452m E	Garage	1981	20294
38	463m N	Garage	1948	20281
AH	467m N	Garage	1969 - 1970	25080
AH	468m N	Garage	1983	23180
AO	470m NW	Carriage Shed	1922	21529
AO	471m NW	Carriage Shed	1932	20785
AO	471m NW	Carriage Shed	1908	22332
42	486m S	Garage	1948	20266

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

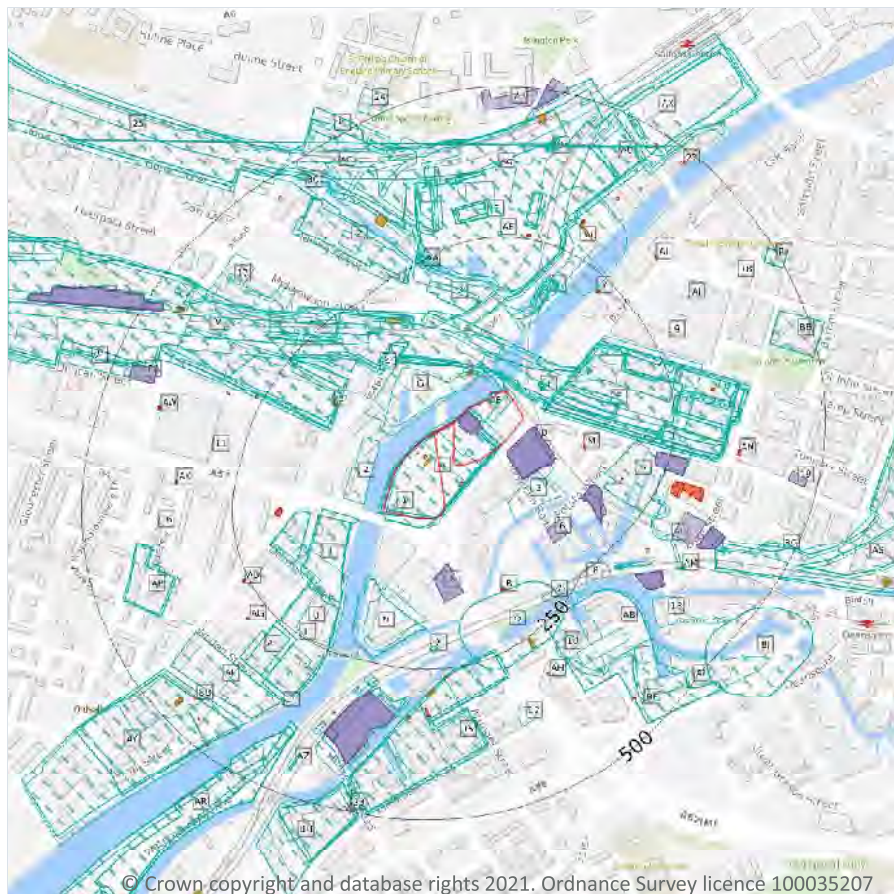
Records within 500m

0

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

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

2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

2.1 Historical industrial land uses

Records within 500m

448

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

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

ID	Location	Land Use	Date	Group ID
1	On site	Brewery	1851	822705
A	On site	Corporation Yard	1916	987793
A	On site	Corporation Yard	1905	974049



ID	Location	Land Use	Date	Group ID
A	On site	Cleansing Depot	1938	902946
A	On site	Cleansing Depot	1932	902946
A	On site	Chemical Works	1851	834546
A	On site	Quay	1851	808070
A	On site	Corporation Yard	1896	896211
A	On site	Unspecified Depot	1971	889604
A	On site	Cleansing Depot	1956	901006
A	On site	Unspecified Depot	1988	876447
A	On site	Unspecified Depot	1978	848064
A	On site	Unspecified Depot	1985	873557
A	On site	Corporation Yard	1923	899229
B	On site	Dye Works	1851	833958
B	On site	Refuse Heap	1851	829085
C	On site	Railway Sidings	1971	888837
C	On site	Railway Sidings	1956	956450
C	On site	Railway Sidings	1978	944715
C	On site	Railway Sidings	1985	891167
C	13m NE	Railway Sidings	1923	921834
E	16m NE	Railway Sidings	1938	893253
E	16m NE	Railway Sidings	1932	936526
E	16m NE	Railway Sidings	1905	984895
E	17m NE	Railway Sidings	1916	893253
F	20m NE	Railway Sidings	1988	962023
F	20m NE	Railway Sidings	1994	962023
C	20m NE	Railway Sidings	1896	979167
D	21m SE	Refuse Heap	1851	829086
D	24m SE	Unspecified Commercial/Industrial	1923	796721
G	29m NW	Corporation Yard	1923	939407



ID	Location	Land Use	Date	Group ID
G	33m NW	Corporation Yard	1916	939407
2	34m W	Cotton Mill	1851	797895
F	35m NE	Railway Building	1938	966518
F	35m NE	Railway Building	1932	966518
F	35m NE	Railway Building	1916	858395
F	35m NE	Railway Building	1905	858395
F	41m E	Railway Buildings	1896	833655
G	42m NW	Railway Building	1923	855519
H	43m SW	Unspecified Commercial/Industrial	1971	941987
H	43m SW	Unspecified Commercial/Industrial	1956	941987
F	44m NE	Goods Depot	1971	912312
F	44m NE	Goods Depot	1978	893922
G	47m N	Railway Sidings	1851	861529
I	50m NE	Railway Building	1923	969528
G	50m NW	Railway Building	1938	946353
G	50m NW	Railway Building	1932	946353
G	50m NW	Railway Building	1916	930060
G	50m NW	Railway Building	1905	930060
I	50m NE	Railway Building	1938	903707
I	50m NE	Railway Building	1932	903707
I	50m NE	Railway Building	1916	865666
I	50m NE	Railway Building	1905	865666
F	54m NE	Unspecified Commercial/Industrial	1851	796722
I	57m NE	Railway Building	1923	820443
J	57m W	Unspecified Commercial/Industrial	1938	919087
J	57m W	Unspecified Commercial/Industrial	1932	919087
J	57m W	Unspecified Commercial/Industrial	1916	919087
J	57m W	Unspecified Commercial/Industrial	1905	980628



ID	Location	Land Use	Date	Group ID
J	57m W	Unspecified Commercial/Industrial	1923	919087
I	58m NE	Railway Building	1956	820442
F	60m NE	Goods Station	1938	920947
F	60m NE	Goods Station	1932	920947
F	60m NE	Goods Station	1916	920947
F	60m NE	Goods Station	1905	920947
F	60m NE	Goods Station	1923	920947
G	69m N	Railway Building	1938	895977
G	69m N	Railway Building	1932	895977
G	69m N	Railway Building	1916	903757
G	69m N	Railway Building	1905	903757
F	70m NE	Railway Sidings	1851	921813
3	71m SE	Paper Mill	1851	833296
I	72m NE	Railway Building	1956	820440
F	73m NE	Railway Building	1971	893290
F	73m NE	Railway Building	1956	893290
F	73m NE	Railway Building	1988	858030
F	73m NE	Railway Building	1978	963323
F	73m NE	Railway Building	1985	858030
F	73m NE	Railway Building	1994	858030
G	75m N	Railway Building	1896	844983
G	78m N	Railway Building	1956	978275
L	97m N	Unspecified Wharf	1923	884372
F	111m NE	Railway Buildings	1923	925398
F	112m NE	Railway Buildings	1938	894881
F	112m NE	Railway Buildings	1932	894881
F	112m NE	Railway Buildings	1916	876717
F	112m NE	Railway Buildings	1905	876717



ID	Location	Land Use	Date	Group ID
N	112m S	Unspecified Warehouses	1905	812726
N	112m S	Unspecified Warehouse	1938	867773
N	112m S	Unspecified Warehouse	1932	867773
N	112m S	Unspecified Warehouse	1916	867773
N	112m S	Unspecified Warehouse	1923	867773
L	117m N	Unspecified Ground Workings	1905	978845
J	121m W	Unspecified Commercial/Industrial	1938	861402
J	121m W	Unspecified Commercial/Industrial	1932	861402
J	121m W	Iron Works	1916	949359
J	121m W	Unspecified Commercial/Industrial	1905	881193
J	121m W	Iron Works	1923	949359
N	122m S	Quay	1851	808069
H	124m SW	Silk and Cotton Mill	1851	810085
L	125m N	Unspecified Ground Workings	1956	950880
4	128m NW	Railway Buildings	1923	833654
C	128m NW	Mineral Yard	1923	893171
C	129m NW	Mineral Yard	1916	903719
F	129m NE	Railway Building	1923	820441
L	132m N	Unspecified Ground Workings	1988	877209
C	134m NW	Mineral Yard	1938	926505
C	134m NW	Mineral Yard	1932	926505
L	138m NE	Unspecified Ground Workings	1923	892127
O	143m NW	Unspecified Works	1988	919158
O	143m NW	Unspecified Works	1978	853423
O	143m NW	Unspecified Works	1985	919158
O	143m NW	Unspecified Works	1994	919158
J	143m SW	Unspecified Heap	1851	804001
L	145m NE	Unspecified Ground Workings	1938	892127



ID	Location	Land Use	Date	Group ID
L	145m NE	Unspecified Ground Workings	1932	892127
P	147m N	Railway Sidings	1923	969001
L	148m NE	Unspecified Ground Workings	1916	978845
Q	156m SE	Unspecified Wharves	1938	937403
Q	156m SE	Unspecified Wharves	1932	937403
Q	156m SE	Unspecified Wharves	1916	881666
Q	156m SE	Unspecified Wharves	1905	881666
P	159m N	Railway Sidings	1896	881141
C	159m NW	Railway Buildings	1896	833652
S	163m SE	Unspecified Depot	1988	896077
S	163m SE	Unspecified Depot	1985	896077
P	164m N	Railway Sidings	1956	985870
T	164m N	Railway Sidings	1971	969970
T	164m N	Railway Sidings	1978	956875
C	164m NW	Railway Station	1938	989189
C	164m NW	Railway Station	1932	989189
C	164m NW	Railway Station	1916	989189
C	164m NW	Railway Station	1905	989189
C	164m NW	Railway Station	1923	989189
F	166m NE	Railway Building	1923	854882
F	172m NE	Railway Building	1916	854882
U	173m SW	Unspecified Commercial/Industrial	1938	846750
U	173m SW	Unspecified Commercial/Industrial	1932	846750
U	173m SW	Iron Works	1916	873229
U	173m SW	Unspecified Commercial/Industrial	1905	870019
U	173m SW	Iron Works	1923	873229
C	175m NW	Railway Building	1971	820335
C	178m NW	Railway Station	1956	893823



ID	Location	Land Use	Date	Group ID
F	180m NE	Goods Sheds	1938	895888
F	180m NE	Goods Sheds	1932	895888
F	180m NE	Goods Sheds	1916	895888
F	180m NE	Goods Sheds	1905	895888
F	180m NE	Goods Sheds	1923	895888
V	182m NW	Railway Sidings	1988	982507
V	182m NW	Railway Sidings	1994	982507
C	184m NW	Railway Building	1896	945096
C	186m NW	Railway Building	1971	987093
F	186m NE	Railway Building	1896	878088
F	187m NE	Railway Building	1971	913293
F	187m NE	Railway Building	1956	913293
F	187m NE	Railway Building	1978	967702
F	187m NE	Railway Building	1985	916120
W	189m NE	Unspecified Wharf	1916	884372
C	190m NW	Railway Building	1923	820334
C	191m NW	Railway Station	1896	879526
C	194m NW	Railway Building	1971	920020
C	194m NW	Railway Building	1956	920020
S	195m E	Goods Sheds	1938	958104
S	195m E	Goods Sheds	1932	958104
S	195m E	Goods Sheds	1916	958104
S	195m E	Goods Sheds	1905	958104
S	195m E	Goods Sheds	1923	958104
S	204m E	Railway Buildings	1896	833656
C	208m NW	Railway Building	1896	894206
C	212m NW	Railway Building	1971	923574
X	213m S	Railway Building	1938	912895



ID	Location	Land Use	Date	Group ID
X	213m S	Railway Building	1932	912895
7	215m SE	Wharf	1851	831113
X	217m S	Railway Building	1923	820273
S	227m E	Railway Sidings	1956	951082
Z	228m NW	Unspecified Works	1971	926973
Z	228m NW	Rolling Mills	1956	876625
Z	228m NW	Unspecified Works	1988	965056
Z	228m NW	Unspecified Works	1978	864375
Z	228m NW	Unspecified Works	1985	965056
Z	228m NW	Unspecified Works	1994	965056
S	232m E	Railway Building	1971	911620
S	232m E	Railway Building	1978	848652
S	232m E	Railway Building	1985	938373
Z	234m NW	Rolling Mills	1938	961742
Z	234m NW	Rolling Mills	1932	961742
C	236m NW	Railway Building	1971	870911
8	237m SE	Timber Wharf	1851	811392
C	237m NW	Railway Building	1956	870911
AA	237m NW	Railway Building	1923	899189
X	240m SE	Unspecified Commercial/Industrial	1971	923803
X	240m SE	Unspecified Commercial/Industrial	1956	923803
C	243m NW	Unspecified Commercial/Industrial	1851	796728
X	243m SE	Unspecified Mills	1938	928073
X	243m SE	Unspecified Mills	1932	928073
X	243m SE	Unspecified Mills	1916	928073
X	243m SE	Unspecified Commercial/Industrial	1905	894637
X	243m SE	Unspecified Mills	1923	928073
AB	243m SE	Quay	1851	846276



ID	Location	Land Use	Date	Group ID
AA	243m NW	Railway Building	1896	869504
C	244m NW	Railway Sidings	1851	894091
AB	245m SE	Unspecified Depot	1988	921090
AB	245m SE	Unspecified Depot	1978	853404
AB	245m SE	Unspecified Depot	1985	921090
AB	245m SE	Unspecified Depot	1994	921090
S	246m E	Goods Sheds	1938	880509
S	246m E	Goods Sheds	1932	880509
S	246m E	Goods Sheds	1916	880509
S	246m E	Goods Sheds	1905	880509
S	246m E	Goods Sheds	1923	880509
AA	246m NW	Railway Building	1938	899189
AA	246m NW	Railway Building	1932	899189
AA	246m NW	Railway Building	1916	846329
AA	246m NW	Railway Building	1905	894349
AA	246m NW	Railway Building	1956	899189
X	247m S	Unspecified Commercial/Industrial	1896	861626
AC	252m SE	Unspecified Ground Workings	1851	800610
S	254m E	Railway Building	1971	983624
S	254m E	Goods Station	1956	821661
S	254m E	Railway Building	1978	907268
S	254m E	Railway Building	1985	923295
AE	258m N	Railway Building	1923	820439
AF	264m SW	Unspecified Works	1988	941424
AF	264m SW	Unspecified Works	1978	845316
AF	264m SW	Unspecified Works	1985	941424
U	269m SW	Unspecified Works	1978	830431
X	269m S	Unspecified Mills	1978	870292



ID	Location	Land Use	Date	Group ID
AE	271m N	Goods Sheds	1938	911217
AE	271m N	Goods Sheds	1932	911217
AE	271m N	Goods Sheds	1916	911217
AE	271m N	Railway Building	1905	941745
AE	271m N	Goods Sheds	1923	911217
C	271m NW	Railway Sidings	1851	873408
X	272m S	Railway Building	1938	920704
X	272m S	Railway Building	1932	920704
T	275m NW	Unspecified Commercial/Industrial	1851	796726
AE	275m N	Railway Building	1896	941745
AC	275m SE	Railway Building	1938	878526
AC	275m SE	Railway Building	1932	878526
X	276m S	Railway Buildings	1923	833632
AC	278m SE	Railway Buildings	1905	833631
AC	278m SE	Railway Building	1916	906988
AC	280m SE	Railway Building	1923	906988
P	282m N	Coal Wharf	1851	794096
P	283m NW	Goods Sheds	1938	934189
P	283m NW	Goods Sheds	1932	934189
P	283m NW	Railway Building	1916	961112
P	283m NW	Railway Building	1905	961112
P	283m NW	Railway Building	1923	961112
P	284m N	Railway Building	1971	865250
P	284m N	Railway Building	1956	865250
P	284m N	Goods Sheds	1938	858648
P	284m N	Goods Sheds	1932	858648
P	284m N	Goods Sheds	1916	858648
P	284m N	Railway Building	1905	885708



ID	Location	Land Use	Date	Group ID
P	284m N	Goods Sheds	1923	858648
P	284m NW	Railway Building	1896	872083
P	287m N	Railway Building	1896	885708
X	287m S	Unspecified Commercial/Industrial	1916	850018
X	287m S	Iron Works	1905	822792
X	287m S	Unspecified Commercial/Industrial	1923	850018
X	287m S	Unspecified Commercial/Industrial	1896	974596
10	287m SE	Gravel Pit	1851	807881
P	289m N	Railway Building	1971	858093
P	289m N	Goods Station	1956	821662
X	293m S	Railway Building	1938	845151
X	293m S	Railway Building	1932	845151
AE	296m N	Railway Building	1978	911553
P	301m N	Railway Building	1978	943408
X	308m S	Unspecified Commercial/Industrial	1923	965943
Z	313m NW	Iron Rolling Mill	1851	842370
AB	320m SE	Unspecified Ground Workings	1851	800608
P	321m N	Railway Building	1978	960884
AB	321m SE	Warehouse	1851	837277
W	327m NE	Railway Building	1923	820436
S	328m E	Railway Buildings	1938	921932
S	328m E	Railway Buildings	1932	921932
P	330m N	Railway Sidings	1851	927306
C	335m NW	Unspecified Ground Workings	1851	800619
S	338m E	Railway Building	1916	869326
S	338m E	Railway Building	1905	869326
S	338m E	Railway Building	1923	869326
P	347m N	Goods Station	1938	951250



ID	Location	Land Use	Date	Group ID
P	347m N	Goods Station	1932	951250
P	347m N	Goods Station	1916	986495
P	347m N	Goods Station	1905	986495
P	347m N	Railway Building	1923	852884
12	347m SE	Sand Pit	1851	797576
P	348m N	Railway Building	1896	903901
P	350m N	Railway Building	1971	872390
P	350m N	Railway Building	1956	872390
AL	353m SW	Unspecified Commercial/Industrial	1971	927269
AL	353m SW	Unspecified Works	1978	830430
AM	353m SE	Railway Building	1916	846298
AM	353m SE	Railway Building	1905	846298
AM	353m SE	Railway Building	1923	846298
AL	354m SW	Unspecified Commercial/Industrial	1956	927269
C	355m NW	Railway Building	1923	820332
13	359m SE	Slate Wharf	1851	837258
C	359m NW	Railway Building	1916	820333
AO	361m N	Railway Sidings	1994	870586
AO	361m N	Railway Sidings	1988	895913
AP	362m W	Iron Works	1916	962223
AP	362m W	Iron Works	1905	962223
AP	362m W	Iron Works	1923	962223
AQ	362m N	Railway Building	1916	925514
AQ	362m N	Railway Building	1905	925514
AQ	362m N	Railway Building	1923	925514
X	363m S	Railway Building	1938	911580
X	363m S	Railway Building	1932	911580
AP	363m W	Unspecified Commercial/Industrial	1938	935038



ID	Location	Land Use	Date	Group ID
AP	363m W	Unspecified Commercial/Industrial	1932	935038
X	368m S	Sawmill	1851	808364
T	375m NW	Railway Sidings	1851	878868
AR	381m SW	Railway Sidings	1971	927627
AR	381m SW	Docks	1971	847093
AR	381m SW	Railway Sidings	1956	945210
AR	381m SW	Docks	1956	847093
AR	381m SW	Docks	1988	876412
AS	384m SE	Railway Sidings	1956	917334
AS	387m SE	Railway Sidings	1938	982150
AS	387m SE	Railway Sidings	1932	982150
AS	387m SE	Railway Sidings	1916	871753
AS	387m SE	Railway Sidings	1905	871753
AT	387m SE	Quay	1851	846276
AB	388m SE	Unspecified Warehouses	1971	812727
AU	389m NE	Goods Shed	1923	971098
AS	390m SE	Railway Sidings	1923	923309
AR	391m SW	Docks	1938	930741
AR	391m SW	Docks	1932	930741
AR	391m SW	Docks	1916	930741
AR	391m SW	Docks	1905	930741
AR	391m SW	Railway Sidings	1938	908250
AR	391m SW	Railway Sidings	1932	908250
AR	391m SW	Railway Sidings	1916	908250
AR	391m SW	Railway Sidings	1905	908250
AR	391m SW	Railway Sidings	1923	908250
AR	391m SW	Docks	1923	930741
AC	391m SE	Railway Building	1938	982027



ID	Location	Land Use	Date	Group ID
AC	391m SE	Railway Building	1932	982027
AC	394m SE	Railway Building	1916	972538
AV	395m N	Railway Building	1923	952513
17	396m NW	Unspecified Pit	1851	840483
AC	396m SE	Railway Building	1923	820260
AU	396m NE	Goods Shed	1938	969946
AU	396m NE	Goods Shed	1932	865590
AU	396m NE	Goods Shed	1916	953310
AU	396m NE	Railway Building	1905	877060
AU	399m NE	Railway Building	1896	867616
T	400m NW	Railway Sidings	1851	966500
AU	402m NE	Railway Building	1956	867616
AV	402m N	Railway Building	1916	924407
AV	402m N	Railway Building	1905	901284
P	404m N	Railway Building	1923	902043
AX	404m N	Railway Sidings	1894	920471
AV	405m N	Railway Building	1896	901284
AV	405m N	Railway Building	1938	921737
AV	405m N	Railway Building	1932	882954
AU	406m N	Railway Sidings	1938	989144
AU	406m N	Railway Sidings	1931	923806
AU	406m N	Railway Sidings	1916	893253
AU	406m N	Railway Sidings	1906	989144
V	407m NW	Railway Building	1923	820330
T	410m N	Coal Wharf	1851	794094
AV	411m N	Railway Building	1956	875151
P	411m N	Railway Building	1916	972779
AV	413m N	Railway Building	1931	919220



ID	Location	Land Use	Date	Group ID
AV	413m N	Railway Building	1916	865603
AY	422m SW	Unspecified Commercial/Industrial	1971	948457
AY	422m SW	Unspecified Commercial/Industrial	1956	948457
AZ	425m S	Railway Building	1905	878479
AZ	425m S	Railway Building	1923	892827
BB	427m E	Unspecified Works	1938	898924
BB	427m E	Unspecified Works	1932	898924
BB	427m E	Unspecified Commercial/Industrial	1905	935109
BB	427m E	Unspecified Commercial/Industrial	1923	991353
T	428m NW	Unspecified Heap	1851	804000
BC	428m NW	Railway Buildings	1923	833651
T	428m NW	Railway Buildings	1938	854183
T	428m NW	Railway Buildings	1932	965182
T	428m NW	Railway Buildings	1916	971578
T	428m NW	Railway Buildings	1905	948460
AY	432m SW	Dye Works	1938	911990
AY	432m SW	Dye Works	1932	911990
AY	432m SW	Dye Works	1916	911990
AY	432m SW	Dye Works	1905	911990
AY	432m SW	Dye Works	1923	911990
AR	433m SW	Railway Sidings	1896	986088
AR	433m SW	Docks	1896	887061
T	434m NW	Railway Sidings	1851	903005
AY	435m SW	Dye Works	1851	916137
AT	435m SE	Warehouse	1851	837278
BE	436m NW	Railway Sidings	1851	971744
T	437m NW	Railway Buildings	1923	872663
AU	441m N	Railway Building	1956	820437



ID	Location	Land Use	Date	Group ID
BG	445m SE	Railway Buildings	1938	962263
BG	445m SE	Railway Buildings	1932	962263
BG	445m SE	Railway Buildings	1916	962263
BG	445m SE	Railway Buildings	1905	962263
BG	445m SE	Railway Buildings	1923	962263
BH	455m S	Unspecified Commercial/Industrial	1971	952195
BH	455m S	Unspecified Commercial/Industrial	1956	952195
V	458m NW	Railway Building	1956	820336
AX	460m NE	Unspecified Yard	1923	861393
V	460m NW	Railway Building	1938	876387
V	460m NW	Railway Building	1932	876387
BC	462m NW	Railway Building	1938	978659
BC	462m NW	Railway Building	1932	978659
BC	462m NW	Railway Building	1916	927812
BC	462m NW	Railway Building	1905	927812
AY	464m SW	Unspecified Commercial/Industrial	1896	966213
BH	466m S	Unspecified Commercial/Industrial	1938	897464
BH	466m S	Unspecified Mills	1916	960036
BH	466m S	Unspecified Commercial/Industrial	1905	967266
BH	466m S	Unspecified Mills	1923	960036
21	467m W	Unspecified Works	1978	830438
AU	469m N	Railway Building	1923	820438
BI	470m NW	Railway Sidings	1938	898420
BI	470m NW	Railway Sidings	1931	961610
BI	470m NW	Railway Sidings	1916	958377
BI	470m NW	Railway Sidings	1906	882270
BE	471m NW	Railway Building	1896	820338
BJ	471m SE	Quay	1938	872988



ID	Location	Land Use	Date	Group ID
BJ	471m SE	Quay	1932	872988
BJ	471m SE	Quay	1916	872988
BJ	471m SE	Quay	1905	872988
BJ	471m SE	Quay	1923	872988
AX	472m NE	Unspecified Yard	1956	976980
BK	474m NE	Hospital	1971	860292
BK	474m NE	Hospital	1988	942775
BK	474m NE	Hospital	1978	862722
BK	474m NE	Hospital	1985	942775
BK	474m NE	Hospital	1994	942775
BE	474m NW	Carriage Shed	1938	932384
BE	474m NW	Carriage Shed	1932	932384
BE	474m NW	Carriage Shed	1916	932384
BE	474m NW	Carriage Shed	1905	932384
BE	474m NW	Carriage Shed	1923	932384
AU	474m NE	Railway Building	1938	960892
AU	474m NE	Railway Building	1931	960892
AU	474m NE	Railway Building	1916	959450
AU	474m NE	Railway Building	1906	959450
AU	487m N	Railway Building	1931	857034
AU	487m N	Railway Building	1916	848664
BC	489m NW	Railway Building	1923	820344
24	494m NW	Cotton Mill	1851	797896
AU	496m NE	Unspecified Tank	1923	825271
25	499m NW	Cuttings	1985	795818

This data is sourced from Ordnance Survey / Groundsure.



2.2 Historical tanks

Records within 500m

144

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

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

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Tank	1949	136050
A	On site	Unspecified Tank	1949	128766
A	On site	Unspecified Tank	1949	136050
A	On site	Unspecified Tank	1949	128766
A	On site	Unspecified Tank	1963	128766
A	On site	Unspecified Tank	1963	136050
A	On site	Unspecified Tank	1949	128766
A	On site	Unspecified Tank	1949	136050
A	On site	Unspecified Tank	1932	115634
A	On site	Unspecified Tank	1932	115639
A	On site	Unspecified Tank	1953	136050
A	On site	Unspecified Tank	1953	128766
G	51m NW	Unspecified Tank	1908	131064
G	54m NW	Unspecified Tank	1893	126917
G	54m NW	Unspecified Tank	1922	126917
G	55m NW	Unspecified Tank	1980	135020
G	56m NW	Unspecified Tank	1932	115640
G	56m NW	Unspecified Tank	1990	144767
G	56m NW	Unspecified Tank	1990	144767
G	57m NW	Unspecified Tank	1953	133553
G	57m NW	Unspecified Tank	1995	125308
G	57m NW	Unspecified Tank	1994	125308
G	57m NW	Unspecified Tank	1993	125308



ID	Location	Land Use	Date	Group ID
G	57m NW	Unspecified Tank	1997	125308
G	57m NW	Unspecified Tank	1995	125308
G	57m NW	Unspecified Tank	1992	125308
G	58m NW	Unspecified Tank	1963	130189
G	58m NW	Unspecified Tank	1949	129333
G	58m NW	Unspecified Tank	1949	146026
G	58m NW	Unspecified Tank	1949	137879
G	109m NW	Unspecified Tank	1949	115641
5	139m NW	Tanks	1980	106793
C	177m NW	Unspecified Tank	1893	115630
S	189m SE	Unspecified Tank	1963	131255
S	190m SE	Unspecified Tank	1963	131255
S	190m SE	Unspecified Tank	1963	133635
S	191m SE	Unspecified Tank	1963	133635
Y	225m NE	Unspecified Tank	1955	135352
Y	225m NE	Unspecified Tank	1949	135352
Y	225m NE	Unspecified Tank	1955	135352
Y	225m NE	Unspecified Tank	1953	135352
Y	225m NE	Unspecified Tank	1948	135352
Y	225m NE	Unspecified Tank	1969	135352
Y	226m NE	Unspecified Tank	1983	135352
Y	226m NE	Unspecified Tank	1970	135352
Y	226m NE	Unspecified Tank	1963	135352
Q	252m SE	Tanks	1963	148559
Q	252m SE	Tanks	1963	148559
X	263m S	Tanks	1984	149178
X	263m S	Tanks	1982	149178
X	263m S	Tanks	1982	149178



ID	Location	Land Use	Date	Group ID
X	263m S	Tanks	1995	149178
X	263m S	Tanks	1998	149178
X	263m S	Tanks	1995	149178
X	264m S	Tanks	1954	149178
X	264m S	Tanks	1977	149178
X	264m S	Tanks	1963	149178
X	264m S	Tanks	1948	149178
X	264m S	Tanks	1949	140617
9	279m NE	Unspecified Tank	1891	115647
X	282m S	Unspecified Tank	1948	123558
X	282m S	Unspecified Tank	1949	123558
U	283m SW	Unspecified Tank	1891	115652
AG	285m SW	Tanks	1979	126256
AG	285m SW	Tanks	1985	126256
AG	286m SW	Tanks	1982	126256
AG	286m SW	Tanks	1977	126256
W	287m NE	Tanks	1932	106800
U	288m SW	Unspecified Tank	1891	115651
U	290m SW	Unspecified Tank	1891	115653
AC	294m SE	Unspecified Tank	1922	115648
U	296m SW	Unspecified Tank	1891	115650
11	299m W	Unspecified Tank	1977	115637
C	302m NW	Unspecified Tank	1932	115635
U	309m SW	Unspecified Tank	1891	115655
U	313m SW	Unspecified Tank	1891	115654
AH	315m SE	Unspecified Tank	1997	132953
AH	315m SE	Unspecified Tank	1995	132953
AH	315m SE	Unspecified Tank	1998	132953



ID	Location	Land Use	Date	Group ID
AH	315m SE	Unspecified Tank	1995	132953
X	330m S	Unspecified Tank	1893	147499
X	330m S	Unspecified Tank	1908	125058
X	330m S	Unspecified Tank	1922	147499
T	332m NW	Tanks	1955	137237
T	332m NW	Tanks	1955	137237
T	332m NW	Tanks	1953	137237
AJ	336m NE	Unspecified Tank	1957	143482
AJ	337m NE	Unspecified Tank	1958	143482
X	344m S	Unspecified Tank	1954	128267
X	344m S	Unspecified Tank	1963	128267
X	344m S	Unspecified Tank	1948	128267
X	344m S	Unspecified Tank	1963	128267
X	344m S	Unspecified Tank	1949	128267
14	361m SW	Unspecified Tank	1891	115656
15	362m S	Unspecified Tank	1891	115659
W	365m NE	Unspecified Tank	1893	115624
16	373m W	Unspecified Tank	1891	115638
X	390m S	Unspecified Tank	1891	115660
X	392m S	Unspecified Tank	1984	122775
X	392m S	Unspecified Tank	1982	122775
X	392m S	Unspecified Tank	1982	122775
X	392m S	Unspecified Tank	1997	122775
X	392m S	Unspecified Tank	1995	122775
X	392m S	Unspecified Tank	1998	122775
X	392m S	Unspecified Tank	1995	122775
W	399m NE	Unspecified Tank	1893	134131
W	401m NE	Unspecified Tank	1908	134131



ID	Location	Land Use	Date	Group ID
18	425m NE	Unspecified Tank	1891	115644
BD	435m SW	Unspecified Tank	1963	140444
BD	435m SW	Unspecified Tank	1963	140444
BD	435m SW	Unspecified Tank	1977	140444
BD	436m SW	Unspecified Tank	1982	140444
V	442m NW	Unspecified Tank	1955	137997
V	442m NW	Unspecified Tank	1949	137997
V	442m NW	Unspecified Tank	1955	137997
V	442m NW	Unspecified Tank	1955	137997
V	442m NW	Unspecified Tank	1949	137997
V	443m NW	Unspecified Tank	1963	137997
V	444m NW	Unspecified Tank	1932	115631
AV	445m N	Unspecified Tank	1891	130475
AV	445m N	Unspecified Tank	1892	130475
AV	445m N	Unspecified Tank	1892	130475
BF	456m SE	Unspecified Tank	1960	123914
BF	456m SE	Unspecified Tank	1969	143958
BF	456m SE	Unspecified Tank	1980	132153
BF	456m SE	Unspecified Tank	1980	143849
BF	456m SE	Unspecified Tank	1963	141829
BD	458m SW	Tanks	1963	138147
BD	458m SW	Unspecified Tank	1963	134128
BD	458m SW	Unspecified Tank	1977	134128
BD	458m SW	Tanks	1982	138147
BC	460m NW	Tanks	1981	106799
BD	460m SW	Unspecified Tank	1891	115657
BD	466m SW	Unspecified Tank	1963	138267
BD	466m SW	Unspecified Tank	1977	138267



ID	Location	Land Use	Date	Group ID
AU	475m NE	Unspecified Tank	1957	123731
AU	475m NE	Unspecified Tank	1958	123731
AU	475m NE	Unspecified Tank	1970	123731
AU	475m NE	Unspecified Tank	1963	123731
AU	477m NE	Unspecified Tank	1962	142505
AU	477m NE	Unspecified Tank	1957	124181
AU	477m NE	Unspecified Tank	1957	123403
BD	481m SW	Tanks	1891	107128
BG	485m SE	Unspecified Tank	1932	115649

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

108

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

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

ID	Location	Land Use	Date	Group ID
A	27m E	Electricity Substation	1990	78385
A	29m E	Electricity Substation	1995	73642
A	29m E	Electricity Substation	1994	73642
A	29m E	Electricity Substation	1993	73642
A	29m E	Electricity Substation	1997	73642
A	29m E	Electricity Substation	1995	73642
A	29m E	Electricity Substation	1992	73642
M	109m SE	Electricity Substation	1995	81653
M	109m SE	Electricity Substation	1995	81653
M	109m SE	Electricity Substation	1994	81653
M	110m SE	Electricity Substation	1997	81653



ID	Location	Land Use	Date	Group ID
R	157m SE	Electricity Substation	1995	78864
R	157m SE	Electricity Substation	1994	78864
R	157m SE	Electricity Substation	1993	78864
R	157m SE	Electricity Substation	1997	78864
R	157m SE	Electricity Substation	1995	78864
R	157m SE	Electricity Substation	1992	78864
R	158m SE	Electricity Substation	1990	78864
R	158m SE	Electricity Substation	1990	78864
R	158m SE	Electricity Substation	1980	78864
J	169m W	Electricity Substation	1948	77805
J	169m W	Electricity Substation	1992	77805
J	169m W	Electricity Substation	1982	77805
J	169m W	Electricity Substation	1977	77805
J	169m W	Electricity Substation	1952	77805
J	169m W	Electricity Substation	1979	77805
J	169m W	Electricity Substation	1985	77805
J	169m W	Electricity Substation	1990	77805
J	169m W	Electricity Substation	1990	77805
J	169m W	Electricity Substation	1949	77805
J	169m W	Electricity Substation	1995	77805
J	169m W	Electricity Substation	1995	77805
J	169m W	Electricity Substation	1995	77805
AD	255m SW	Electricity Substation	1985	65673
AD	255m SW	Electricity Substation	1990	65673
AD	255m SW	Electricity Substation	1990	65673
AD	255m SW	Electricity Substation	1995	65673
AD	255m SW	Electricity Substation	1995	65673
AD	255m SW	Electricity Substation	1995	65673



ID	Location	Land Use	Date	Group ID
AD	256m SW	Electricity Substation	1992	65673
AD	256m SW	Electricity Substation	1982	65673
AE	256m N	Electricity Substation	1983	74311
AE	256m N	Electricity Substation	1990	74311
AE	256m N	Electricity Substation	1994	74311
AE	256m N	Electricity Substation	1993	74311
AE	256m N	Electricity Substation	1993	74311
AE	256m N	Electricity Substation	1993	74311
AE	256m N	Electricity Substation	1994	74311
C	258m NW	Electricity Substation	1979	72958
C	258m NW	Electricity Substation	1985	72958
C	258m NW	Electricity Substation	1982	72958
C	258m NW	Electricity Substation	1977	72958
S	272m E	Electricity Substation	1981	80246
S	272m SE	Electricity Substation	1995	83961
S	272m SE	Electricity Substation	1994	83961
S	276m E	Electricity Substation	1979	77417
S	284m SE	Electricity Substation	1986	67819
S	284m SE	Electricity Substation	1990	69796
S	288m E	Electricity Substation	1979	80738
S	288m E	Electricity Substation	1948	80738
S	288m E	Electricity Substation	1995	82695
S	302m SE	Electricity Substation	1948	82720
W	304m NE	Electricity Substation	1955	83698
W	304m NE	Electricity Substation	1949	83698
W	304m NE	Electricity Substation	1955	83698
W	304m NE	Electricity Substation	1953	83440
W	304m NE	Electricity Substation	1948	85173



ID	Location	Land Use	Date	Group ID
W	306m NE	Electricity Substation	1969	82059
W	307m NE	Electricity Substation	1970	82059
S	315m E	Electricity Substation	1986	67220
S	315m E	Electricity Substation	1990	67220
S	315m E	Electricity Substation	1995	67220
S	316m E	Electricity Substation	1995	65816
S	316m E	Electricity Substation	1994	65816
X	317m S	Electricity Substation	1948	73349
X	317m S	Electricity Substation	1949	73349
AI	332m NE	Electricity Substation	1994	77564
AI	332m NE	Electricity Substation	1996	77564
AK	344m W	Electricity Substation	1985	71692
AK	344m W	Electricity Substation	1990	71692
AK	344m W	Electricity Substation	1990	71692
AK	345m W	Electricity Substation	1995	71692
AK	345m W	Electricity Substation	1995	71692
AK	345m W	Electricity Substation	1995	71692
AK	345m W	Electricity Substation	1992	71692
AN	359m E	Electricity Substation	1986	75611
AN	359m E	Electricity Substation	1990	75611
AN	360m E	Electricity Substation	1981	75611
AN	360m E	Electricity Substation	1979	75611
AN	360m E	Electricity Substation	1948	75611
AN	360m E	Electricity Substation	1995	75611
AN	360m E	Electricity Substation	1994	75611
AN	360m E	Electricity Substation	1995	75611
AN	361m E	Electricity Substation	1979	75611
AN	361m E	Electricity Substation	1948	75611



ID	Location	Land Use	Date	Group ID
AW	400m W	Electricity Substation	1995	68312
AW	400m W	Electricity Substation	1995	68312
AW	400m W	Electricity Substation	1995	68312
AW	400m W	Electricity Substation	1992	65873
AW	401m W	Electricity Substation	1990	65873
BF	438m SE	Electricity Substation	1995	72564
BF	438m SE	Electricity Substation	1997	72564
BF	438m SE	Electricity Substation	1995	72564
BF	438m SE	Electricity Substation	1997	72564
V	448m NW	Electricity Substation	1955	74038
V	448m NW	Electricity Substation	1970	79247
V	448m NW	Electricity Substation	1970	66515
22	474m NE	Electricity Substation	1996	62102

