



adeptus

GEO-ENVIRONMENTAL PHASE 1 DESK STUDY

305 MIDDLETON ROAD

**MANCHESTER
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On behalf of:

Mohamed Alotia

Report No.: A200716-R01

Date: July 2020

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We have prepared this report in our professional capacity using reasonable skill, care and diligence. The assessments, conclusions and recommendations within this report pertain to the study site (the extents of which are in Figure 1, below) and the immediate area in continuity with the Site. They are based on the established historical uses, information available at the time of writing and the proposed use of the Site. Where any information supplied by the client or other sources have been utilised, it has been assumed that the information is correct. No responsibility can be accepted by Adeptus for inaccuracies in data supplied by any other party.

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New information relating to environmental matters can come to light after the report has been prepared and changes in conditions and regulatory requirements may occur in future. Either of those factors may change the conclusions presented in our report. If development does not take place within the expected timescales, consideration should be given to reviewing this assessment to confirm that no changes to the site or relevant legislation have taken place. No part of this report is intended to provide legal advice or opinion of any nature.

Table of Contents

1	INTRODUCTION.....	4
1.0	Report Context.....	4
1.1	Objectives and Methodology.....	4
1.2	Regulatory Framework.....	4
1.3	Information Sources and Structure.....	4
1.4	Previous Reports/Investigations.....	5
2	SITE DETAILS.....	5
2.1	Location and Description.....	5
2.2	Site Reconnaissance.....	6
3	HISTORICAL DEVELOPMENT.....	7
3.1	Historical Map Review.....	7
3.2	Further Historical Land Use and Industrial Features.....	7
3.3	Regulatory Records, Licences and Authorisations.....	8
3.4	Landfill & Waste Site Records.....	8
3.5	Current Land Use.....	9
4	ENVIRONMENTAL SETTING.....	9
4.1	Geology & Hydrogeology.....	9
4.2	Abstraction Licences and Source Protection Zones.....	10
4.3	Hydrology and Flooding.....	10
4.4	Ecology & Designated Environmentally Sensitive Sites.....	10
5	Initial Conceptual Site Model.....	10
4.1	Pollutant Linkage Assessment.....	10
4.2	Preliminary Risk Assessment.....	11
6	Conclusions.....	11
4.3	Risk Assessment Summary.....	11
4.4	Recommendations.....	11
	APPENDIX A – SITE PLAN.....	12
	APPENDIX B – ENVIRONMENTAL DATABASE.....	13

1 INTRODUCTION

1.0 Report Context

Adeptus was appointed by Mohamed Alotia to undertake a Geo-Environmental Phase 1 Desk Study in support of a planning application for development at the site known as 305 Middleton Road. This report details the findings of the study, with conclusions and recommendations relating to the potential risks to human health and the environment identified.

1.1 Objectives and Methodology

This Phase 1 Desk Study report is intended to address the requirements of a Preliminary Investigation under British Standard 10175:2011 'Investigation of Potentially Contaminated Sites – Code of Practice', and a Preliminary Risk Assessment as defined by CIRIA publication C553 'Contaminated land risk assessment - a guide to good practice'. Information on the site history, geology and environmental setting is assessed to identify possible contamination risks associated with soil, groundwater and ground gas conditions at and in proximity to the site.

The objectives of the desk study are to:

- Summarise historical land use on and in the vicinity of the site
- Assess the likelihood of contamination, as well as its potential nature and extent
- Evaluate the geological and environmental setting of the site and immediate surrounds
- Identify potentially significant contaminant linkages
- Develop an initial conceptual site model
- Provide a preliminary assessment of risks in the context of the planned use of the site

1.2 Regulatory Framework

Land contamination is a material consideration under the National Planning Policy Framework (2012). This means that local authorities must take the potential or actual presence of contamination into account when considering planning applications.

"Contamination" is defined in BS 10175:2011 as:

presence of a substance or agent, as a result of human activity, in, on or under land, which has the potential to cause harm or to cause pollution.

Contaminated Land Report 11 'Model Procedures for the Management of Land Contamination', sets out three essential elements of risk in the context of land contamination, which together are described as a pollutant or contaminant linkage. Preliminary risk assessment is required to qualitatively assess the significance of potential pollutant linkages affecting the site, and establish the requirement or otherwise for further investigation.

1.3 Information Sources and Structure

The following information and data sources are utilised in compiling this report:

- Site reconnaissance (satellite imagery)
- Environmental Database
- Geological maps of the vicinity

- Environment Agency and Local Authority registers and permissions
- Historical Ordnance Survey Maps
- Web based archive material

The report consists of five main sections; below is an outline of their contents for ease of navigation:

- Section 1: Introduction
- Section 2: Describes the site, its surroundings and findings of any site reconnaissance
- Section 3: Provides a review of historical development on and around the site
- Section 4: Provides an assessment of the site's environmental setting
- Section 5: Describes Initial Conceptual Site Model and Preliminary Risk Assessment
- Section 6: Summarises findings of the assessment and provides any pertinent recommendations

1.4 Previous Reports/Investigations

At the time of writing, no previous reports for the Site have been made available.

2 SITE DETAILS

This section provides a review of the land use on and in the vicinity of the Site, with the purpose of identifying potential contaminant sources and environmental constraints.

2.1 Location and Description

Table 2-1: Site Summary

Location	The site is situated in a suburban area at the junction of Middleton Road and Sheepfoot Lane.
Grid Reference	383722 403611 (centred on, approx.)
Area & Shape	0.05 ha – roughly rectangular.
Development Proposals	Redevelopment as a single detached dwelling with parking.



Figure 2-1: Site Location (based on the plan in Appendix B)

2.2 Site Reconnaissance

A site walkover was not commissioned by the client. Limited reconnaissance of the site was undertaken via satellite imagery, and the findings are summarised in Table 2-2.

Table 2-2: Site Reconnaissance Notes

	Notes
Recent Land Use	On-Site: The current building appears to be a standard detached house with gardens but is labelled Surgery on OS Maps. North: Parkland beyond Sheepfoot Lane. South: Dwellings with gardens. East: Undeveloped land. West: Dwellings with gardens.
Retaining Structures	None apparent from satellite imagery.
Topography	Unconfirmed

Ground Cover	Buildings & Hardstanding: 40%	Soft Landscaping: 60%	Other:
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3 HISTORICAL DEVELOPMENT

3.1 Historical Map Review

Historical Ordnance (OS) Survey map extracts have been examined to provide a summary of relevant land use on and in proximity to the site, including industrial features within 100m and potential landfills within 250m.

Maps dating from 1848 to 1990 and in the 1:1,250, 1:2,500 and 1:10,560 scales have been reviewed.

More recent aerial images have also been reviewed for evidence of relevant land use.

Potentially significant findings are summarised in Table 3-3, below.

Table 3-3: Summary of Historical Map Features

Feature	Location (approx.)	OS Map Dates	Comments
305 (Surgery)	On-site	1958 - present	The building is of a similar footprint to the one on-site today and labelled Surgery.
Electricity Substation	90m NE	1952-1990	The substation and garage are on the same site, which today contains a hotel with a smaller, modern substation to its west.
Garage	50m NE	1952-1990	
Garage	94m S	1958 - present	The garage appears to be a filling station and remains today as a Shell Service Station.

3.2 Further Historical Land Use and Industrial Features

Further industrial features highlighted in the environmental data report and not located on the maps reviewed in 3.1 are listed under the headings below.

3.2.1 Historical Tank Database entries within 100m: 0

3.2.2 Historical Energy Features Database entries within 100m: 0

3.2.3 Historical Petrol and Fuel Site Database entries within 100m: 0

3.2.4 Historical Garage and Motor Vehicle Repair Database entries within 100m: 2

- As noted in Section 3.1.

3.3 Regulatory Records, Licences and Authorisations

The following is a summary of regulated industrial activities potentially indicating an increased likelihood of the presence of contamination, pollution incidents, and sites determined as contaminated land - as contained in the environmental data report.

3.3.1 Records of historic IPC Authorisations within 100m: 0

3.3.2 Records of Part A(1) and IPPC Authorised Activities within 100m: 0

3.3.3 Records of Red List Discharge Consents within 100m: 0

3.3.4 Records of List 1 Dangerous Substance Inventory Sites within 100m: 0

3.3.5 Records of List 2 Dangerous Substance Inventory Sites within 100m: 0

3.3.6 Records of Part A(2) and Part B Activities (and Enforcements) within 100m: 1

- Crumpsall Service Station - 112m S
 - Process: Unloading of Petrol into Storage at Service Stations
 - Enforcement: No Enforcements Notified

3.3.7 Records of Category 3 or 4 Radioactive Substances Authorisations within 100m: 0

3.3.8 Records of Licensed Discharge Consents within 100m: 0

3.3.9 Records of Water Industry Referrals within 100m: 0

3.3.10 Records of Planning Hazardous Substance Consents and Enforcements within 100m: 0

3.3.11 Records of COMAH & NIHS sites within 100m: 0

3.3.12 Environment Agency Recorded Pollution Incidents within 100m: 0

3.3.13 Records of National Incidents Recording System, List 1 within 100m: 0

3.3.14 Sites Determined as Contaminated Land under Part 2A EPA 1990 within 100m: 0

3.4 Landfill & Waste Site Records

With reference to the environmental data report, the following landfill and waste sites are identified via historical records, mapping and contemporary regulatory records.

3.4.1 Environment Agency landfill data entries within 250m: 0

3.4.2 Environment Agency historic landfill data entries within 250m: 0

3.4.3 Records of BGS/DoE records of non-operational landfill sites within 250m: 0

3.4.4 Records of landfills from Local Authority and Historical Mapping records within 250m: 0

3.4.5 Records of Waste Treatment, Transfer or Disposal Sites within 100m: 0

3.4.6 Records of Environment Agency Licensed Waste Sites within 100m: 0

3.5 Current Land Use

Contemporary local land uses listed in the environmental data report and with the potential for significant impact on the site are described below.

3.5.1 Records of potentially contaminative industrial sites within 100m: 0

3.5.2 Records of Petrol or Fuel Sites within 100m: 0

3.5.3 Records of National Grid High Voltage Underground Electricity Transmission Cables within 100m: 0

3.5.4 National Grid High Pressure Gas Transmission Pipelines within 100m: 0

4 ENVIRONMENTAL SETTING

The site's setting is reviewed to provide an assessment of receptors potentially affected, and ways in which the environment may act as a pathway for exposure, or contaminant source.