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

53

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

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

ID	Location	Land Use	Date	Group ID
A	On site	Garage	1953	22545
A	On site	Garage	1963	24553
A	On site	Garage	1949	24553
A	On site	Garage	1949	25081
A	On site	Garage	1949	25081
D	14m SE	Garage	1995	27064
D	14m SE	Garage	1992	27064
D	14m SE	Garage	1995	27064
D	14m SE	Garage	1994	27064
D	14m SE	Garage	1993	27064
D	14m SE	Garage	1997	27064
D	15m SE	Garage	1990	24593
D	15m SE	Garage	1990	24593
K	79m S	Garage	1978	27283
K	80m S	Garage	1980	27283
6	157m SE	Garage	1990	20295
S	158m SE	Boat Repair Yard	1949	27284
S	158m SE	Boat Repair Yard	1949	26540
S	158m SE	Boat Repair Yard	1949	26540
S	159m SE	Boat Repair Yard	1953	27284
S	186m SE	Boat Repair Yard	1948	26540
S	228m E	Garage	1986	24611
S	228m E	Garage	1990	24611
S	228m E	Garage	1981	24611
X	297m S	Bus Garage	1984	27058
X	297m S	Bus Garage	1982	27058
X	297m S	Bus Garage	1982	27058
X	297m S	Omnibus Garage	1954	24746



ID	Location	Land Use	Date	Group ID
X	297m S	Omnibus Garage	1963	24746
X	297m S	Omnibus Garage	1948	24746
X	297m S	Omnibus Garage	1963	25395
X	297m S	Omnibus Garage	1949	25395
X	298m S	Omnibus Garage	1977	21743
AC	309m SE	Garage	1963	25923
AC	309m SE	Garage	1981	25923
AC	309m SE	Garage	1981	20293
AC	310m SE	Garage	1963	25923
AC	310m SE	Garage	1986	21682
AC	357m SE	Garage	1986	26958
AC	357m SE	Garage	1981	26958
AC	357m SE	Garage	1963	21869
AC	357m SE	Garage	1963	21949
BA	426m W	Garage	1979	24620
BA	427m W	Garage	1977	24620
19	452m E	Garage	1981	20294
20	463m N	Garage	1948	20281
AV	467m N	Garage	1970	25080
AV	468m N	Garage	1969	25080
AV	468m N	Garage	1983	23180
BE	470m NW	Carriage Shed	1922	21529
BE	471m NW	Carriage Shed	1932	20785
BE	471m NW	Carriage Shed	1908	22332
23	486m S	Garage	1948	20266

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Historical waste sites
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

2

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

Features are displayed on the Waste and landfill map on **page 60**

ID	Location	Details		
B	37m NW	Site Address: Wilburn Street, Salford, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: E052 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded: - Last Recorded: -
4	436m NW	Site Address: Former Ordsall Lane Sidings, Oldfield Road, Salford, Greater Manchester Licence Holder Address: London Midland	Waste Licence: Yes Site Reference: E020, RD/LIC/414/85 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 14/04/1986 Licence Surrender: -	Operator: - Licence Holder: British Rail Property Board First Recorded 01/05/1986 Last Recorded: 31/12/1986

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

3.5 Historical waste sites

Records within 500m

39

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

Features are displayed on the Waste and landfill map on **page 60**

ID	Location	Address	Further Details	Date
A	On site	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1979
A	On site	Site Address: N/A	Type of Site: Refuse Destructors Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1949
A	On site	Site Address: N/A	Type of Site: Refuse Destructors Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1908
A	On site	Site Address: N/A	Type of Site: Refuse Destructors Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1922
A	On site	Site Address: N/A	Type of Site: Refuse Destructors Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1932
A	On site	Site Address: N/A	Type of Site: Refuse Destructors Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1978
A	On site	Site Address: N/A	Type of Site: Refuse Destructors Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1922
A	On site	Site Address: N/A	Type of Site: Refuse Destructors Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1932
A	On site	Site Address: N/A	Type of Site: Refuse Destructors Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1908



ID	Location	Address	Further Details	Date
A	3m SW	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1953
A	3m SW	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1952
A	3m SW	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1949
B	28m NW	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1908
B	33m NW	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1932
B	36m NW	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1908
B	36m NW	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1932
B	38m NW	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1922
B	40m NW	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1922



ID	Location	Address	Further Details	Date
B	41m NW	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1953
B	42m NW	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1908
B	43m NW	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1952
B	43m NW	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1949
B	43m NW	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1949
E	114m NW	Site Address: N/A	Type of Site: Breakers Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1979
E	114m NW	Site Address: N/A	Type of Site: Breaker's Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1979
E	118m NW	Site Address: N/A	Type of Site: Breaker's Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1979
E	119m NW	Site Address: N/A	Type of Site: Breakers Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1979



ID	Location	Address	Further Details	Date
F	126m NW	Site Address: N/A	Type of Site: Breaker's Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1979
E	140m NW	Site Address: N/A	Type of Site: Breaker's Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1979
E	140m NW	Site Address: N/A	Type of Site: Breakers Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1979
G	150m SE	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1995
G	152m SE	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1997
F	159m NW	Site Address: N/A	Type of Site: Breakers Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1979
F	229m NW	Site Address: N/A	Type of Site: Breakers Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1981
F	229m NW	Site Address: N/A	Type of Site: Breakers Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1985
F	229m NW	Site Address: N/A	Type of Site: Breaker's Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1981



ID	Location	Address	Further Details	Date
H	275m SE	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1986
H	293m SE	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1979
6	490m SW	Site Address: Unit 9, Worrall Street, SALFORD, Greater Manchester, M5 4TH	Type of Site: Waste Transfer Station (Cou) Planning application reference: 94/32143/TPDC Description: An application (ref: 94/32143/TPDC) for Detailed Planning permission was submitted to Salford C.C. on 17th January 1994. Data source: Historic Planning Application Data Type: Point	-

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

3.6 Licensed waste sites

Records within 500m

4

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

Features are displayed on the Waste and landfill map on **page 60**

ID	Location	Details		
C	62m SE	Site Name: R E M Mobile Plant Site Address: Medlock House, New Elm Road, Manchester, M3 4JW Correspondence Address: 25, Barnes Wallis Road, Segensworth East, Fareham, PO15 5TT	Type of Site: Mobile Plant Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: RES001 EPR reference: - Operator: Resource And Environmental Consultants Ltd Waste Management licence No: 50480 Annual Tonnage: 75000	Issue Date: 12/12/2006 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

ID	Location	Details		
C	62m SE	Site Name: Rec Remediation Ltd - Mobile Plant Site Address: Medlock House, New Elm Road, Manchester, M3 4JW Correspondence Address: 25, Barnes Wallis Road, Segensworth East, Fareham, Hampshire, PO15 5TT	Type of Site: Mobile Plant Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: RES001 EPR reference: - Operator: Rec Remediation Ltd Waste Management licence No: 50480 Annual Tonnage: 75000	Issue Date: 12/12/2006 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
C	62m SE	Site Name: Mobile Plant Site Address: Mobile Plant Permi Correspondence Address: -	Type of Site: Mobile Plant Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SOI005 EPR reference: EA/EPR/GP3895SV/T001 Operator: Soil & Water Remediation Ltd Waste Management licence No: 50480 Annual Tonnage: 0	Issue Date: 12/12/2006 Effective Date: 20/05/2010 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
5	478m NW	Site Name: Duncan Street Site Address: Duncan Street, Salford, Manchester, M5 3SQ Correspondence Address: -	Type of Site: Inert & Excavation Waste TS Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: EXL002 EPR reference: EA/EPR/CB3209TD/A001 Operator: Excalon Limited Waste Management licence No: 401934 Annual Tonnage: 75000	Issue Date: 17/12/2014 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

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

3.7 Waste exemptions

Records within 500m

31

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

Features are displayed on the Waste and landfill map on **page 60**



ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	npa - Dawson Street Manchester Manchester M3 4JW	EPR/EF0604HZ /A001	Storing waste exemption	Non- Agricultura l Waste Only	Storage of waste in secure containers
A	On site	npa - Dawson Street Manchester Manchester M3 4JW	EPR/EF0604HZ /A001	Storing waste exemption	Non- Agricultura l Waste Only	Storage of waste in a secure place
A	On site	npa - Dawson Street Manchester Manchester M3 4JW	EPR/EF0604HZ /A001	Treating waste exemption	Non- Agricultura l Waste Only	Screening and blending of waste
A	On site	npa - Dawson Street Manchester Manchester M3 4JW	EPR/EF0604HZ /A001	Treating waste exemption	Non- Agricultura l Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	On site	npa - Dawson Street Manchester Manchester M3 4JW	EPR/EF0604HZ /A001	Using waste exemption	Non- Agricultura l Waste Only	Use of waste in construction
A	On site	npa - Dawson Street Manchester Manchester M3 4JW	EPR/EF0604HZ /A001	Using waste exemption	Non- Agricultura l Waste Only	Spreading of plant matter to confer benefit
A	On site	npa - Car Park Bounded by Trinity Way A6042 and River Irwell Water Street Manchester Manchester M3 4JH	EPR/NF0907TJ /A001	Storing waste exemption	Non- Agricultura l Waste Only	Storage of waste in secure containers
A	On site	npa - Car Park Bounded by Trinity Way A6042 and River Irwell Water Street Manchester Manchester M3 4JH	EPR/NF0907TJ /A001	Storing waste exemption	Non- Agricultura l Waste Only	Storage of waste in a secure place
A	On site	npa - Car Park Bounded by Trinity Way A6042 and River Irwell Water Street Manchester Manchester M3 4JH	EPR/NF0907TJ /A001	Treating waste exemption	Non- Agricultura l Waste Only	Screening and blending of waste



ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	npa - Car Park Bounded by Trinity Way A6042 and River Irwell Water Street Manchester Manchester M3 4JH	EPR/NF0907TJ /A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
A	On site	npa - Car Park Bounded by Trinity Way A6042 and River Irwell Water Street Manchester Manchester M3 4JH	EPR/NF0907TJ /A001	Using waste exemption	Non-Agricultural Waste Only	Use of mulch
1	22m NE	Compound 2 Water Street Manchester M3 4JH	EPR/FF0709KU /A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
D	87m SE	1 New Elm Road Manchester Manchester M3 4JH	EPR/EF0605V U/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
D	87m SE	1 New Elm Road Manchester Manchester M3 4JH	EPR/EF0605V U/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting mixed waste
D	87m SE	1 New Elm Road Manchester Manchester M3 4JH	EPR/EF0605V U/A001	Treating waste exemption	Non-Agricultural Waste Only	Screening and blending of waste
D	87m SE	1 New Elm Road Manchester Manchester M3 4JH	EPR/EF0605V U/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
F	210m NW	REGENTS PARK, ORDSALL LANE, SALFORD, M5 3TP	WEX180162	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
I	285m NW	100 Middlewood Street Manchester M5 3TP	EPR/GF0309H R/A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
I	285m NW	100 Middlewood Street Manchester M5 3TP	EPR/GF0309H R/A001	Using waste exemption	Non-Agricultural Waste Only	Spreading of plant matter to confer benefit
2	300m NE	WATER STREET, MANCHESTER, M3 4JQ	WEX146528	Using waste exemption	Not on a farm	Use of waste in construction
J	344m N	Middlewood Locks East Ordsall Lane Salford M5 4LN	EPR/EF0804H W/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers

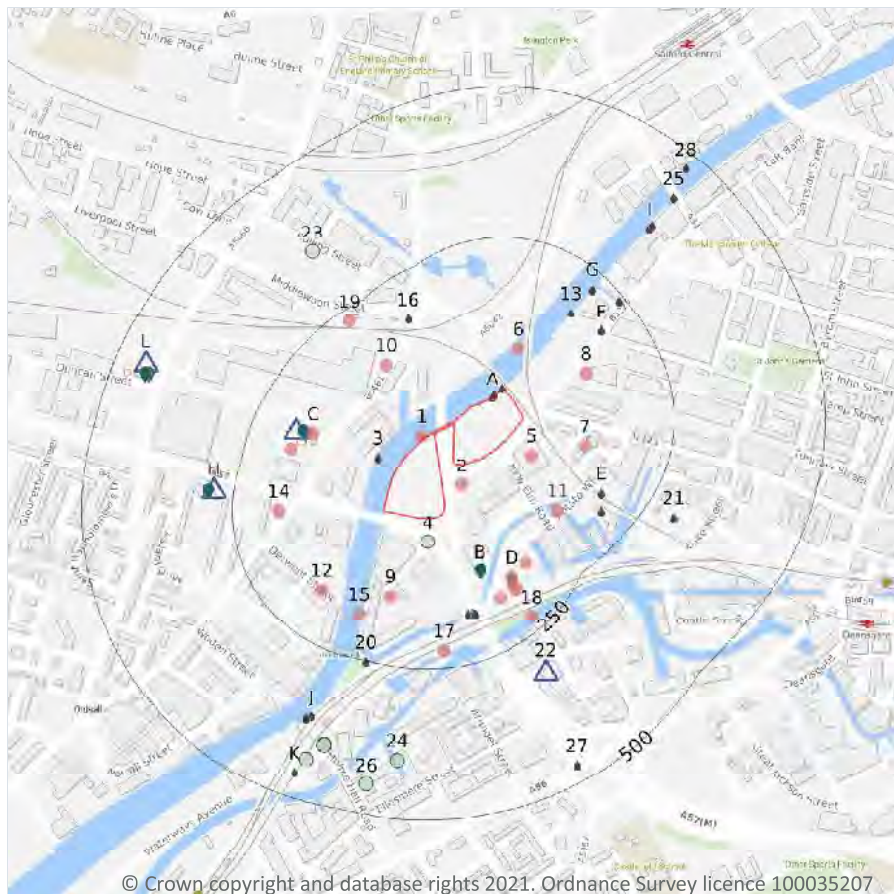


ID	Location	Site	Reference	Category	Sub-Category	Description
J	344m N	Middlewood Locks East Orsdall Lane Salford M5 4LN	EPR/EF0804H W/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
J	344m N	Middlewood Locks East Orsdall Lane Salford M5 4LN	EPR/EF0804H W/A001	Treating waste exemption	Non-Agricultural Waste Only	Screening and blending of waste
J	344m N	Middlewood Locks East Orsdall Lane Salford M5 4LN	EPR/EF0804H W/A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
J	344m N	Middlewood Locks East Orsdall Lane Salford M5 4LN	EPR/EF0804H W/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
J	344m N	Middlewood Locks East Orsdall Lane Salford M5 4LN	EPR/EF0804H W/A001	Using waste exemption	Non-Agricultural Waste Only	Spreading of plant matter to confer benefit
3	359m SE	CITYGATE CENTRAL, UNIT 2, BLANTYRE STREET, MANCHESTER, M15 4SQ	WEX228851	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
K	436m SE	Bestway National Chemists LTD, BULK REGISTRATION for Bestway National Chemists Ltd (107 sites), M34LZ	NRW-WME036650	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
K	436m SE	Bestway Panacea Holdings Limited, BULK REGISTRATION for Bestway Panacea Holdings Limited for 108 sites, M34LZ	NRW-WME005755	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
L	450m S	Former Excelsior Mill, Hulme Hall Road, Manchester, M15 4LA	WEX125363	Treating waste exemption	Not on a farm	Screening and blending of waste
L	450m S	Former Excelsior Mill, Hulme Hall Road, Manchester, M15 4LA	WEX125363	Using waste exemption	Not on a farm	Use of waste in construction

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- △ Current or recent petrol stations
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

22

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 71**

ID	Location	Company	Address	Activity	Category
1	5m NW	Mooring Posts	Greater Manchester, M5	Moorings and Unloading Facilities	Water
2	32m E	Electricity Sub Station	Greater Manchester, M3	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
5	49m SE	Big Yellow Self Storage Company Ltd	1, New Elm Road, Manchester, Greater Manchester, M3 4JH	Container and Storage	Transport, Storage and Delivery
6	70m N	Pipeline	Greater Manchester, M3	Pipelines	Industrial Features
7	111m SE	Electricity Sub Station	Greater Manchester, M3	Electrical Features	Infrastructure and Facilities
8	127m NE	Television Centre	Greater Manchester, M3	Telecommunications Features	Infrastructure and Facilities
9	137m S	Electricity Sub Station	Greater Manchester, M3	Electrical Features	Infrastructure and Facilities
10	137m NW	Electricity Sub Station	Greater Manchester, M5	Electrical Features	Infrastructure and Facilities
11	144m SE	Electricity Sub Station	Greater Manchester, M3	Electrical Features	Infrastructure and Facilities
C	150m NW	Sainsbury's Petrol Station	Sainsburys Petrol Filling Station, Regent Road, Salford, Greater Manchester, M5 4QU	Petrol and Fuel Stations	Road and Rail
D	156m SE	Works	Greater Manchester, M15	Unspecified Works Or Factories	Industrial Features
D	161m SE	Depot	Greater Manchester, M3	Container and Storage	Transport, Storage and Delivery
D	165m SE	Hopper	Greater Manchester, M15	Hoppers and Silos	Farming
12	167m SW	Electricity Sub Station	Greater Manchester, M5	Electrical Features	Infrastructure and Facilities
D	170m SE	Scrap Yard	Greater Manchester, M15	Scrap Metal Merchants	Recycling Services
14	173m W	Electricity Sub Station	Greater Manchester, M5	Electrical Features	Infrastructure and Facilities
C	174m W	Sainsburys Salford	100 Regent Road, Ordsall Lane, Salford, Greater Manchester, M5 4QU	Vehicle Cleaning Services	Personal, Consumer and Other Services
D	175m SE	Conveyors	Greater Manchester, M15	Conveyors	Industrial Features
15	176m S	Mooring Posts	Greater Manchester, M3	Moorings and Unloading Facilities	Water
17	222m S	Wharf	Greater Manchester, M15	Moorings and Unloading Facilities	Water



ID	Location	Company	Address	Activity	Category
18	225m SE	Slate Wharf	Greater Manchester, M15	Moorings and Unloading Facilities	Water
19	231m NW	Electricity Sub Station	Greater Manchester, M5	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

4

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 71**

ID	Location	Company	Address	LPG	Status
C	180m NW	SAINSBURYS	100, Regent Road, Ordsall Lane, Salford, Greater Manchester, M5 4QU	No	Open
H	284m W	SHELL	Regent Road, Salford, Greater Manchester, M5 4TS	Yes	Open
22	310m SE	OBSOLETE	Dawson Street, Manchester, Greater Manchester, M3 4JZ	Not Applicable	Obsolete
L	453m NW	JET	Oldfield Road, Duncan Street, Salford, Greater Manchester, M5 4NE	No	Open

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.



4.5 Sites determined as Contaminated Land

Records within 500m	0
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Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0
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Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0
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Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0
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Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0
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Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

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

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

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

Records within 500m

7

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

Features are displayed on the Current industrial land use map on **page 71**

ID	Location	Address	Details	
B	114m SE	Arc Northern, Potato Wharf, Liverpool Rd, M3 4NB	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
D	160m SE	Hanson Aggregates, Potato Wharf, Off Liverpool Road, M3 4LE	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
C	160m NW	Sainsbury J Plc, 100 Regent Road, Salford, M5 4QU	Process: Unloading of Petrol into Storage at Service Stations Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
C	166m NW	Sainsbury Plc, 100 Regent Road, Salford, M5 4QU	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
H	292m W	Shell Phoenix, Regent Road, Salford, M5 4TS	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: Enforcement Notified Date of enforcement: 05/12/2006 Comment: EPa Enforcement Notice served Section
L	440m NW	Motor Fuel Ltd (Formerly Synergie), Oldfield Road, Salford, M5 4NE	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

ID	Location	Address	Details	
L	444m W	Total - Oldfield Road, Oldfield Road, Salford, M5 4NE	Process: Unloading of Petrol into Storage at Service Stations Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m

43

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

Features are displayed on the Current industrial land use map on **page 71**

ID	Location	Address	Details	
A	1m NW	WATER STREET/LIVERPOOL ROAD CSO, WATER STREET, 133 LIVERPOOL ROAD, MANCHESTER, GREATER MANCHESTER, M3 4PU	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0169 Permit Version: 1 Receiving Water: RIVER IRWELL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/01/1995 Revocation Date: 25/10/1995
A	1m NW	WATER STREET/LIVERPOOL ROAD CSO, WATER STREET, 133 LIVERPOOL ROAD, MANCHESTER, GREATER MANCHESTER, M3 4PU	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016993597 Permit Version: 1 Receiving Water: RIVER IRWELL	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 05/10/2004 Effective Date: 05/10/2004 Revocation Date: 30/08/2014
A	1m NW	WATER STREET/LIVERPOOL ROAD CSO, WATER STREET, 133 LIVERPOOL ROAD, MANCHESTER, GREATER MANCHESTER, M3 4PU	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016993597 Permit Version: 2 Receiving Water: RIVER IRWELL	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 24/03/2014 Effective Date: 31/08/2014 Revocation Date: 08/01/2020



ID	Location	Address	Details	
A	3m NW	WATER STREET/LIVERPOOL ROAD CSO, WATER STREET, 133 LIVERPOOL ROAD, MANCHESTER, GREATER MANCHESTER, M3 4PU	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016993597 Permit Version: 3 Receiving Water: RIVER IRWELL	Status: VARIED UNDER EPR 2010 Issue date: 09/01/2020 Effective Date: 09/01/2020 Revocation Date: -
3	37m NW	J SAINSBURY PLC SWO, REGENT ROAD, END OF ORDSALL ALNE, SALFORD, GREATER MANCHESTER	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991422 Permit Version: 1 Receiving Water: RIVER IRWELL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/11/1994 Revocation Date: 01/11/1994
B	114m SE	POTATO WHARF, OFF LIVERPOOL RD, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0175/5 Permit Version: 2 Receiving Water: CROWTON BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1991 Revocation Date: 31/12/1994
B	114m SE	POTATO WHARF, OFF LIVERPOOL RD, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0175/5 Permit Version: 3 Receiving Water: CROWTON BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/01/1995 Revocation Date: 30/06/1995
B	114m SE	POTATO WHARF, OFF LIVERPOOL RD, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0175/5 Permit Version: 4 Receiving Water: CROWTON BROOK	Status: SURRENDERED UNDER EPR 2010 Issue date: - Effective Date: 01/07/1995 Revocation Date: 08/03/2016
13	168m NE	WATER STREET CSO	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982993 Permit Version: 1 Receiving Water: RIVER IRWELL	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 23/06/1995 Revocation Date: -
D	168m S	EGERTON ST/WORSLEY ST, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0181 Permit Version: 1 Receiving Water: RIVER MEDLOCK	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: - Effective Date: 01/01/1995 Revocation Date: 01/01/1995



ID	Location	Address	Details	
D	170m S	EGERTON ST WORSLEY ST CSO, EGERTON ST AND WORSLEY ST, CORNBROOK, A57 M, MANCHESTER, M15 4LG	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016983277 Permit Version: 2 Receiving Water: THE RIVER MEDLOCK	Status: VARIED UNDER EPR 2010 Issue date: 12/03/2018 Effective Date: 01/04/2018 Revocation Date: -
D	172m S	CHESTER RD AT YORK ST, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982720 Permit Version: 1 Receiving Water: RIVER MEDLOCK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 30/09/1994 Revocation Date: 18/02/1999
D	172m S	CHESTER RD/YORK ST, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0279 Permit Version: 1 Receiving Water: RIVER MEDLOCK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: 19/12/1999
D	172m S	EGERTON ST/ELESMERE ST, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0180 Permit Version: 1 Receiving Water: RIVER MEDLOCK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: 12/08/1999
D	172m S	CHESTER RD AT YORK ST, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982720 Permit Version: 2 Receiving Water: RIVER MEDLOCK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 19/02/1999 Revocation Date: 14/07/2000
D	172m S	EGERTON ST WORSLEY ST CSO, EGERTON ST AND WORSLEY ST, CORNBROOK, A57 M, MANCHESTER, M15 4LG	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016983277 Permit Version: 1 Receiving Water: THE RIVER MEDLOCK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 19/02/1999 Effective Date: 01/11/1999 Revocation Date: 31/03/2018
16	177m NW	HAMPTON ST/ORDSALL LANE, SALFORD	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01SAL0183 Permit Version: 1 Receiving Water: -	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: -



ID	Location	Address	Details	
E	178m SE	READY MIXED CONCRETE DEPOT, LIVERPOOL ROAD	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 016990275 Permit Version: 1 Receiving Water: BRIDGEWATER CANAL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 10/03/1977 Revocation Date: 31/08/1989
F	186m NE	GRAPE STREET CSO, GRAPE STREET, MANCHESTER, GREATER MANCHESTER, M60 9EA	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0170 Permit Version: 1 Receiving Water: RIVER IRWELL	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: 02/09/2010
F	186m NE	GRAPE STREET CSO, GRAPE STREET, MANCHESTER, GREATER MANCHESTER, M60 9EA	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0170 Permit Version: 2 Receiving Water: RIVER IRWELL	Status: VARIED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 10/01/2017
F	186m NE	GRAPE STREET CSO, GRAPE STREET, MANCHESTER, GREATER MANCHESTER, M60 9EA	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0170 Permit Version: 3 Receiving Water: RIVER IRWELL	Status: VARIED UNDER EPR 2010 Issue date: 11/01/2017 Effective Date: 11/01/2017 Revocation Date: 31/03/2018
E	197m SE	TOPHAM RES DEVELOPMENT SWO, LIVERPOOL ROAD/POTATO WHARF, CASTLEFIELD	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991276 Permit Version: 1 Receiving Water: BRIDGEWATER CANAL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 18/05/1988 Revocation Date: 01/07/1991
G	221m NE	GRAPE STREET CSO, GRAPE STREET, MANCHESTER, GREATER MANCHESTER, M60 9EA	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0170 Permit Version: 4 Receiving Water: RIVER IRWELL	Status: VARIED UNDER EPR 2010 Issue date: 19/03/2018 Effective Date: 01/04/2018 Revocation Date: -
G	240m NE	ST JOHNS DEVELOPMENT SETTLEMENT TNK, QUAY STREET, MANCHESTER, LANCASHIRE, M3 2GS	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: EPRMB3590DF Permit Version: 1 Receiving Water: TRIBUTARY OF THE RIVER IRWELL	Status: NEW ISSUED UNDER EPR 2010 Issue date: 15/05/2020 Effective Date: 15/05/2020 Revocation Date: -



ID	Location	Address	Details	
20	252m S	ST GEORGES ISLAND PROJECTS OFFICE, HULME HALL ROAD	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: 016993598 Permit Version: 1 Receiving Water: RIVER MEDLOCK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 14/09/2004 Effective Date: 14/09/2004 Revocation Date: 14/01/2005
21	298m SE	RICE ST NEAR CASTLE ST, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 01MAN0171 Permit Version: 1 Receiving Water: BRIDGEWATER CANAL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 15/09/1993 Revocation Date: 15/09/1993
I	359m NE	WATER ST/NEW QUAY ST CSO, WATER STREET NEW QUAY STREET, SPINNINGFIELDS, MANCHESTER, GREATER MANCHESTER, M3 4JQ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016993831 Permit Version: 1 Receiving Water: THE RIVER IRWELL	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 21/03/2006 Effective Date: 21/03/2006 Revocation Date: 01/10/2019
J	361m S	CITY RD CSO 288OV, 204 CITY ROAD, MANCHESTER, M15 5JQ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982954 Permit Version: 1 Receiving Water: MANCHESTER SHIP CANAL	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: - Effective Date: 23/06/1995 Revocation Date: 30/03/2005
J	361m S	MARPLE ST/ROLLS CRES CSO, HULME	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982958 Permit Version: 1 Receiving Water: MANCHESTER SHIP CANAL	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: - Effective Date: 08/08/1995 Revocation Date: 30/03/2005
J	361m S	CITY RD CSO 288OV, 204 CITY ROAD, MANCHESTER, M15 5JQ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982954 Permit Version: 2 Receiving Water: MANCHESTER SHIP CANAL	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 07/03/2005 Effective Date: 31/03/2005 Revocation Date: 31/12/2014



ID	Location	Address	Details	
J	361m S	JUNCTION ROLLS CRES/YEW STREET CSO, HULME	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982958 Permit Version: 2 Receiving Water: MANCHESTER SHIP CANAL	Status: MODIFIED - (WRA 91 SCHD 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/03/2005 Effective Date: 31/03/2005 Revocation Date: 31/12/2014
J	361m S	JUNCTION ROLLS CRES/YEW STREET CSO, HULME	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982958 Permit Version: 3 Receiving Water: MANCHESTER SHIP CANAL	Status: MODIFIED - (WRA 91 SCHD 10 - AS AMENDED BY ENV ACT 1995) Issue date: 29/03/2010 Effective Date: 01/01/2015 Revocation Date: 25/02/2015
J	361m S	STRETTFORD RD/UPPER MOSS LANE CSO, HULME	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0365 Permit Version: 2 Receiving Water: MANCHESTER SHIP CANAL	Status: MODIFIED - (WRA 91 SCHD 10 - AS AMENDED BY ENV ACT 1995) Issue date: 07/03/2005 Effective Date: 31/03/2005 Revocation Date: 31/12/2014
I	365m NE	WATER ST/NEW QUAY ST CSO, WATER STREET NEW QUAY STREET, SPINNINGFIELDS, MANCHESTER, GREATER MANCHESTER, M3 4JQ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016993831 Permit Version: 2 Receiving Water: THE RIVER IRWELL	Status: VARIED UNDER EPR 2010 Issue date: 02/10/2019 Effective Date: 02/10/2019 Revocation Date: -
J	365m S	CITY RD CSO 288OV, 204 CITY ROAD, MANCHESTER, M15 5JQ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982954 Permit Version: 4 Receiving Water: VIA SWS MANCHESTER SHIP CANAL	Status: VARIED UNDER EPR 2010 Issue date: 02/07/2018 Effective Date: 02/07/2018 Revocation Date: -
J	370m S	CITY RD CSO 288OV, 204 CITY ROAD, MANCHESTER, M15 5JQ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982954 Permit Version: 3 Receiving Water: MANCHESTER SHIP CANAL	Status: MODIFIED - (WRA 91 SCHD 10 - AS AMENDED BY ENV ACT 1995) Issue date: 29/03/2010 Effective Date: 01/01/2015 Revocation Date: 01/07/2018



ID	Location	Address	Details	
J	370m S	STRETTFORD RD/UPPER MOSS LANE CSO, HULME	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0365 Permit Version: 3 Receiving Water: MANCHESTER SHIP CANAL	Status: MODIFIED - (WRA 91 SCHD 10 - AS AMENDED BY ENV ACT 1995) Issue date: 29/03/2010 Effective Date: 01/01/2015 Revocation Date: -
J	370m S	JUNCTION ROLLS CRES/YEW STREET CSO, HULME	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982958 Permit Version: 4 Receiving Water: MANCHESTER SHIP CANAL	Status: VARIED UNDER EPR 2010 Issue date: 26/02/2015 Effective Date: 26/02/2015 Revocation Date: -
25	423m NE	WATER ST/NEW QUAY ST CSO, WATER STREET NEW QUAY STREET, SPINNINGFIELDS, MANCHESTER, GREATER MANCHESTER, M3 4JQ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0172 Permit Version: 1 Receiving Water: RIVER IRWELL	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: 01/01/1995 Effective Date: 01/01/1995 Revocation Date: 20/03/2006
K	458m S	GARAGE AT HULME HALL RD, HULME HALL ROAD, STOCKPORT, MANCHESTER, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0168/800 Permit Version: 1 Receiving Water: RIVER IRWELL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1991 Revocation Date: 31/12/1994
K	458m S	GARAGE AT HULME HALL RD, HULME HALL ROAD, STOCKPORT, MANCHESTER, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0168/800 Permit Version: 2 Receiving Water: RIVER IRWELL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/01/1995 Revocation Date: 16/04/2002
27	471m SE	MANCUNIAN WAY ROUNDABOUT, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0368 Permit Version: 1 Receiving Water: -	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: -
28	474m NE	FEARNLEY DEVELOPMENTS LTD, SALFORD	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991429 Permit Version: 1 Receiving Water: RIVER IRWELL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/01/1900 Revocation Date: 01/11/1994

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



4.14 Pollutant release to surface waters (Red List)

Records within 500m	0
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Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

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

4.15 Pollutant release to public sewer

Records within 500m	0
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Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0
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Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

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

4.17 List 2 Dangerous Substances

Records within 500m	0
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Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	8
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Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 71**

ID	Location	Details	
4	39m S	Incident Date: 12/06/2001 Incident Identification: 8739 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
23	360m NW	Incident Date: 08/10/2001 Incident Identification: 35333 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
K	400m S	Incident Date: 03/08/2001 Incident Identification: 21600 Pollutant: Specific Waste Materials:Specific Waste Materials Pollutant Description: Tyres:Vehicles and Vehicle Parts	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
K	400m S	Incident Date: 03/08/2001 Incident Identification: 21600 Pollutant: Specific Waste Materials Pollutant Description: Tyres	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
K	400m S	Incident Date: 03/08/2001 Incident Identification: 21600 Pollutant: Specific Waste Materials Pollutant Description: Vehicles and Vehicle Parts	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
24	403m S	Incident Date: 15/03/2001 Incident Identification: 362 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
K	431m S	Incident Date: 22/01/2003 Incident Identification: 132648 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
26	450m S	Incident Date: 06/06/2001 Incident Identification: 7808 Pollutant: Sewage Materials Pollutant Description: Process Effluent	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m

0

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



available.

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

4.20 Pollution inventory waste transfers

Records within 500m

0

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

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

4.21 Pollution inventory radioactive waste

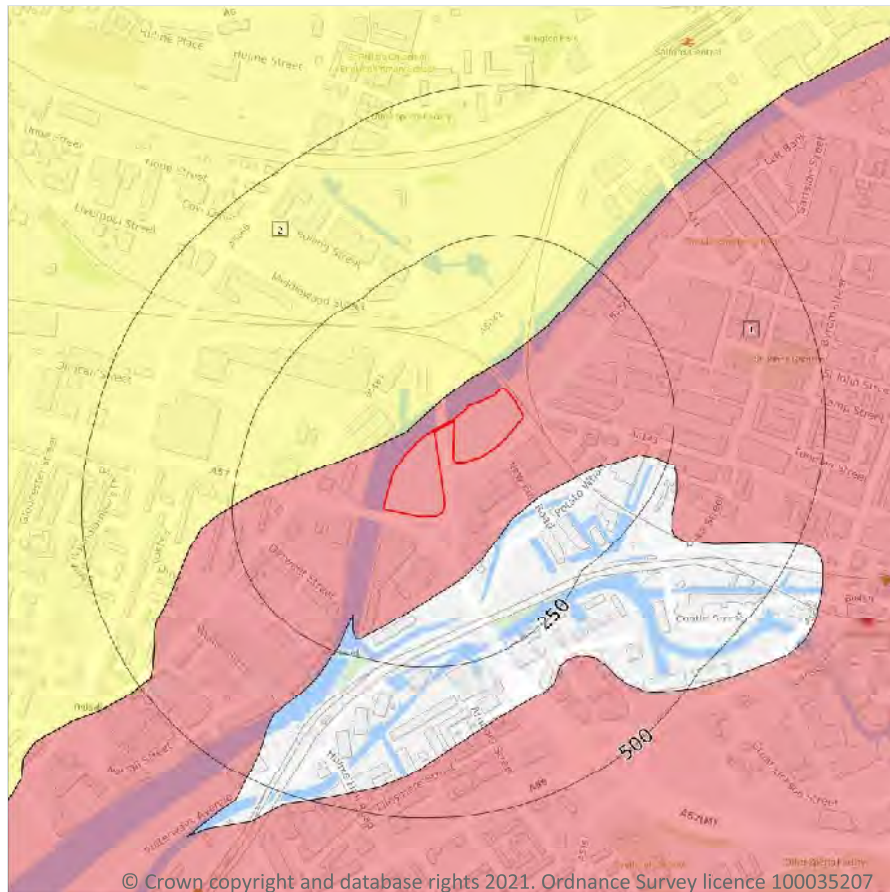
Records within 500m

0

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

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

5 Hydrogeology - Superficial aquifer



- Site Outline**
- Search buffers in metres (m)**
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive
 - Unknown

5.1 Superficial aquifer

Records within 500m

2

Aquifer status of groundwater held within superficial geology.