4.1 Geology & Hydrogeology

4.1.1 Published Geology

British Geological Survey (BGS) mapping indicates the site is underlain by the geological sequence summarised in table 4-1, below.

Table 4-1: Summary of Published Geology

Geological Unit	Description	Composition	Location	Aquifer Designation
Superficial/drift	Glacial Sand and Gravel	Sand and Gravel	On site	Secondary Undifferentiated
Solid/bedrock	Triassic Rocks (Undifferentiated)	Sandstone and Conglomerate, Interbedded	On site	Principal

4.1.2 Ground Gas Conditions

- The natural geological strata identified above are not considered a significant source of permanent ground gases such as methane or carbon dioxide.

4.1.3 Coal Mining

- The site is located within the Development Low Risk Area, as defined by the Coal Authority. The High-Risk Area relates to the potential presence of mining features such as worked coal seams, shafts and openings.

4.2 Abstraction Licenses and Source Protection Zones

- 4.2.1 Groundwater Abstraction Licenses within 500m: 0
- 4.2.2 Surface Water Abstraction Licenses within 500m: 0
- 4.2.3 Potable Water Abstraction Licenses within 500m: 0
- 4.2.4 Source Protection Zones within 500m: 0

4.3 Hydrology and Flooding

4.3.1 Surface Water Features

The closest mapped watercourse / waterbody is:

- River Irk ca. 185m SE

4.3.2 River and Coastal Flooding

With reference to Environment Agency/Natural Resources Wales Flood Risk Map for Planning - the site is situated in:

- Flood Zone 1

4.4 Ecology & Designated Environmentally Sensitive Sites

Designated Ecological or Heritage Sites within 250m: 0

5 INITIAL CONCEPTUAL SITE MODEL

For a conceptual risk of harm to human health or the environment to exist within the context of CLR11, all of the following elements must be present:

- a source – i.e., a substance (contaminant(s)) that is capable of causing pollution or adverse health effects;
- a receptor - i.e., something which could be adversely affected by the source; and
- a pathway – i.e., a route by which the contaminant could come into contact with, or affect, the receptor.

These three elements are collectively referred to as a pollutant linkage. Risk Assessment is the formal process of evaluating potential source, pathway and receptor characteristics to determine the degree of risk potentially posed.

4.1 Pollutant Linkage Assessment

Based on the information presented in sections 2 and 3, the following potential sources, receptors and relevant pathways for exposure are identified in relation to the development.

4.1.1 On-Site Potential Sources of Contamination

- No potentially significant on-site sources have been identified

4.1.2 Off-Site Potential Sources of Contamination

- No potentially significant off-site sources have been identified

4.1.3 Potential Receptors

- In the absence of any identified potentially significant source of contamination, a pollutant linkage cannot exist, and consideration of receptors is not necessary.

4.1.4 Potential Pathways

- In the absence of any identified potentially significant source of contamination, a pollutant linkage cannot exist, and consideration of pathways is not necessary.

4.2 Preliminary Risk Assessment

As no potentially significant pollutant linkages have been identified, no further risk assessment is undertaken, in line with the requirements of CLR11.

6 CONCLUSIONS

4.3 Risk Assessment Summary

On the basis of the available information, no potentially significant pollutant linkages have been identified and the proposed development is therefore considered to present a low risk to human health and the environment.

The site remained undeveloped before construction of the current dwelling between 1938 and 1952, and industrial land use has been identified immediately adjacent to the site.

Limited commercial features have been in the wider vicinity, including garages and a substation. However, these are not considered significant due to their nature and distance from the site.

The site setting is considered moderately sensitive due to the proposed residential use and Principal Aquifer overlain with Secondary Undifferentiated strata.

N.B.: This summary forms part of the overall desk study and preliminary risk assessment and should not be viewed or used as an independent report.

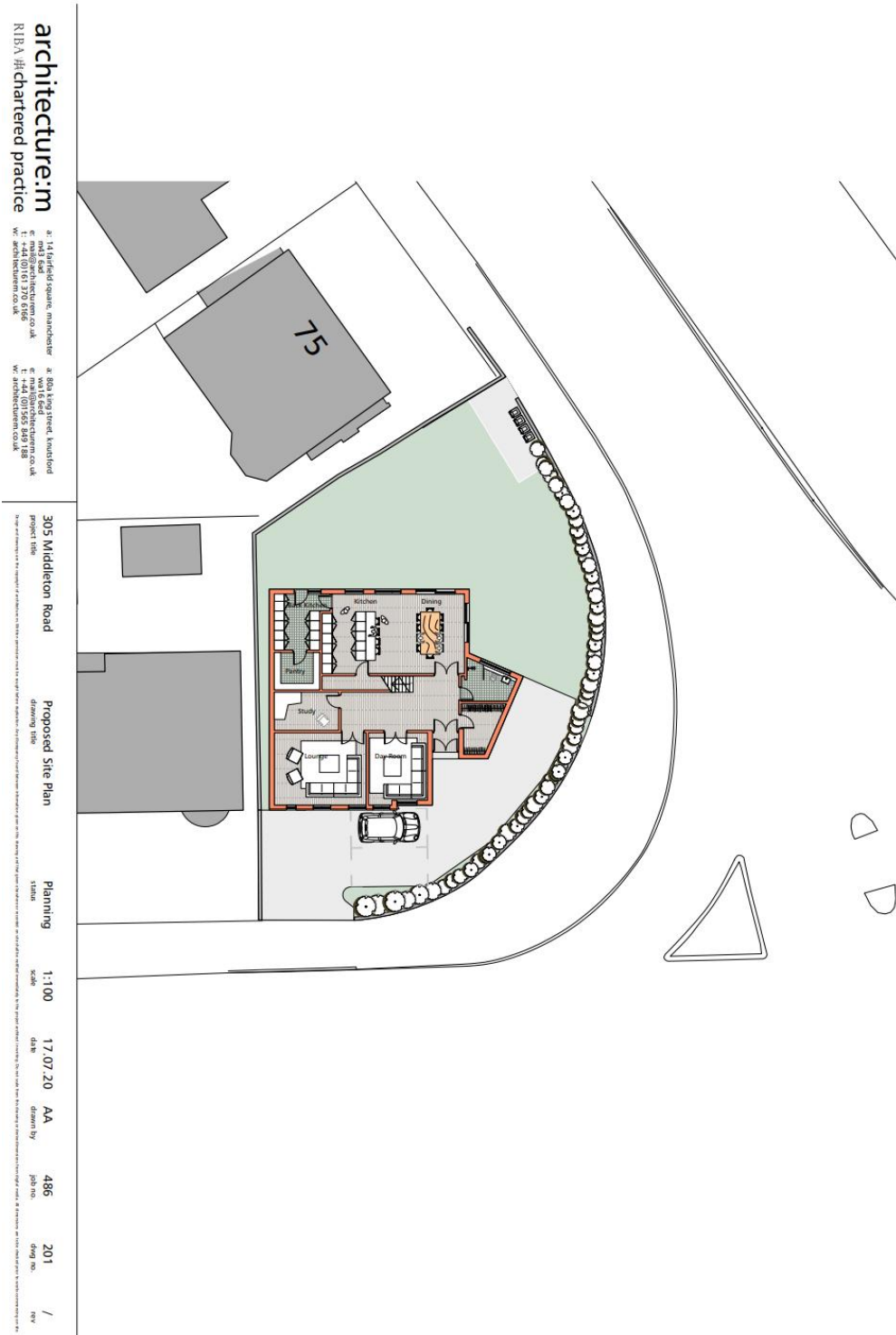
4.4 Recommendations

Adeptus considers that no further action is required at this stage.

Construction Phase

During clearance, excavation construction works, a watching brief should be maintained and any evidence of Made Ground, or visual and/or olfactory evidence of contamination recorded.

APPENDIX A – SITE PLAN



APPENDIX B – ENVIRONMENTAL DATABASE

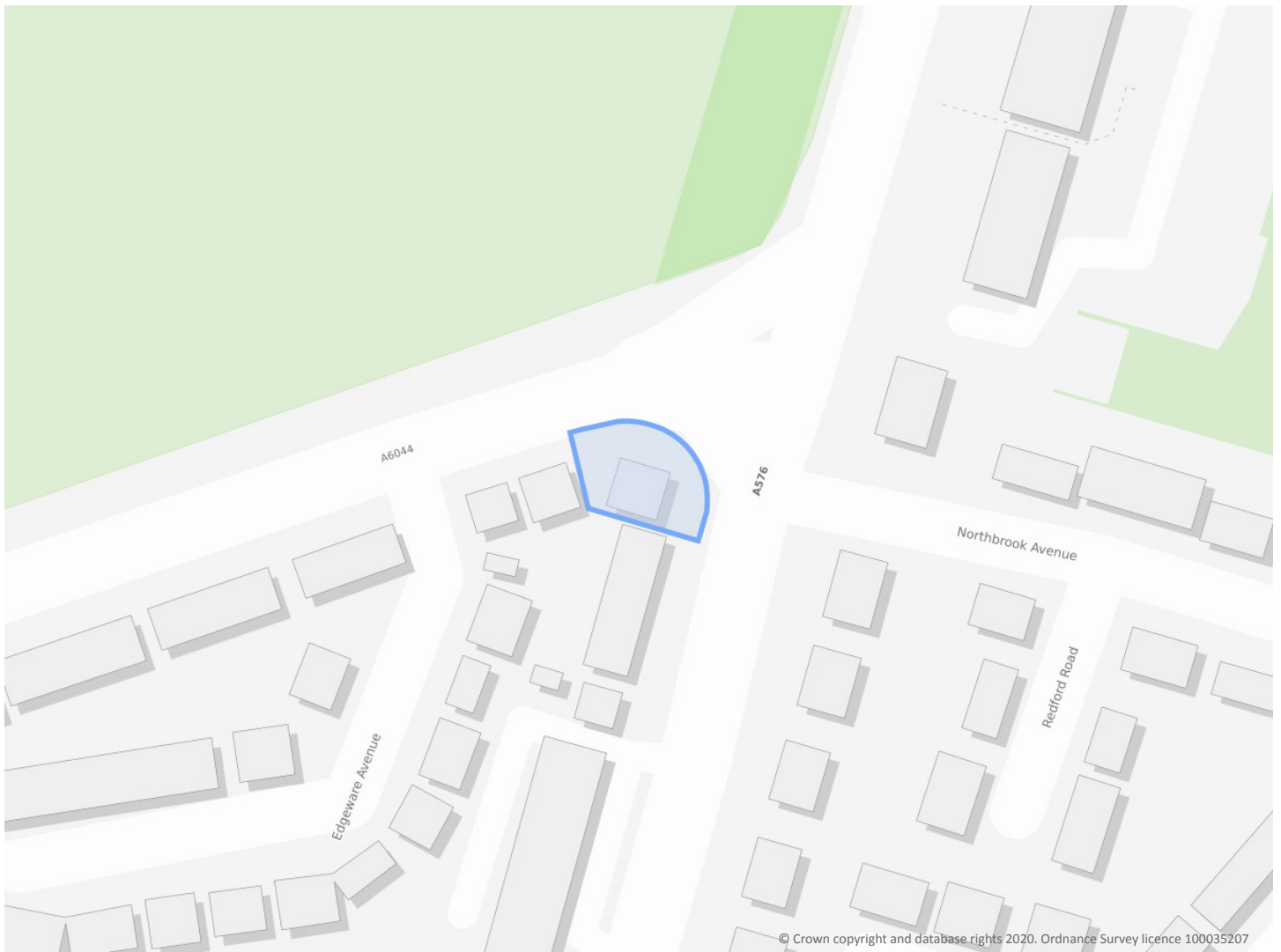
305, MIDDLETON ROAD, MANCHESTER, M8 4LY

Order Details

Date: 22/07/2020
Your ref: 305_Middleton_Road
Our Ref: GS-6908930
Client: Adeptus Environmental

Site Details

Location: 383722 403611
Area: 0.05 ha
Authority: [Bury Metropolitan Borough Council](#)



Summary of findings

p. 2

Aerial image

p. 6

OS MasterMap site plan

p.10

groundsure.com/insightuserguide

Contact us with any questions at:

info@groundsure.com

08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
11	1.1	Historical industrial land uses	0	0	22	24	-
13	1.2	Historical tanks	0	0	13	9	-
14	1.3	Historical energy features	0	0	6	14	-
15	1.4	Historical petrol stations	0	0	0	0	-
16	1.5	Historical garages	0	1	4	0	-
16	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
17	2.1	Historical industrial land uses	0	0	29	34	-
20	2.2	Historical tanks	0	0	21	13	-
21	2.3	Historical energy features	0	0	10	19	-
23	2.4	Historical petrol stations	0	0	0	0	-
23	2.5	Historical garages	0	2	8	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
24	3.1	Active or recent landfill	0	0	0	0	-
24	3.2	Historical landfill (BGS records)	0	0	0	0	-
25	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
25	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
25	3.5	Historical waste sites	0	0	0	0	-
25	3.6	Licensed waste sites	0	0	0	0	-
25	3.7	Waste exemptions	0	0	1	0	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
27	4.1	Recent industrial land uses	0	1	4	-	-
28	4.2	Current or recent petrol stations	0	0	2	0	-
28	4.3	Electricity cables	0	0	0	0	-
28	4.4	Gas pipelines	0	0	0	0	-
29	4.5	Sites determined as Contaminated Land	0	0	0	0	-



29	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
29	4.7	Regulated explosive sites	0	0	0	0	-
29	4.8	Hazardous substance storage/usage	0	0	0	0	-
29	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
30	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
30	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	2	0	-
30	4.12	Radioactive Substance Authorisations	0	0	0	0	-
30	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	0	16	-
33	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
33	4.15	Pollutant release to public sewer	0	0	0	0	-
33	4.16	List 1 Dangerous Substances	0	0	0	0	-
34	4.17	List 2 Dangerous Substances	0	0	0	0	-
34	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	2	3	-
35	4.19	Pollution inventory substances	0	0	0	0	-
35	4.20	Pollution inventory waste transfers	0	0	0	0	-
35	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Geology (basic)					
36	5.1	<u>Superficial geology (625k)</u>	Identified (within 500m)				
36	5.2	<u>Bedrock geology (625k)</u>	Identified (within 500m)				
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
37	6.1	<u>Superficial aquifer</u>	Identified (within 500m)				
39	6.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
40	6.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
41	6.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
41	6.5	Groundwater vulnerability- local information	None (within 0m)				
42	6.6	<u>Groundwater abstractions</u>	0	0	0	0	8
45	6.7	Surface water abstractions	0	0	0	0	0
45	6.8	Potable abstractions	0	0	0	0	0
45	6.9	Source Protection Zones	0	0	0	0	-

45	6.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
46	<u>7.1</u>	<u>Water Network (OS MasterMap)</u>	0	0	1	-	-
47	<u>7.2</u>	<u>Surface water features</u>	0	0	2	-	-
47	<u>7.3</u>	<u>WFD Surface water body catchments</u>	1	-	-	-	-
47	<u>7.4</u>	<u>WFD Surface water bodies</u>	0	0	1	-	-
48	<u>7.5</u>	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
49	8.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
50	<u>8.2</u>	<u>Historical Flood Events</u>	0	0	2	-	-
50	8.3	Flood Defences	0	0	0	-	-
50	8.4	Areas Benefiting from Flood Defences	0	0	0	-	-
51	8.5	Flood Storage Areas	0	0	0	-	-
52	8.6	Flood Zone 2	None (within 50m)				
52	8.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
53	9.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding					
54	<u>10.1</u>	<u>Groundwater flooding</u>	Moderate (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
55	11.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
56	11.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
56	11.3	Special Areas of Conservation (SAC)	0	0	0	0	0
56	11.4	Special Protection Areas (SPA)	0	0	0	0	0
56	11.5	National Nature Reserves (NNR)	0	0	0	0	0
57	<u>11.6</u>	<u>Local Nature Reserves (LNR)</u>	0	0	1	0	1
57	11.7	Designated Ancient Woodland	0	0	0	0	0
57	11.8	Biosphere Reserves	0	0	0	0	0
57	11.9	Forest Parks	0	0	0	0	0



58	11.10	Marine Conservation Zones	0	0	0	0	0
58	11.11	<u>Green Belt</u>	0	1	0	0	2
58	11.12	Proposed Ramsar sites	0	0	0	0	0
58	11.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
59	11.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
59	11.15	Nitrate Sensitive Areas	0	0	0	0	0
59	11.16	<u>Nitrate Vulnerable Zones</u>	1	0	0	1	1
60	11.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
61	11.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
62	12.1	World Heritage Sites	0	0	0	-	-
63	12.2	Area of Outstanding Natural Beauty	0	0	0	-	-
63	12.3	National Parks	0	0	0	-	-
63	12.4	Listed Buildings	0	0	0	-	-
63	12.5	Conservation Areas	0	0	0	-	-
64	12.6	Scheduled Ancient Monuments	0	0	0	-	-
64	12.7	<u>Registered Parks and Gardens</u>	0	1	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
65	13.1	<u>Agricultural Land Classification</u>	Non Agricultural (within 250m)				
66	13.2	Open Access Land	0	0	0	-	-
66	13.3	Tree Felling Licences	0	0	0	-	-
66	13.4	Environmental Stewardship Schemes	0	0	0	-	-
66	13.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
67	14.1	<u>Priority Habitat Inventory</u>	0	2	1	-	-
68	14.2	Habitat Networks	0	0	0	-	-
68	14.3	Open Mosaic Habitat	0	0	0	-	-
68	14.4	Limestone Pavement Orders	0	0	0	-	-