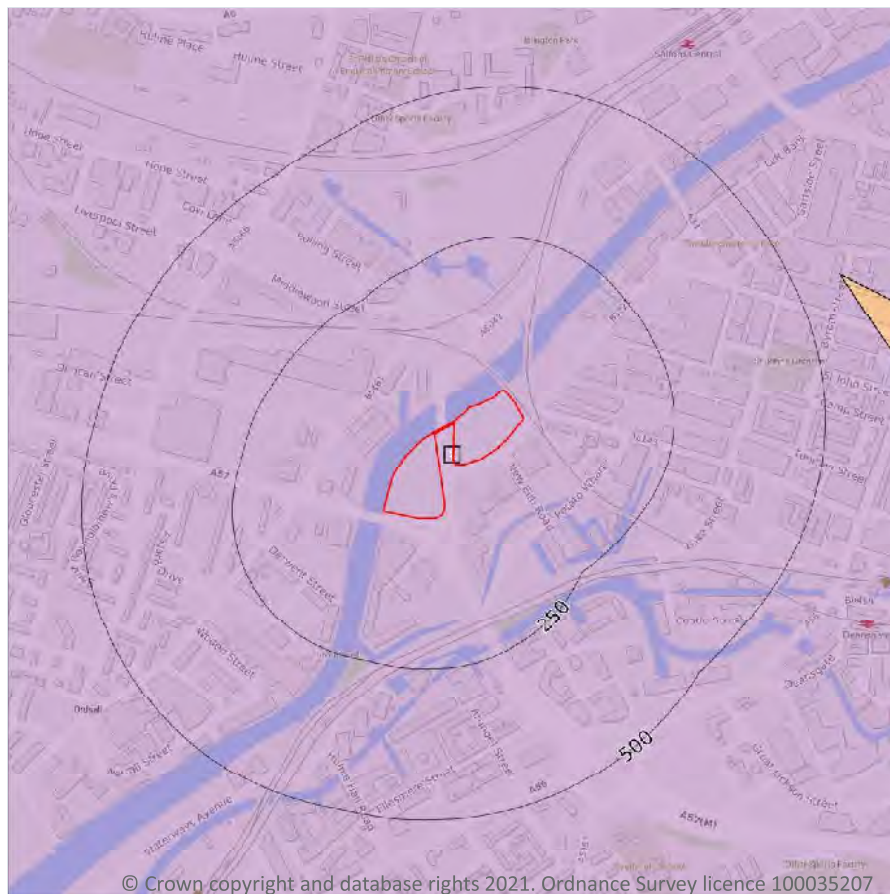
Features are displayed on the Hydrogeology map on **page 86**

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	24m NW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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



Bedrock aquifer



- Site Outline**
- Search buffers in metres (m)**
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive

5.2 Bedrock aquifer

Records within 500m

1

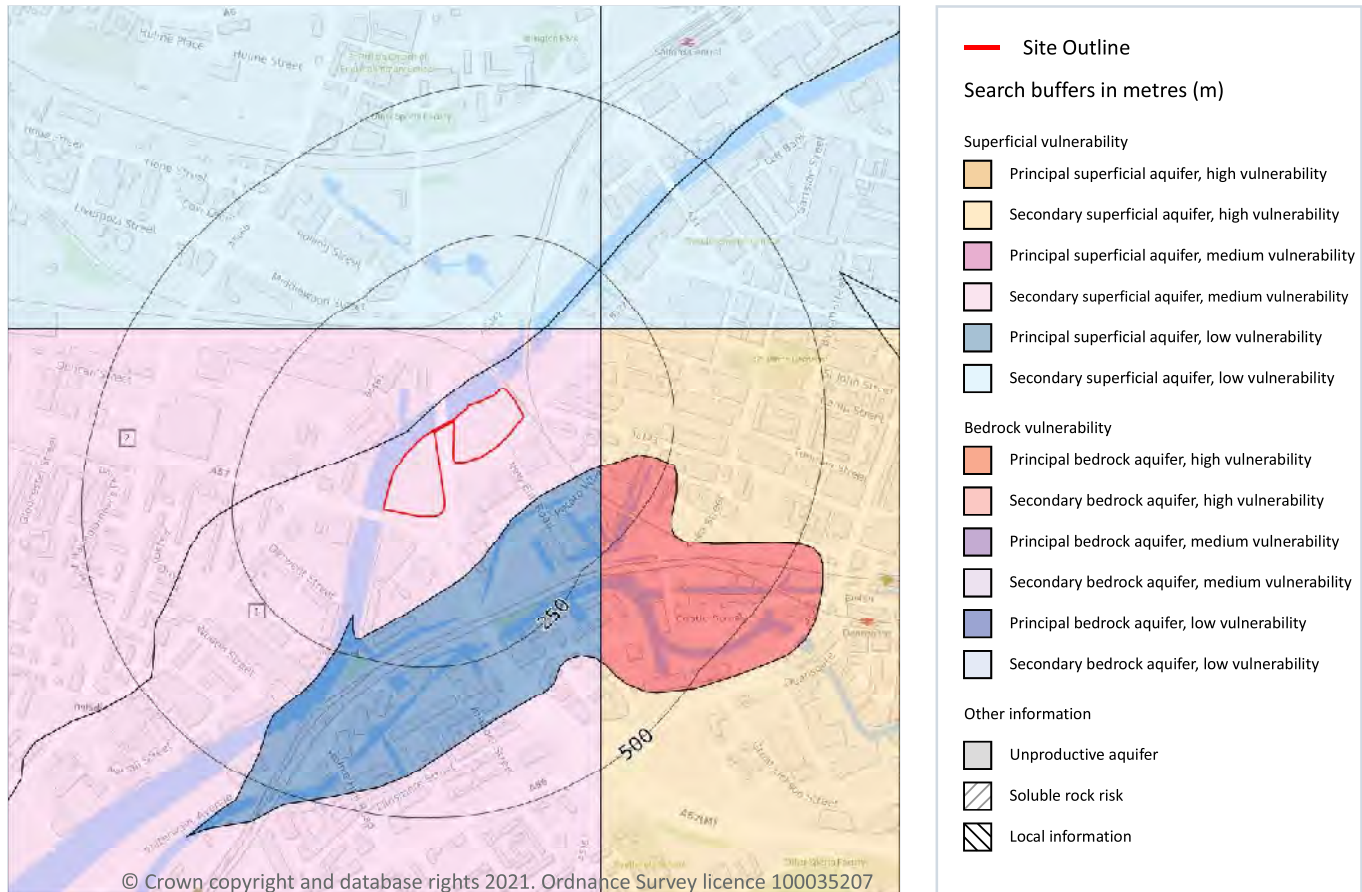
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 88**

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

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

Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

2

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

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

Features are displayed on the Groundwater vulnerability map on **page 89**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
2	24m NW	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

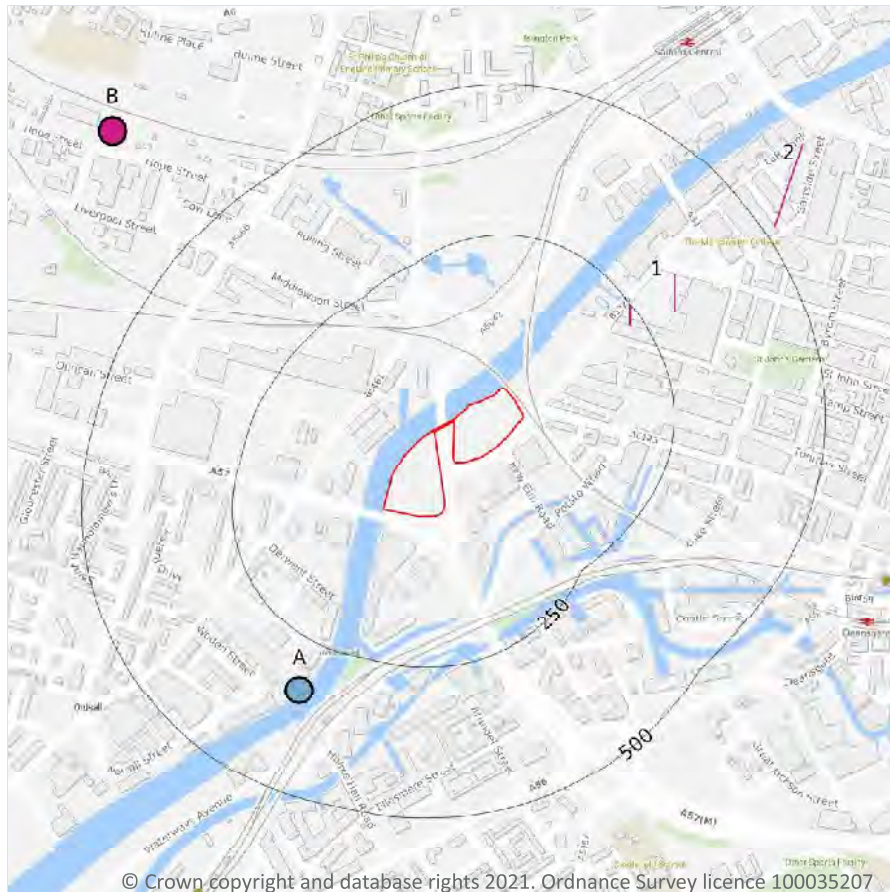
Records on site

0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
Point features
- Drinking water abstraction licences
Polygon features
- Drinking water abstraction licences
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m

39

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 91**

ID	Location	Details	
1	213m NE	Status: Historical Licence No: NW/069/0004/019 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: Ground Water - North West Region Point: ST JOHNS MANCHESTER Data Type: Poly4 Name: Manchester Quays Development (MGY) Ltd Easting: 383094 Northing: 398099	Annual Volume (m ³): 543,120 Max Daily Volume (m ³): 1,488 Original Application No: - Original Start Date: 13/09/2019 Expiry Date: 31/12/2020 Issue No: 1 Version Start Date: 13/09/2019 Version End Date: -
2	517m NE	Status: Historical Licence No: 2569007089 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: 2 BOREHOLES AT GARTSIDE STREET MANCHESTER Data Type: Line Name: HER MAJESTY'S COURT SERVICE Easting: 383335 Northing: 398310	Annual Volume (m ³): 200000 Max Daily Volume (m ³): 1179 Original Application No: - Original Start Date: 26/01/2005 Expiry Date: 31/03/2011 Issue No: 2 Version Start Date: 10/07/2008 Version End Date: -
B	723m NW	Status: Historical Licence No: 2569007085 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT HOPE STREET, SALFORD, MANCHESTER" Data Type: Point Name: READY MIXED CONCRETE (NORTH WEST) LIMITED Easting: 382190 Northing: 398330	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/11/2000 Expiry Date: - Issue No: 1 Version Start Date: 01/11/2000 Version End Date: -
B	723m NW	Status: Active Licence No: 2569007085 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT HOPE STREET, SALFORD, MANCHESTER Data Type: Point Name: CEMEX UK MATERIALS LTD Easting: 382190 Northing: 398330	Annual Volume (m ³): 23,000 Max Daily Volume (m ³): 115 Original Application No: - Original Start Date: 01/11/2000 Expiry Date: - Issue No: 4 Version Start Date: 21/12/2018 Version End Date: -

ID	Location	Details	
-	1173m NE	Status: Historical Licence No: 2569007070 Details: General Cooling (Existing Licences Only) (High Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT DIAL HOUSE, CHAPEL ST, SALFORD" Data Type: Point Name: BRITISH TELECOM Easting: 383700 Northing: 398700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 27/01/1971 Expiry Date: - Issue No: 100 Version Start Date: 27/01/1971 Version End Date: -
-	1173m NE	Status: Historical Licence No: 2569007070 Details: General Cooling (Existing Licences Only) (High Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT DIAL HOUSE, CHAPEL ST, SALFORD Data Type: Point Name: BRITISH TELECOMMUNICATIONS PLC Easting: 383700 Northing: 398700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 27/01/1971 Expiry Date: - Issue No: 101 Version Start Date: 01/04/1984 Version End Date: -
-	1173m NE	Status: Active Licence No: 2569007070 Details: General Cooling (Existing Licences Only) (High Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT DIAL HOUSE CHAPEL STREET SALFORD Data Type: Point Name: BRITISH TELECOMMUNICATIONS PLC Easting: 383700 Northing: 398700	Annual Volume (m ³): 45 Max Daily Volume (m ³): 30 Original Application No: - Original Start Date: 27/01/1971 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2007 Version End Date: -
-	1237m E	Status: Historical Licence No: 2569007069 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT GEORGE ST, MANCHESTER" Data Type: Point Name: BRITISH TELECOM Easting: 384100 Northing: 398000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 27/01/1971 Expiry Date: - Issue No: 100 Version Start Date: 27/01/1971 Version End Date: -

ID	Location	Details	
-	1237m E	Status: Historical Licence No: 2569007069 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT GEORGE ST, MANCHESTER Data Type: Point Name: BRITISH TELECOMMUNICATIONS PLC Easting: 384100 Northing: 398000	Annual Volume (m ³): 1100 Max Daily Volume (m ³): 860 Original Application No: - Original Start Date: 01/04/1984 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2007 Version End Date: -
-	1363m SE	Status: Active Licence No: NW/069/0004/003 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT MANCHESTER METROPOLITAN UNIVERSITY Data Type: Point Name: Manchester Metropolitan University Easting: 383715 Northing: 396746	Annual Volume (m ³): 274,115 Max Daily Volume (m ³): 751 Original Application No: - Original Start Date: 20/09/2013 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/01/2015 Version End Date: -
-	1363m SE	Status: Active Licence No: NW/069/0004/003 Details: Heat Pump Direct Source: Ground Water - North West Region Point: BOREHOLE AT MANCHESTER METROPOLITAN UNIVERSITY Data Type: Point Name: Manchester Metropolitan University Easting: 383715 Northing: 396746	Annual Volume (m ³): 274,115 Max Daily Volume (m ³): 751 Original Application No: - Original Start Date: 20/09/2013 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/01/2015 Version End Date: -
-	1443m SW	Status: Historical Licence No: 2569007002 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT 371 ORDSALL LANE, MANCHESTER 5" Data Type: Point Name: COLGATE PALMOLIVE LTD Easting: 381600 Northing: 396700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 08/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 05/12/1985 Version End Date: -



ID	Location	Details	
-	1443m SW	Status: Historical Licence No: 2569007002 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT 371 ORDSALL LANE, MANCHESTER 5 Data Type: Point Name: Cerep III Investment R Sarl Easting: 381600 Northing: 396700	Annual Volume (m ³): 409140 Max Daily Volume (m ³): 1636.56 Original Application No: - Original Start Date: 08/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 29/10/2009 Version End Date: -
-	1511m E	Status: Historical Licence No: NW0690006001 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: BOREHOLES AT ORIGIN DEVELOPMENTS, MANCHESTER Data Type: Point Name: West Contracting Easting: 384378 Northing: 397733	Annual Volume (m ³): 139128 Max Daily Volume (m ³): 1010 Original Application No: - Original Start Date: 19/01/2009 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 19/01/2009 Version End Date: -
-	1511m E	Status: Historical Licence No: NW/069/0006/001 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: BOREHOLES AT ORIGIN DEVELOPMENTS, MANCHESTER Data Type: Point Name: West Contracting Easting: 384378 Northing: 397733	Annual Volume (m ³): 139128 Max Daily Volume (m ³): 1010 Original Application No: - Original Start Date: 19/01/2009 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 19/01/2009 Version End Date: -
-	1515m SE	Status: Active Licence No: NW/069/0006/003 Details: Heat Pump Direct Source: Ground Water - North West Region Point: BOREHOLE 1 AT LOWER CHATHAM STREET Data Type: Point Name: Manchester Metropolitan University Easting: 384180 Northing: 397091	Annual Volume (m ³): 283,240 Max Daily Volume (m ³): 1,532 Original Application No: - Original Start Date: 04/04/2014 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 04/04/2014 Version End Date: -

ID	Location	Details	
-	1515m SE	Status: Active Licence No: NW/069/0006/003 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE 1 AT LOWER CHATHAM STREET Data Type: Point Name: Manchester Metropolitan University Easting: 384180 Northing: 397091	Annual Volume (m ³): 283,240 Max Daily Volume (m ³): 1,532 Original Application No: - Original Start Date: 04/04/2014 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 04/04/2014 Version End Date: -
-	1617m NE	Status: Historical Licence No: 2569004023 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE (NO 2) AT PREMISES, STRANGWAYS, MANCHESTER" Data Type: Point Name: INTERBREW UK LTD Easting: 383820 Northing: 399190	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 09/08/2000 Version End Date: -
-	1617m NE	Status: Historical Licence No: 2569004023 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE (NO 2) AT PREMISES, STRANGWAYS, MANCHESTER" Data Type: Point Name: INTERBREW UK LTD Easting: 383820 Northing: 399190	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 09/08/2000 Version End Date: -
-	1617m NE	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE (NO 2) AT PREMISES, STRANGWAYS, MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383820 Northing: 399190	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -



ID	Location	Details	
-	1617m NE	Status: Historical Licence No: 2569004023 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE (NO 2) AT PREMISES, STRANGWAYS, MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383820 Northing: 399190	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1617m NE	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE NUMBER 2 AT PREMISES STRANGWAYS MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383820 Northing: 399190	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1617m NE	Status: Historical Licence No: 2569004023 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE NUMBER 2 AT PREMISES STRANGWAYS MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383820 Northing: 399190	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1647m NE	Status: Historical Licence No: 2569004023 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE (NO 3) AT PREMISES, STRANGWAYS, MANCHESTER" Data Type: Point Name: INTERBREW UK LTD Easting: 383830 Northing: 399220	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 09/08/2000 Version End Date: -



ID	Location	Details	
-	1647m NE	Status: Historical Licence No: 2569004023 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE (NO 3) AT PREMISES, STRANGWAYS, MANCHESTER" Data Type: Point Name: INTERBREW UK LTD Easting: 383830 Northing: 399220	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 09/08/2000 Version End Date: -
-	1647m NE	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE (NO 3) AT PREMISES, STRANGWAYS, MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383830 Northing: 399220	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1647m NE	Status: Historical Licence No: 2569004023 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE (NO 3) AT PREMISES, STRANGWAYS, MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383830 Northing: 399220	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1647m NE	Status: Historical Licence No: 2569004023 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE NUMBER 3 AT PREMISES STRANGWAYS MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383830 Northing: 399220	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -



ID	Location	Details	
-	1647m NE	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE NUMBER 3 AT PREMISES STRANGWAYS MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383830 Northing: 399220	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1683m NE	Status: Historical Licence No: 2569004023 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE (NO 1) AT PREMISES, STRANGWAYS, MANCHESTER" Data Type: Point Name: INTERBREW UK LTD Easting: 383850 Northing: 399250	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 09/08/2000 Version End Date: -
-	1683m NE	Status: Historical Licence No: 2569004023 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE (NO 1) AT PREMISES, STRANGWAYS, MANCHESTER" Data Type: Point Name: INTERBREW UK LTD Easting: 383850 Northing: 399250	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 09/08/2000 Version End Date: -
-	1683m NE	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE (NO 1) AT PREMISES, STRANGWAYS, MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383850 Northing: 399250	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -



ID	Location	Details	
-	1683m NE	Status: Historical Licence No: 2569004023 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE (NO 1) AT PREMISES, STRANGWAYS, MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383850 Northing: 399250	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1683m NE	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE NUMBER 1 AT PREMISES STRANGWAYS MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383850 Northing: 399250	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1683m NE	Status: Historical Licence No: 2569004023 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE NUMBER 1 AT PREMISES STRANGWAYS MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383850 Northing: 399250	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1905m S	Status: Historical Licence No: 2569007009 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, MOSS LANE WEST MANCHESTER" Data Type: Point Name: HYDES BREWERY LTD Easting: 383220 Northing: 395850	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 07/10/2000 Version End Date: -



ID	Location	Details	
-	1905m S	Status: Historical Licence No: 2569007009 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, MOSS LANE WEST MANCHESTER" Data Type: Point Name: HYDES BREWERY LTD Easting: 383220 Northing: 395850	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 07/10/2000 Version End Date: -
-	1905m S	Status: Historical Licence No: 2569007009 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, MOSS LANE WEST MANCHESTER Data Type: Point Name: HYDES BREWERY LTD Easting: 383220 Northing: 395850	Annual Volume (m ³): 66826.2 Max Daily Volume (m ³): 372.772 Original Application No: - Original Start Date: 21/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 07/10/2000 Version End Date: -
-	1905m S	Status: Historical Licence No: 2569007009 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, MOSS LANE WEST MANCHESTER Data Type: Point Name: HYDES BREWERY LTD Easting: 383220 Northing: 395850	Annual Volume (m ³): 66826.2 Max Daily Volume (m ³): 372.772 Original Application No: - Original Start Date: 21/02/1966 Expiry Date: - Issue No: 103 Version Start Date: 19/07/2018 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

6

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 91**

ID	Location	Details	
A	332m SW	Status: Historical Licence No: 2569007053 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "R IRWELL AT IRWELL WORKS, ORDSALL LANE, SALFORD" Data Type: Point Name: CDS COMPUTER DESIGN SYSTEMS LTD Easting: 382500 Northing: 397400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/11/1987 Version End Date: -
A	332m SW	Status: Historical Licence No: 2569007053 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: R IRWELL AT IRWELL WORKS, ORDSALL LANE, SALFORD Data Type: Point Name: CDS COMPUTER DESIGN SYSTEMS LTD Easting: 382500 Northing: 397400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/11/1987 Version End Date: -
-	1443m SW	Status: Historical Licence No: 2569007001 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "MANCHESTER SHIP CANAL AT PREMISES, ORDSALL LANE, MANCHESTER" Data Type: Point Name: COLGATE PALMOLIVE LTD Easting: 381600 Northing: 396700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 27/04/1992 Version End Date: -
-	1443m SW	Status: Historical Licence No: 2569007001 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: MANCHESTER SHIP CANAL AT PREMISES, ORDSALL LANE, MANCHESTER Data Type: Point Name: COLGATE PALMOLIVE LTD Easting: 381600 Northing: 396700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 27/04/1992 Version End Date: -



ID	Location	Details	
-	1443m SW	Status: Historical Licence No: 2569007001 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: MANCHESTER SHIP CANAL AT PREMISES ORDSALL LANE MANCHESTER Data Type: Point Name: Cerep III Investment R Sarl Easting: 381600 Northing: 396700	Annual Volume (m ³): 1,363,800 Max Daily Volume (m ³): 4909.68 Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 29/10/2009 Version End Date: -
-	1765m W	Status: Active Licence No: 2569007074 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: MANCHESTER SHIP CANAL AND DOCKS AT SALFORD QUAYS Data Type: Point Name: PEEL SOUTH EAST LTD Easting: 380900 Northing: 397400	Annual Volume (m ³): 318,056 Max Daily Volume (m ³): 3,350.40 Original Application No: - Original Start Date: 05/04/1990 Expiry Date: - Issue No: 105 Version Start Date: 01/04/2015 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

9

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 91**

ID	Location	Details	
-	1617m NE	Status: Historical Licence No: 2569004023 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE (NO 2) AT PREMISES, STRANGWAYS, MANCHESTER" Data Type: Point Name: INTERBREW UK LTD Easting: 383820 Northing: 399190	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 09/08/2000 Version End Date: -



ID	Location	Details	
-	1617m NE	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE (NO 2) AT PREMISES, STRANGWAYS, MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383820 Northing: 399190	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1617m NE	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE NUMBER 2 AT PREMISES STRANGWAYS MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383820 Northing: 399190	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1647m NE	Status: Historical Licence No: 2569004023 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE (NO 3) AT PREMISES, STRANGWAYS, MANCHESTER" Data Type: Point Name: INTERBREW UK LTD Easting: 383830 Northing: 399220	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 09/08/2000 Version End Date: -
-	1647m NE	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE (NO 3) AT PREMISES, STRANGWAYS, MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383830 Northing: 399220	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -

ID	Location	Details	
-	1647m NE	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE NUMBER 3 AT PREMISES STRANGWAYS MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383830 Northing: 399220	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1683m NE	Status: Historical Licence No: 2569004023 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE (NO 1) AT PREMISES, STRANGWAYS, MANCHESTER" Data Type: Point Name: INTERBREW UK LTD Easting: 383850 Northing: 399250	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 09/08/2000 Version End Date: -
-	1683m NE	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE (NO 1) AT PREMISES, STRANGWAYS, MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383850 Northing: 399250	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1683m NE	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE NUMBER 1 AT PREMISES STRANGWAYS MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383850 Northing: 399250	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -

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



5.9 Source Protection Zones

Records within 500m

0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

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

5.10 Source Protection Zones (confined aquifer)

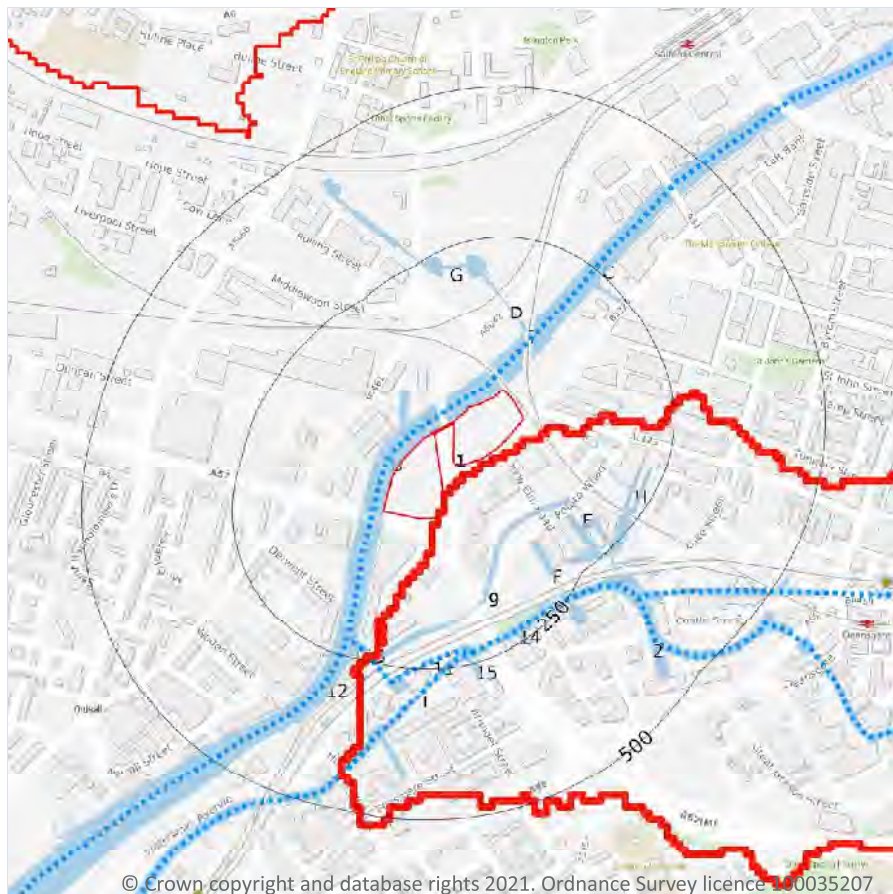
Records within 500m

0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

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

6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ... WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

24

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 107**

ID	Location	Type of water feature	Ground level	Permanence	Name
B	15m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Irwell



ID	Location	Type of water feature	Ground level	Permanence	Name
7	99m NE	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	99m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Irwell
9	106m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Medlock
D	113m N	Canal. A manmade watercourse for inland navigation.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	148m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	River Medlock
F	155m E	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	167m N	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	168m N	Lock or flight of locks. An enclosure in a canal or navigable river with gates and sluices at either end.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	188m N	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	194m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Medlock
E	194m SE	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Medlock
E	196m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Medlock
E	199m SE	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Medlock



ID	Location	Type of water feature	Ground level	Permanence	Name
H	211m E	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
11	224m S	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
12	226m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Irwell
13	226m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Medlock
H	226m E	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
14	227m SE	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Bridgewater Canal
15	233m S	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	233m S	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Bridgewater Canal
E	234m SE	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	245m S	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

13

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 107**



This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

2

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 107**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	On site	River WB catchment	Medlock (Lumb Brook to Irwell)	GB112069061152	Roch Irk Medlock	Irwell
A	On site	River WB catchment	Irwell / Manchester Ship Canal (Irk to confluence with Upper Mersey)	GB112069061452	Croal Irwell	Irwell

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

6.4 WFD Surface water bodies

Records identified

3

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on **page 107**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
6	16m NW	River	Irwell / Manchester Ship Canal (Irk to confluence with Upper Mersey)	GB112069061452	Moderate	Good	Moderate	2016
10	225m S	River	Medlock (Lumb Brook to Irwell)	GB112069061152	Moderate	Good	Moderate	2016
J	231m S	Canal	Bridgewater Canal	GB71210001	Moderate	Good	Moderate	2016



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

6.5 WFD Groundwater bodies

Records on site

1

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

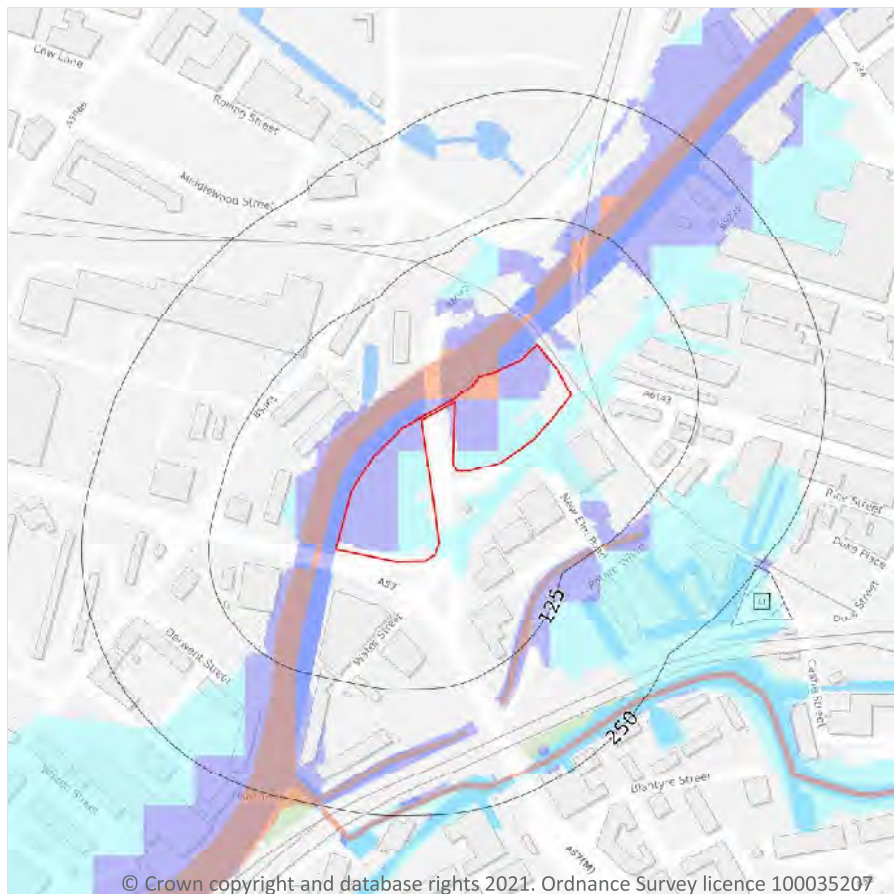
Features are displayed on the Hydrology map on **page 107**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	On site	Manchester and East Cheshire Permo-Triassic Sandstone Aquifers	<u>GB41201G101100</u>	Poor	Poor	Poor	2015

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



7 River and coastal flooding



— Site Outline

Search buffers in metres (m)

Environment Agency river and coastal flooding:

High

Medium

Low

Very Low

Historical Flood Events

Areas Used for Flood Storage

Areas Benefiting from Flood Defences

Flood Defences

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7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m

14

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance).

Features are displayed on the River and coastal flooding map on **page 112**

Distance	RoFRaS flood risk
On site	High
0 - 50m	High



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

7.2 Historical Flood Events

Records within 250m

1

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

Features are displayed on the River and coastal flooding map on **page 112**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
O	247m SE	Ea01326_21dec1991_Bridgewatercanal_Cast lefield	1991-12-21 1991-12-22	Other	Other	No data

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

7.3 Flood Defences

Records within 250m

0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

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

7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

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



7.5 Flood Storage Areas

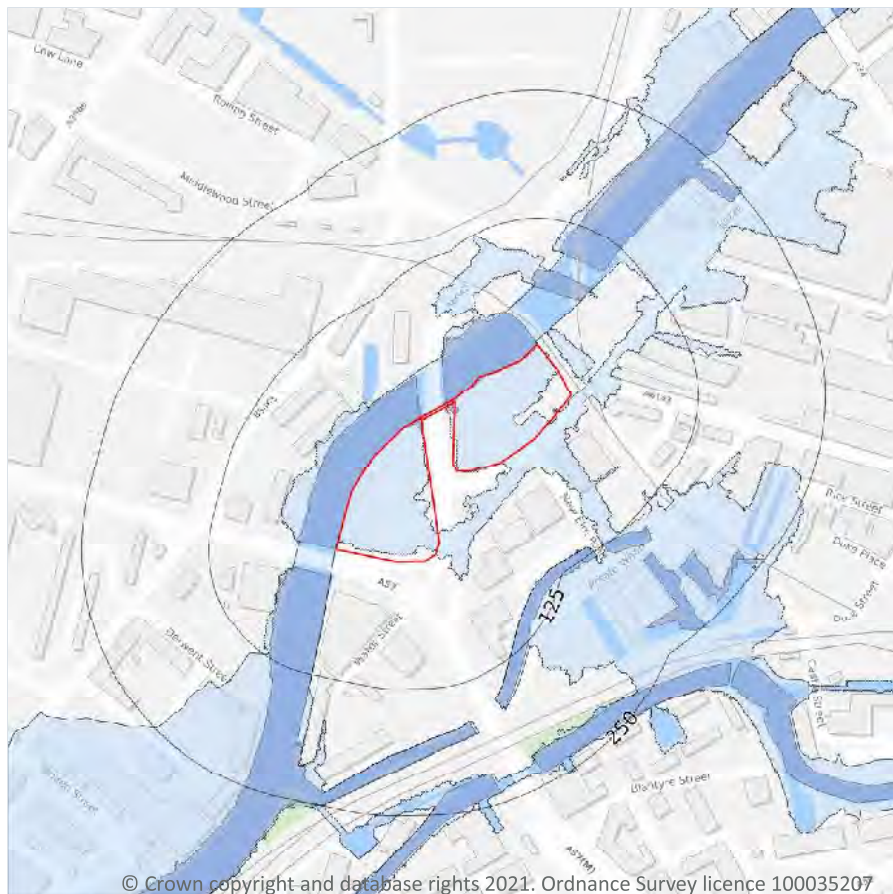
Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

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

River and coastal flooding - Flood Zones



— Site Outline
Search buffers in metres (m)

Flood zone 2
 Flood zone 3

7.6 Flood Zone 2

Records within 50m

1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

Features are displayed on the River and coastal flooding map on **page 112**

Location	Type
On site	Zone 2 - (Fluvial /Tidal Models)

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

7.7 Flood Zone 3

Records within 50m

1

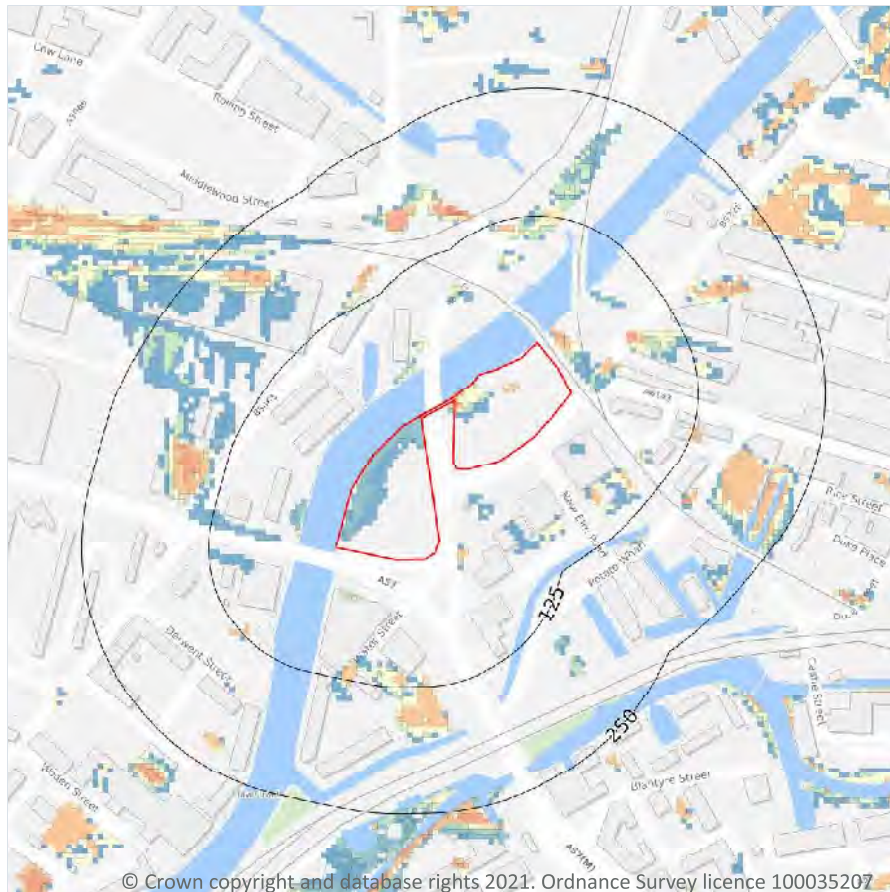
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 112**

Location	Type
On site	Zone 3 - (Fluvial Models)

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

8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.3m - 1.0m

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 117**

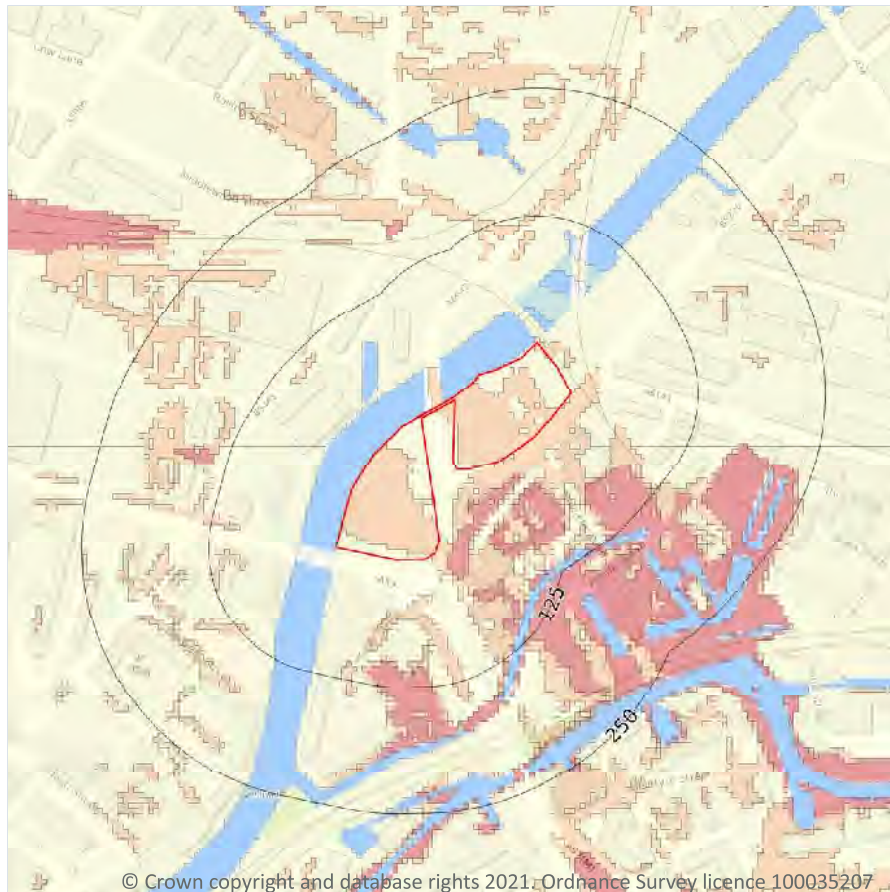
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Between 0.3m and 1.0m

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

9.1 Groundwater flooding

Highest risk on site

Moderate-High

Highest risk within 50m

High

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 119**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m

0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



10.5 National Nature Reserves (NNR)

Records within 2000m

0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m

0

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m

0

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m

0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m

0

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m

0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.



10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m**0**

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m**3**

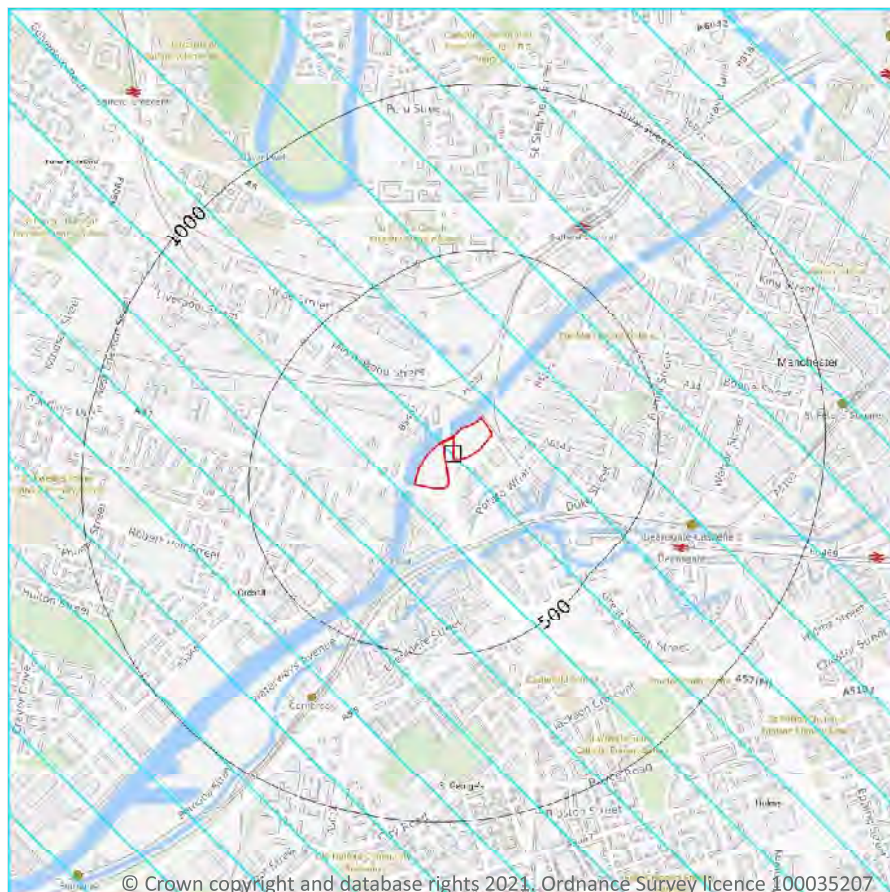
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
462m NW	Irwell / Man. Ship Canal (Kearsley to Irlam Locks) NVZ	Surface Water	S643	Existing
1366m N	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	S638	Existing
1411m NE	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	S638	Existing

This data is sourced from Natural England and Natural Resources Wales.



SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site

1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 124**

ID	Location	Type of developments requiring consultation
1	On site	Air pollution - Livestock & poultry units with floorspace > 500m ² , slurry lagoons > 4000m ² . Combustion - General combustion processes > 50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion

This data is sourced from Natural England.

10.18 SSSI Units

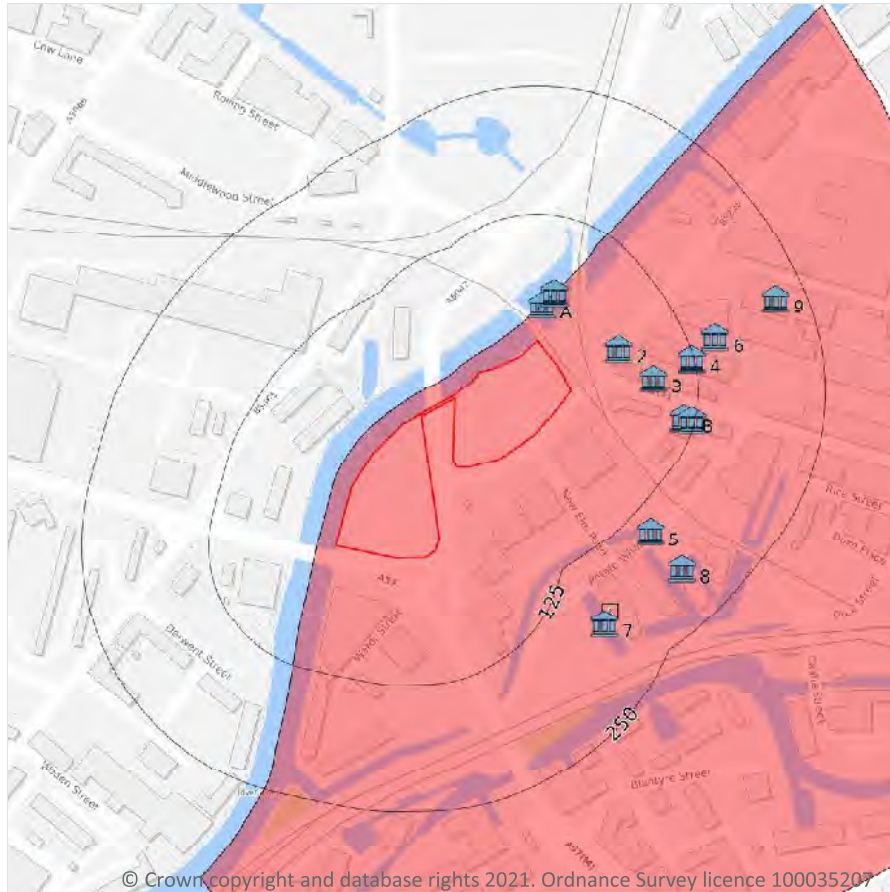
Records within 2000m

0

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

This data is sourced from Natural England and Natural Resources Wales.

11 Visual and cultural designations



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m

12

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on **page 126**

ID	Location	Name	Grade	Reference Number	Listed date
A	36m N	Railway Bridge Over River Irwell To Former Liverpool Road Station, Ordsall, Salford, M3	I	1270603	20/06/1988
A	50m N	Railway Viaduct Over River Irwell Leading To Lower Byrom Street Warehouse, Ordsall, Manchester, M3	II	1254829	06/06/1994
2	61m NE	Railway Viaduct Linking Bridge Over Irwell To Liverpool Road Station, Deansgate, Manchester, M3	II	1254726	20/06/1988



ID	Location	Name	Grade	Reference Number	Listed date
3	82m E	Former Liverpool Road Railway Station Station Masters House, Deansgate, Manchester, FORMER LIVERPOOL ROAD RAILWAY STATION	I	1291477	18/12/1963
B	114m E	Former Commercial Hotel, Deansgate, Manchester, M3	II	1219418	06/06/1994
B	122m E	123, Liverpool Road, Deansgate, Manchester, M3	II	1200804	06/06/1994
4	123m E	Old Warehouse To North Of Former Liverpool Road Railway Station, Deansgate, Manchester, M60	I	1282991	08/05/1973
5	149m SE	Pair Of Culvert Arches Over River Medlock And Associated Overflow Channel, Deansgate, Manchester, M3	II	1283003	06/06/1994
6	151m E	Colonnaded Railway Viaduct At Former Liverpool Road Goods Depot, Deansgate, Manchester, M60	II	1200805	06/06/1994
7	182m SE	Bridgewater Canal Basin At Potato Wharf, Deansgate, Manchester, M3	II	1246959	06/06/1994
8	196m SE	The Giants Basin, Deansgate, Manchester, M3	II	1247068	06/06/1994
9	221m NE	Former Grape Street Railway Bonded Warehouse, Deansgate, Manchester, M60	II	1457402	31/07/2018

This data is sourced from English Heritage, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m

1

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

Features are displayed on the Visual and cultural designations map on **page 126**

ID	Location	Name	District	Date of designation
1	On site	Castlefield	Manchester	13/10/1979

This data is sourced from English Heritage, Cadw and Historic Environment Scotland.



11.6 Scheduled Ancient Monuments

Records within 250m**0**

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from English Heritage, Cadw and Historic Environment Scotland.

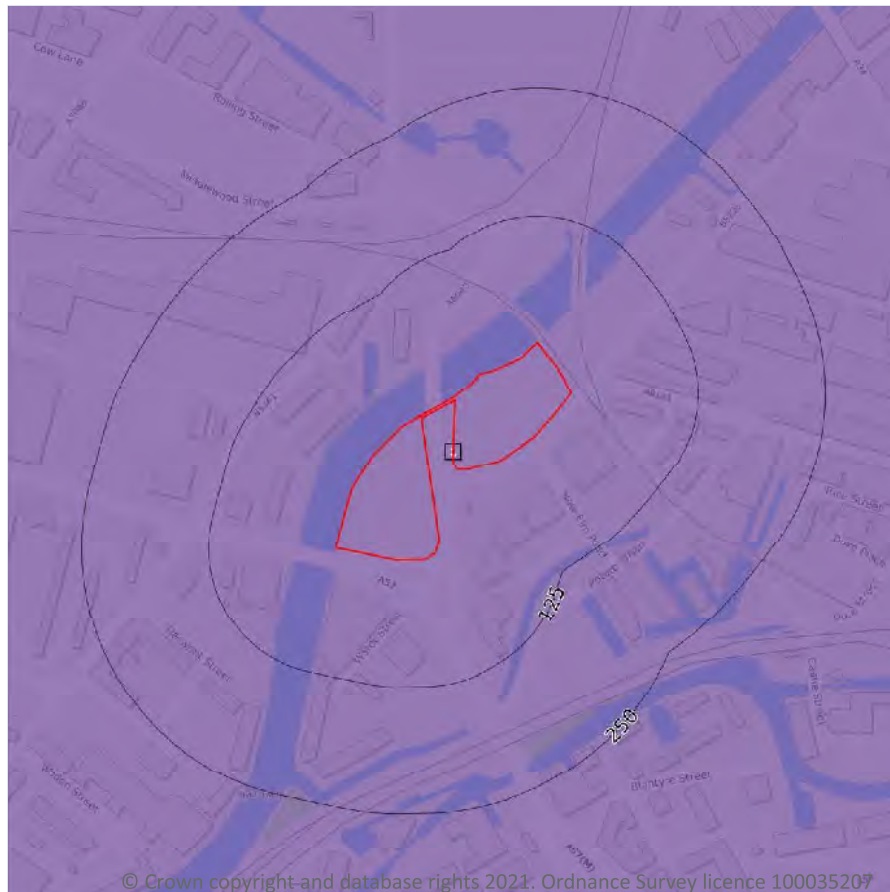
11.7 Registered Parks and Gardens

Records within 250m**0**

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from English Heritage, Cadw and Historic Environment Scotland.

12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m

1

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 130**

ID	Location	Classification	Description
1	On site	Urban	-

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m

0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

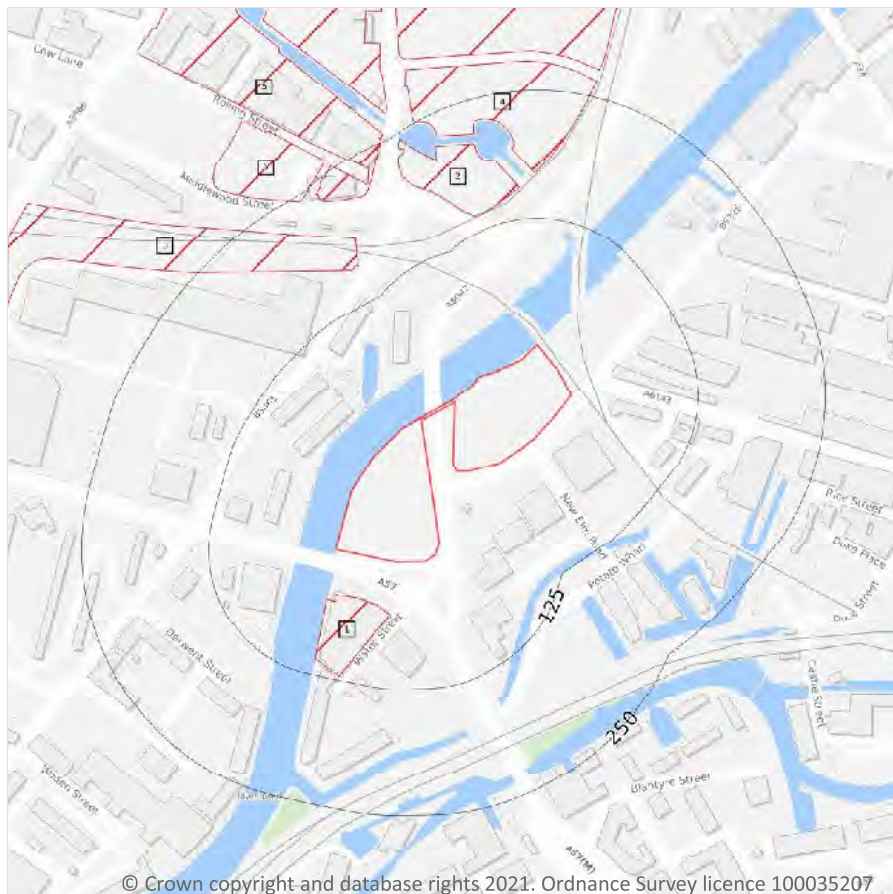
Records within 250m

0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.

13 Habitat designations



- Site Outline
- Search buffers in metres (m)
- Priority Habitat Inventory
- Open Mosaic Habitat
- Limestone Pavement Orders
- Habitat Networks
- Primary Habitat
- Restorable Habitat
- Associated Habitats
- Habitat Restoration-Creation
- Network Enhancement Zone 1
- Network Enhancement Zone 2

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13.1 Priority Habitat Inventory

Records within 250m

0

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.



13.3 Open Mosaic Habitat

Records within 250m

6

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

Features are displayed on the Habitat designations map on **page 132**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
1	42m S	NLUD Ref: 421501367	Low	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography	-
2	140m NW	-	Low	UK Perspectives Aerial Photography	-	-
3	160m NW	HLD_refs: EAHLD16525	Low	Environment Agency Historic Landfill Sites	UK Perspectives Aerial Photography	-
4	169m N	-	Low	UK Perspectives Aerial Photography	-	-
5	211m NW	-	Low	UK Perspectives Aerial Photography	-	-
6	244m NW	-	Low	UK Perspectives Aerial Photography	-	-

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
 Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

1

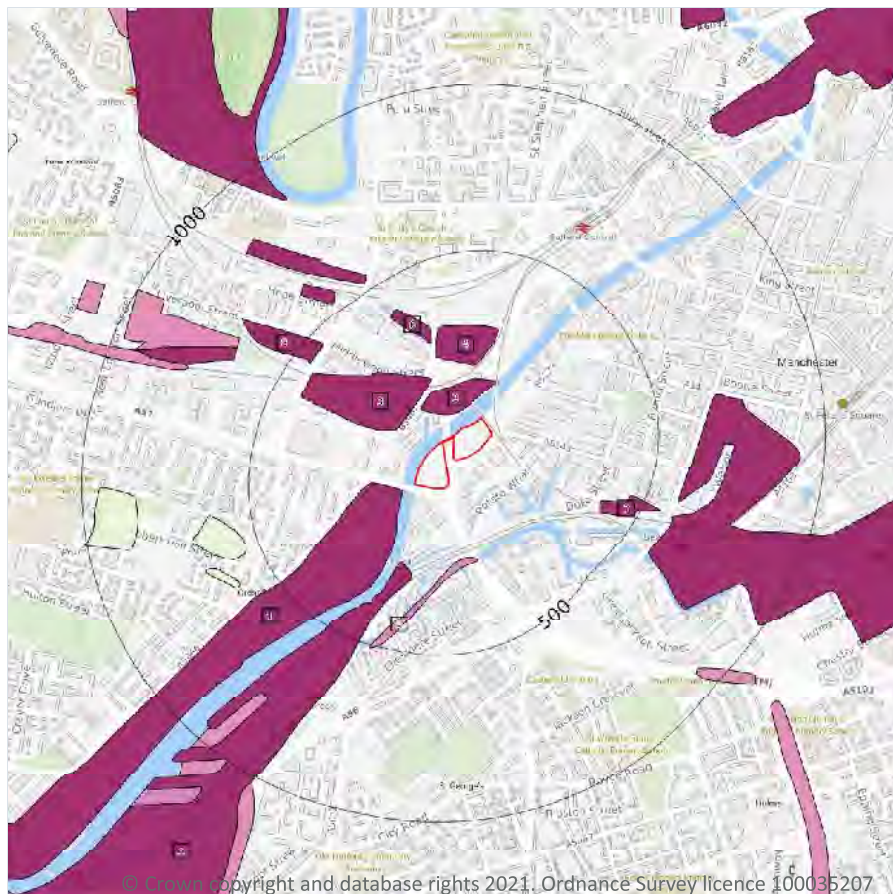
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 134**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SJ89NW

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Artificial and made ground



— Site Outline
Search buffers in metres (m)

- Reclaimed ground
- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

9

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 135**

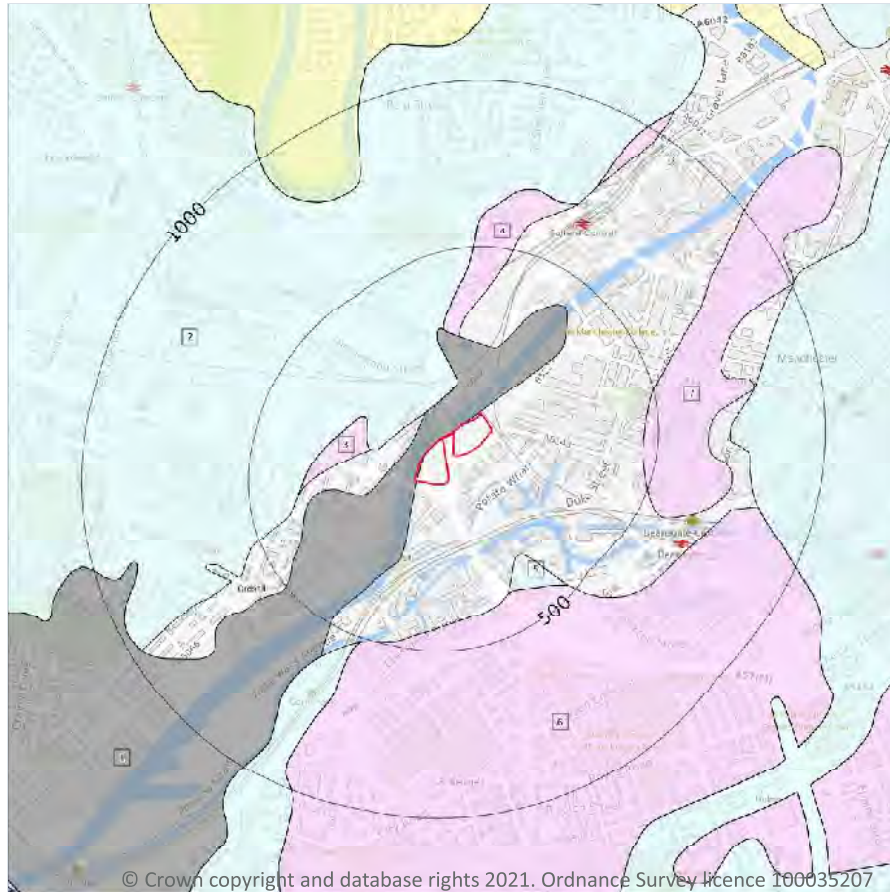
ID	Location	LEX Code	Description	Rock description
1	40m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	47m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	118m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	161m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
5	219m S	WGR-VOID	Worked Ground (Undivided)	Void
A	236m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	271m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	384m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	447m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

 Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

7

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 137**

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XSWCV	Alluvium - Sand With Clay And Gravel	Sand With Clay And Gravel [unlithified Deposits Coding Scheme - Extended]
2	89m NW	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
3	148m W	GFSDD-XSV	Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel	Sand And Gravel



ID	Location	LEX Code	Description	Rock description
4	238m N	GFSDD-XSV	Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel	Sand And Gravel
5	305m SE	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
6	380m SE	GFSDD-XSV	Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel	Sand And Gravel
7	456m E	GFSDD-XSV	Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

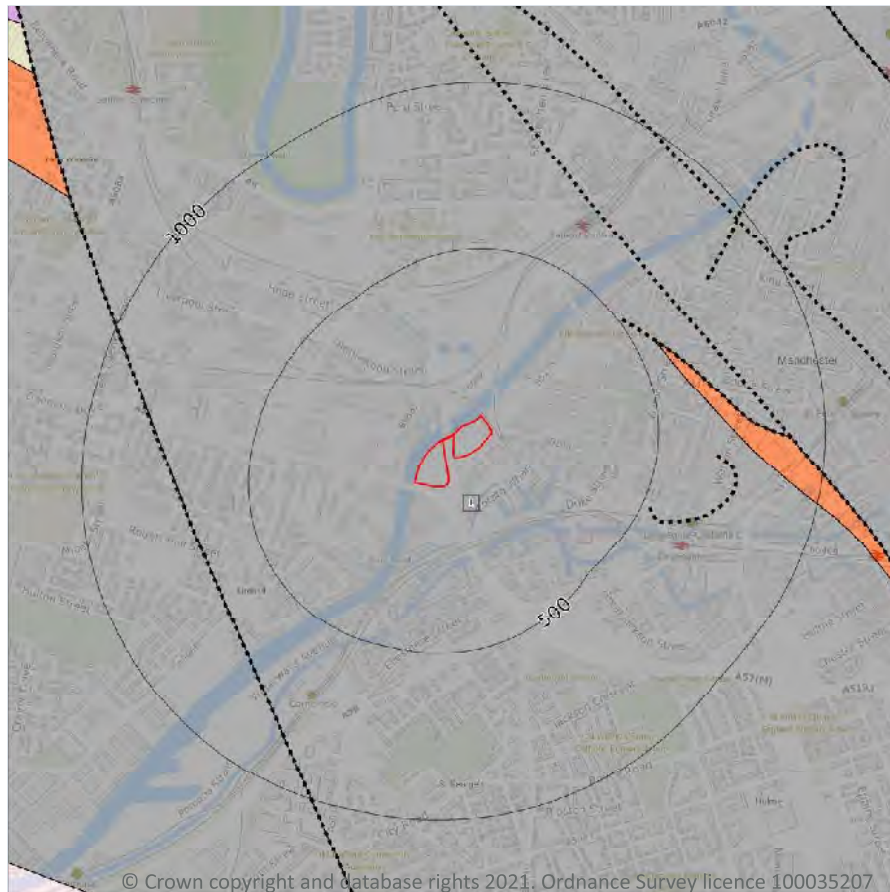
0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

Bedrock geology (10k)
 Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

1

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 139**

ID	Location	LEX Code	Description	Rock age
1	On site	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
Search buffers in metres (m)

☐ Geological map tile

15.1 50k Availability

Records within 500m

1

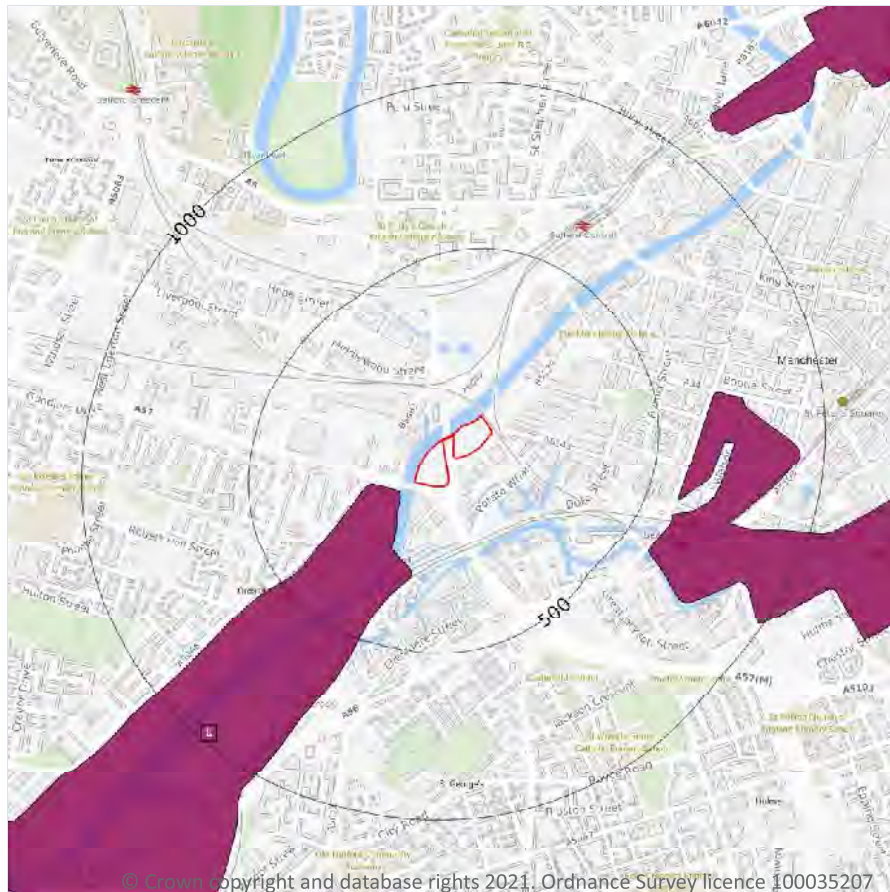
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 141**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW085_manchester_v4

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Artificial and made ground



— Site Outline
Search buffers in metres (m)

- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m

1

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 142**

ID	Location	LEX Code	Description	Rock description
1	52m SW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

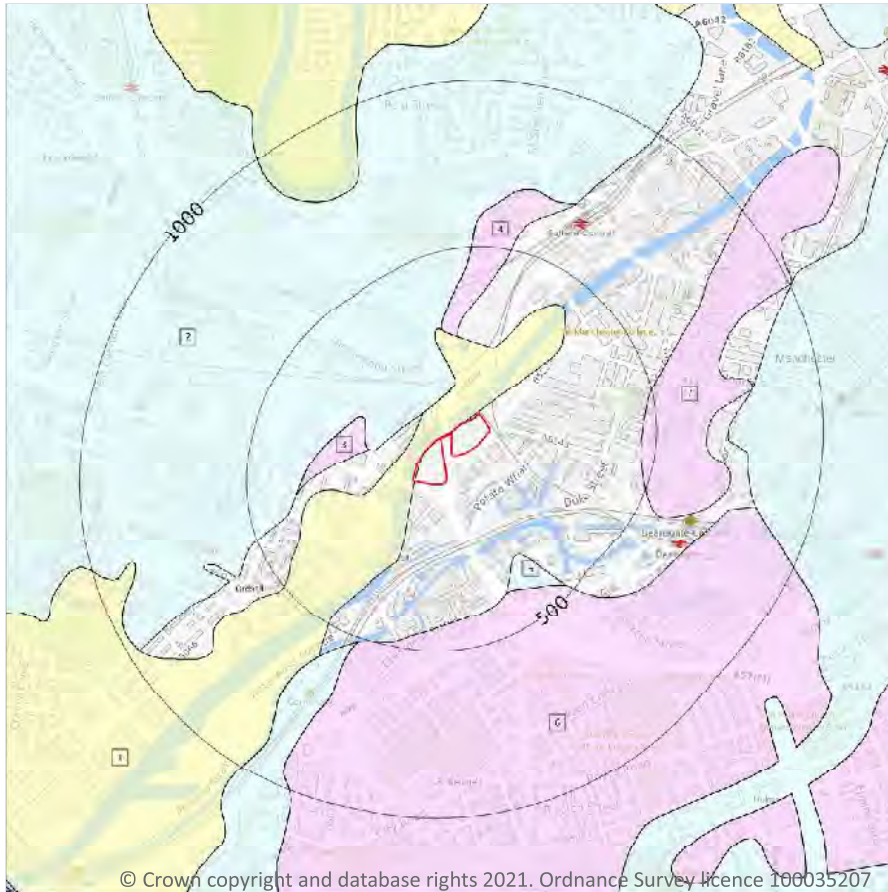
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

7

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 144**

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
2	89m NW	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
3	148m W	GFSDD-XSV	GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN	SAND AND GRAVEL
4	238m N	GFSDD-XSV	GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN	SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
5	305m SE	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
6	380m SE	GFSDD-XSV	GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN	SAND AND GRAVEL
7	456m E	GFSDD-XSV	GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	High	Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

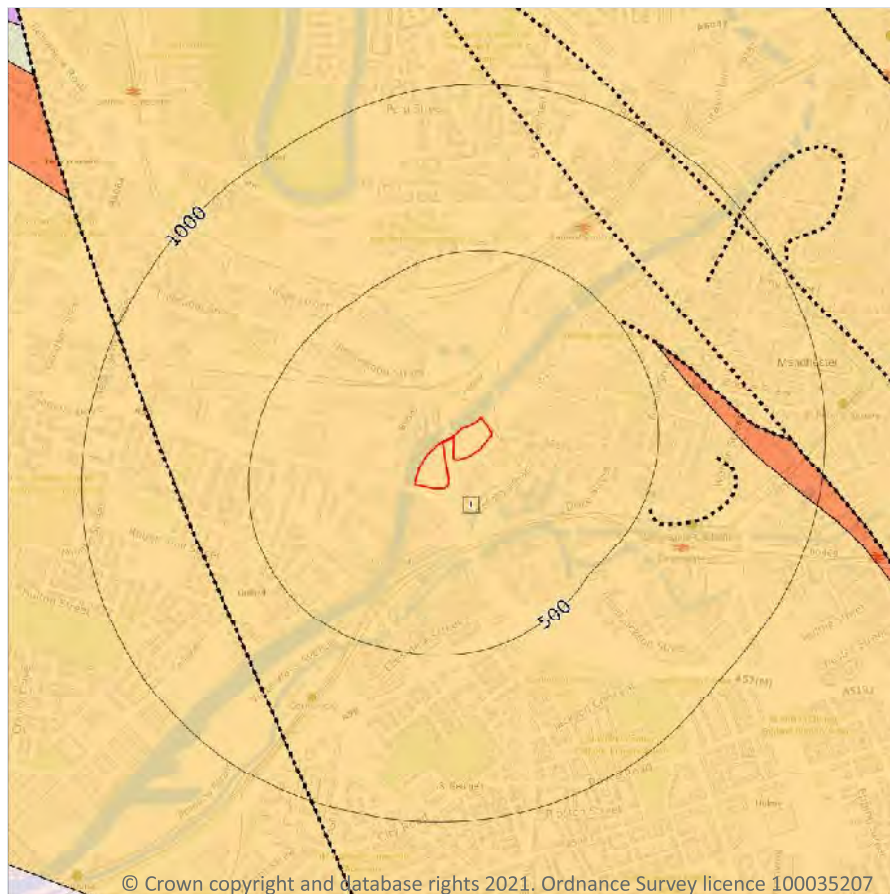
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (50k)

Bedrock geology (50k)
 Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

1

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 146**

ID	Location	LEX Code	Description	Rock age
1	On site	CHES-SDST	CHESTER FORMATION - SANDSTONE	OLENEKIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m**1**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

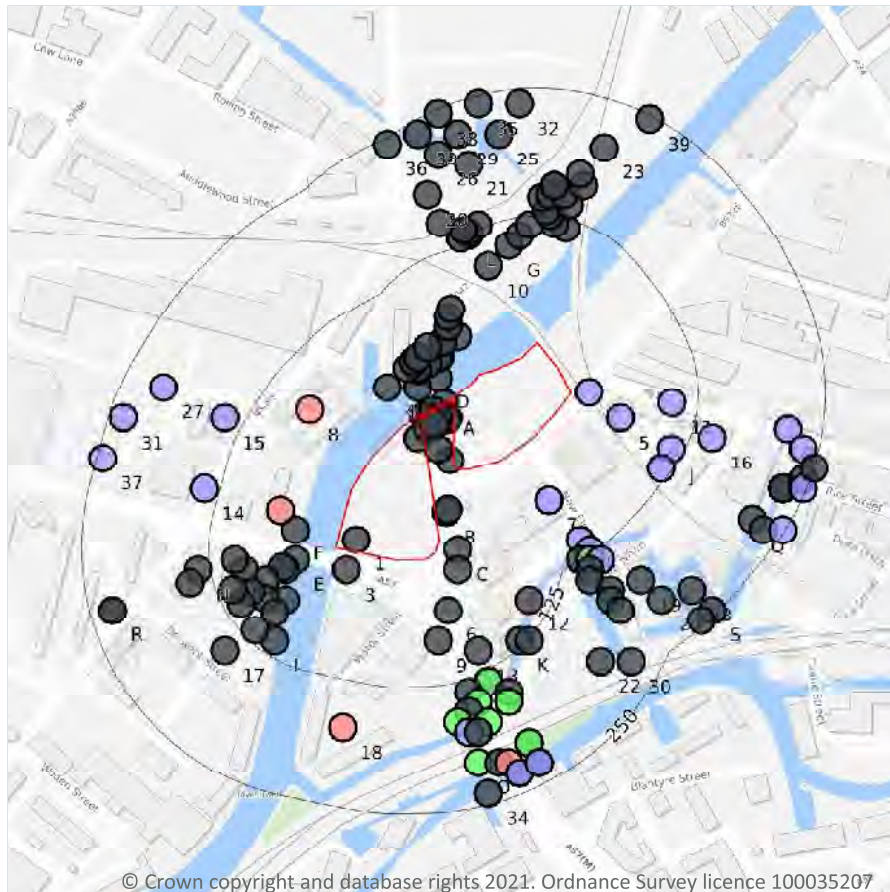
Records within 500m**0**

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
 Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m

167

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on **page 148**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	382660 397710	REGENT BRIDGE 3	-	Y	N/A
A	On site	382747 397844	INNER RELIEF ROUTE 6	-	Y	N/A
A	On site	382720 397810	RIVER IRWELL CROSSING MANCHESTER CITY A	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	382726 397832	INNER RELIEF ROUTE 4/4A	-	Y	N/A
A	On site	382726 397832	INNER RELIEF ROUTE 4B	-	Y	N/A
A	On site	382735 397837	INNER RELIEF ROUTE 5	-	Y	N/A
A	3m W	382752 397788	INNER RELIEF ROUTE 2	-	Y	N/A
A	5m E	382730 397820	RIVER IRWELL CROSSING MANCHESTER CITY B	-	Y	N/A
A	6m W	382750 397830	RIVER IRWELL CROSSING MANCHESTER CITY 1	-	Y	N/A
A	7m W	382749 397829	INNER RELIEF ROUTE 7	-	Y	N/A
A	7m SE	382740 397830	RIVER IRWELL CROSSING MANCHESTER CITY C	-	Y	N/A
B	10m E	382748 397737	INNER RELIEF ROUTE 1	-	Y	N/A
A	12m E	382740 397800	MSIRR REGENT ROAD - GORE STREET 2	-	Y	N/A
A	12m SE	382737 397823	INNER RELIEF ROUTE 3	-	Y	N/A
B	13m E	382750 397740	MSIRR REGENT ROAD - GORE STREET 1	-	Y	N/A
2	18m E	382889 397856	MANCHESTER CORP. E.SEWER	3.66	N	1042239
3	19m S	382650 397680	REGENT BRIDGE 4	-	Y	N/A
C	21m E	382760 397700	CHESTER ROAD PHASE 2 TP7/7A	-	Y	N/A
D	25m NW	382740 397870	RIVER IRWELL CROSSING MANCHESTER CITY X	-	Y	N/A
D	26m NW	382720 397860	RIVER IRWELL CROSSING MANCHESTER CITY Y	-	Y	N/A
C	28m SE	382760 397680	CHESTER ROAD PHASE 2 1	-	Y	N/A
D	40m NW	382742 397890	INNER RELIEF ROUTE 10	-	Y	N/A
4	41m NW	382690 397860	MSIRR REGENT ROAD - GORE STREET CP 1	-	Y	N/A
D	41m NW	382740 397890	RIVER IRWELL CROSSING MANCHESTER CITY Z	-	Y	N/A
E	41m W	382600 397690	REGENT BRIDGE 2	-	Y	N/A
D	41m NW	382721 397878	INNER RELIEF ROUTE 8	-	Y	N/A
D	42m NW	382760 397910	RIVER IRWELL CROSSING MANCHESTER CITY K	-	Y	N/A
D	42m NW	382730 397884	INNER RELIEF ROUTE 9A	-	Y	N/A
D	42m NW	382730 397884	INNER RELIEF ROUTE 9	-	Y	N/A
F	43m W	382600 397720	REGENT BRIDGE 1	-	Y	N/A
D	43m NW	382720 397880	RIVER IRWELL CROSSING MANCHESTER CITY W	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
D	47m NW	382745 397905	INNER RELIEF ROUTE 12	-	Y	N/A
D	47m NW	382745 397905	INNER RELIEF ROUTE 12A	-	Y	N/A
D	48m NW	382710 397880	MSIRR REGENT ROAD - GORE STREET CP 2	-	Y	N/A
D	51m NW	382716 397886	INNER RELIEF ROUTE 11	-	Y	N/A
D	52m NW	382720 397890	RIVER IRWELL CROSSING MANCHESTER CITY I	-	Y	N/A
D	52m NW	382720 397890	RIVER IRWELL CROSSING MANCHESTER CITY H	-	Y	N/A
E	54m SW	382590 397680	REGENT ROAD SALFORD B2	-	Y	N/A
5	54m SE	382920 397830	MANCHESTER, WOOLHAM PLACE 1	3.1	N	1042835
D	55m NW	382730 397900	RIVER IRWELL CROSSING MANCHESTER CITY J	-	Y	N/A
6	55m SE	382750 397640	CHESTER ROAD PHASE 2 2	-	Y	N/A
E	56m W	382587 397683	REGENT ROAD SALFORD WS 3	-	Y	N/A
D	56m NW	382750 397920	RIVER IRWELL CROSSING MANCHESTER CITY L	-	Y	N/A
7	59m SE	382849 397749	MANCHESTER CORP. MARKET COLD AIR STORES, ELM ST	-2.0	N	1042441
F	62m W	382585 397739	GROVES & WHITNALL'S BREWERY REGENT ROAD	103.94	N	1042377
D	64m NW	382750 397930	MSIRR REGENT ROAD - GORE STREET 3	-	Y	N/A
D	70m NW	382753 397938	INNER RELIEF ROUTE 13	-	Y	N/A
E	71m SW	382590 397650	REGENT ROAD SALFORD B3	-	Y	N/A
E	76m SW	382570 397670	REGENT ROAD SALFORD B1	-	Y	N/A
8	77m NW	382614 397838	GROVES & WHITNALL'S BREWERY REGENT ROAD	203.0	N	1042376
9	81m S	382740 397610	CHESTER ROAD PHASE 2 3	-	Y	N/A
E	85m SW	382570 397652	REGENT ROAD SALFORD WS 2	-	Y	N/A
E	87m SW	382580 397638	REGENT ROAD SALFORD WS 4	-	Y	N/A
10	90m NW	382790 397980	MSIRR REGENT ROAD - GORE STREET 4	-	Y	N/A
E	92m W	382550 397680	REGENT ROAD SALFORD 4	-	Y	N/A
E	94m SW	382556 397658	REGENT ROAD SALFORD WS 1	-	Y	N/A
G	100m N	382810 398000	MSIRR REGENT ROAD - GORE STREET TH 3	-	Y	N/A
E	100m W	382540 397690	REGENT ROAD SALFORD A4	-	Y	N/A
11	100m E	382971 397845	MANCHESTER CORP. E.SEWER	7.92	N	1042238



ID	Location	Grid reference	Name	Length	Confidential	Web link
12	104m SE	382830 397650	POTATO WHARF PWR2	-	Y	N/A
13	105m SE	382780 397600	CHESTER ROAD PHASE 2 14	-	Y	N/A
G	107m N	382820 398010	MSIRR REGENT ROAD - GORE STREET TH 4	-	Y	N/A
E	108m SW	382546 397647	REGENT ROAD SALFORD 5	-	Y	N/A
H	109m SE	382880 397710	MANCHESTER AND SALFORD INNER RELIEF ROAD TP41	2.0	N	1045788
E	109m W	382538 397661	REGENT ROAD SALFORD 3	-	Y	N/A
I	109m SW	382580 397610	REGENT ROAD SALFORD A1	-	Y	N/A
J	113m SE	382970 397800	MANCHESTER, WOOLHAM PLACE 4	3.7	N	1042836
I	114m SW	382560 397620	REGENT ROAD SALFORD A2	-	Y	N/A
J	116m SE	382960 397780	MANCHESTER, WOOLHAM PLACE 5	4.7	N	1042837
G	116m N	382830 398020	MSIRR REGENT ROAD - GORE STREET 5	-	Y	N/A
G	116m N	382866 398017	INNER RELIEF ROUTE 30	-	Y	N/A
G	118m N	382855 398021	INNER RELIEF ROUTE 32	-	Y	N/A
K	120m SE	382820 397610	CHESTER ROAD PHASE 2 11A	-	Y	N/A
H	123m SE	382890 397700	MANCHESTER AND SALFORD INNER RELIEF ROAD NER1	8.0	N	1045786
H	125m SE	382880 397690	POTATO WHARF NEW ELM STREET 2	-	Y	N/A
L	126m NW	382770 398010	MSIRR REGENT ROAD - GORE STREET TH 1	-	Y	N/A
G	126m N	382850 398030	MSIRR REGENT ROAD - GORE STREET 6	-	Y	N/A
K	127m SE	382830 397610	POTATO WHARF PWR1	-	Y	N/A
L	128m NW	382762 398007	INNER RELIEF ROUTE 25	-	Y	N/A
L	128m NW	382770 398013	INNER RELIEF ROUTE 23	-	Y	N/A
L	129m NW	382780 398020	MSIRR REGENT ROAD - GORE STREET TH 2	-	Y	N/A
G	130m N	382847 398034	INNER RELIEF ROUTE 33	-	Y	N/A
H	131m SE	382890 397690	MANCHESTER AND SALFORD INNER RELIEF ROAD NER2	21.1	N	1045787
L	133m NW	382765 398015	INNER RELIEF ROUTE 24	-	Y	N/A
M	136m SE	382790 397570	CHESTER ROAD PHASE 2 13	-	Y	N/A
M	136m SE	382790 397570	MANCUNIAN WAY - REGENT ROAD DS3	10.5	N	1043490