Recent aerial photograph

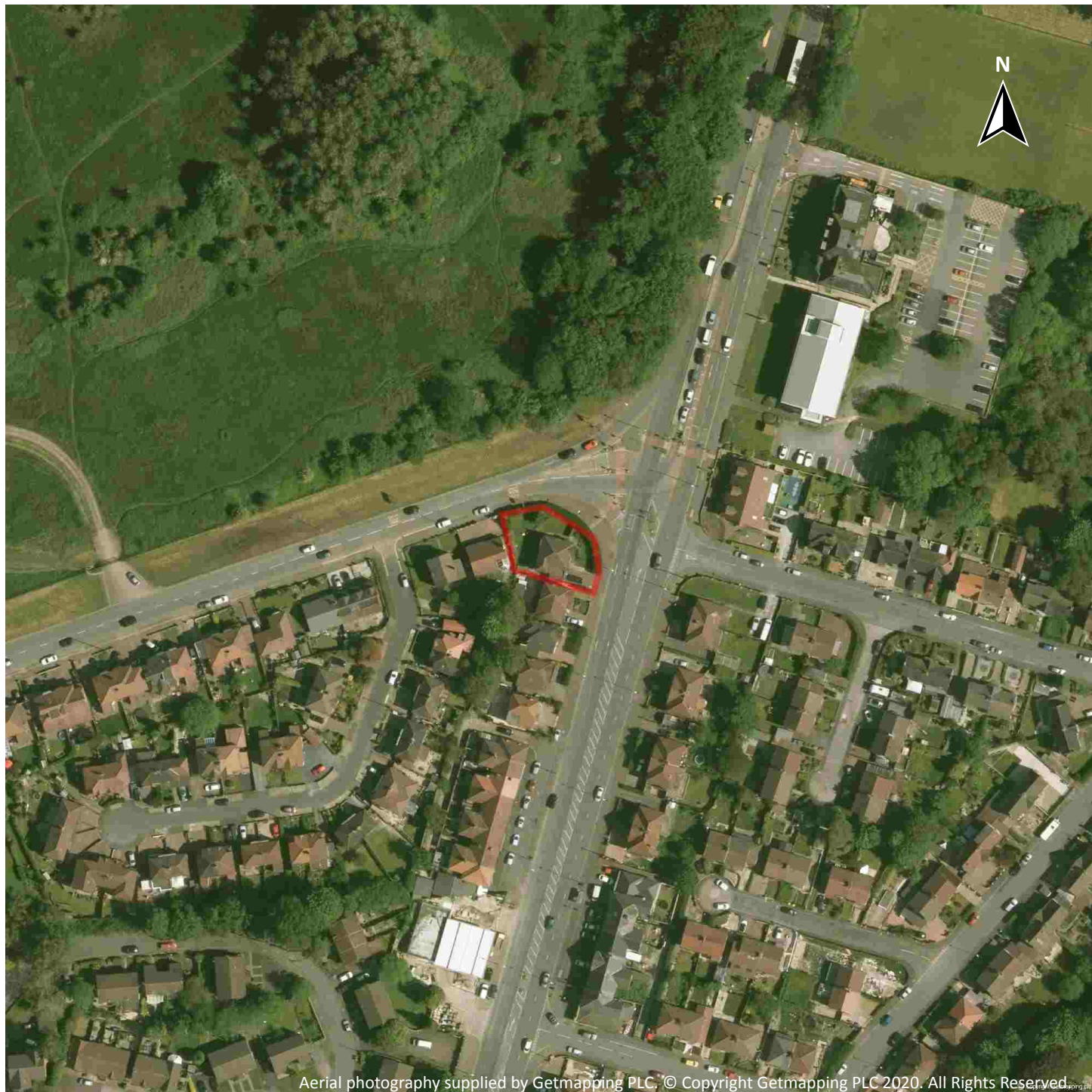


Capture Date: 22/04/2019

Site Area: 0.05ha



Recent site history - 2015 aerial photograph



Capture Date: 11/06/2015

Site Area: 0.05ha



Recent site history - 2009 aerial photograph



Capture Date: 02/06/2009

Site Area: 0.05ha



Recent site history - 2000 aerial photograph



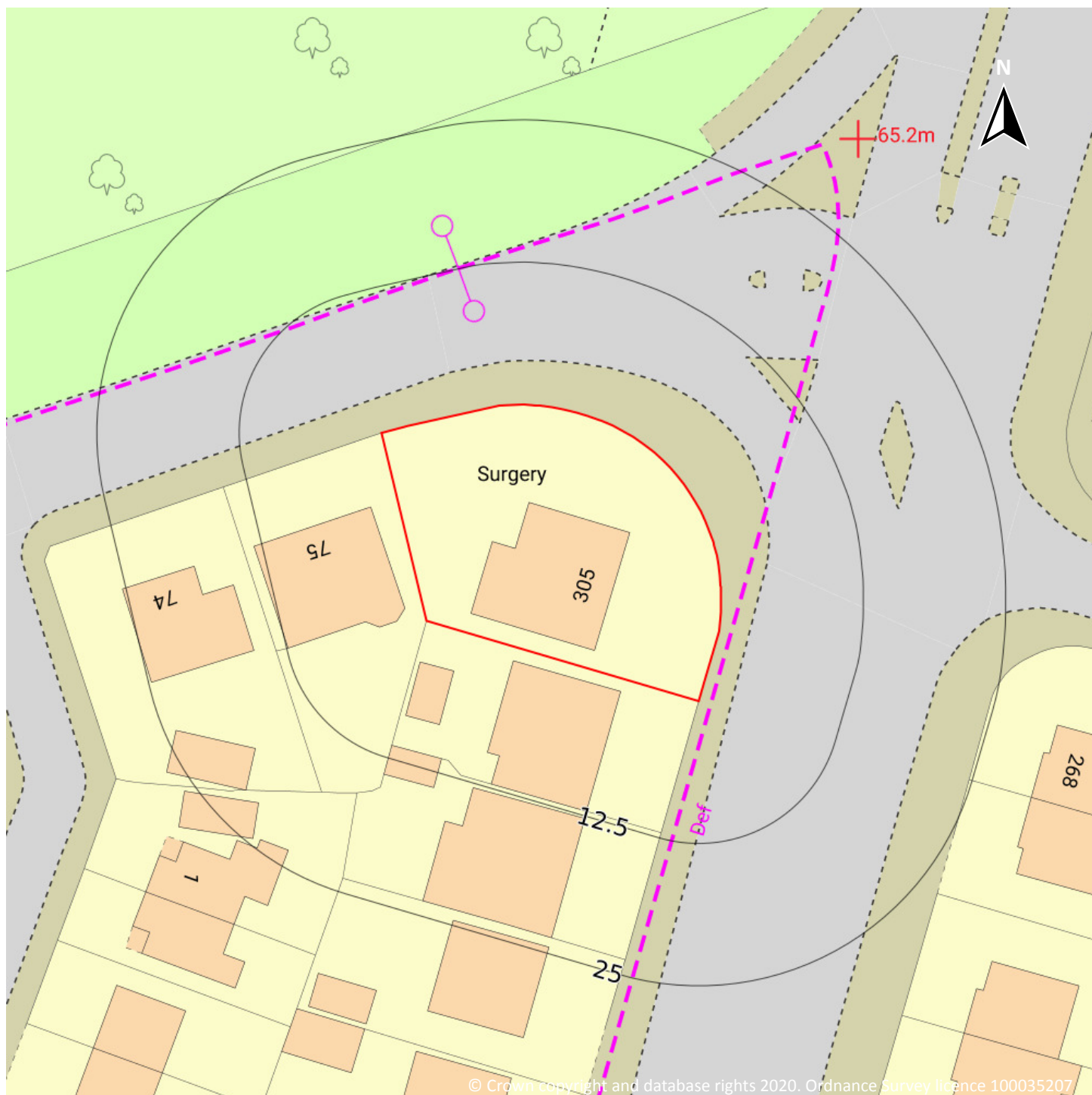
Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2020. All Rights Reserved.

Capture Date: 27/06/2000

Site Area: 0.05ha



OS MasterMap site plan



Site Area: 0.05ha



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

46

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 11**

ID	Location	Land use	Dates present	Group ID
B	87m S	Unspecified Works	1977	679101



ID	Location	Land use	Dates present	Group ID
B	95m S	Dye Works	1956 - 1968	714075
B	130m S	Dye Works	1932	713855
B	130m S	Dye Works	1915	725491
B	133m S	Dye Works	1891	754026
D	141m SE	Bleach Works	1938	770189
B	146m S	Dye Works	1923 - 1938	775291
B	149m S	Dye Works	1851	790791
B	168m SW	Chimney	1968 - 1977	740752
B	174m SW	Dye Works	1907	771718
D	186m SE	Unspecified Works	1977 - 1985	735563
D	186m SE	Bleach Works	1956 - 1968	759296
D	188m SE	Bleach Works	1915	722907
D	188m SE	Bleach Works	1932	783611
1	189m E	Cemetery	1968 - 1985	714224
E	216m E	Unspecified Pit	1907	740710
E	217m E	Unspecified Pit	1923	747468
D	217m SE	Unspecified Pit	1923	691259
D	225m SE	Bleach Works	1923	744229
E	227m E	Unspecified Ground Workings	1932	714645
E	227m E	Unspecified Ground Workings	1915	726392
D	242m SE	Chimney	1968	684320
B	251m SW	Refuse Heap	1977	742414
2	257m NE	Unspecified Pit	1956 - 1968	721704
B	266m SW	Refuse Heap	1956	741418
3	291m NE	Unspecified Ground Workings	1956 - 1968	718162
F	315m N	Tramway Sidings	1923	694616
F	315m N	Tramway Sidings	1938	751880
F	315m N	Tramway Sidings	1907 - 1915	780805



ID	Location	Land use	Dates present	Group ID
F	315m N	Tramway Sidings	1932	790582
G	325m N	Unspecified Ground Workings	1923	754528
G	334m N	Unspecified Ground Workings	1932	703542
G	341m N	Unspecified Ground Workings	1915	717388
G	346m N	Unspecified Pit	1968 - 1985	731131
H	354m S	Electricity Substation	1977 - 1985	778322
4	363m N	Unspecified Ground Workings	1956 - 1968	715923
5	385m NE	Sand Pit	1851	643973
I	385m NW	Timber Yard	1891	747280
G	405m N	Electricity Substation	1985	686439
6	423m W	Unspecified Ground Workings	1932	648329
I	429m NW	Timber Yard	1923	762089
K	466m SW	Railway Station	1956 - 1985	761469
K	468m SW	Railway Building	1938	670436
K	485m SW	Railway Building	1938	670437
7	498m E	Unspecified Ground Workings	1915	648263
8	499m SE	Cuttings	1915	642728

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

22

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 11**

ID	Location	Land use	Dates present	Group ID
C	132m S	Unspecified Tank	1951	98716



ID	Location	Land use	Dates present	Group ID
B	170m SW	Unspecified Tank	1951	89524
B	170m SW	Unspecified Tank	1971	92599
B	170m SW	Unspecified Tank	1951	98912
B	189m S	Tanks	1951 - 1971	103961
B	198m S	Tanks	1922 - 1932	102933
B	201m S	Tanks	1951 - 1971	90597
B	206m S	Unspecified Tank	1922	85071
B	211m SW	Unspecified Tank	1951	88779
B	212m SW	Unspecified Tank	1971	90656
B	212m SW	Unspecified Tank	1951	101397
D	246m SE	Unspecified Tank	1951	103566
D	250m SE	Unspecified Tank	1922 - 1932	92292
D	253m SE	Filter Tanks	1922	88228
D	257m SE	Unspecified Tank	1932 - 1951	97051
D	273m S	Tanks	1951	94186
D	285m S	Tanks	1987 - 1992	99037
D	286m S	Tanks	1971	98535
D	287m S	Tanks	1932	92607
D	297m SE	Tanks	1951	88722
D	298m SE	Tanks	1951	94849
D	302m SE	Tanks	1951	96119

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

20

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 11**

ID	Location	Land use	Dates present	Group ID
A	90m NE	Electricity Substation	1995	52860
A	91m NE	Electricity Substation	1951 - 1971	48096
A	91m NE	Electricity Substation	1951	46907
B	158m SW	Electricity Substation	1951	45770
B	159m SW	Electricity Substation	1951 - 1971	56869
B	189m S	Electricity Substation	1987 - 1992	54988
D	299m SE	Electricity Substation	1987	56941
D	299m SE	Electricity Transformer	1971	46562
D	300m SE	Electricity Substation	1992	54243
G	336m N	Electricity Substation	1951	51060
H	355m S	Electricity Substation	1971	54039
H	356m S	Electricity Substation	1987 - 1992	52014
G	395m N	Gas Meter House	1992	46460
G	404m N	Electricity Substation	1992	49393
G	405m N	Electricity Substation	1951	56157
G	406m N	Electricity Substation	1951 - 1974	52694
J	413m SE	Electricity Substation	1971 - 1992	52616
J	414m SE	Electricity Substation	1987	52366
L	489m SW	Electricity Substation	1994	59237
L	490m SW	Electricity Substation	1951	53998