ID	Location	Grid reference	Name	Length	Confidential	Web link
H	137m SE	382900 397690	MANCHESTER AND SALFORD INNER RELIEF ROAD TP42	4.0	N	1045789
M	137m S	382770 397560	CHESTER ROAD PHASE 2 4	-	Y	N/A
N	137m W	382504 397680	REGENT ROAD SALFORD 2	-	Y	N/A
H	139m SE	382890 397680	POTATO WHARF NEW ELM STREET 3	-	Y	N/A
G	140m N	382870 398040	INNER RELIEF ROUTE 27	-	Y	N/A
14	140m W	382510 397760	WEST UNION STREET SALFORD TP 2	3.0	N	1042848
G	143m N	382842 398047	INNER RELIEF ROUTE 34	-	Y	N/A
15	144m NW	382530 397830	WEST UNION STREET SALFORD TP 3	2.0	N	1042849
16	146m E	383010 397810	MANCHESTER, WOOLHAM PLACE 6	4.9	N	1042838
G	146m N	382850 398050	INNER RELIEF ROUTE 31A	-	Y	N/A
G	146m N	382850 398050	INNER RELIEF ROUTE 31	-	Y	N/A
H	147m SE	382890 397670	POTATO WHARF NEW ELM STREET 1	-	Y	N/A
N	147m W	382496 397667	REGENT ROAD SALFORD 1	-	Y	N/A
G	148m N	382864 398050	INNER RELIEF ROUTE 28	-	Y	N/A
17	149m SW	382530 397600	REGENT ROAD SALFORD A3	-	Y	N/A
M	150m S	382780 397550	MANCUNIAN WAY - REGENT ROAD DS2	19.03	N	1043489
L	152m NW	382742 398022	INNER RELIEF ROUTE 26	-	Y	N/A
M	154m SE	382810 397560	CHESTER ROAD PHASE 2 10	-	Y	N/A
G	156m N	382855 398059	INNER RELIEF ROUTE 29	-	Y	N/A
G	156m N	382855 398059	INNER RELIEF ROUTE 29A	-	Y	N/A
M	156m S	382770 397540	CHESTER ROAD PHASE 2 5	-	Y	N/A
G	161m N	382884 398059	INNER RELIEF ROUTE 15	-	Y	N/A
M	163m SE	382810 397550	MANCUNIAN WAY - REGENT ROAD DS6	20.35	N	1043492
M	164m S	382760 397530	MANCUNIAN WAY - REGENT ROAD DS1	18.0	N	1043488
H	167m SE	382910 397660	POTATO WHARF MANCHESTER R2	-	Y	N/A
G	171m N	382880 398070	MSIRR REGENT ROAD - GORE STREET 7	-	Y	N/A
18	172m S	382646 397525	RYLANDS & SONS DACCA MILLS, WATER STREET	102.57	N	1042378



ID	Location	Grid reference	Name	Length	Confidential	Web link
M	172m S	382790 397530	MANCHESTER 7 SALFORD INNER RELIEF ROAD REGENT ROAD TO CHESTER ROAD DS5	12.2	N	1044174
H	175m SE	382910 397650	POTATO WHARF MANCHESTER R1	-	Y	N/A
M	176m S	382770 397520	MANCUNIAN WAY - REGENT ROAD DS4	10.0	N	1043491
19	176m SE	382940 397670	POTATO WHARF MANCHESTER TP 1	-	Y	N/A
M	178m S	382780 397520	CHESTER ROAD PHASE 2 6	-	Y	N/A
20	181m NW	382730 398050	INTERCEPTOR SEWER STAGE II SALFORD 7.1	-	Y	N/A
21	188m N	382770 398080	MAN CENTRAL EAST ORDSALL LANE STRETFORD 12	-	Y	N/A
H	189m SE	382920 397640	POTATO WHARF MANCHESTER TP 2	-	Y	N/A
22	194m SE	382900 397590	POTATO WHARF MANCHESTER TP 5	-	Y	N/A
23	204m N	382904 398097	INNER RELIEF ROUTE 16	-	Y	N/A
24	204m SE	382960 397650	POTATO WHARF MANCHESTER TP 3	-	Y	N/A
O	207m S	382780 397490	MANCUNIAN WAY - REGENT ROAD ES1	17.66	N	1043493
O	207m SE	382830 397510	CHESTER ROAD PHASE 2 9	-	Y	N/A
O	207m SE	382830 397510	MANCUNIAN WAY - REGENT ROAD ES3	19.0	N	1043495
25	209m N	382800 398110	MAN CENTRAL EAST ORDSALL LANE STRETFORD 10	-	Y	N/A
26	210m NW	382740 398090	MAN CENTRAL EAST ORDSALL LANE STRETFORD 11	-	Y	N/A
27	211m NW	382470 397860	WEST UNION STREET SALFORD 6	8.0	N	1042844
O	213m S	382800 397490	CHESTER ROAD PHASE 2 7	-	Y	N/A
P	217m E	383085 397819	MANCHESTER CORP. E.SEWER	7.01	N	1042237
O	217m SE	382810 397490	MANCUNIAN WAY - REGENT ROAD ES2	30.6	N	1043494
28	217m SE	382990 397660	VISIONS CENTRE, CASTLEFIELD 1	-	Y	N/A
Q	218m SE	383050 397730	SWING BRIDGES, STAFFS WHARFE 2	-	Y	N/A
29	220m N	382760 398110	MAN CENTRAL EAST ORDSALL LANE STRETFORD 9	-	Y	N/A
30	220m SE	382930 397590	POTATO WHARF CASTLEFIELD	-	Y	N/A
R	228m W	382420 397640	INTERCEPTOR SEWER STAGE II SALFORD 5.1	-	Y	N/A
R	228m W	382420 397640	INTERCEPTOR SEWER STAGE II SALFORD 6.1	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
P	229m SE	383080 397760	PRO DEV STAFF'DSHIRE WHARF TP4	-	Y	N/A
P	229m SE	383080 397760	PRO DEV STAFF'DSHIRE WHARF BH2	-	Y	N/A
P	229m SE	383080 397760	PRO DEV STAFF'DSHIRE WHARF BH1	-	Y	N/A
P	229m SE	383080 397760	PRO DEV STAFF'DSHIRE WHARF TP1	-	Y	N/A
P	229m SE	383080 397760	PRO DEV STAFF'DSHIRE WHARF BH3	-	Y	N/A
P	229m SE	383080 397760	PRO DEV STAFF'DSHIRE WHARF TP3	-	Y	N/A
P	229m SE	383080 397760	PRO DEV STAFF'DSHIRE WHARF TP2	-	Y	N/A
O	230m SE	382820 397480	CHESTER ROAD PHASE 2 TP1	-	Y	N/A
O	230m SE	382820 397480	MANCUNIAN WAY - REGENT ROAD ES5	4.2	N	1043496
O	230m SE	382840 397490	CHESTER ROAD PHASE 2 TP2	-	Y	N/A
O	230m SE	382840 397490	MANCUNIAN WAY - REGENT ROAD ES6	4.0	N	1043497
Q	232m SE	383060 397720	SWING BRIDGES, STAFFS WHARFE 1	-	Y	N/A
P	235m E	383100 397800	NEW OFFICES LIVERPOOL ROAD MANCHESTER 1	9.0	N	1044464
31	236m W	382430 397830	WEST UNION STREET SALFORD TP 4	3.0	N	1042850
32	236m N	382820 398140	MAN CENTRAL EAST ORDSALL LANE STRETFORD 7	-	Y	N/A
33	237m NW	382720 398110	MAN CENTRAL EAST ORDSALL LANE STRETFORD 8	-	Y	N/A
34	239m S	382790 397460	MANCHESTER 7 SALFORD INNER RELIEF ROAD REGENT ROAD TO CHESTER ROAD ES4	-	Y	N/A
35	243m N	382780 398140	MAN CENTRAL EAST ORDSALL LANE STRETFORD 6	-	Y	N/A
P	244m E	383100 397770	CASTLEFIELD CENTRE MANCHESTER TP 3	-	Y	N/A
36	244m N	382690 398100	EAST ORDSALL SALFORD 8	-	Y	N/A
37	244m W	382410 397790	WEST UNION STREET SALFORD TP 1	3.0	N	1042847
S	245m SE	383010 397640	VISIONS CENTRE, CASTLEFIELD 2	-	Y	N/A
S	245m SE	383000 397630	VISIONS CENTRE, CASTLEFIELD 3	-	Y	N/A
38	246m NW	382740 398130	MAN CENTRAL EAST ORDSALL LANE STRETFORD 5	-	Y	N/A
39	247m NE	382949 398125	INNER RELIEF ROUTE 17	-	Y	N/A
P	247m E	383100 397760	CASTLEFIELD ROAD AND SEWERS J	5.05	N	1045615

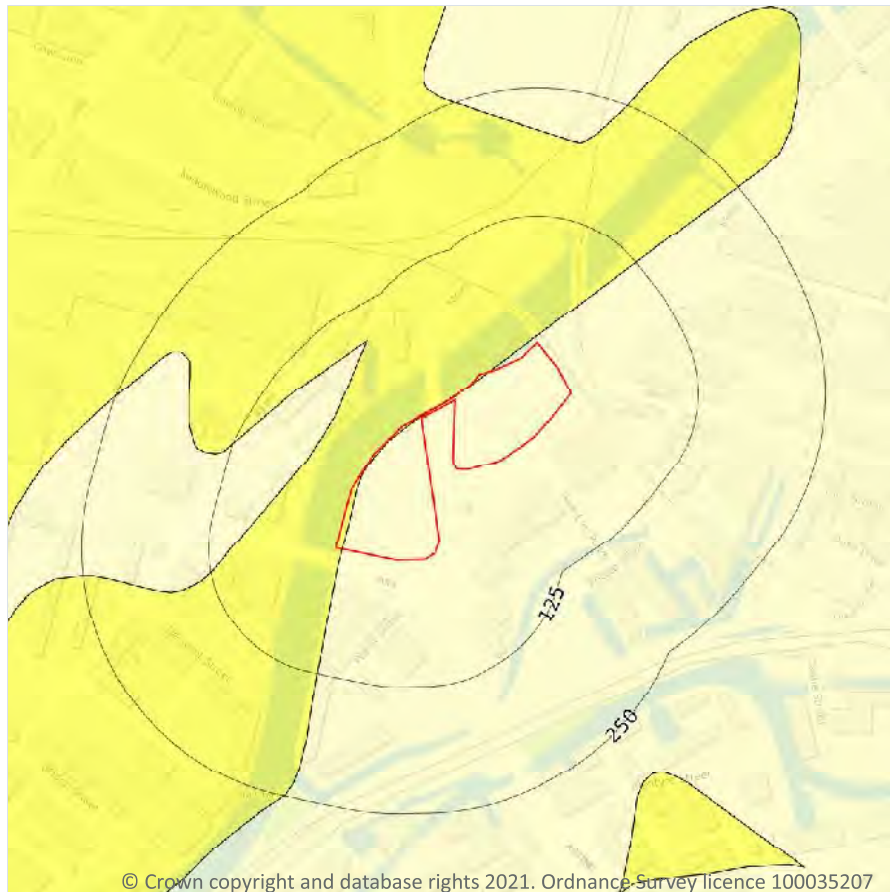


ID	Location	Grid reference	Name	Length	Confidential	Web link
Q	248m SE	383080 397720	CASTLEFIELD ROAD AND SEWERS H	2.5	N	1045614
P	250m E	383110 397780	CASTLEFIELD CENTRE MANCHESTER 1	-	Y	N/A

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



— Site Outline
 Search buffers in metres (m)

- ☐ No data
- ☐ Negligible
- ☐ Very low
- ☐ Low
- ☐ Moderate
- ☐ High

17.1 Shrink swell clays

Records within 50m

2

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

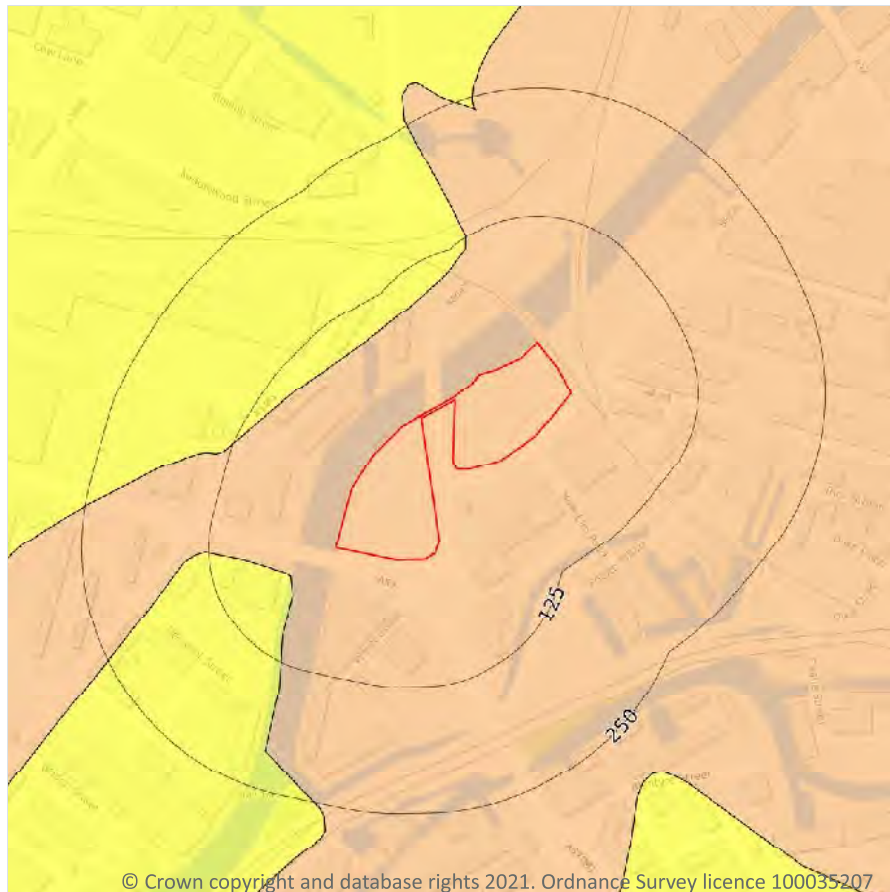
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 156**

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



— Site Outline
Search buffers in metres (m)

- ☐ No data
- ☐ Negligible
- ☐ Very low
- ☐ Low
- ☐ Moderate
- ☐ High

17.2 Running sands

Records within 50m

1

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

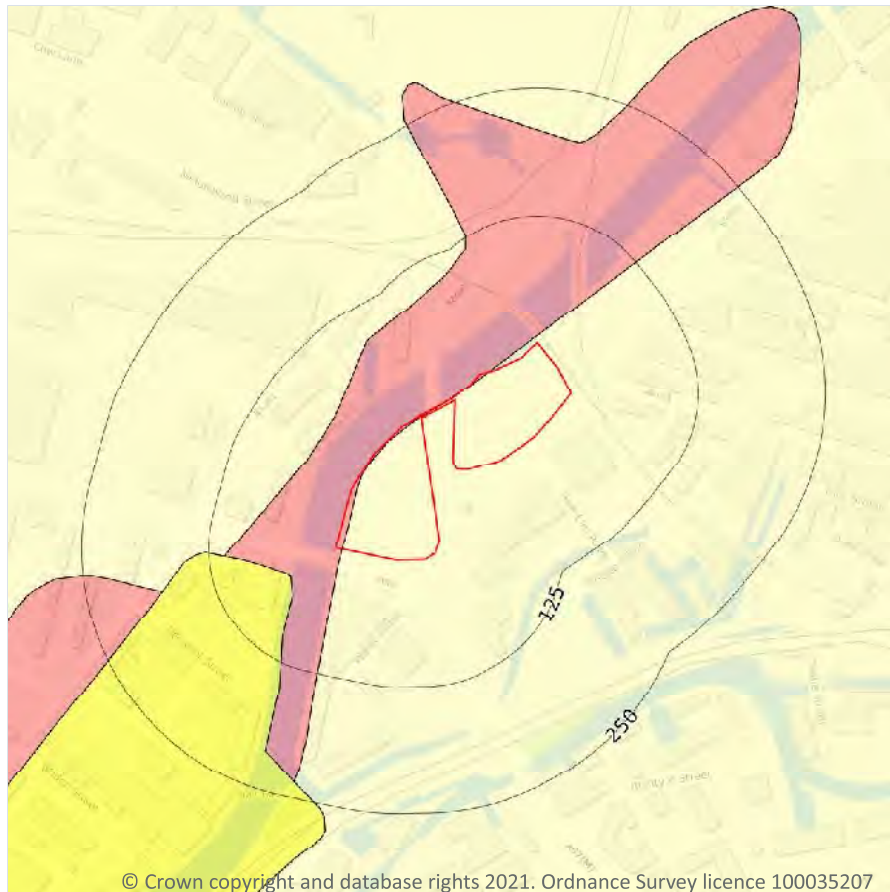
Features are displayed on the Natural ground subsidence - Running sands map on **page 157**

Location	Hazard rating	Details
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



— Site Outline
Search buffers in metres (m)

- ☐ No data
- ☐ Negligible
- ☐ Very low
- ☐ Low
- ☐ Moderate
- ☐ High

17.3 Compressible deposits

Records within 50m

2

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

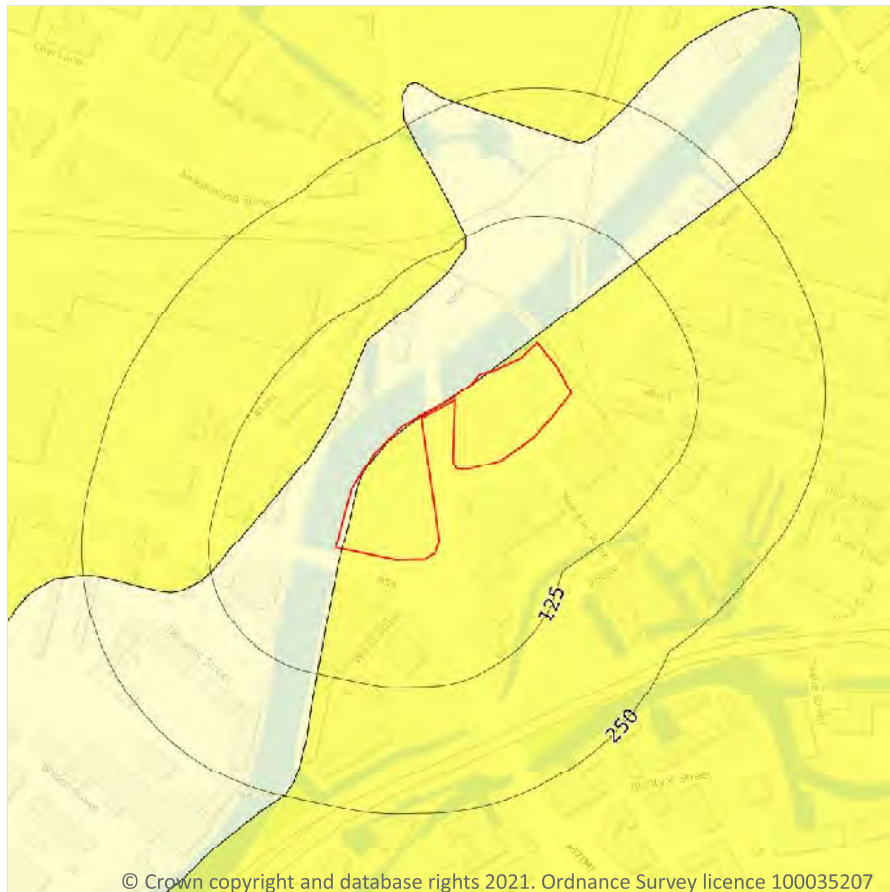
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 158**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



— Site Outline
 Search buffers in metres (m)

- ☐ No data
- ☐ Negligible
- ☐ Very low
- ☐ Low
- ☐ Moderate
- ☐ High

17.4 Collapsible deposits

Records within 50m

2

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

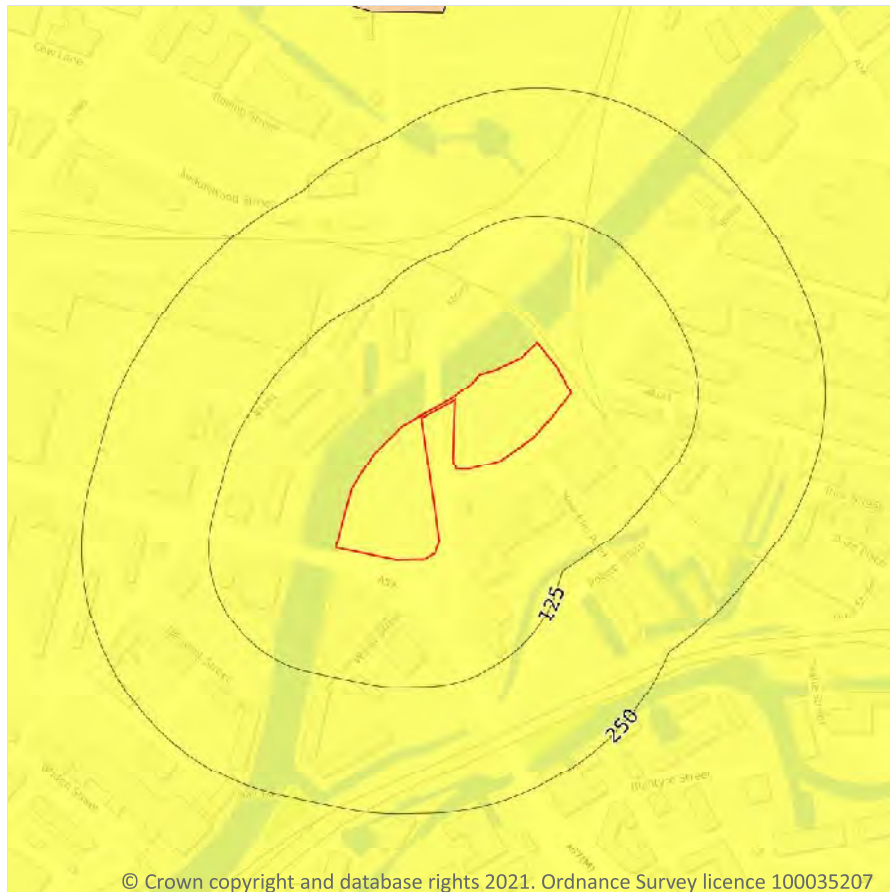
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 160**

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



— Site Outline
Search buffers in metres (m)

- ☐ No data
- ☐ Negligible
- ☐ Very low
- ☐ Low
- ☐ Moderate
- ☐ High

17.5 Landslides

Records within 50m

1

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 161**

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



— Site Outline
Search buffers in metres (m)

- ☐ No data
- ☐ Negligible
- ☐ Very low
- ☐ Low
- ☐ Moderate
- ☐ High

17.6 Ground dissolution of soluble rocks

Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

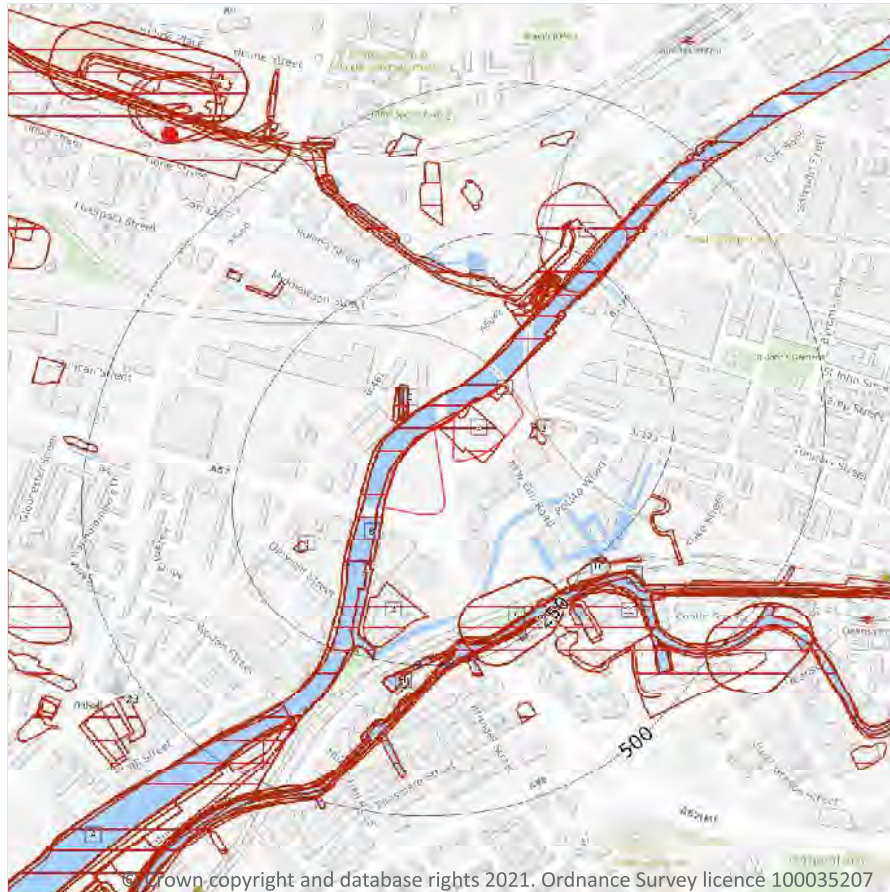
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 162**

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Peter Brett Associates (PBA).

18.2 BritPits

Records within 500m

0

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

52

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 164**

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Refuse Heap	1851	1:10560
2	On site	Quay	1851	1:10560
A	On site	Canal	1938	1:10560
A	On site	Canal	1932	1:10560
A	On site	Canal	1916	1:10560
A	On site	Canal	1905	1:10560
B	On site	Canal	1971	1:10000
B	On site	Canal	1956	1:10560
B	On site	Canal	1988	1:10000
B	On site	Canal	1978	1:10000
B	On site	Canal	1985	1:10000
B	On site	Canal	1994	1:10000
3	21m SE	Refuse Heap	1851	1:10560
C	40m NW	Pond	1896	1:10560
C	42m NW	Pond	1956	1:10560
C	46m NW	Pond	1938	1:10560
C	46m NW	Pond	1932	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
C	46m NW	Pond	1916	1:10560
C	46m NW	Pond	1905	1:10560
C	46m NW	Pond	1923	1:10560
D	97m N	Unspecified Wharf	1923	1:10560
D	117m N	Unspecified Ground Workings	1905	1:10560
4	122m S	Quay	1851	1:10560
D	125m N	Unspecified Ground Workings	1956	1:10560
D	132m N	Unspecified Ground Workings	1988	1:10000
D	138m NE	Unspecified Ground Workings	1923	1:10560
5	141m N	Canal	1923	1:10560
6	141m N	Canal	1905	1:10560
7	143m SW	Unspecified Heap	1851	1:10560
8	143m N	Canal	1896	1:10560
D	145m NE	Unspecified Ground Workings	1938	1:10560
D	145m NE	Unspecified Ground Workings	1932	1:10560
D	148m NE	Unspecified Ground Workings	1916	1:10560
E	156m SE	Unspecified Wharves	1938	1:10560
E	156m SE	Unspecified Wharves	1932	1:10560
E	156m SE	Unspecified Wharves	1916	1:10560
E	156m SE	Unspecified Wharves	1905	1:10560
9	189m NE	Unspecified Wharf	1916	1:10560
F	213m S	Canal	1971	1:10000
F	213m S	Canal	1978	1:10000
F	213m S	Canal	1985	1:10000
F	213m S	Canal	1994	1:10000
G	213m S	Canal	1956	1:10560
G	214m S	Canal	1988	1:10000
H	217m S	Canal	1896	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
H	219m S	Canal	1938	1:10560
H	219m S	Canal	1932	1:10560
H	219m S	Canal	1916	1:10560
H	219m S	Canal	1905	1:10560
H	219m S	Canal	1923	1:10560
10	237m SE	Timber Wharf	1851	1:10560
11	243m SE	Quay	1851	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

5

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining, ground workings and natural cavities map on **page 164**

ID	Location	Land Use	Year of mapping	Mapping scale
-	975m W	Tunnel	1923	1:10560
-	976m W	Tunnel	1938	1:10560
-	976m W	Tunnel	1932	1:10560
-	976m W	Tunnel	1916	1:10560
-	976m W	Tunnel	1905	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.



18.6 Non-coal mining

Records within 1000m

0

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

1

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

Features are displayed on the Mining, ground workings and natural cavities map on **page 164**

ID	Location	Mine Address	Mineral	Data source	Publisher
23	533m SW	Wodens Cave, Manchester, Greater Manchester	Firestone, Freestone, Hearthstone , Honestone, Ragstone, Sandstone, Scythestone , Silver Sand, Whetstone	'Underground Manchester - Secrets of the city revealed'	Willow Publishing

This data is sourced from Peter Brett Associates (PBA).

18.8 JPB mining areas

Records on site

1

Areas which could be affected by former coal mining. This data includes some mine plans unavailable to the Coal Authority.

Location	Details
On site	In addition to being located inside an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property which may supplement this information. Further details and a quote for services can be obtained by emailing this report to enquiries.gs@jpb.co.uk.

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	1
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Areas which could be affected by past, current or future coal mining.

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0
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The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site	0
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
-----------------	---

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

18.13 Clay mining

Records on site	0
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Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Radon



— Site Outline
 Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

19.1 Radon

Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 171**

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None**

This data is sourced from the British Geological Survey and Public Health England.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

3

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
24m NW	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

14

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	18	3.2	161	111	0.3	62	36	22	19
On site	19	3.3	140	96	0.2	64	36	24	21
On site	19	3.3	36	25	0.3	65	24	24	4
On site	19	3.3	126	87	0.2	63	36	23	19



Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	20	3.5	292	201	0.3	66	35	25	12
On site	20	3.5	37	25	0.3	66	27	25	5
On site	20	3.5	35	24	0.3	67	25	25	4
On site	20	3.5	267	183	0.3	68	35	26	12
On site	21	3.7	256	176	0.3	62	36	25	14
19m N	20	3.5	40	27	0.3	61	28	24	5
29m E	20	3.5	41	28	0.4	63	19	25	5
39m SW	16	2.8	77	53	0.2	58	37	20	13
39m W	19	3.3	87	60	0.2	72	37	22	14
46m NE	22	3.8	38	26	0.3	62	21	26	4

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

1

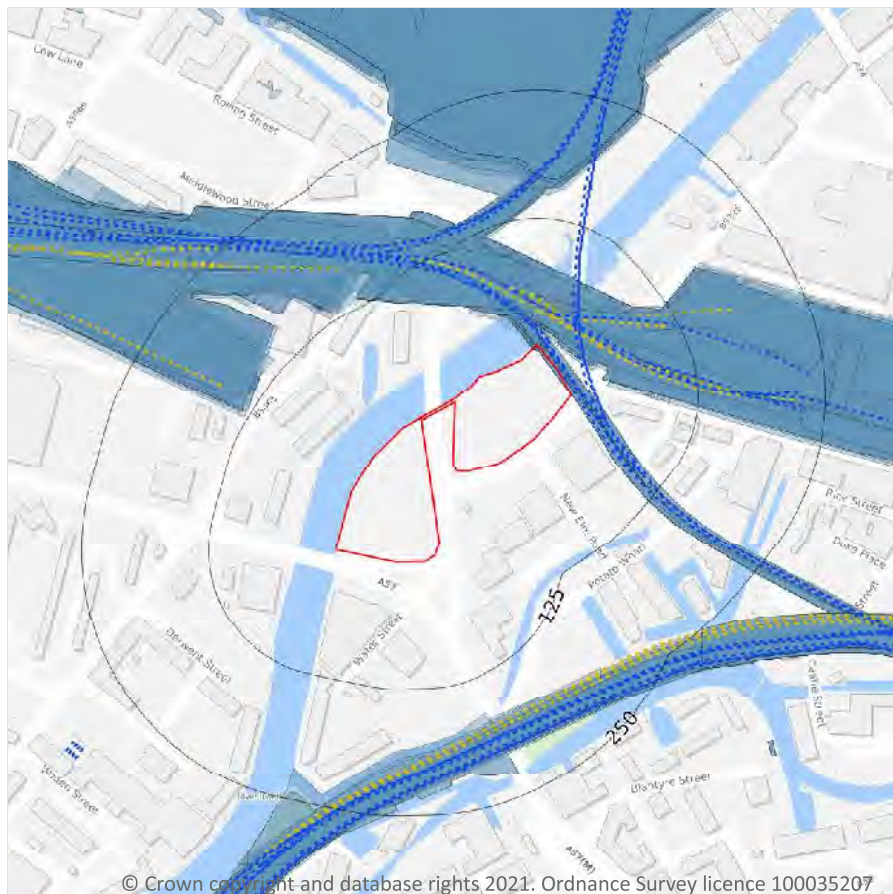
The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

Location	Arsenic (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Lead (mg/kg)	Tin (mg/kg)	Sample Type
25m E	20.0	1.0	68.1	150.4	25.6	232.7	16.7	Topsoil

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 1 Worksites
- Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

21.1 Underground railways (London)

Records within 250m

0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.



This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

96

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on **page 174**

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1893	2500
On site	Railway Sidings	1908	2500
On site	Railway Sidings	1922	2500
On site	Railway Sidings	1932	2500
On site	Railway	1889	-
On site	Railway	1908	-
On site	Railway Sidings	1971	10000
On site	Railway Sidings	1956	10560
On site	Railway Sidings	1978	10000
On site	Railway Sidings	1985	10000
1m NE	Railway	1932	-
2m NE	Railway	1922	-
13m NE	Railway Sidings	1923	10560
16m NE	Railway Sidings	1938	10560
16m NE	Railway Sidings	1932	10560
16m NE	Railway Sidings	1905	10560
17m NE	Railway Sidings	1916	10560



Location	Land Use	Year of mapping	Mapping scale
20m NE	Railway Sidings	1988	10000
20m NE	Railway Sidings	1994	10000
20m NE	Railway Sidings	1896	10560
24m NW	Railway Sidings	1963	2500
24m NW	Railway Sidings	1949	2500
26m NE	Railway Sidings	1949	1250
47m N	Railway Sidings	1851	10560
57m NE	Railway Sidings	1978	1250
62m N	Railway Sidings	1953	1250
70m NE	Railway Sidings	1851	10560
71m NW	Railway Sidings	1953	1250
108m E	Railway Sidings	1891	500
117m SE	Railways	1893	-
121m NW	Railway Sidings	1955	2500
128m E	Railway Sidings	1986	1250
128m E	Railway Sidings	1955	-
128m E	Railway Sidings	1948	1250
128m E	Railway Sidings	1963	1250
128m E	Railway Sidings	1979	1250
128m E	Railway Sidings	1981	1250
128m E	Railway Sidings	1995	1250
129m E	Railway Sidings	1948	2500
129m E	Railway Sidings	1979	2500
129m E	Railway Sidings	1995	1250
129m E	Railway Sidings	1994	1250
129m E	Railway Sidings	1990	1250
139m NE	Railway Sidings	1995	1250
140m NE	Railway Sidings	1995	1250



Location	Land Use	Year of mapping	Mapping scale
145m NW	Railway Sidings	1953	1250
147m N	Railway Sidings	1923	10560
151m NW	Railway Sidings	1980	1250
151m NW	Railway Sidings	1949	1250
151m NW	Railway Sidings	1980	1250
151m NW	Railway Sidings	1949	1250
152m NW	Railway Sidings	1980	1250
152m NW	Railway Sidings	1949	1250
153m NW	Railway Sidings	1978	1250
153m NW	Railway Sidings	1980	1250
153m NW	Railway Sidings	1949	1250
157m NW	Railway Sidings	1949	1250
159m N	Railway Sidings	1896	10560
159m N	Railway Sidings	1922	-
160m N	Railway Sidings	1932	-
161m N	Railway Sidings	1963	2500
161m S	Railways	1893	-
161m N	Railway Sidings	1970	2500
161m N	Railway Sidings	1948	1250
161m N	Railway Sidings	1953	1250
162m N	Railway Sidings	1949	2500
164m N	Railway Sidings	1971	10000
164m N	Railway Sidings	1956	10560
164m N	Railway Sidings	1978	10000
166m N	Railway Sidings	1922	-
166m N	Railway	1889	-
168m N	Railway Sidings	1932	-
171m SE	Railway	1908	-

Location	Land Use	Year of mapping	Mapping scale
181m SE	Railway	1889	-
182m NW	Railway Sidings	1988	10000
182m NW	Railway Sidings	1994	10000
188m NW	Railway Sidings	1980	1250
188m NW	Railway Sidings	1995	1250
188m NW	Railway Sidings	1994	1250
188m NW	Railway Sidings	1993	1250
188m NW	Railway Sidings	1997	1250
188m NW	Railway Sidings	1978	1250
188m NW	Railway Sidings	1990	1250
188m NW	Railway Sidings	1992	1250
189m NW	Railway Sidings	1948	1250
189m NW	Railway Sidings	1960	1250
189m NW	Railway Sidings	1977	1250
189m NW	Railway Sidings	1982	1250
189m NW	Railway Sidings	1952	1250
191m S	Railways	1948	-
194m NW	Railway Sidings	1891	500
227m E	Railway Sidings	1956	10560
236m NW	Railway Sidings	1970	2500
236m NW	Railway Sidings	1963	2500
244m NW	Railway Sidings	1851	10560
245m N	Railway	1949	-

This data is sourced from Ordnance Survey/Groundsure.



21.5 Royal Mail tunnels

Records within 250m**0**

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m**23**

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

Features are displayed on the Railway infrastructure and projects map on **page 174**

Location	Description
30m NE	Abandoned
31m N	Abandoned
32m NE	Disused
34m NE	Abandoned
36m NE	Disused
40m NE	Disused
48m NE	Disused
50m NE	Disused
53m NE	Disused
56m NE	Disused
64m NE	Disused
66m NE	Disused
77m NE	Disused
82m NE	Abandoned
96m NE	Abandoned
109m NE	Abandoned

Location	Description
119m NE	Abandoned
165m NW	Abandoned
168m NW	Disused
175m SE	Abandoned
180m SE	Abandoned
183m SE	Abandoned
232m NW	Disused

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

78

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways. Features are displayed on the Railway infrastructure and projects map on **page 174**

Location	Name	Type
3m NE		rail
6m NE	Not given	Multi Track
7m NE		rail
7m NE		rail
11m NE		rail
18m E	Ordsall Chord	rail
22m E	Ordsall Chord	rail
22m E	Ordsall Chord	rail
23m E	Not given	Multi Track
25m E	Ordsall Chord	rail
34m NE	Liverpool & Manchester Railway	Preserved
35m NE	Liverpool & Manchester Railway	Preserved
35m NE	Liverpool & Manchester Railway	Preserved
36m NE	Liverpool & Manchester Railway	Preserved



Location	Name	Type
48m NE	Liverpool & Manchester Railway	Preserved
51m NW		rail
53m NW		rail
57m N	Liverpool & Manchester Railway	Preserved
57m NE	Liverpool & Manchester Railway	Preserved
60m NE	Liverpool & Manchester Railway	Preserved
66m NE	Liverpool & Manchester Railway	Preserved
69m NE	Liverpool & Manchester Railway	Preserved
73m NW		rail
74m NW		rail
75m NW	Liverpool & Manchester Railway	Preserved
79m NE	Liverpool & Manchester Railway	Preserved
88m NE	Not given	Preserved
101m N		rail
103m N		rail
104m SE		rail
107m NW	Liverpool & Manchester Railway	Preserved
113m SE		rail
117m NE	Liverpool & Manchester Railway	Preserved
134m NW	Middlewood Viaduct	rail
134m NW		rail
136m NW		rail
138m NW	Middlewood Viaduct	rail
138m NW		rail
140m NW	Not given	Multi Track
140m NW		rail
140m E	Liverpool & Manchester Railway	Preserved
143m N	Not given	Multi Track



Location	Name	Type
146m NW		rail
147m NW		rail
150m NW		rail
153m NW	Not given	Multi Track
153m N		rail
153m NW		rail
156m N		rail
158m NW		rail
159m NW		rail
160m NW		rail
161m NW		rail
162m NW	Not given	Multi Track
167m N		rail
170m N		rail
172m E	Liverpool & Manchester Railway	Preserved
175m E	Not given	Preserved
187m SE		light_rail
188m SE	Not given	Multi Track
190m SE		light_rail
192m SE	Not given	Multi Track
197m SE		rail
200m SE	Not given	Multi Track
200m SE		rail
203m NW		rail
206m NW		rail
208m NW	Manchester to Preston Line	rail
208m NW	Liverpool to Manchester Line	rail
218m NW	Liverpool to Manchester Line	rail



Location	Name	Type
218m NW	Manchester to Preston Line	rail
223m SE		rail
226m E	Liverpool & Manchester Railway	Preserved
239m N	Ordsall Chord	rail
239m NW	Not given	Multi Track
240m N	Ordsall Chord	rail
242m S	Not given	Multi Track
244m SE	Not given	Multi Track

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.