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

5

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 11**

ID	Location	Land use	Dates present	Group ID
A	46m NE	Garage	1995	18753
A	51m NE	Garage	1971	15333
A	58m NE	Garage	1951	15833
C	94m S	Garage	1971 - 1995	18004
C	102m S	Garage	1987 - 1992	17856

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

63

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 17**

ID	Location	Land Use	Date	Group ID
B	87m S	Unspecified Works	1977	679101
B	95m S	Dye Works	1968	714075
B	95m S	Dye Works	1956	714075



ID	Location	Land Use	Date	Group ID
B	130m S	Dye Works	1932	713855
B	130m S	Dye Works	1915	725491
B	133m S	Dye Works	1891	754026
D	141m SE	Bleach Works	1938	770189
B	146m S	Dye Works	1938	775291
B	146m S	Dye Works	1923	775291
B	149m S	Dye Works	1851	790791
B	168m SW	Chimney	1977	740752
B	168m SW	Chimney	1968	740752
B	174m SW	Dye Works	1907	771718
D	186m SE	Unspecified Works	1985	735563
D	186m SE	Unspecified Works	1977	735563
D	186m SE	Bleach Works	1968	759296
D	186m SE	Bleach Works	1956	759296
D	188m SE	Bleach Works	1932	783611
D	188m SE	Bleach Works	1915	722907
E	189m E	Cemetery	1985	714224
E	189m E	Cemetery	1977	714224
E	189m E	Cemetery	1968	714224
F	216m E	Unspecified Pit	1907	740710
F	217m E	Unspecified Pit	1923	747468
D	217m SE	Unspecified Pit	1923	691259
D	225m SE	Bleach Works	1923	744229
F	227m E	Unspecified Ground Workings	1932	714645
F	227m E	Unspecified Ground Workings	1915	726392
D	242m SE	Chimney	1968	684320
B	251m SW	Refuse Heap	1977	742414
G	257m NE	Unspecified Pit	1968	721704



ID	Location	Land Use	Date	Group ID
G	257m NE	Unspecified Pit	1956	721704
B	266m SW	Refuse Heap	1956	741418
H	291m NE	Unspecified Ground Workings	1968	718162
H	291m NE	Unspecified Ground Workings	1956	718162
I	315m N	Tramway Sidings	1938	751880
I	315m N	Tramway Sidings	1923	694616
I	315m N	Tramway Sidings	1932	790582
I	315m N	Tramway Sidings	1915	780805
I	315m N	Tramway Sidings	1907	780805
J	325m N	Unspecified Ground Workings	1923	754528
J	334m N	Unspecified Ground Workings	1932	703542
J	341m N	Unspecified Ground Workings	1915	717388
J	346m N	Unspecified Pit	1985	731131
J	346m N	Unspecified Pit	1977	731131
J	346m N	Unspecified Pit	1968	731131
K	354m S	Electricity Substation	1985	778322
L	363m N	Unspecified Ground Workings	1968	715923
L	363m N	Unspecified Ground Workings	1956	715923
K	365m S	Electricity Substation	1977	778322
1	385m NE	Sand Pit	1851	643973
M	385m NW	Timber Yard	1891	747280
J	405m N	Electricity Substation	1985	686439
2	423m W	Unspecified Ground Workings	1932	648329
M	429m NW	Timber Yard	1923	762089
O	466m SW	Railway Station	1985	761469
O	466m SW	Railway Station	1977	761469
O	466m SW	Railway Station	1968	761469
O	466m SW	Railway Station	1956	761469



ID	Location	Land Use	Date	Group ID
O	468m SW	Railway Building	1938	670436
O	485m SW	Railway Building	1938	670437
3	498m E	Unspecified Ground Workings	1915	648263
4	499m SE	Cuttings	1915	642728

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	34
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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 17**

ID	Location	Land Use	Date	Group ID
C	132m S	Unspecified Tank	1951	98716
C	132m S	Unspecified Tank	1951	98716
B	170m SW	Unspecified Tank	1951	89524
B	170m SW	Unspecified Tank	1971	92599
B	170m SW	Unspecified Tank	1951	98912
B	189m S	Tanks	1971	103961
B	189m S	Tanks	1951	103961
B	189m S	Tanks	1951	103961
B	198m S	Tanks	1922	102933
B	198m S	Tanks	1932	102933
B	201m S	Tanks	1971	90597
B	201m S	Tanks	1951	90597
B	201m S	Tanks	1951	90597
B	206m S	Unspecified Tank	1922	85071
B	211m SW	Unspecified Tank	1951	88779
B	212m SW	Unspecified Tank	1971	90656



ID	Location	Land Use	Date	Group ID
B	212m SW	Unspecified Tank	1951	101397
D	246m SE	Unspecified Tank	1951	103566
D	246m SE	Unspecified Tank	1951	103566
D	250m SE	Unspecified Tank	1922	92292
D	250m SE	Unspecified Tank	1932	92292
D	253m SE	Filter Tanks	1922	88228
D	257m SE	Unspecified Tank	1951	97051
D	257m SE	Unspecified Tank	1932	97051
D	258m SE	Unspecified Tank	1951	97051
D	273m S	Tanks	1951	94186
D	273m S	Tanks	1951	94186
D	285m S	Tanks	1987	99037
D	286m S	Tanks	1971	98535
D	286m S	Tanks	1992	99037
D	287m S	Tanks	1932	92607
D	297m SE	Tanks	1951	88722
D	298m SE	Tanks	1951	94849
D	302m SE	Tanks	1951	96119

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

29

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 17**

ID	Location	Land Use	Date	Group ID
A	90m NE	Electricity Substation	1995	52860
A	90m NE	Electricity Substation	1995	52860



ID	Location	Land Use	Date	Group ID
A	91m NE	Electricity Substation	1971	48096
A	91m NE	Electricity Substation	1951	48096
A	91m NE	Electricity Substation	1951	46907
B	158m SW	Electricity Substation	1951	45770
B	159m SW	Electricity Substation	1971	56869
B	159m SW	Electricity Substation	1951	56869
B	189m S	Electricity Substation	1992	54988
B	190m S	Electricity Substation	1987	54988
D	299m SE	Electricity Substation	1987	56941
D	299m SE	Electricity Transformer	1971	46562
D	300m SE	Electricity Substation	1992	54243
J	336m N	Electricity Substation	1951	51060
J	337m N	Electricity Substation	1951	51060
K	355m S	Electricity Substation	1971	54039
K	356m S	Electricity Substation	1992	52014
K	356m S	Electricity Substation	1987	52014
J	395m N	Gas Meter House	1992	46460
J	404m N	Electricity Substation	1992	49393
J	405m N	Electricity Substation	1951	56157
J	406m N	Electricity Substation	1974	52694
J	406m N	Electricity Substation	1951	52694
N	413m SE	Electricity Substation	1992	52616
N	414m SE	Electricity Substation	1987	52366
N	414m SE	Electricity Substation	1971	52616
P	489m SW	Electricity Substation	1994	59237
P	490m SW	Electricity Substation	1951	53998
P	490m SW	Electricity Substation	1951	53998

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

10

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 17**

ID	Location	Land Use	Date	Group ID
A	46m NE	Garage	1995	18753
A	46m NE	Garage	1995	18753
A	51m NE	Garage	1971	15333
A	58m NE	Garage	1951	15833
C	94m S	Garage	1995	18004
C	94m S	Garage	1995	18004
C	94m S	Garage	1971	18004
C	102m S	Garage	1971	18004
C	102m S	Garage	1992	17856
C	103m S	Garage	1987	17856

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- 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**0**

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.

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

3.5 Historical waste sites

Records within 500m**0**

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

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

3.6 Licensed waste sites

Records within 500m**0**

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

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

3.7 Waste exemptions

Records within 500m**1**

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 24**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	95m S	248 Middleton Road MANCHESTER M8 4WA	EPR/MF0603U K/A001	Treating waste exemption	Non- Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal



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

5

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 27**

ID	Location	Company	Address	Activity	Category
1	48m NE	Electricity Sub Station	Greater Manchester, M8	Electrical Features	Infrastructure and Facilities
2	101m S	Rand Freight Forwarders & Shipping	250, Middleton Road, Manchester, Greater Manchester, M8 4WA	Distribution and Haulage	Transport, Storage and Delivery



ID	Location	Company	Address	Activity	Category
A	111m S	Shell Service Station	Middleton Road, Manchester, Greater Manchester, M8 4LY	Petrol and Fuel Stations	Road and Rail
C	188m S	Electricity Sub Station	Greater Manchester, M25	Electrical Features	Infrastructure and Facilities
3	241m S	Billy's Mini Bus	11, Southbrook Avenue, Manchester, Greater Manchester, M8 4NH	Vehicle Hire and Rental	Hire Services

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m **2**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 27**

ID	Location	Company	Address	LPG	Status
A	131m S	SHELL	Middleton Road, Crumpsall, Manchester, Greater Manchester, M8 4LY	No	Open
B	171m SE	OBSOLETE	Middleton Road, Crumpsall, Manchester, Greater Manchester, M8 4NB	Not Applicable	Obsolete

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**

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**

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**

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**

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**

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

2

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 27**

ID	Location	Address	Details	
A	112m S	BP, Middleton Road, M8 4LY	Process: Petrol Vapour Recovery Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
A	112m S	Crumpsall Service Station, Middleton Road, Crumpsall, M8 6LY	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

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

16

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 27**



ID	Location	Address	Details	
D	255m S	KENDALL ROAD BLACKLEY CSO, 17 KENFALL ROAD, BLACKLEY, MANCHESTER, GREATER MANCHESTER, M8 4WD	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982987 Permit Version: 1 Receiving Water: RIVER IRK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 25/09/1995 Revocation Date: 12/11/2019
D	257m S	KENDALL ROAD BLACKLEY CSO, 17 KENFALL ROAD, BLACKLEY, MANCHESTER, GREATER MANCHESTER, M8 4WD	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982987 Permit Version: 2 Receiving Water: RIVER IRK VIA BIRCH BROOK CLVR	Status: VARIED UNDER EPR 2010 Issue date: 13/11/2019 Effective Date: 13/11/2019 Revocation Date: -
4	358m S	MIDDLETON RD, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0346 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: -
E	378m S	SOUTH OF BLACKLEY NEW ROAD CSO, 80M SOUTH OF 244 BLACKLEY NEW RD, MANCHESTER, GREATER MANCHESTER, M8 4PT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0111 Permit Version: 3 Receiving Water: RIVER IRK	Status: VARIED UNDER EPR 2010 Issue date: 05/02/2016 Effective Date: 05/02/2016 Revocation Date: 24/06/2018
E	378m S	SOUTH OF BLACKLEY NEW ROAD CSO, 80M SOUTH OF 244 BLACKLEY NEW RD, MANCHESTER, GREATER MANCHESTER, M8 4PT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0111 Permit Version: 4 Receiving Water: RIVER IRK	Status: VARIED UNDER EPR 2010 Issue date: 25/06/2018 Effective Date: 25/06/2018 Revocation Date: -
E	384m S	SOUTH OF BLACKLEY NEW ROAD CSO, 80M SOUTH OF 244 BLACKLEY NEW RD, MANCHESTER, GREATER MANCHESTER, M8 4PT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982986 Permit Version: 1 Receiving Water: RIVER IRK	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: 22/06/1995 Effective Date: 22/06/1995 Revocation Date: 05/06/2005
E	384m S	SOUTH OF BLACKLEY NEW ROAD CSO, 80M SOUTH OF 244 BLACKLEY NEW RD, MANCHESTER, GREATER MANCHESTER, M8 4PT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0110 Permit Version: 1 Receiving Water: RIVER IRK	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: 01/01/1995 Effective Date: 01/01/1995 Revocation Date: 07/08/2005



ID	Location	Address	Details	
E	384m S	SOUTH OF BLACKLEY NEW ROAD CSO, 80M SOUTH OF 244 BLACKLEY NEW RD, MANCHESTER, GREATER MANCHESTER, M8 4PT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0110 Permit Version: 2 Receiving Water: RIVER IRK	Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 08/08/2005 Effective Date: 08/08/2005 Revocation Date: 22/10/2019
E	389m S	SOUTH OF BLACKLEY NEW ROAD CSO, 80M SOUTH OF 244 BLACKLEY NEW RD, MANCHESTER, GREATER MANCHESTER, M8 4PT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016993799 Permit Version: 1 Receiving Water: RIVER IRK	Status: VARIED UNDER EPR 2010 Issue date: 23/10/2019 Effective Date: 23/10/2019 Revocation Date: -
F	393m NE	MIDDLETON ROAD/VICTORIA AVENUE CSO, ACORNS, MIDDLETON ROAD, MANCHESTER, GREATER MANCHESTER, M8 4NB	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0096 Permit Version: 4 Receiving Water: RIVER IRK	Status: VARIED UNDER EPR 2010 Issue date: 22/03/2016 Effective Date: 22/03/2016 Revocation Date: 22/10/2019
F	393m NE	MIDDLETON ROAD/VICTORIA AVENUE CSO, ACORNS, MIDDLETON ROAD, MANCHESTER, GREATER MANCHESTER, M8 4NB	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0096 Permit Version: 5 Receiving Water: TRIBUTARY OF RIVER IRK	Status: VARIED UNDER EPR 2010 Issue date: 23/10/2019 Effective Date: 23/10/2019 Revocation Date: -
H	457m N	MIDDLETON ROAD/VICTORIA AVENUE CSO, ACORNS, MIDDLETON ROAD, MANCHESTER, GREATER MANCHESTER, M8 4NB	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0096 Permit Version: 1 Receiving Water: RIVER IRK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: 13/04/2009
H	457m N	MIDDLETON ROAD/VICTORIA AVENUE CSO, ACORNS, MIDDLETON ROAD, MANCHESTER, GREATER MANCHESTER, M8 4NB	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0096 Permit Version: 2 Receiving Water: RIVER IRK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 14/04/2009 Effective Date: 14/04/2009 Revocation Date: 02/09/2010
H	457m N	MIDDLETON ROAD/VICTORIA AVENUE CSO, ACORNS, MIDDLETON ROAD, MANCHESTER, GREATER MANCHESTER, M8 4NB	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0096 Permit Version: 3 Receiving Water: RIVER IRK	Status: VARIED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 21/03/2016



ID	Location	Address	Details	
I	476m S	SOUTH OF BLACKLEY NEW ROAD CSO, 80M SOUTH OF 244 BLACKLEY NEW RD, MANCHESTER, GREATER MANCHESTER, M8 4PT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0111 Permit Version: 1 Receiving Water: RIVER IRK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: 02/09/2010
I	476m S	SOUTH OF BLACKLEY NEW ROAD CSO, 80M SOUTH OF 244 BLACKLEY NEW RD, MANCHESTER, GREATER MANCHESTER, M8 4PT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0111 Permit Version: 2 Receiving Water: RIVER IRK	Status: VARIED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 04/02/2016

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

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

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

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

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

5

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 27**

ID	Location	Details	
B	188m E	Incident Date: 23/09/2003 Incident Identification: 192051 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	201m S	Incident Date: 13/08/2003 Incident Identification: 182352 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
G	427m S	Incident Date: 08/04/2003 Incident Identification: 149572 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
G	427m S	Incident Date: 09/04/2003 Incident Identification: 149613 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
G	427m S	Incident Date: 10/04/2003 Incident Identification: 150178 Pollutant: Sewage Materials Pollutant Description: Final 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 Geology (basic)

5.1 Superficial geology (625k)

Records within 500m

2

Generalised geology data based on BGS's published poster maps of the UK (North and South). Superficial related themes digitised from 1977 first edition Quaternary map (North and South).

Location	Lex code	Description	Rock type
On site	GSG-SAGR	GLACIAL SAND AND GRAVEL	SAND AND GRAVEL
425m SE	TILL-DMTN	TILL	DIAMICTON

This data is sourced from the British Geological Survey.

5.2 Bedrock geology (625k)

Records within 500m

1

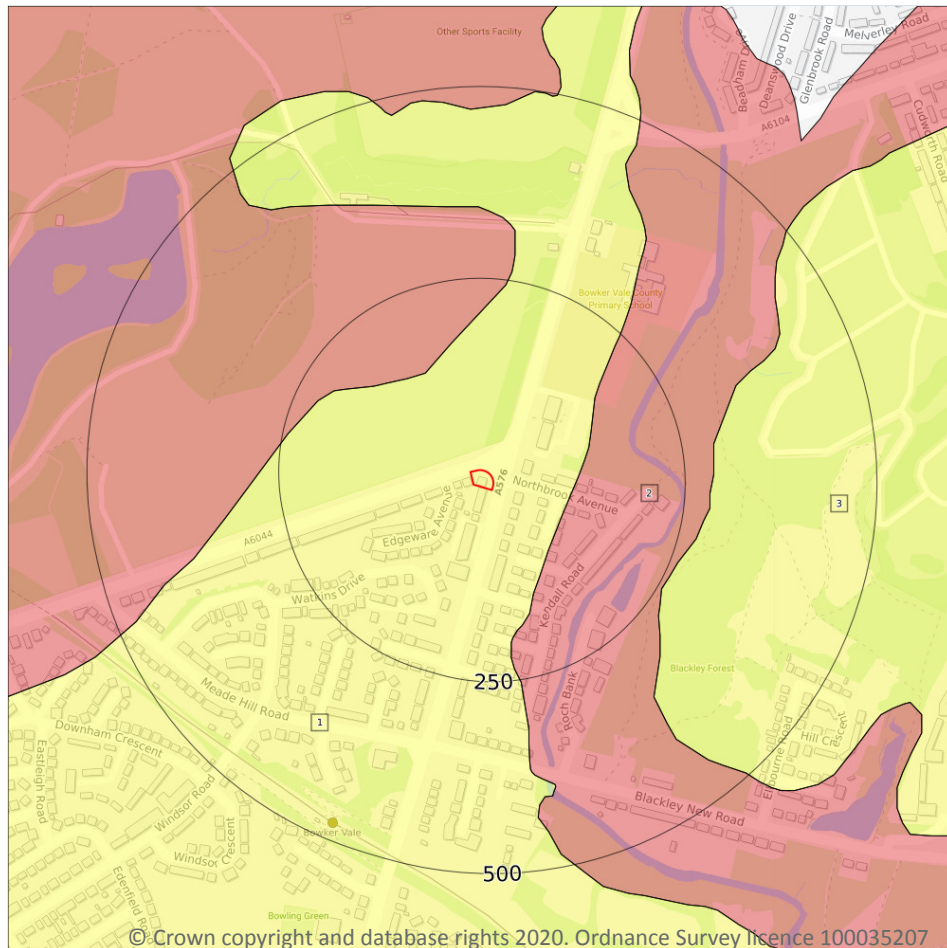
Generalised geology data based on BGS's published poster maps of the UK (North and South). Bedrock related themes created through generalisation of 1:50,000 data.

Location	Lex code	Description	Rock type
On site	TRIA-SCON	TRIASSIC ROCKS (UNDIFFERENTIATED)	SANDSTONE AND CONGLOMERATE, INTERBEDDED

This data is sourced from the British Geological Survey.