Data providers

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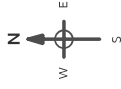
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Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: 1056 Scale Town Plan

Map date: 1851

Scale: 1:1,056

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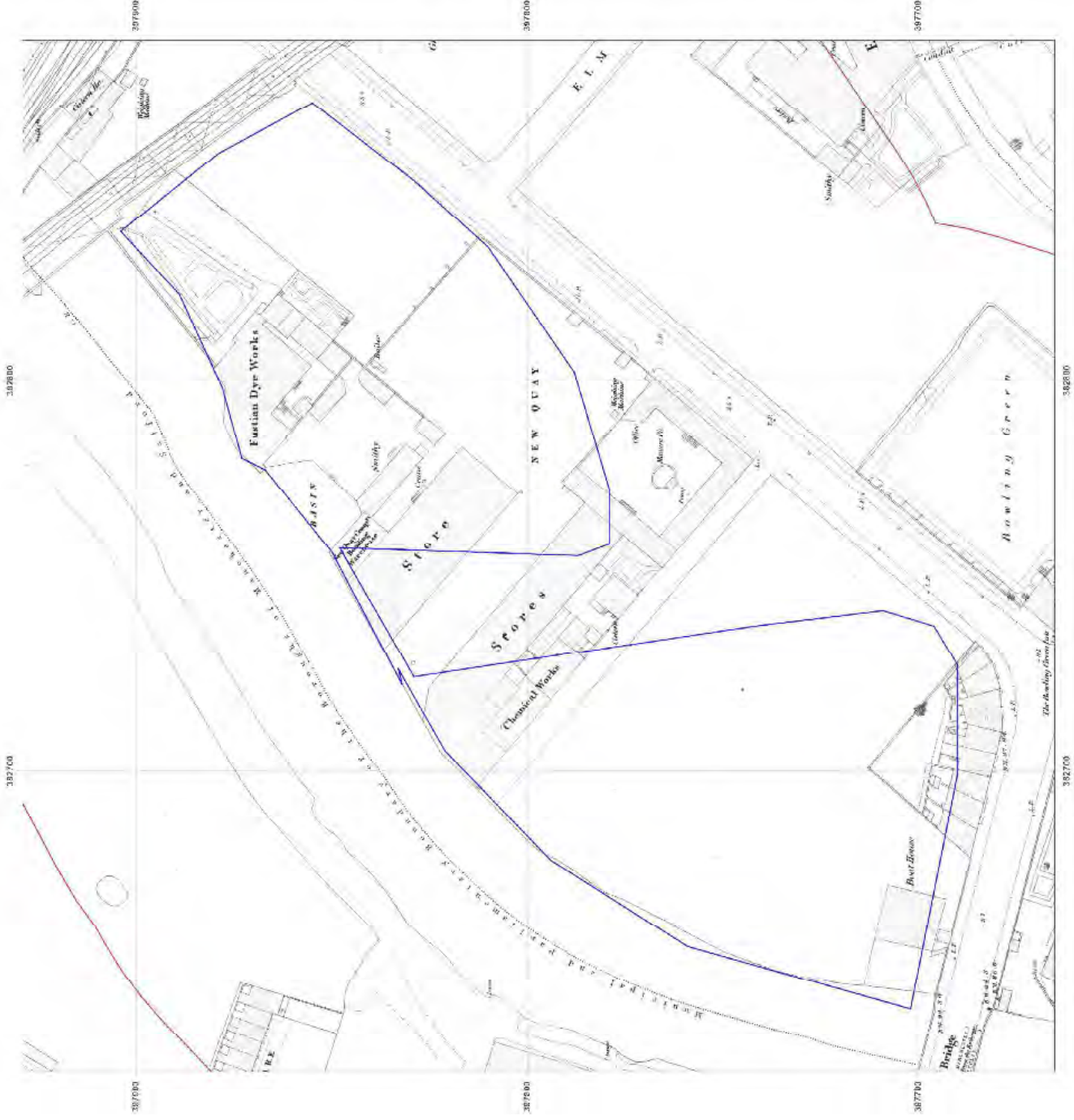


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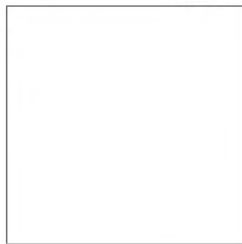
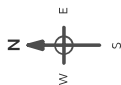
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Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: County Series

Map date: 1893

Scale: 1:2,500

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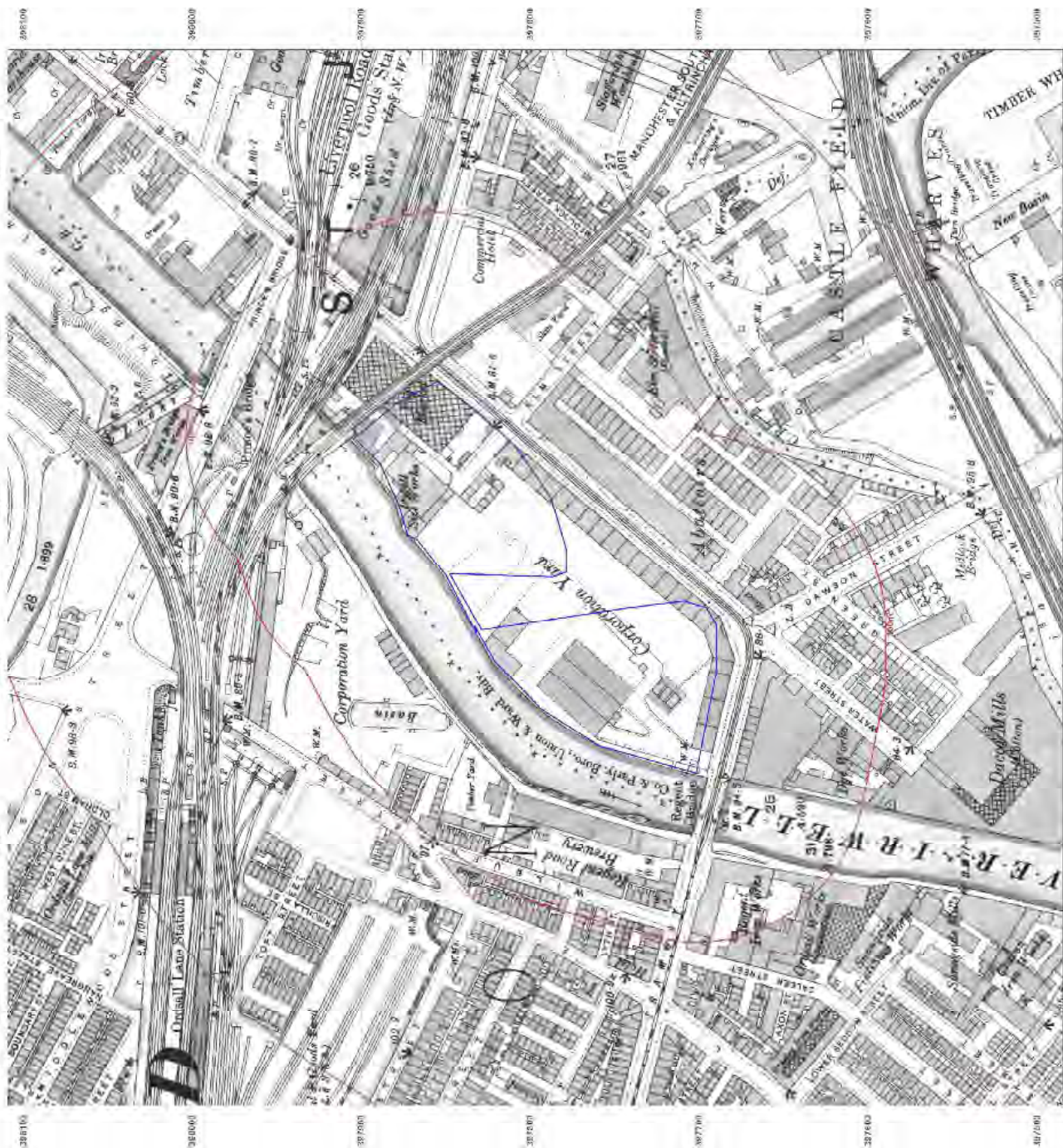


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Client Ref: Trinity Islands_Po_20124801____
Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: County Series

Map date: 1908

Scale: 1:2,500

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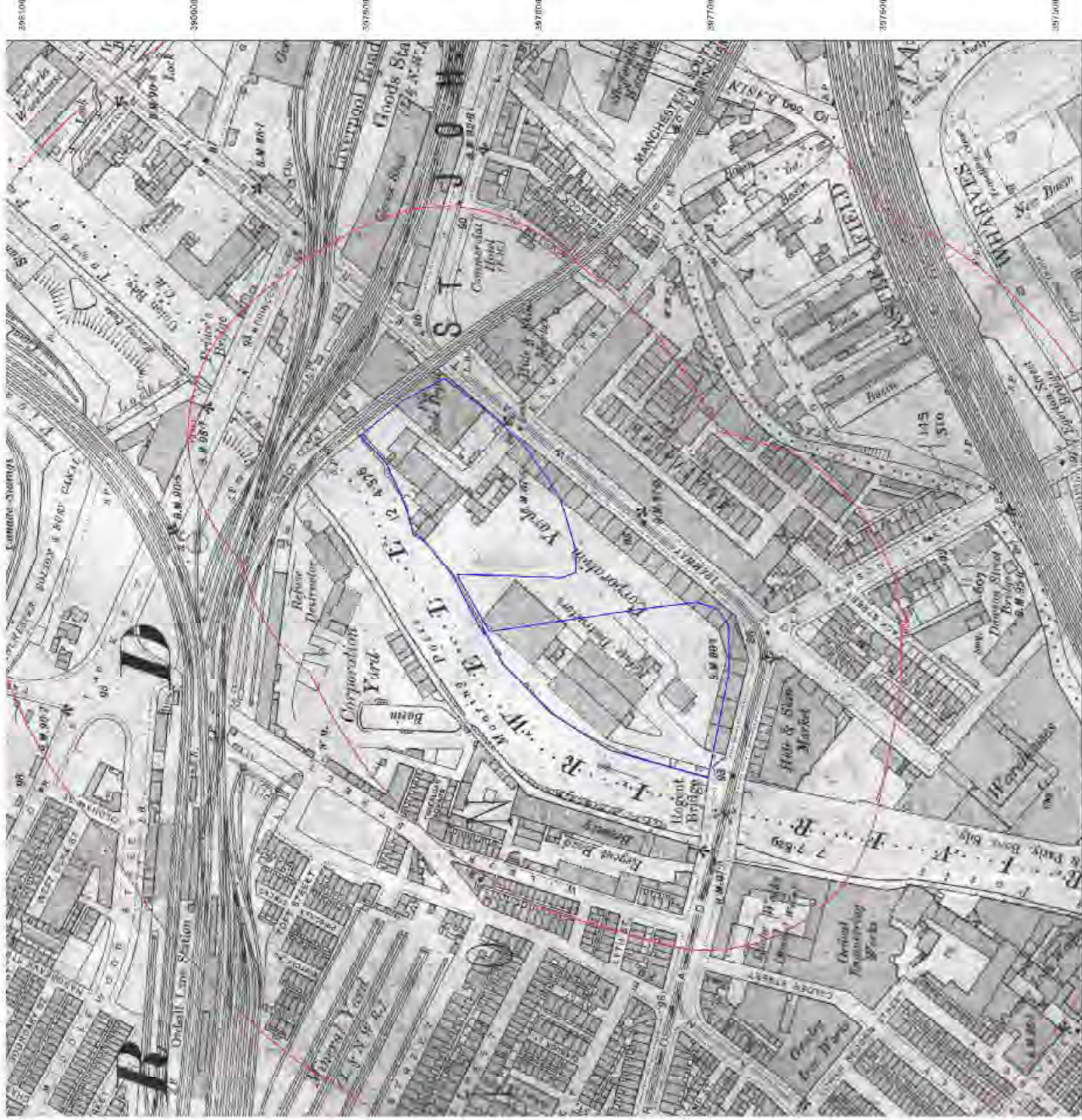


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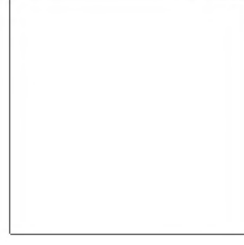
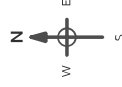
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Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: County Series

Map date: 1922

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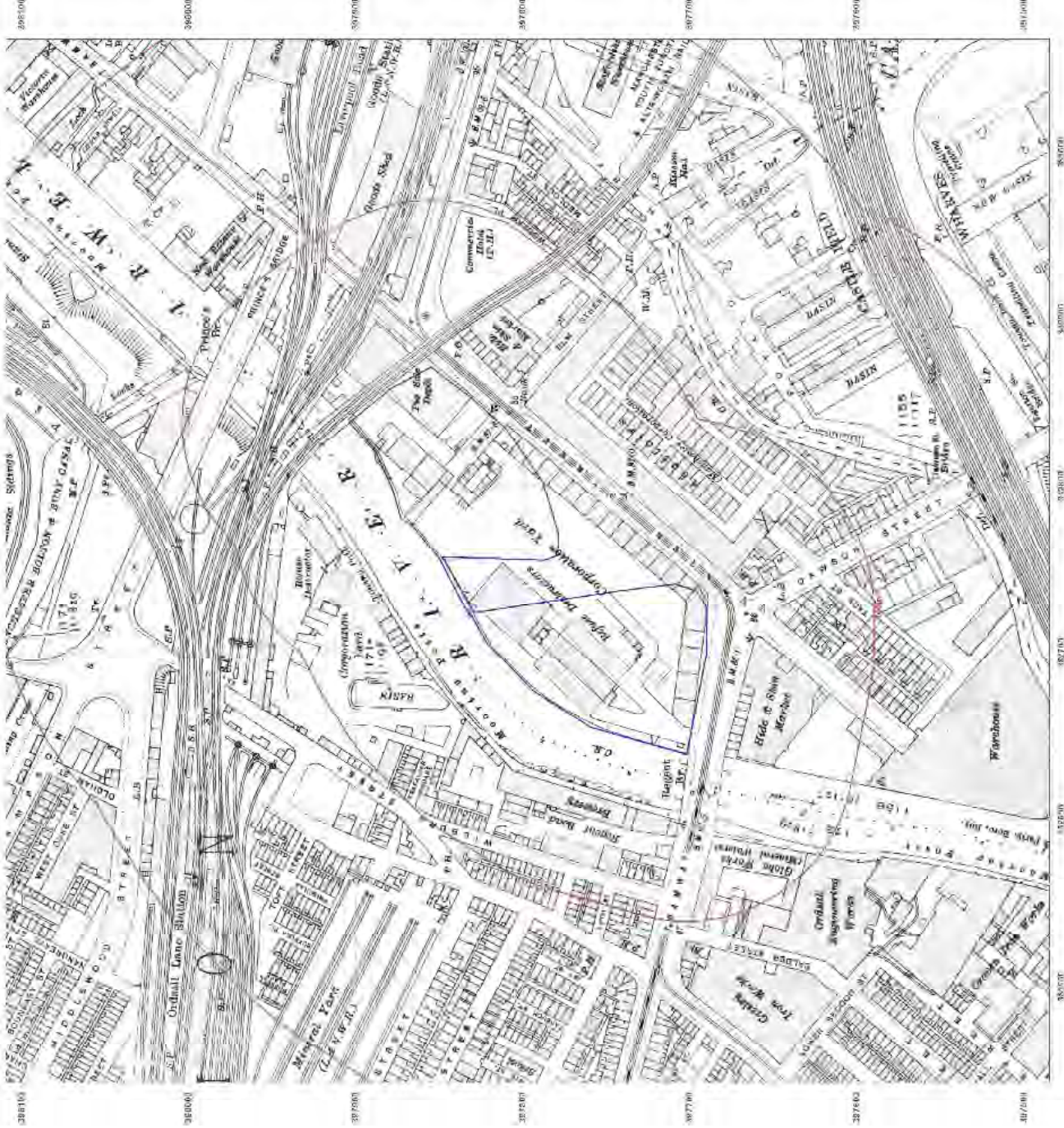


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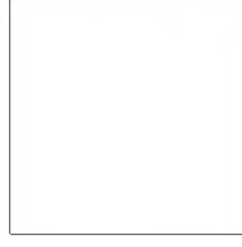
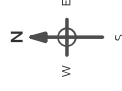
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Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: County Series

Map date: 1932

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Revised 1977

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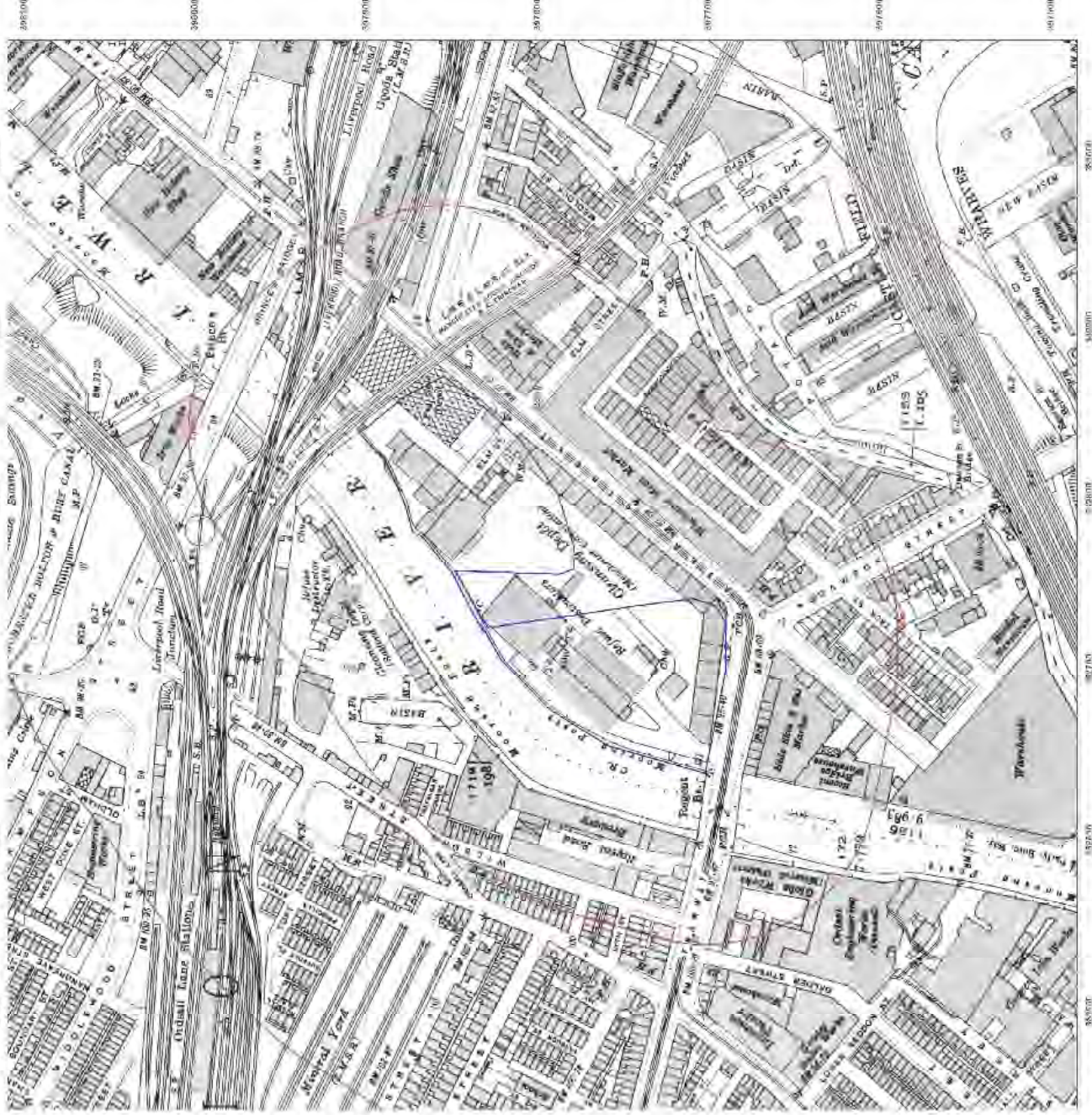


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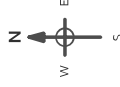
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Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: National Grid

Map date: 1948-1949

Scale: 1:1,250

Printed at: 1:2,000



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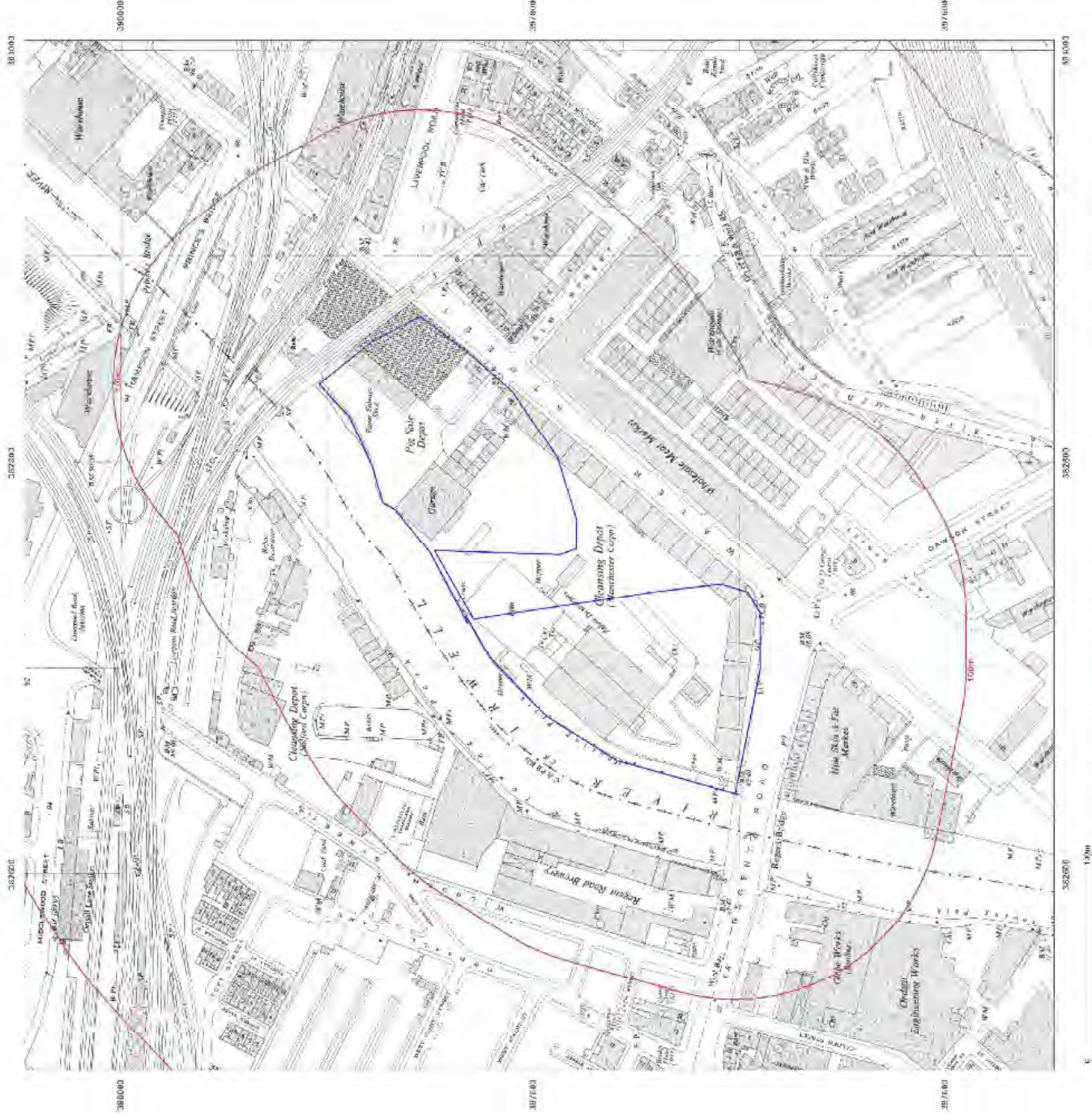


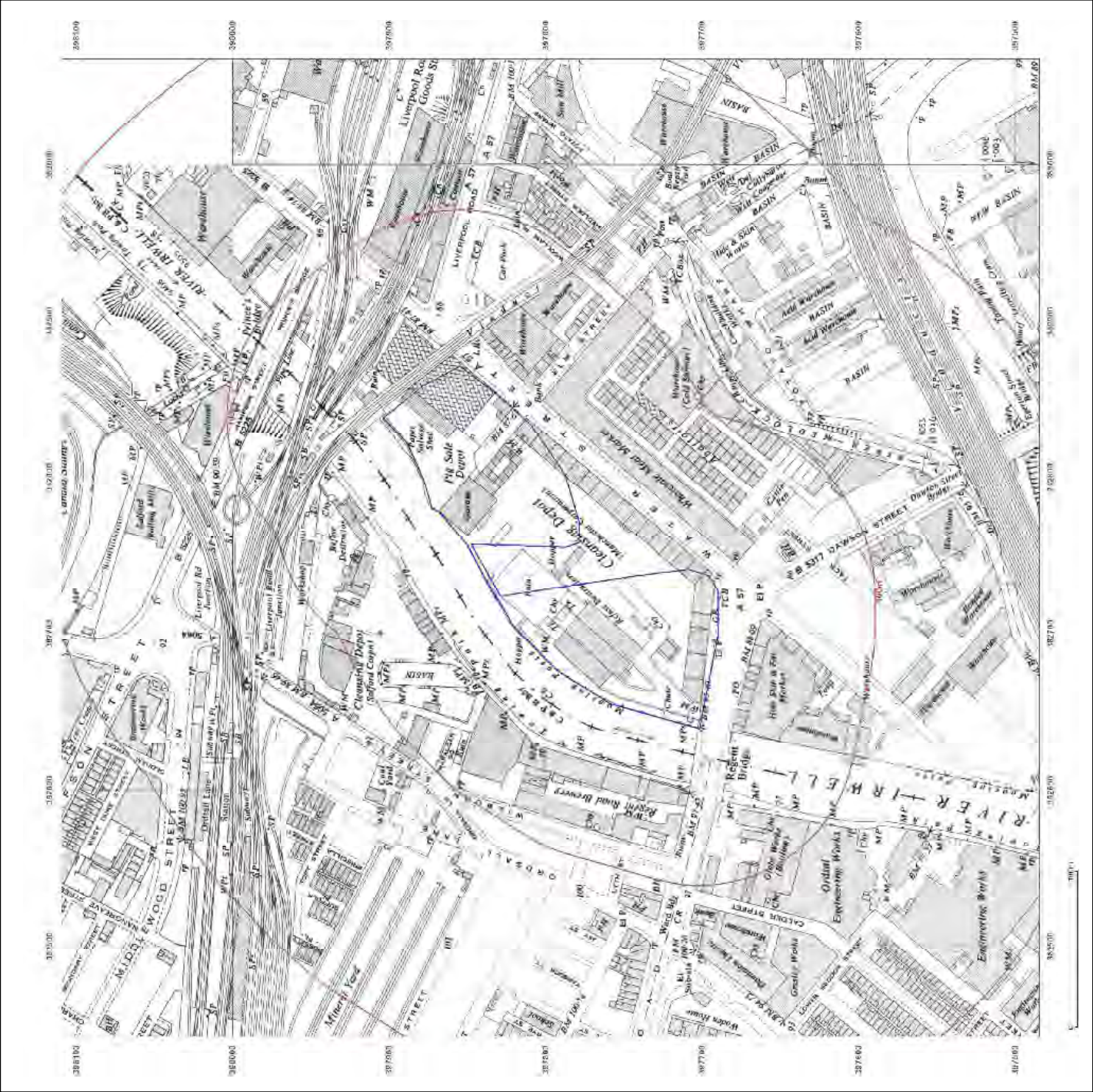
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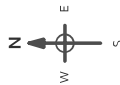




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Client Ref: Trinity_Islands__Po_20124801__
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Grid Ref: 382755, 397797

Map Name: National Grid



Map date: 1948-1949

Scale: 1:2,500

Printed at: 1:2,500

Surveyed 1949
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Edition N/A
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Survived 1949	Survived 1948
Revised 1949	Revised 1948
Edition N/A	Edition N/A
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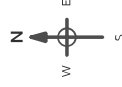
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Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: National Grid

Map date: 1953-1957

Scale: 1:1,250

Printed at: 1:2,000



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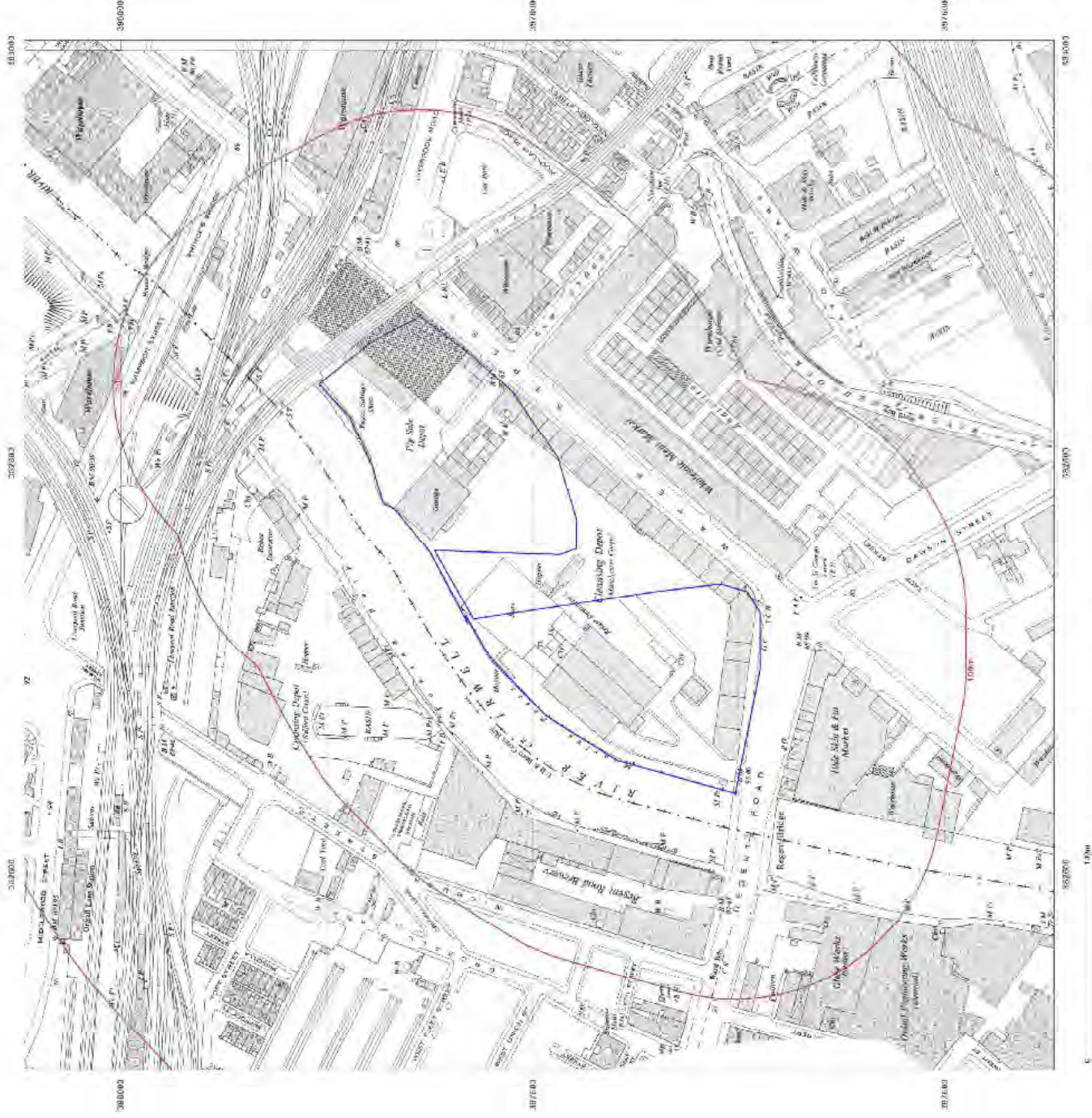


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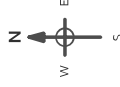
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Map Name: National Grid

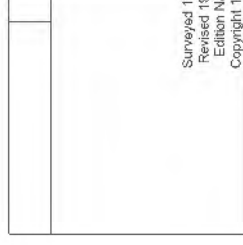
Map date: 1958-1963

Scale: 1:2,500

Printed at: 1:2,500



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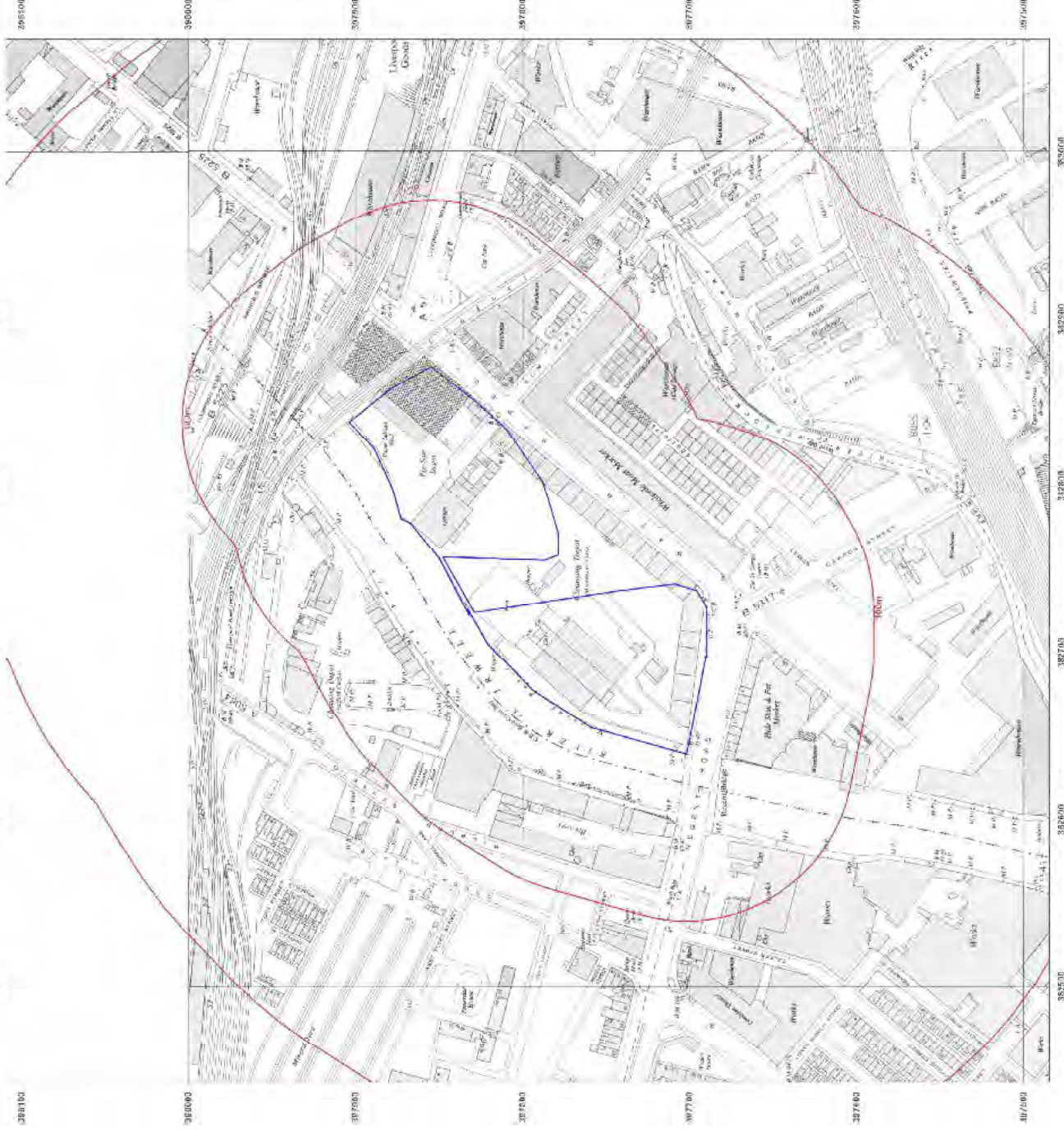


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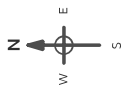
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Report Ref: WSP-7671629
Grid Ref: 382755, 397797

Map Name: National Grid

Map date: 1978-1983

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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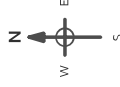
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Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: National Grid

Map date: 1990-1992

Scale: 1:1,250

Printed at: 1:2,000



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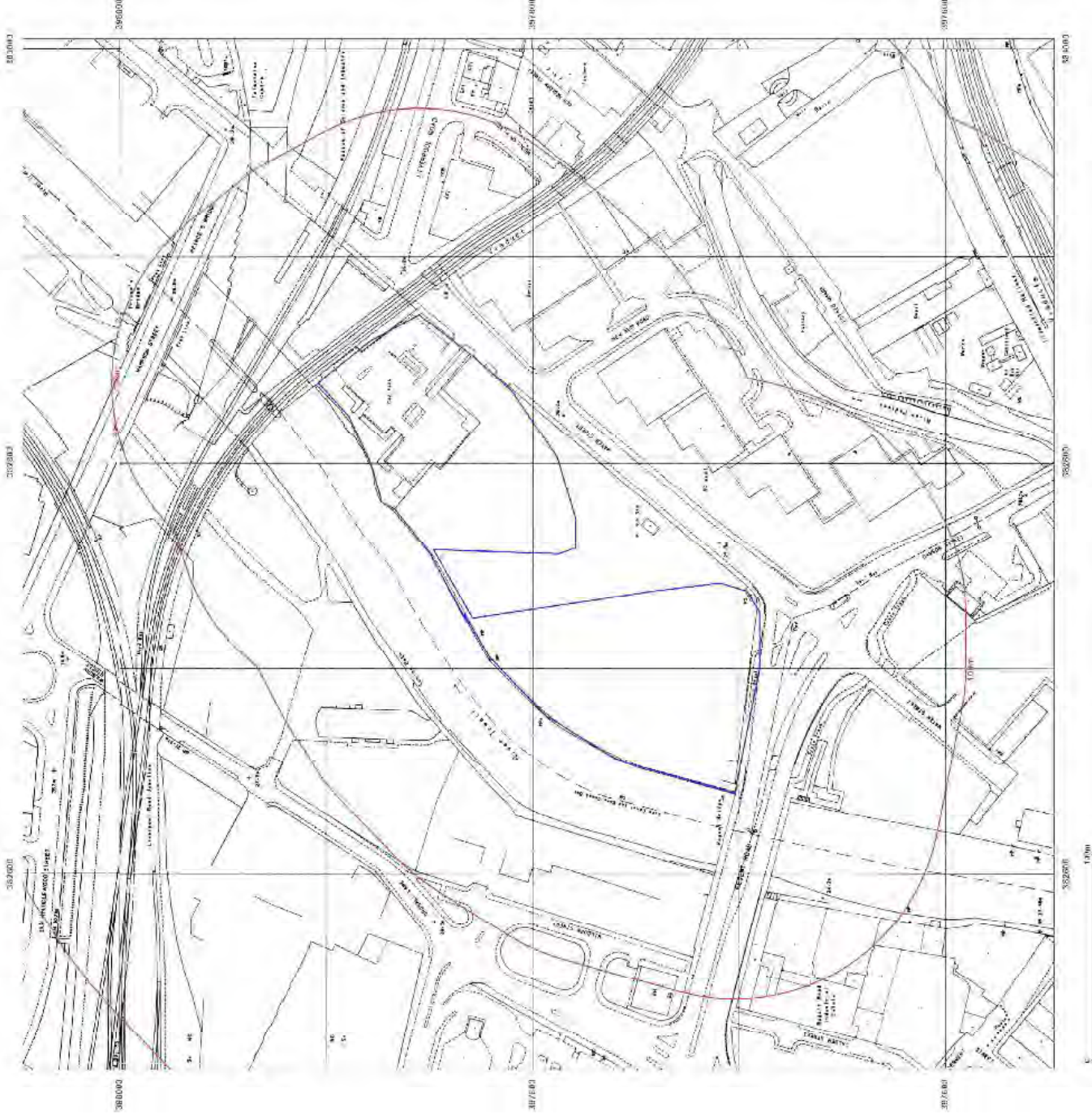