6 Hydrogeology - Superficial aquifer



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

6.1 Superficial aquifer

Records within 500m

3

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 37**

ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	97m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

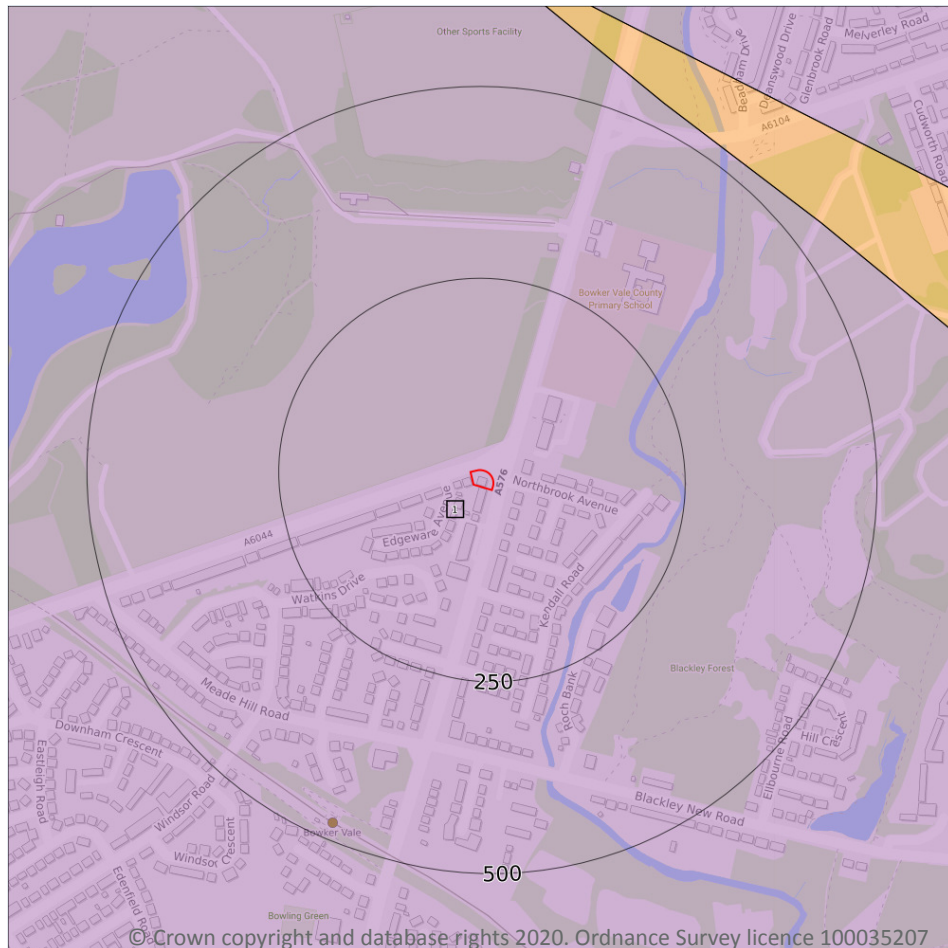


ID	Location	Designation	Description
3	256m SE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics 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

6.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

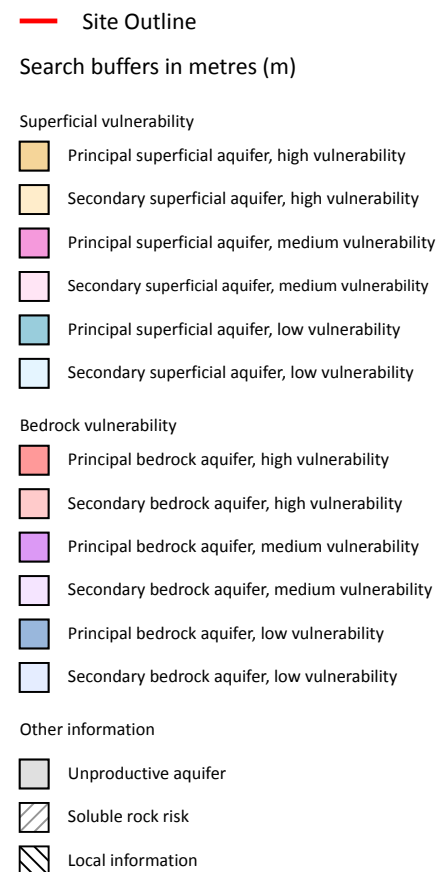
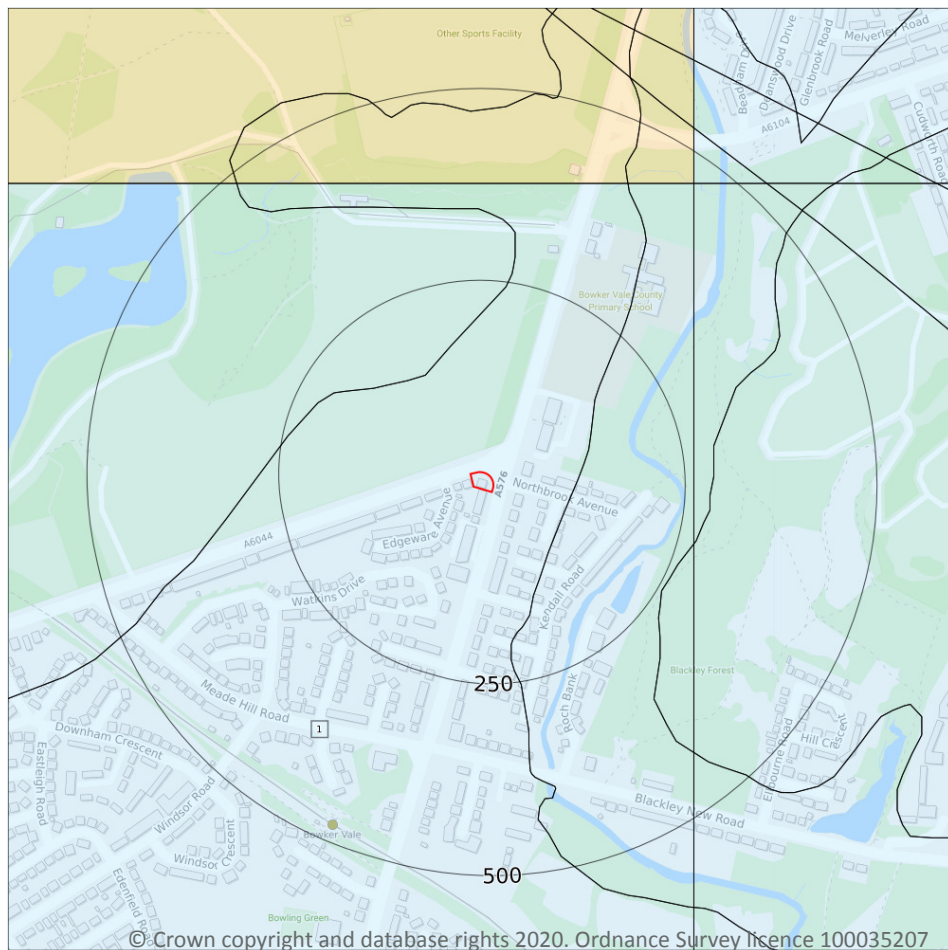
Features are displayed on the Bedrock aquifer map on **page 39**

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



6.3 Groundwater vulnerability

Records within 50m

1

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 40**

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

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

6.4 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.

6.5 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)

6.6 Groundwater abstractions

Records within 2000m

8

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 42**

ID	Location	Details	
-	1063m SE	Status: Historical Licence No: 2569005044 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: 2 BOREHOLES AT BLACKLEY, MANCHESTER 121 Data Type: Point Name: BELDEN (UK) LTD Easting: 384610 Northing: 402990	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 03/04/2000 Version End Date: -
-	1063m SE	Status: Historical Licence No: 2569005044 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "2 BOREHOLES AT BLACKLEY, MANCHESTER \$121" Data Type: Point Name: BELDEN (UK) LTD Easting: 384610 Northing: 402990	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/01/1966 Expiry Date: - Issue No: 103 Version Start Date: 16/11/2001 Version End Date: -
-	1063m SE	Status: Historical Licence No: 2569005044 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: 2 BOREHOLES AT BLACKLEY, MANCHESTER \$121 Data Type: Point Name: BELDEN (UK) LTD Easting: 384610 Northing: 402990	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/01/1966 Expiry Date: - Issue No: 103 Version Start Date: 16/11/2001 Version End Date: -
-	1063m SE	Status: Active Licence No: 2569005044 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLES X 2 AT BLACKLEY MANCHESTER Data Type: Point Name: British Cables Company Limited Easting: 384610 Northing: 402990	Annual Volume (m ³): 477,271 Max Daily Volume (m ³): 1,363 Original Application No: - Original Start Date: 22/01/1966 Expiry Date: - Issue No: 106 Version Start Date: 11/10/2018 Version End Date: -



ID	Location	Details	
-	1322m SE	Status: Historical Licence No: 2569005044 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "2 BOREHOLES AT BLACKLEY, MANCHESTER" Data Type: Point Name: BELDEN (UK) LTD Easting: 384890 Northing: 402950	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/01/1966 Expiry Date: - Issue No: 103 Version Start Date: 16/11/2001 Version End Date: -
-	1322m SE	Status: Active Licence No: 2569005044 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: 2 BOREHOLES AT BLACKLEY, MANCHESTER Data Type: Point Name: British Cables Company Limited Easting: 384890 Northing: 402950	Annual Volume (m ³): 477,271 Max Daily Volume (m ³): 1,363 Original Application No: - Original Start Date: 22/01/1966 Expiry Date: - Issue No: 106 Version Start Date: 11/10/2018 Version End Date: -
-	1443m SE	Status: Historical Licence No: 2569005012 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT BLACKLEY, MANCHESTER" Data Type: Point Name: AVECIA LTD Easting: 385000 Northing: 402900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1994 Expiry Date: - Issue No: 101 Version Start Date: 01/07/1999 Version End Date: -
-	1443m SE	Status: Historical Licence No: 2569005012 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT BLACKLEY, MANCHESTER Data Type: Point Name: AVECIA LTD Easting: 385000 Northing: 402900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1994 Expiry Date: - Issue No: 101 Version Start Date: 01/07/1999 Version End Date: -

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



6.7 Surface water abstractions

Records within 2000m**0**

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.

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

6.8 Potable abstractions

Records within 2000m**0**

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.

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

6.9 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.

6.10 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.

7 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

7.1 Water Network (OS MasterMap)

Records within 250m

1

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 46**

ID	Location	Type of water feature	Ground level	Permanence	Name
2	187m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Irk

This data is sourced from the Ordnance Survey.



7.2 Surface water features

Records within 250m

2

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 46**

This data is sourced from the Ordnance Survey.

7.3 WFD Surface water body catchments

Records on site

1

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 46**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River WB catchment	Irk (Wince to Irwell)	GB112069061131	Roch Irk Medlock	Irwell

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

7.4 WFD Surface water bodies

Records identified

1

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 46**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
3	187m SE	River	Irk (Wince to Irwell)	GB112069061131	Moderate	Good	Moderate	2016



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

7.5 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.