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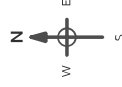
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Grid Ref: 382755; 397797

Map Name: National Grid

Map date: 1990-1994

Scale: 1:1,250

Printed at: 1:2,000



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





Site Details:

LAND A JUNCTION OF WATER
STREET AND NEW ELM ROAD,
NEW ELM ROAD,
MANCHESTER, M3 4JH

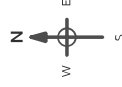
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Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: National Grid

Map date: 1994-1995

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1984
Levelled N/A

Surveyed 1985
Revised 1995
Edition N/A
Copyright 1985
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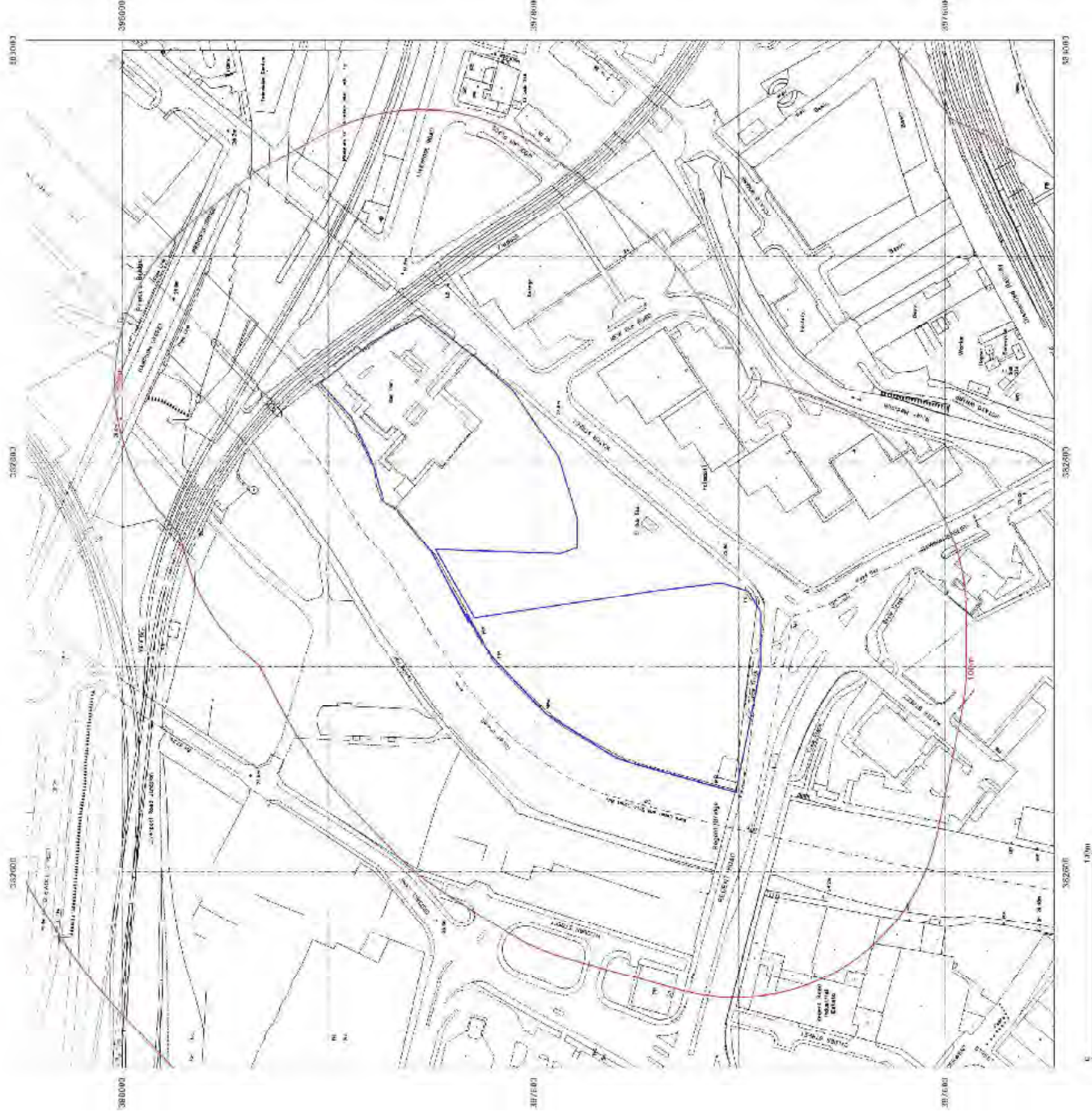


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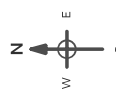
Production date: 19 March 2021

Map legend available at:

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Site Details:	LAND A JUNCTION OF WATER STREET AND NEW ELM ROAD, NEW ELM ROAD, MANCHESTER, M3 4JH
Client Ref:	Trinity_Islands_Po_20124801__
Report Ref:	WSP-7671629
Grid Ref:	382755; 397797
Map Name:	LandLine
Map date:	2003
Scale:	1:1,250
Printed at:	1:1,250
	
	

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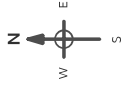
Client Ref: Trinity Islands_Po_20124801____
Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: County Series

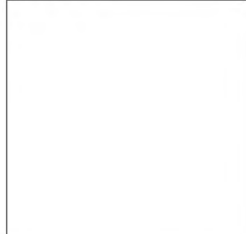
Map date: 1848

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1845
Revised N/A
Edition 1848
Copyright N/A
Levelled N/A



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MANCHESTER, M3 4JH

Client Ref: Trinity Islands_Po_20124801____
Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: County Series

Map date: 1894-1896

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1889
Revised 1889
Edition 1884
Copyright N/A
Levelled N/A

Surveyed 1894
Revised 1886
Edition 1886
Copyright N/A
Levelled N/A

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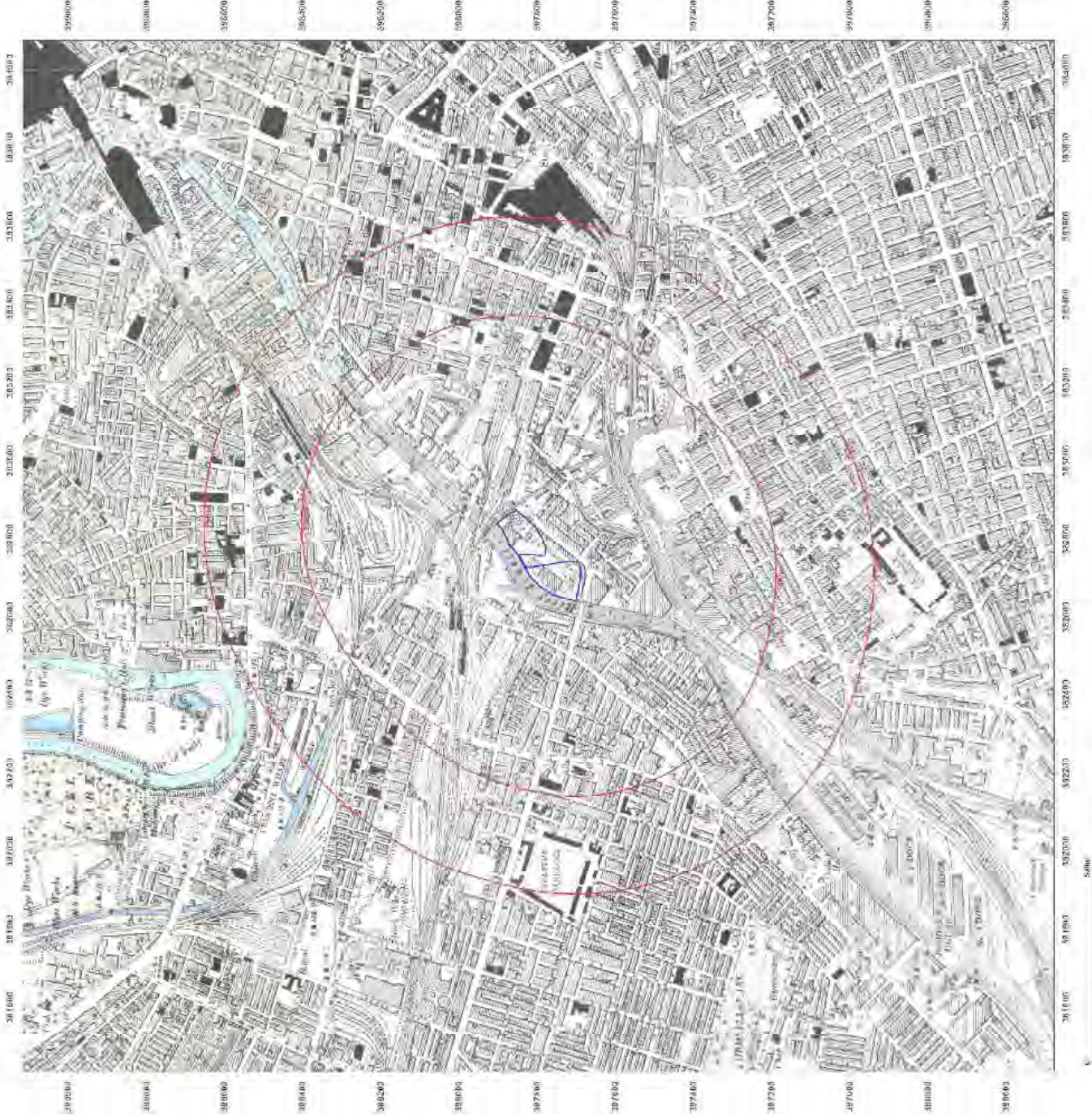


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Production date: 19 March 2021

Map legend available at:

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Site Details:

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NEW ELM ROAD,
MANCHESTER, M3 4JH

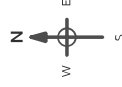
Client Ref: Trinity Islands_Po_20124801____
Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: County Series

Map date: 1905-1906

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1906
Edition 1906
Copyright N/A
Levelled N/A



Surveyed 1844
Revised 1906
Edition 1906
Copyright N/A
Levelled N/A

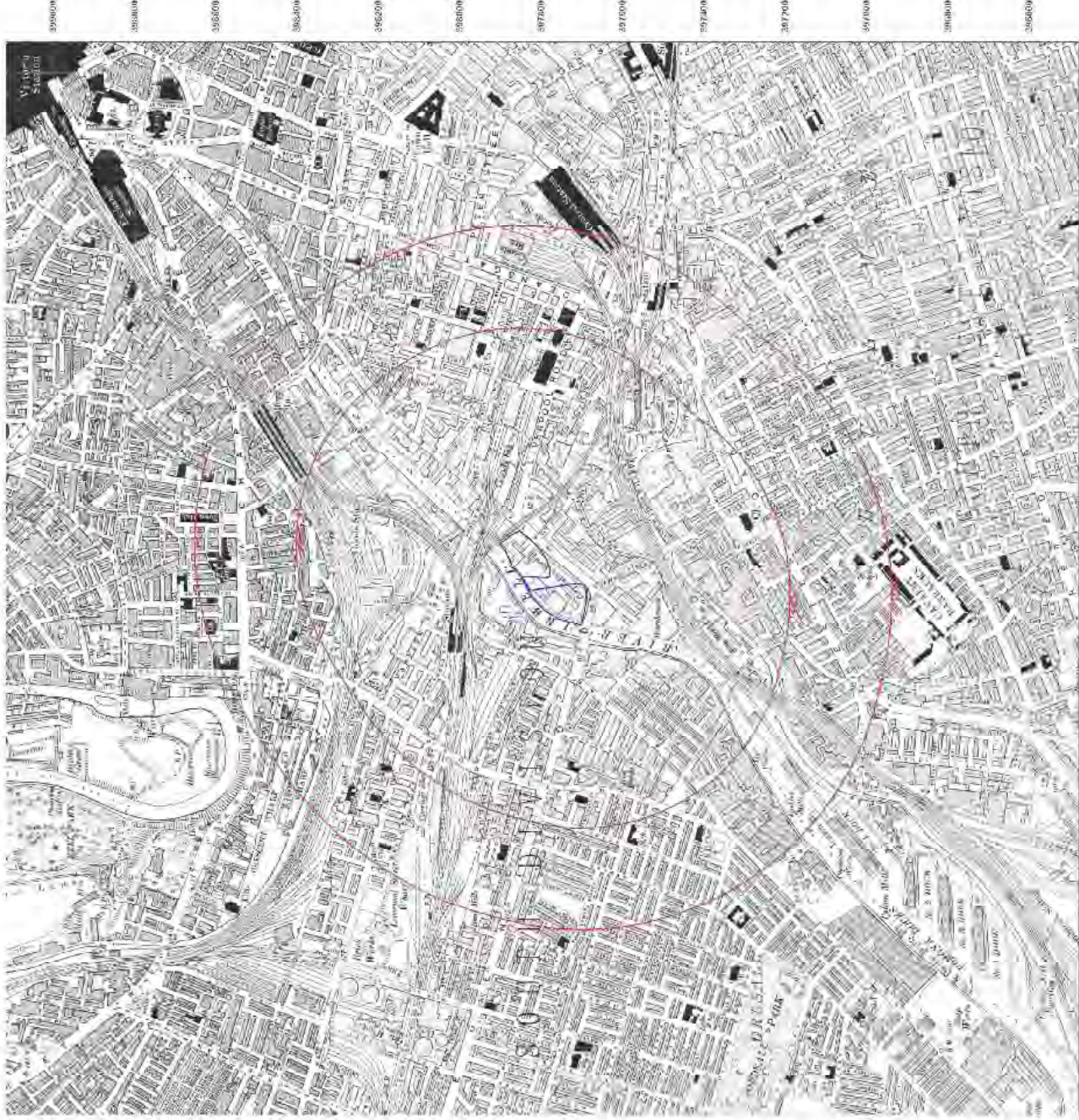
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Site Details:

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NEW ELM ROAD,
MANCHESTER, M3 4JH

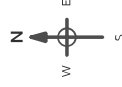
Client Ref: Trinity Islands_Po_20124801____
Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: County Series

Map date: 1923

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1916
Edition 1923
Copyright N/A
Levelled 1915



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Site Details:

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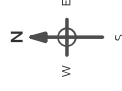
Client Ref: Trinity Islands_Po_20124801____
Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: County Series

Map date: 1931-1932

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1931
Edition 1831
Copyright N/A
Revised 1927



Surveyed 1844
Revised 1932
Edition 1932
Copyright N/A
Revised 1927

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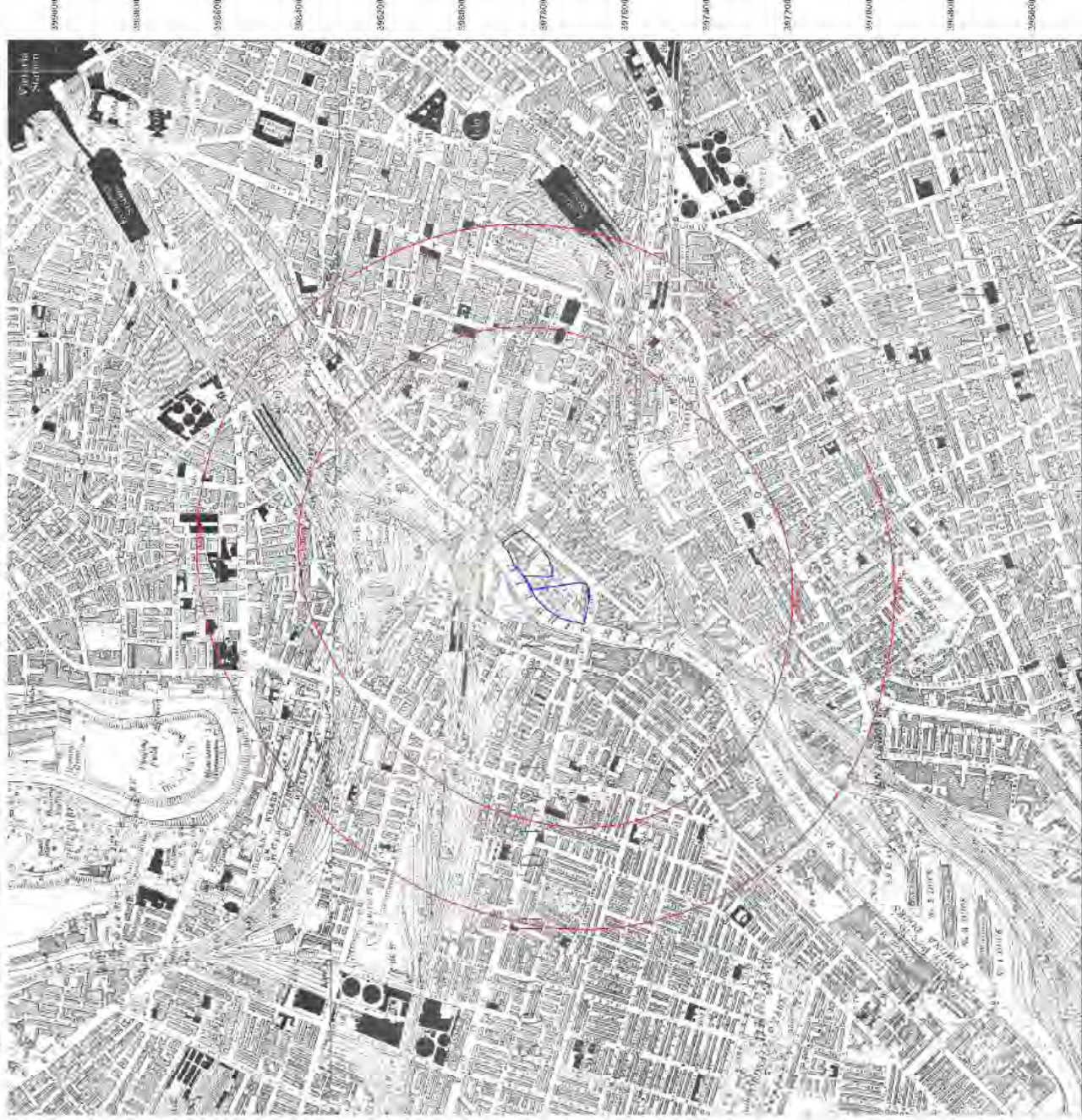


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Site Details:

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NEW ELM ROAD,
MANCHESTER, M3 4JH

Client Ref: Trinity Islands_Po_20124801____
Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1938
Edition 1938
Copyright N/A
Levelled 1927



Surveyed 1844
Revised 1938
Edition 1938
Copyright N/A
Levelled 1927

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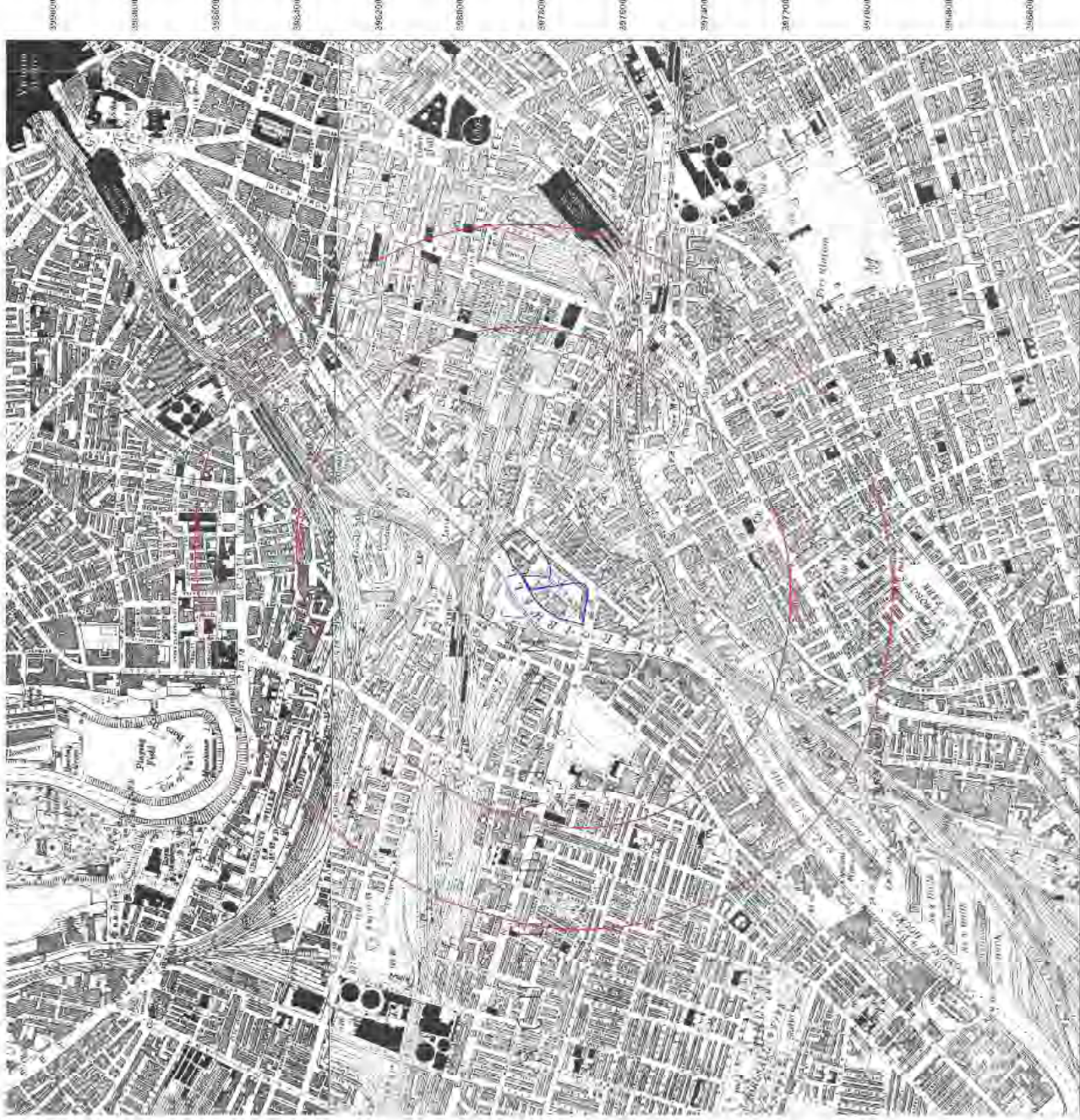


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Production date: 19 March 2021

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Site Details:

LAND A JUNCTION OF WATER STREET AND NEW ELM ROAD, NEW ELM ROAD, MANCHESTER, M3 4JH

Client Ref: Trinity Islands_Po_20124801____
Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: Provisional

Map date: 1956

Scale: 1:10,560

Printed at: 1:10,560



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

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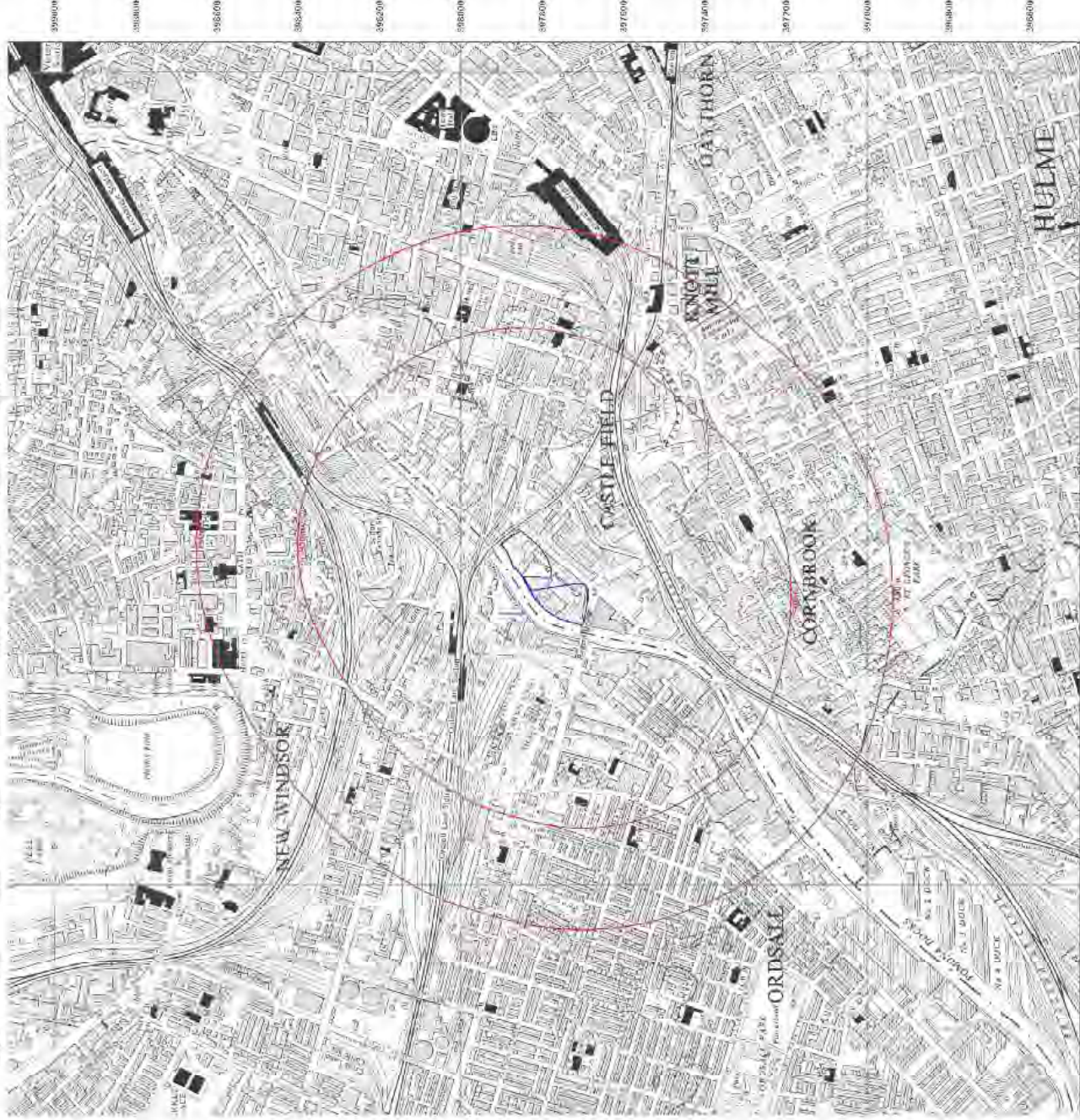


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Production date: 19 March 2021

Map legend available at:

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Site Details:

LAND A JUNCTION OF WATER
STREET AND NEW ELM ROAD,
NEW ELM ROAD,
MANCHESTER, M3 4JH

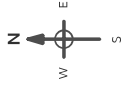
Client Ref: Trinity Islands_Po_20124801____
Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: National Grid

Map date: 1972

Scale: 1:10,000

Printed at: 1:10,000



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

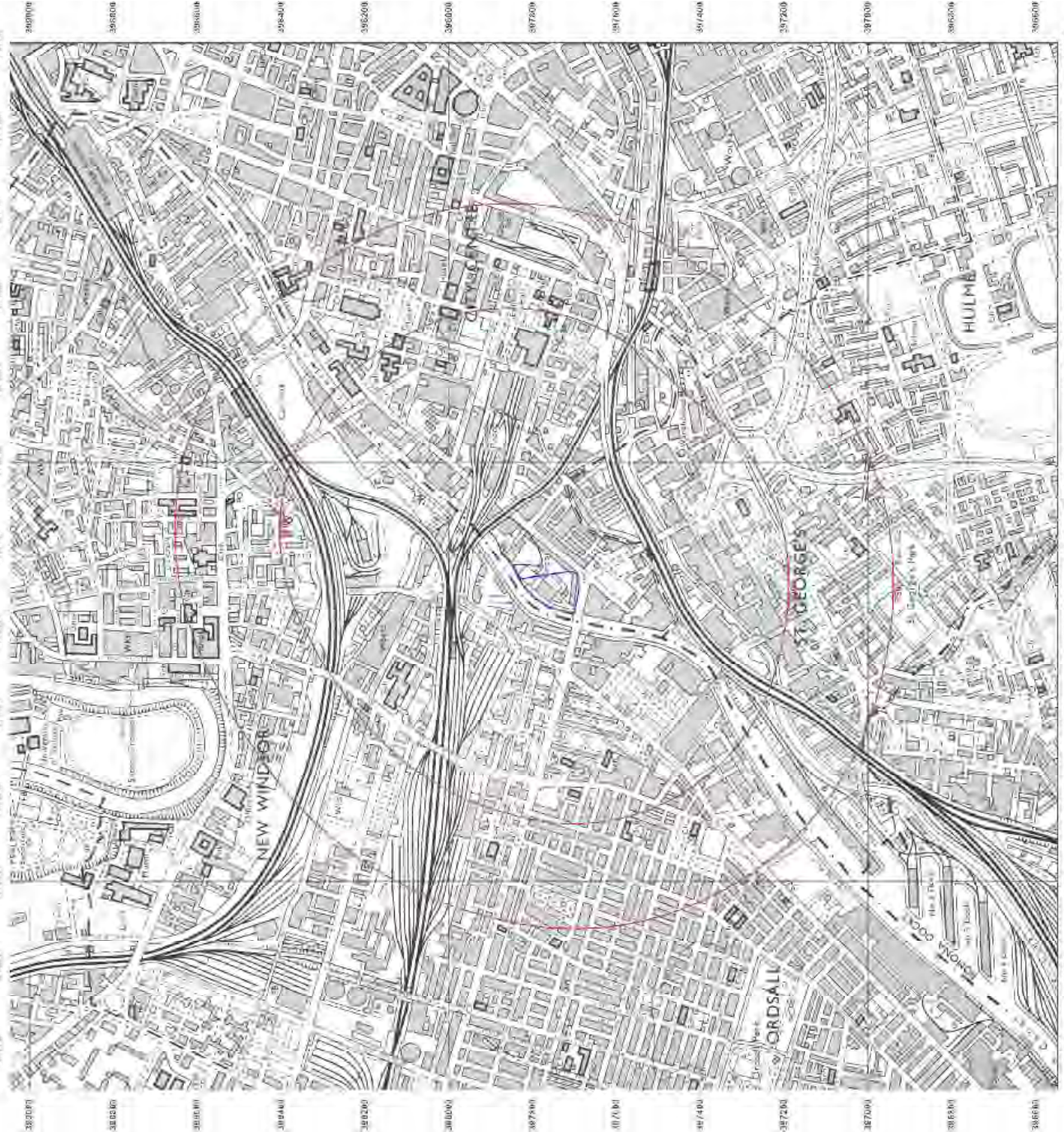
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Site Details:

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NEW ELM ROAD,
MANCHESTER, M3 4JH

Client Ref: Trinity Islands_Po_20124801____
Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: National Grid

Map date: 1980

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1978
Revised 1980
Edition N/A
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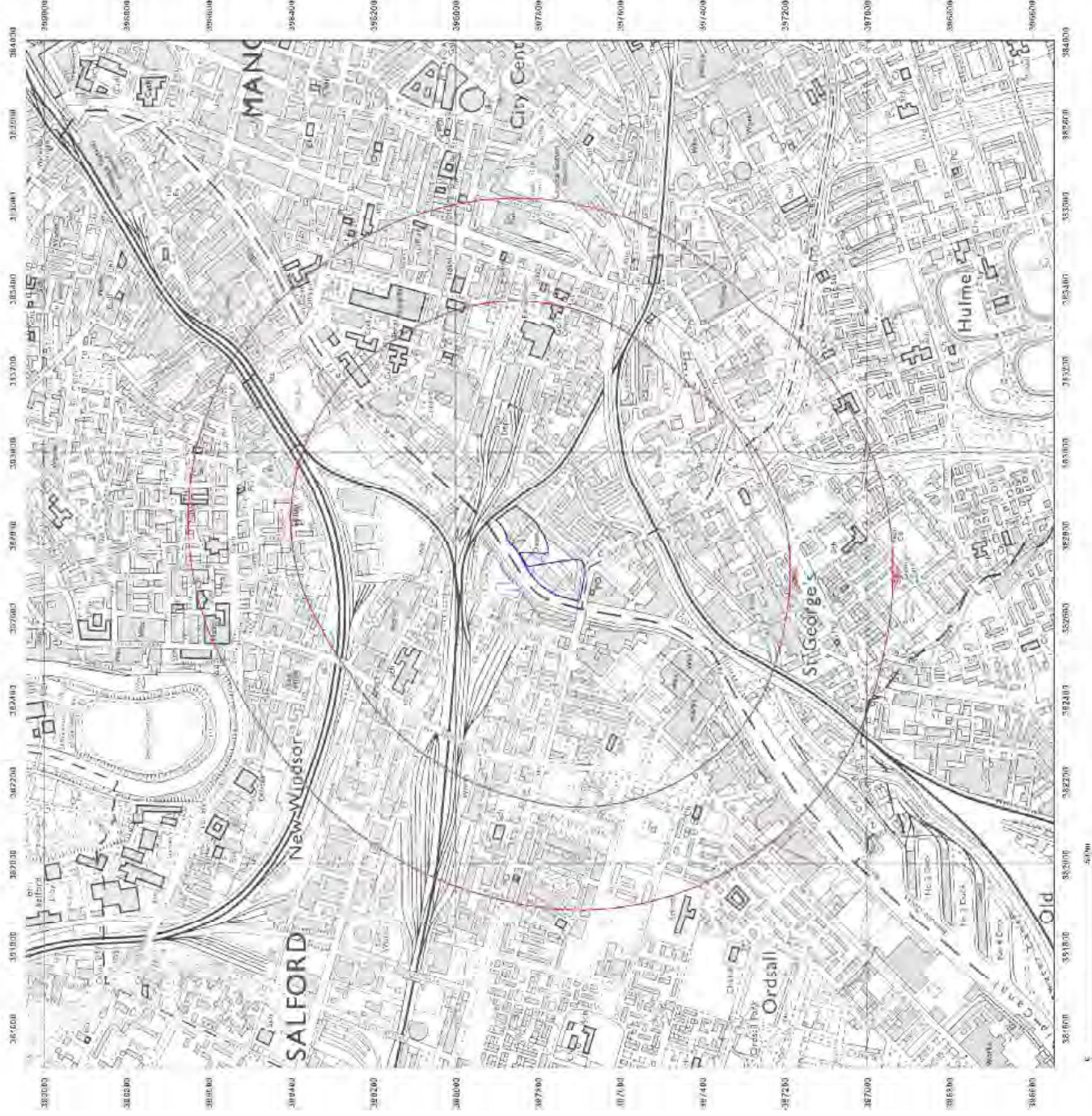


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Site Details:

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NEW ELM ROAD,
MANCHESTER, M3 4JH

Client Ref: Trinity Islands_Po_20124801____
Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: National Grid

Map date: 1985

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1983
Revised 1985
Edition N/A
Copyright 1985
Levelled 1981

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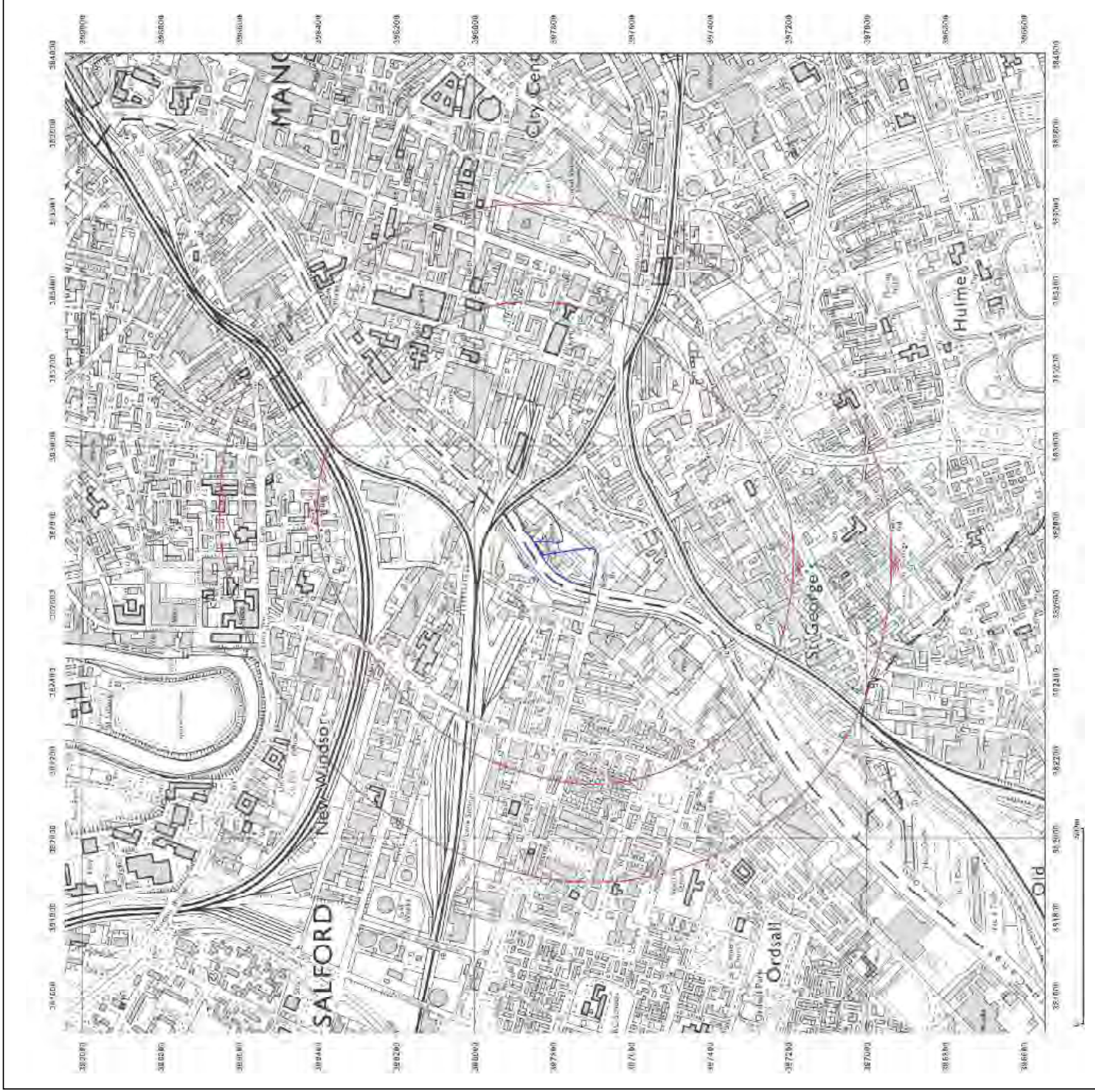


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Production date: 19 March 2021

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Site Details:

LAND A JUNCTION OF WATER
STREET AND NEW ELM ROAD,
NEW ELM ROAD,
MANCHESTER, M3 4JH

Client Ref: Trinity Islands_Po_20124801____
Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: National Grid

Map date: 1988

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1988
Revised 1988
Edition N/A
Copyright 1988
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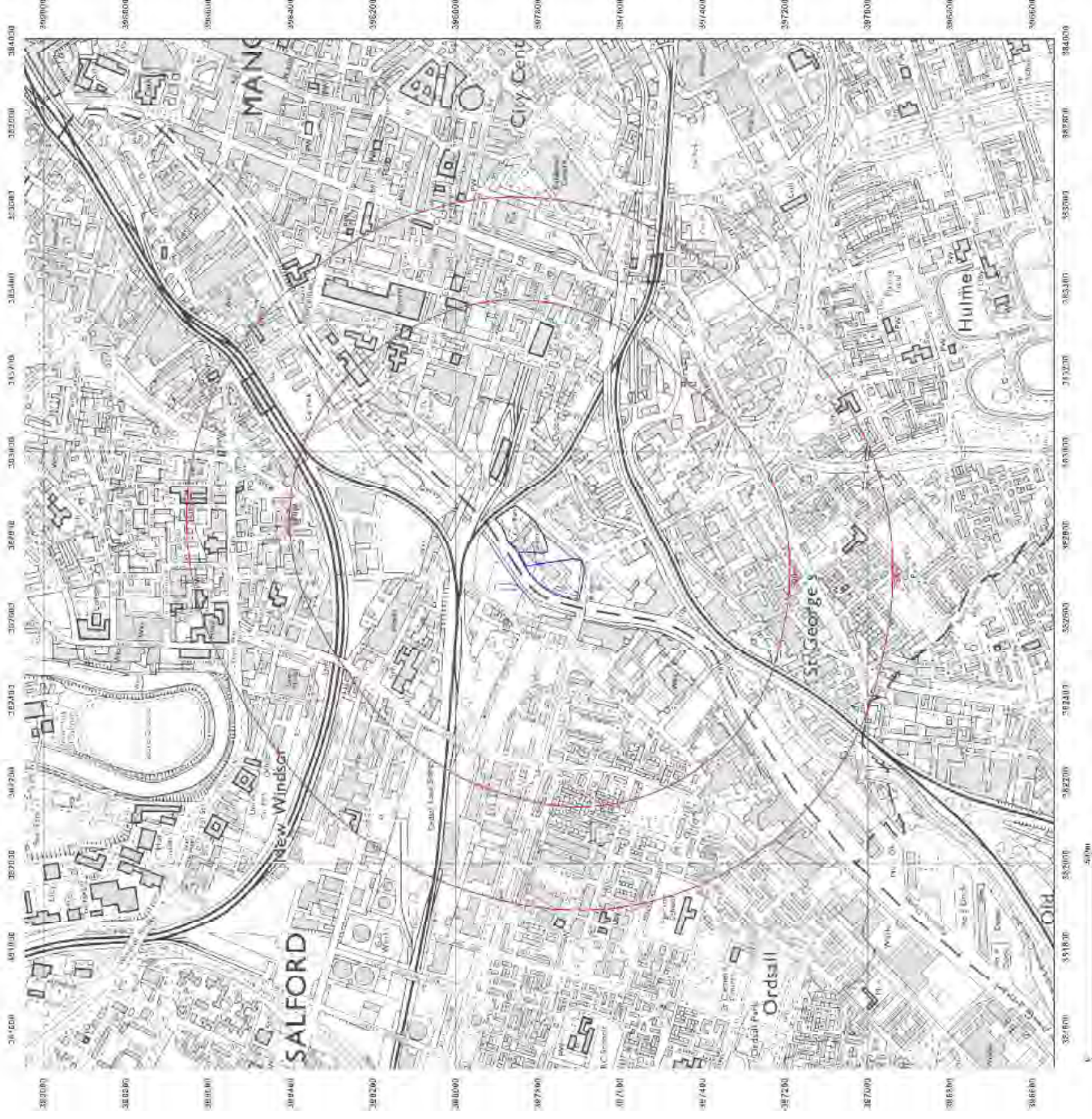


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Production date: 19 March 2021

Map legend available at:

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Site Details:

LAND A JUNCTION OF WATER STREET AND NEW ELM ROAD, NEW ELM ROAD, MANCHESTER, M3 4JH

Client Ref: Trinity Islands_Po_20124801____
Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: National Grid

Map date: 1994

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1988
Revised 1994
Edition N/A
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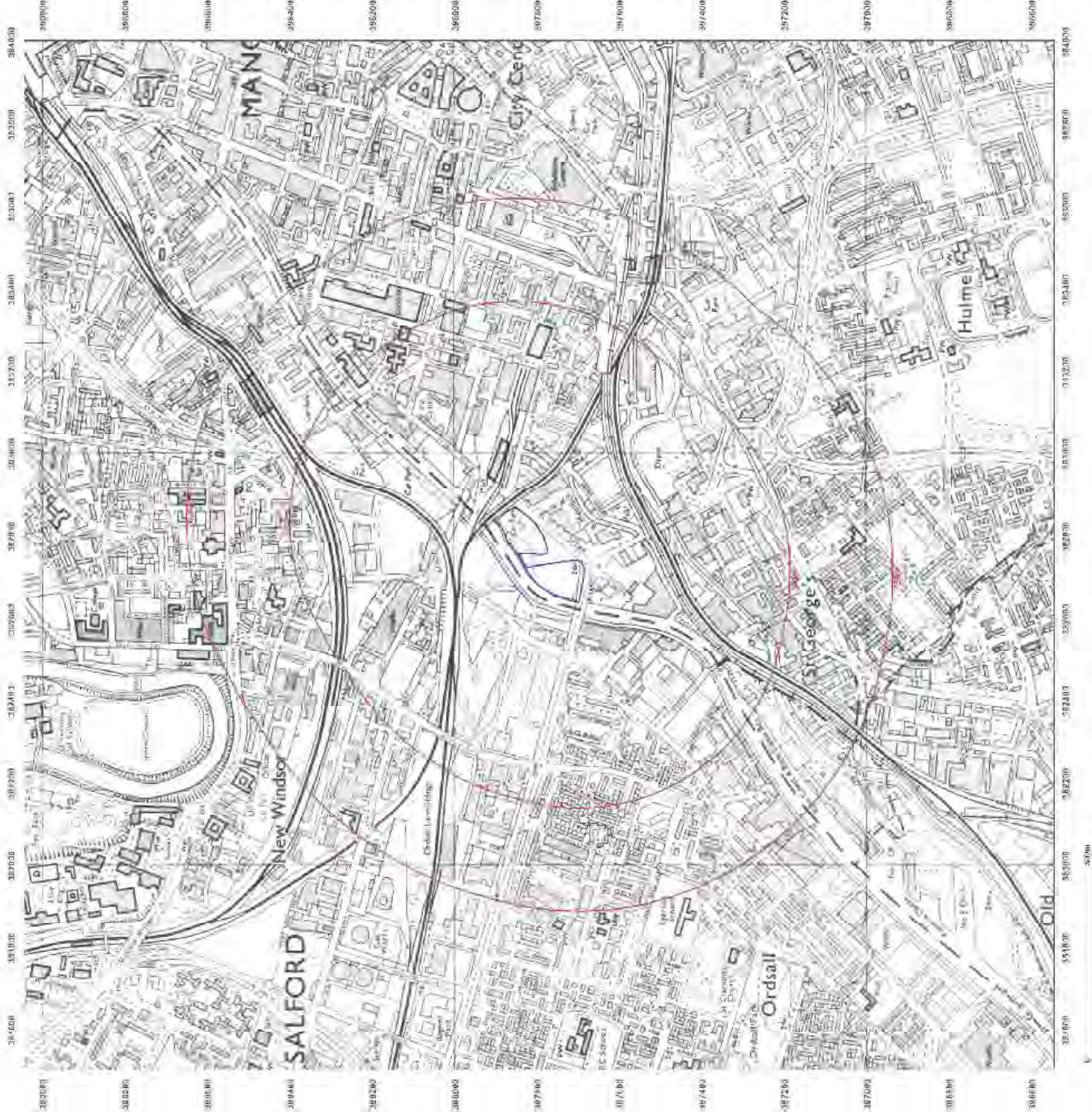


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Production date: 19 March 2021

Map legend available at:

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Site Details:

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MANCHESTER, M3 4JH

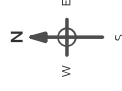
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Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



2001

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Site Details:

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NEW ELM ROAD,
MANCHESTER, M3 4JH

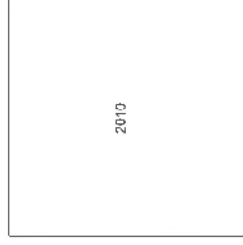
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Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



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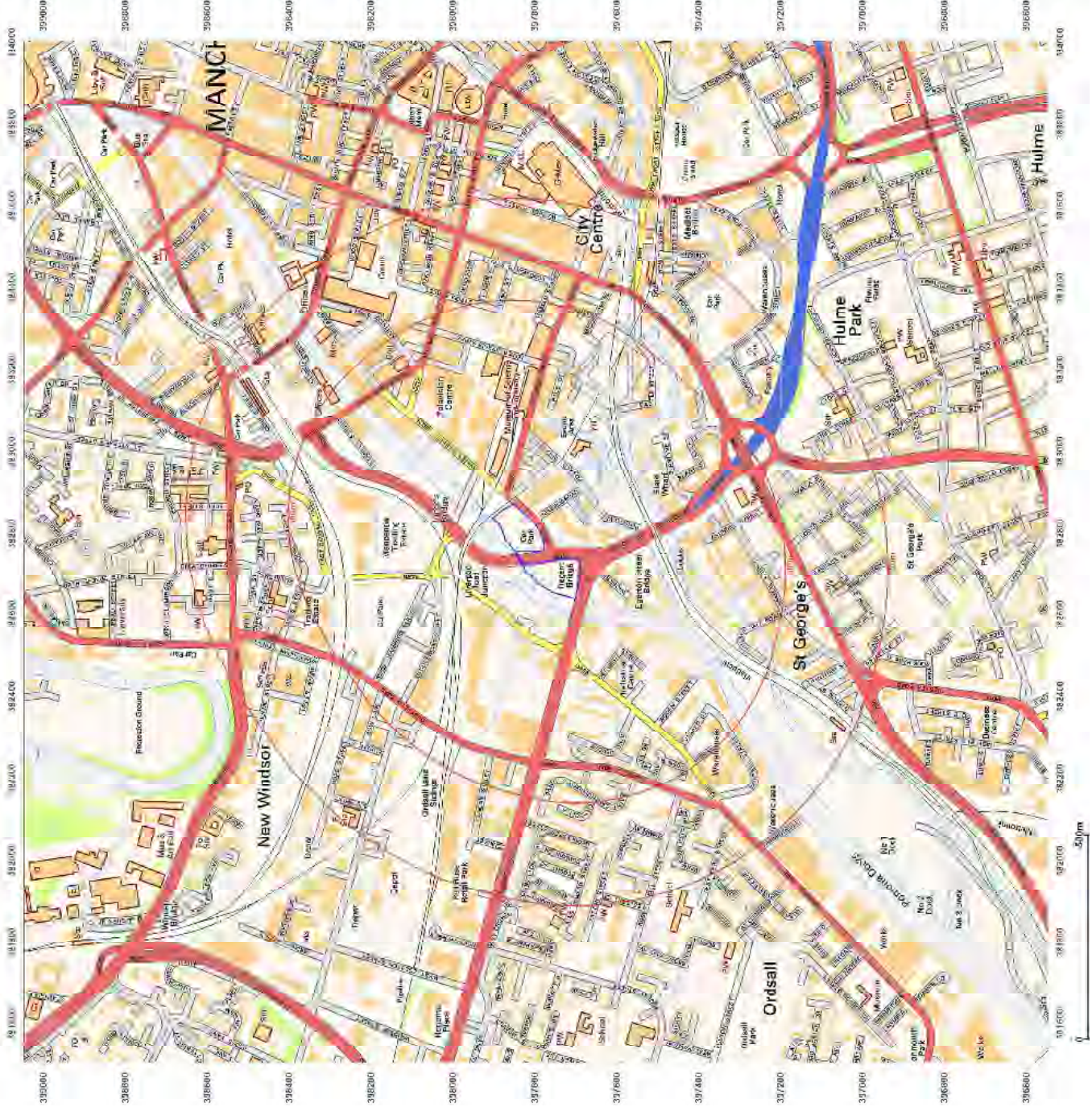


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Production date: 19 March 2021

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Site Details:

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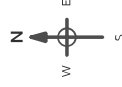
Client Ref: Trinity Islands_Po_20124801____
Report Ref: WSP-7671629
Grid Ref: 382755; 397797

Map Name: National Grid

Map date: 2021

Scale: 1:10,000

Printed at: 1:10,000



2021

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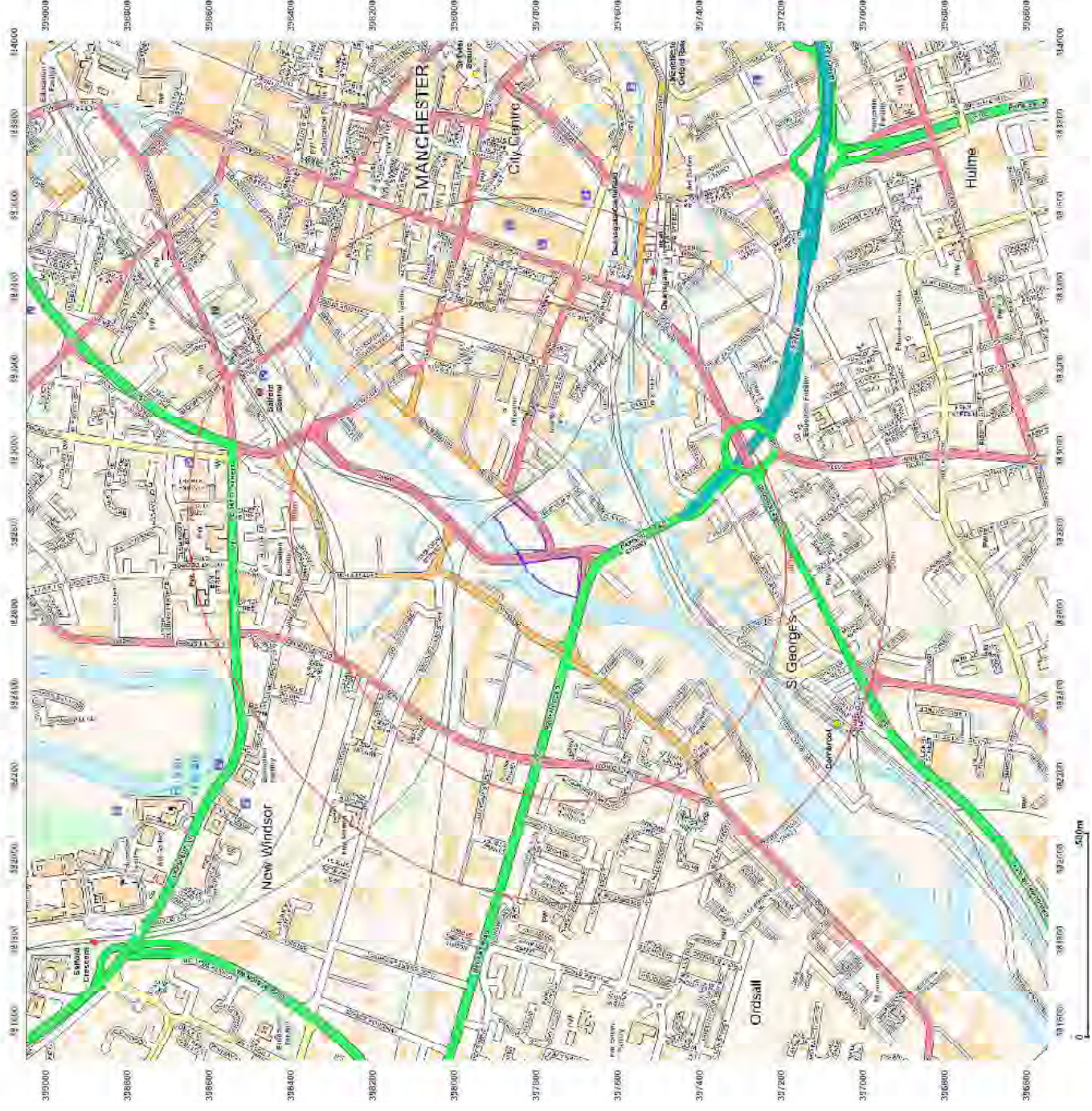


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Production date: 19 March 2021

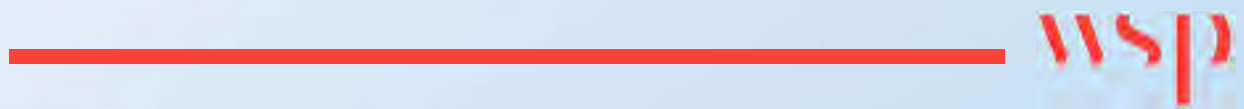
Map legend available at:

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Appendix D

BGS LOGS



 Vibroflotation Limited	Site <u>Manchester, Woolham Place</u>		Borehole No. <u>Shell and Auger</u>
	Ref No <u>V2845</u>	Date <u>7 August 1992</u>	

Sample Type U – Undisturbed Sample J – Jar Sample B – Bulk Sample W – Water Sample N – Standard Penetration Test

Remarks		
British Geological Survey	British Geological Survey	British Geological Survey

SECTION OF

Handholes in E. Sewer in Liverpool Road, Manchester.

Maps: One-inch Six-inch *104 S.W.E.* County *Lancs.*

Height above O.D. Latitude Longitude

Communicated by Date of sinking

Made by Dip of Strata

96

No. 6. Corner of Woolham Place and Liverpool Road.

British Geological Survey

Brown earth

Gravel + sand.

Thickness. Depth from Surface.

3.35 11 - 3.35 11 -

4.57 15 - 7.93 26 -

97

No. 7. Under Railway Bridge Corner of Water St. & Liverpool Road.
Coarse gravel.

British Geological Survey

British Geological Survey

British Geological Survey

3.66 12 - 3.66 12 -

British Geological Survey

British Geological Survey

British Geological Survey

SECTION OF Borehole

SJ 89 NW 22

Regent Road, Brewery, Salford.

Maps: One-inch 85. Six-inch 1043.W.E. County Lancashire.

Height above O.D. 77 ft. Latitude. Longitude.

Communicated by Professor George Hickling. Date of sinking 1888.

Made by. Dip of Strata.

Hickling's No. 63A.

Trans. Inst. Min. Eng. Vol. LIV. 1918.

M/c 49

(25/100 SW 51151)

Well (sand rock.)

Very soft rotten sandstone.

Soft red sandstone.

Rotten red sandstone.

Soft red sandstone.

Grey sandstone.

Red & grey sandstone with a few pebbles.

Red & grey sandstone.

Red sandstone.

Grey sandstone.

Yellow rock.

Red & grey sandstone.

Grey sandstone.

Red sandstone.

Hard red sandstone.

Hard red marl.

Red marl with streaks of sandstone.

Red marl.

Red marl.

Very coarse red sandstone.

Red sandstone.

Very fine red sandstone.

Thickness.

Depth from Surface.

3.60	12	-	3.60	12	-
1.22	4	-	4.87	16	-
0.91	3	-	5.79	19	-
1.22	4	-	7.01	23	-
6.10	20	-	13.11	43	-
1.22	4	-	14.33	47	-
3.35	11	-	17.68	58	-
2.74	9	-	20.42	67	-
3.96	13	-	24.38	80	-
4.57	15	-	28.96	95	-
5.79	19	-	37.80	124	-
7.77	25	9	45.64	149	9
22.02	72	3	64.62	212	-
29.87	98	-	94.49	310	-
24.38	80	-	118.87	390	-
7.62	25	-	126.49	415	-
4.88	16	-	131.37	431	-
33.22	109	-	164.59	540	-
2.44	8	-	167.03	548	-
20.42	67	-	187.45	615	-
7.62	25	-	195.07	640	-
7.92	26	-	203.00	666	-

Also see Br. Ass. 1890. p. 359.

Hickling notes: (p. 31 of reprint), "The record of borehole No. 63A is exceptional in describing a considerable thickness of 'grey' sandstone in the Bunter but this is doubtless to be attributed rather to the idiosyncrasy of the lower in charge, than to any exceptional features of the rocks themselves."

Hickling's synopsis: App. III.

Bunter 390 ft.
Permian. 158 ft.
Permian. 118 ft.

? Diam 24" to 12 1/2"

Maps: One-inch 85 Six-inch 104 S.W.F County Lancs.

Height above O.D. 97. Latitude Longitude

Communicated by Prof. George Snickling Date of sinking Jan. 1883

Made by..... Dip of Strata.....

Hickling's No. 63.

Trans. Inst. Min. Eng. Vol. LIV. 1918.

M/c 48

No. 210. 1910.
 25/24 SW 661
 Boulders: 12" diameter.
 Well shaft: 6'6" diam. 33ft. deep.
 Water level from surface about 38 feet.

	Thickness.			Depth from Surface		
Alluvium & part red sandstone.	3.60	12	-	3.60	12	-
Soft red sandstone rock.	8.84	29	-	12.50	41	-
Grey & red sandstone rock.	1.22	4	-	13.72	45	-
Red sandstone rock.	8.84	29	-	22.56	74	-
Red sandstone containing small pebbles.	4.88	16	-	27.43	90	-
Grey " " "	10.67	35	-	38.10	125	-
Grey sandstone.	35.66	117	-	73.76	242	-
Grey & red sandstone mixed.	24.69	81	-	98.45	323	-
Red sandstone.	5.49	18	-	103.94	341	-

Hicklin's Synopsis. App. III.

Drift: 12 ft.

Bunter: 329 ft.

PB

Name and Number of Shaft or Bore given by Geological Survey:

County Leicestershire

Manchester Corporation

Quarter Sheet 104SW

S189NW 282

GEOLOGICAL
CLASSIFICATION

DESCRIPTION

THICKNESS

DEPTH

Air Stores

Elm Street

Manchester

Surface 80ft. O.D.

Rest water level 20ft. below surface.

Pumping water level 46ft. below surface

Yield 1000 gallons per hour

Used for swirling & cooling.

No other details.

Above information from Manchester
Corporation Waterworks Department

20/1/1944.

Appendix E

UXO PRE DESK STUDY



Morgan, Emily

From: Eleanor Chaston <Ellie.Chaston@zetica.com>
Sent: 25 March 2021 11:57
To: Morgan, Emily
Cc: Connor, Jack; Neden, Michael; Research
Subject: RE: Pre Desk Study UXO

Good morning Emily

Please find the PDSAs below as requested. In this instance, a detailed desk study is only recommended for Site D. Any further queries, don't hesitate to contact us.

	
Pre-Desk Study Assessment	
Site:	Site C, Trinity Way, Salford, Greater Manchester
Client:	WSP
Contact:	Emily Morgan
Date:	25 th March 2021
Pre-WWI Military Activity on or Affecting the Site	None identified.
WWI Military Activity on or Affecting the Site	None identified.
WWI Strategic Targets (within 5km of Site)	The following strategic targets were located in the vicinity of the Site: ■ Manchester Ship Canal and Salford Docks. ■ Transport infrastructure and public utilities. ■ Industries important to the war effort, including munitions factories, aircraft manufacturing, engineering, and metal works. ■ Alexandra Park Aerodrome. ■ Anti-Aircraft (AA) guns.
WWI Bombing	None identified on the Site.
Interwar Military Activity on or Affecting the Site	None identified.
WWII Military Activity on or Affecting the Site	None identified.
WWII Strategic Targets (within 5km of Site)	The following strategic targets were located in the vicinity of the Site: ■ Manchester Ship Canal and Salford Docks. ■ Transport infrastructure and public utilities. ■ Industries important to the war effort, including munitions factories, aircraft manufacturing, engineering, and metal works. ■ Military barracks, camps, and training areas. ■ AA and anti-invasion defences.
WWII Bombing Decoys (within 5km of Site)	None.

WWII Bombing	During WWII the Site was located in the County Borough (CB) of Manchester, adjacent to the boundary with Salford CB. Manchester CB officially recorded 737No. High Explosive (HE) bombs with a bombing density of 27 bombs per 405 hectares (ha). Salford CB officially recorded 451No. HE bombs with a bombing density of 86.7 bombs per 405 ha. The Manchester and Salford area was heavily bombed between the 22nd and 24th December 1940 (the 'Manchester Blitz'). Over 400No. HE bombs and more than 30,000 Incendiary Bombs (IBs) fell across the region. No readily available records have been found to indicate that any significant bombing occurred on the Site.
Post-WWII Military Activity on or Affecting the Site	None identified.
Recommendation	A detailed desk study, whilst always prudent, is not considered essential in this instance.
This summary is based on a cursory review of readily available records. Caution is advised if you plan to action work based on this summary. It should be noted that where a potentially significant source of UXO hazard has been identified on the Site, the requirement for a detailed desk study and risk assessment has been confirmed and no further research will be undertaken at this stage. It is possible that further in-depth research as part of a detailed UXO desk study and risk assessment may identify other potential sources of UXO hazard on the Site.	

	
Pre-Desk Study Assessment	
Site:	Site D, Trinity Way, Salford, Greater Manchester
Client:	WSP
Contact:	Emily Morgan
Date:	25 th March 2021
Pre-WWI Military Activity on or Affecting the Site	None identified.
WWI Military Activity on or Affecting the Site	None identified.
WWI Strategic Targets (within 5km of Site)	The following strategic targets were located in the vicinity of the Site: ■ Manchester Ship Canal and Salford Docks. ■ Transport infrastructure and public utilities. ■ Industries important to the war effort, including munitions factories, aircraft manufacturing, engineering, and metal works. ■ Alexandra Park Aerodrome. ■ Anti-Aircraft (AA) guns.
WWI Bombing	None identified on the Site.
Interwar Military Activity on or Affecting the Site	None identified.
WWII Military Activity on or Affecting the Site	None identified.
WWII Strategic Targets (within 5km of Site)	The following strategic targets were located in the vicinity of the Site: ■ Manchester Ship Canal and Salford Docks. ■ Transport infrastructure and public utilities.

	■ Industries important to the war effort, including munitions factories, aircraft manufacturing, engineering, and metal works. ■ Military barracks, camps, and training areas. ■ AA and anti-invasion defences.
WWII Bombing Decoys (within 5km of Site)	None.
WWII Bombing	During WWII the Site was located in the County Borough (CB) of Manchester, adjacent to the boundary with Salford CB. Manchester CB officially recorded 737No. High Explosive (HE) bombs with a bombing density of 27 bombs per 405 hectares (ha). Salford CB officially recorded 451No. HE bombs with a bombing density of 86.7 bombs per 405 ha. The Manchester and Salford area was heavily bombed between the 22nd and 24th December 1940 (the 'Manchester Blitz'). Over 400No. HE bombs and more than 30,000 Incendiary Bombs (IBs) fell across the region. Readily available records have been found to indicate that several HE bombs fell in close proximity to the Site.
Post-WWII Military Activity on or Affecting the Site	None identified.
Recommendation	It is recommended that a detailed desk study is commissioned to assess, and potentially zone, the Unexploded Ordnance (UXO) hazard level on the Site.
This summary is based on a cursory review of readily available records. Caution is advised if you plan to action work based on this summary. It should be noted that where a potentially significant source of UXO hazard has been identified on the Site, the requirement for a detailed desk study and risk assessment has been confirmed and no further research will be undertaken at this stage. It is possible that further in-depth research as part of a detailed UXO desk study and risk assessment may identify other potential sources of UXO hazard on the Site.	

Appendix F

GENERAL LIMITATIONS



REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

GENERAL

1. WSP UK Limited has prepared this report solely for the use of the Client and those parties with whom a warranty agreement has been executed, or with whom an assignment has been agreed and outlined in the body of the report.
2. Unless explicitly agreed otherwise, in writing, this report has been prepared under WSP UK Limited standard Terms and Conditions as included within our proposal to the Client.
3. Project specific appointment documents may be agreed at our discretion and a charge may be levied for both the time to review and finalise appointments documents and also for associated changes to the appointment terms. WSP UK Limited reserves the right to amend the fee should any changes to the appointment terms create an increase risk to WSP UK Limited.
4. The report needs to be considered in the light of the WSP UK Limited proposal and associated limitations of scope. The report needs to be read in full and isolated sections cannot be used without full reference to other elements of the report and any previous works referenced within the report.

PHASE 1 GEO ENVIRONMENTAL AND PRELIMINARY RISK ASSESSMENTS

Coverage: *This section covers reports with the following titles or combination of titles: phase 1; desk top study; geo environmental assessment; development appraisal; preliminary environmental risk assessment; constraints report; due diligence report; geotechnical development review; environmental statement; environmental chapter; project scope summary report (PSSR), program environmental impact report (PEIR), geotechnical development risk register; and, baseline environmental assessment.*

5. The works undertaken to prepare this report comprised a study of available and easily documented information from a variety of sources (including the Client), together with (where appropriate) a brief walk over inspection of the Site and correspondence with relevant authorities and other interested parties. Due to the short timescales associated with these projects responses may not have been received from all parties. WSP UK Limited cannot be held responsible for any disclosures that are provided post production of our report and will not automatically update our report.
6. The opinions given in this report have been dictated by the finite data on which they are based and are relevant only for the purpose for which the report was commissioned. The information reviewed should not be considered exhaustive and has been accepted in good faith as providing true and representative data pertaining to site conditions. Should additional information become available which may affect the opinions expressed in this report, WSP UK Limited reserves the right to review such information and, if warranted, to modify the opinions accordingly.
7. It should be noted that any risks identified in this report are perceived risks based on the information reviewed. Actual risks can only be assessed following intrusive investigations of the site.
8. WSP UK Limited does not warrant work / data undertaken / provided by others.



REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

INTRUSIVE INVESTIGATION REPORTS

Coverage: *The following report titles (or combination) may cover this category of work: geo environmental site investigation; geotechnical assessment; GIR (Ground Investigation reports); preliminary environmental and geotechnical risk assessment; and, geotechnical risk register.*

9. The investigation has been undertaken to provide information concerning either:
 - i. The type and degree of contamination present at the site in order to allow a generic quantitative risk assessment to be undertaken; or
 - ii. Information on the soil properties present at the site to allow for geotechnical development constraints to be considered.
10. The scope of the investigation was selected on the basis of the specific development and land use scenario proposed by the Client and may be inappropriate to another form of development or scheme. If the development layout was not known at the time of the investigation the report findings may need revisiting once the development layout is confirmed.
11. For contamination purposes, the objectives of the investigation are limited to establishing the risks associated with potential contamination sources with the potential to cause harm to human health, building materials, the environment (including adjacent land), or controlled waters.
12. For geotechnical investigations the purpose is to broadly consider potential development constraints associated with the physical property of the soils underlying the site within the context of the proposed future or continued use of the site, as stated within the report.
13. The amount of exploratory work, soil property testing and chemical testing undertaken has necessarily been restricted by various factors which may include accessibility, the presence of services; existing buildings; current site usage or short timescales. The exploratory holes completed assess only a small percentage of the area in relation to the overall size of the Site, and as such can only provide a general indication of conditions.
14. The number of sampling points and the methods of sampling and testing do not preclude the possible existence of contamination where concentrations may be significantly higher than those actually encountered or ground conditions that vary from those identified. In addition, there may be exceptional ground conditions elsewhere on the site which have not been disclosed by this investigation and which have therefore not been taken into account in this report.
15. The inspection, testing and monitoring records relate specifically to the investigation points and the timeframe that the works were undertaken. They will also be limited by the techniques employed. As part of this assessment, WSP UK Limited has used reasonable skill and care to extrapolate conditions between these points based upon assumptions to develop our interpretation and conclusions. The assumption made in forming our conclusions is that the ground and groundwater conditions (both chemically and physically) are the same as have been encountered during the works undertaken at the specific points of investigation. Conditions can change between investigation points and these interpretations should be considered indicative.
16. The risk assessment and opinions provided are based on currently available guidance relating to acceptable contamination concentrations; no liability can be accepted for the retrospective effects of any future changes or amendments to these values. Specific assumptions associated



REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

with the WSP UK Limited risk assessment process have been outlined within the body or associated appendix of the report.

17. Additional investigations may be required in order to satisfy relevant planning conditions or to resolve any engineering and environmental issues.
18. Where soil contamination concentrations recorded as part of this investigation are used for commentary on potential waste classification of soils for disposal purposes, these should be classed as indicative only. Due consideration should be given to the variability of contaminant concentrations taken from targeted samples versus bulk excavated soils and the potential variability of contaminant concentrations between sampling locations. Where major waste disposal operations are considered, targeted waste classification investigations should be designed.
19. The results of the asbestos testing are factually reported and interpretation given as to how this relates to the previous use of the site, the types of ground encountered and site conceptualisation. This does not however constitute a formal asbestos assessment. These results should be treated cautiously and should not be relied upon to provide detailed and representative information on the delineation, type and extent of bulk ACMs and / or trace loose asbestos fibres within the soil matrix at the site.
20. If costs have been included in relation to additional site works, and / or site remediation works these must be considered as indicative only and must be confirmed by a qualified quantity surveyor.

EUROCODE 7: GEOTECHNICAL DESIGN

21. On 1st April 2010, BS EN 1997-1:2004 (Eurocode 7: Geotechnical Design – Part 1) became the mandatory baseline standard for geotechnical ground investigations.
22. In terms of geotechnical design for foundations, slopes, retaining walls and earthworks, EC7 sets guidance on design procedures including specific guidance on the numbers and spacings of boreholes for geotechnical design, there are limits to methods of ground investigation and the quality of data obtained and there are also prescriptive methods of assessing soil strengths and methods of design. Unless otherwise explicitly stated, the work has not been undertaken in accordance with EC7. A standard geotechnical interpretative report will not meet the requirements of the Geotechnical Design Report (GDR) under Eurocode 7. The GDR can only be prepared following confirmation of all structural loads and serviceability requirements. The report is likely to represent a Ground Investigation Report (GIR) under the Eurocode 7 guidance.

DETAILED QUANTITATIVE RISK ASSESSMENTS AND REMEDIAL STRATEGY REPORTS

23. These reports build upon previous report versions and associated notes. The scope of the investigation, further testing and monitoring and associated risk assessments were selected on the basis of the specific development and land use scenario proposed by the Client and may not be appropriate to another form of development or scheme layout. The risk assessment and opinions provided are based on currently available approaches in the generation of Site Specific Assessment Criteria relating to contamination concentrations and are not considered to represent a risk in a specific land use scenario to a specific receptor. No liability can be accepted for the retrospective effects of any future changes or amendments to these values, associated models or associated guidance.



REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

- 24.** The outputs of the Detailed Quantitative Risk Assessments are based upon WSP UK Limited manipulation of standard risk assessment models. These are our interpretation of the risk assessment criteria.
- 25.** Prior to adoption on site they will need discussing and agreeing with the Regulatory Authorities prior to adoption on site. The regulatory discussion and engagement process may result in an alternative interpretation being determined and agreed. The process and timescales associated with the Regulatory Authority engagement are not within the control of WSP UK Limited. All costs and programmes presented as a result of this process should be validated by a quantity surveyor and should be presumed to be indicative.

GEOTECHNICAL DESIGN REPORT (GDR)

- 26.** The GDR can only be prepared following confirmation of all structural loads and serviceability requirements. All the relevant information needs to be provided to allow for a GDR to be produced.

MONITORING (INCLUDING REMEDIATION MONITORING REPORTS)

- 27.** These reports are factual in nature and comprise monitoring, normally groundwater and ground gas and data provided by contractors as part of an earthworks or remedial works.
- 28.** The data is presented and will be compared with assessment criteria.

Appendix G

RISK APPRAISAL METHODOLOGY (FROM CIRIA C552)



RISK APPRAISAL

RISK APPRAISAL METHODOLOGY

The identification of potential “contaminant linkages” is a key aspect of the evaluation of potentially contaminated land. An approach based on the UK CIRIA report C552 (Contaminated Land Risk Assessment: A Guide to Good Practice, 2001) has been adopted within this report. For each of the contaminant linkages, an estimate is made of;

- The potential severity of the risk; and
- The likelihood of the risk occurring.

Table D.1 presents the classification of the severity of the risk:

TABLE D-1 SEVERITY OF RISK

Severe	Acute risks to human health; Major pollution of controlled waters (watercourses or groundwater)
Medium	Chronic (long-term) risk to human health; Pollution of sensitive controlled waters (surface waters or aquifers)
Mild	Pollution of non-sensitive water resources.
Minor	Requirement for protective equipment during site works to mitigate health effects; Damage to non-sensitive ecosystems or species

The probability of the risk occurring is classified by criteria given in Table D.2.

TABLE D-2 PROBABILITY OF RISK OCCURRING

High Likelihood	Contaminant linkage may be present, and risk is almost certain to occur in the long term, or there is evidence of harm to the receptor.
Likely	Contaminant linkage may be present, and it is probable that the risk will occur over the long term.
Low Likelihood	Contaminant linkage may be present and there is a possibility of the risk occurring, although there is no certainty that it will do so.
Unlikely	Contaminant linkage may be present but the circumstances under which harm would occur are improbable.

An overall evaluation of the level of risk is gained from a comparison of the severity and probability as presented in Table D.3.

TABLE D-3 COMPARISON OF SEVERITY AND PROBABILITY

Severity

TABLE D-3 COMPARISON OF SEVERITY AND PROBABILITY

		Severe	Medium	Mild	Minor
Probability	High Likelihood	Very high risk	High risk	Moderate risk	Moderate / low risk
	Likely	High risk	Moderate risk	Moderate/ low risk	Low risk
	Low Likelihood	Moderate risk	Moderate/ low risk	Low risk	Very low risk
	Unlikely	Moderate / low risk	Low risk	Very low risk	Very low risk

Table D.4 then provides a description of the typical consequences and potential actions required following each risk definition.

TABLE D-4 QUALITATIVE RISK ASSESSMENT - CLASSIFICATION OF CONSEQUENCE

Classification	Definition
Very High Risk	Severe harm to a receptor may already be occurring, or a high likelihood severe harm will arise to a receptor, unless immediate remedial works / mitigation measures are undertaken.
High Risk	Harm is likely to arise to a receptor, and is likely to be severe, unless appropriate remedial actions / mitigation measures are undertaken. Remedial works may be required in the short-term, but likely to be required over the long-term.
Moderate Risk	Possible that harm could arise to a receptor, but low likelihood that such harm would be severe. Harm is likely to be mild. Some remedial works may be required in the long-term.
Moderate / Low Risk	Possible that harm could arise to a receptor, but where a combination of likelihood and consequence results in a risk that is above low, but is not of sufficient concern to be classified as mild. Limited further investigation may be required to clarify the risk. If necessary, remediation works are likely to be limited in extent.
Low Risk	Possible that harm could arise to a receptor. Such harm, at worst, would normally be mild.
Very Low Risk	Low likelihood that harm could arise to a receptor. Such harm is unlikely to be any worse than mild.

It should be noted that the identification of potential contaminant linkages does not indicate that they are significant. The risk to ground workers during any redevelopment has not been assessed as part of these works. It is recommended that a task specific risk assessment, which may include stipulations with regards to appropriate work control procedures and personal protective equipment (PPE), is completed prior to any future construction works.



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