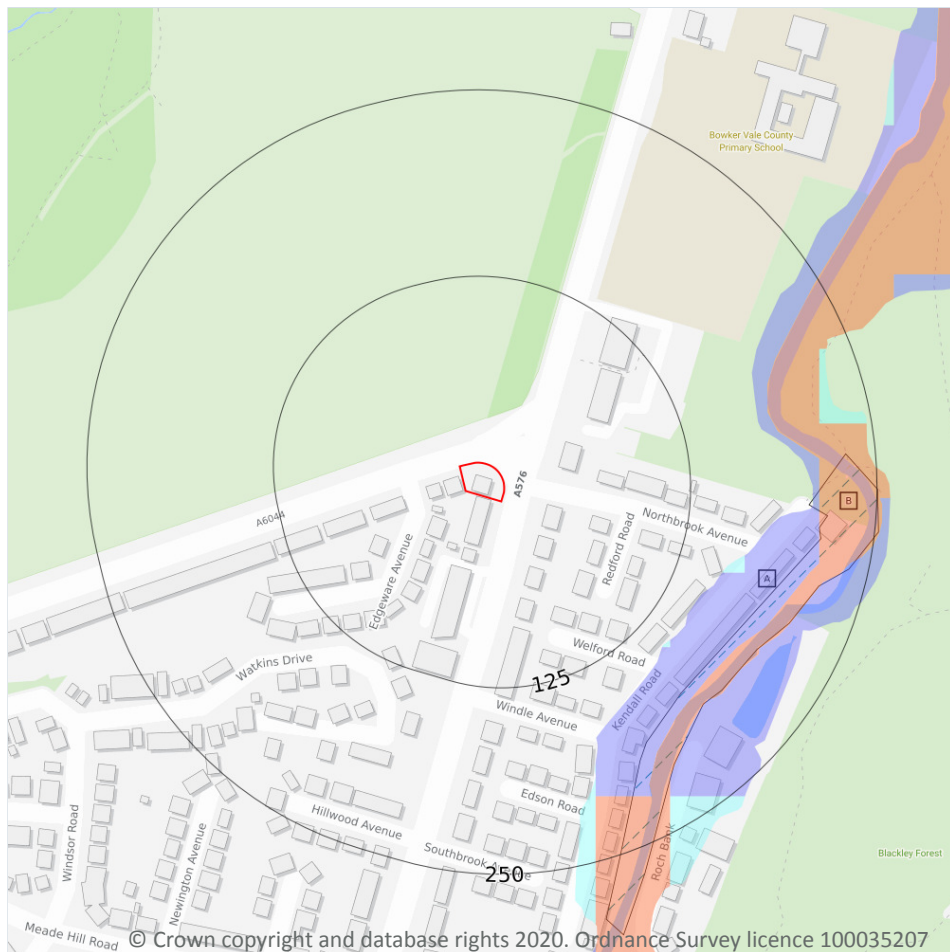
Features are displayed on the Hydrology map on **page 46**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	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.



8 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

8.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m

0

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).

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

8.2 Historical Flood Events

Records within 250m

2

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 49**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
B	176m SE	Higher Blackley	2015-12-26 2015-12-26	Main river	Channel capacity exceeded (no raised defences)	Fluvial
A	184m E	Ea01326_21 January 2008_River Irk_Crumpsall	2008-01-21 2008-01-22	Main river	Unknown	Fluvial

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

8.3 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.

8.4 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.



8.5 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

8.6 Flood Zone 2

Records within 50m

0

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.

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

8.7 Flood Zone 3

Records within 50m

0

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.

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



9 Surface water flooding

9.1 Surface water flooding

Highest risk on site**Negligible****Highest risk within 50m****Negligible**

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.

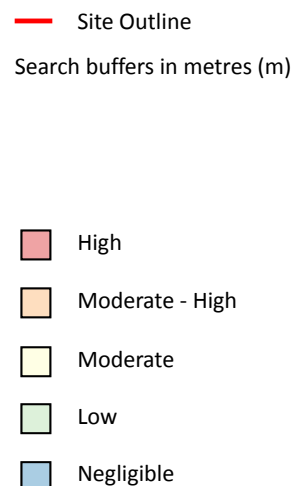
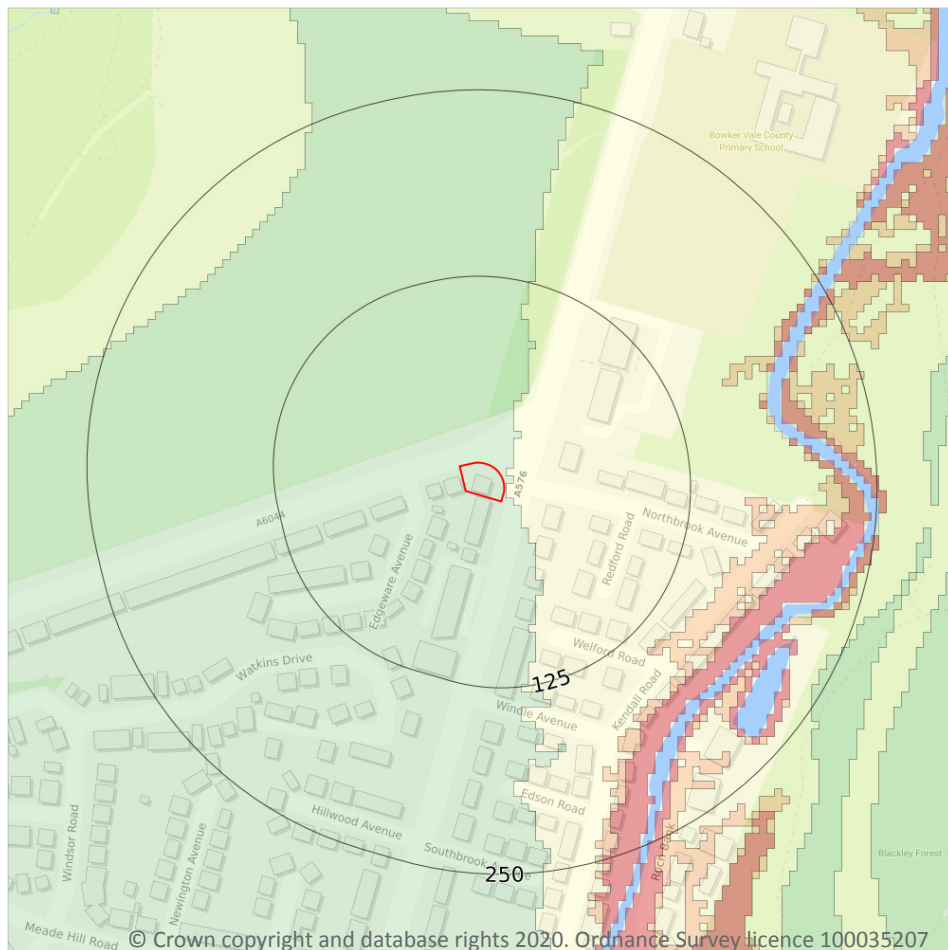
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the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

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.



10 Groundwater flooding



10.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

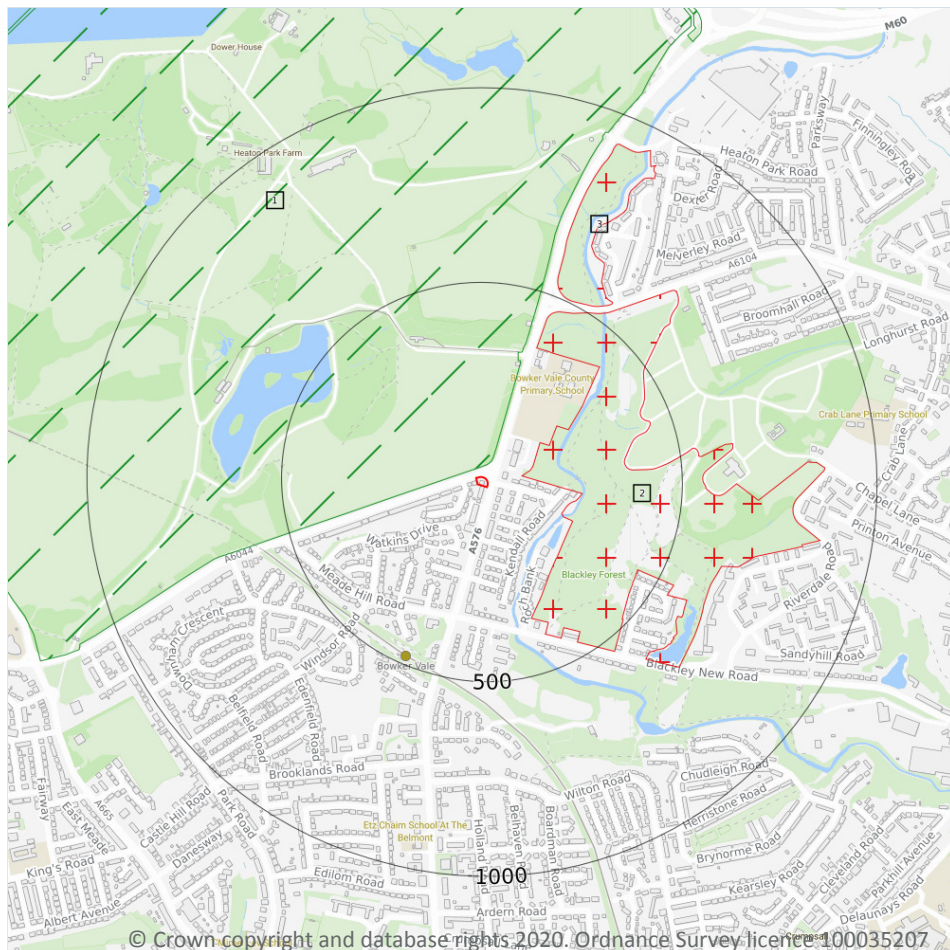
Moderate

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 54**

This data is sourced from Ambiantal Risk Analytics.

11 Environmental designations



- Site Outline
- Search buffers in metres (m)
- + Local Nature Reserves (LNR)
- / Green Belt

11.1 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.

11.2 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.

11.3 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.

11.4 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.

11.5 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.

11.6 Local Nature Reserves (LNR)

Records within 2000m

2

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.

Features are displayed on the Environmental designations map on **page 55**

ID	Location	Name	Data source
2	90m E	Blackley Forest	Natural England
3	506m NE	Blackley Forest	Natural England

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

11.7 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.

11.8 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.

11.9 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.



11.10 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.

11.11 Green Belt

Records within 2000m

3

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

Features are displayed on the Environmental designations map on **page 55**

ID	Location	Name	Local Authority name
1	23m N	Liverpool and Manchester	Manchester
4	1242m NE	Liverpool and Manchester	Bury
-	1523m NW	Liverpool and Manchester	Bury

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

11.12 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.

11.13 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.



11.14 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.

11.15 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.

11.16 Nitrate Vulnerable Zones

Records within 2000m**3**

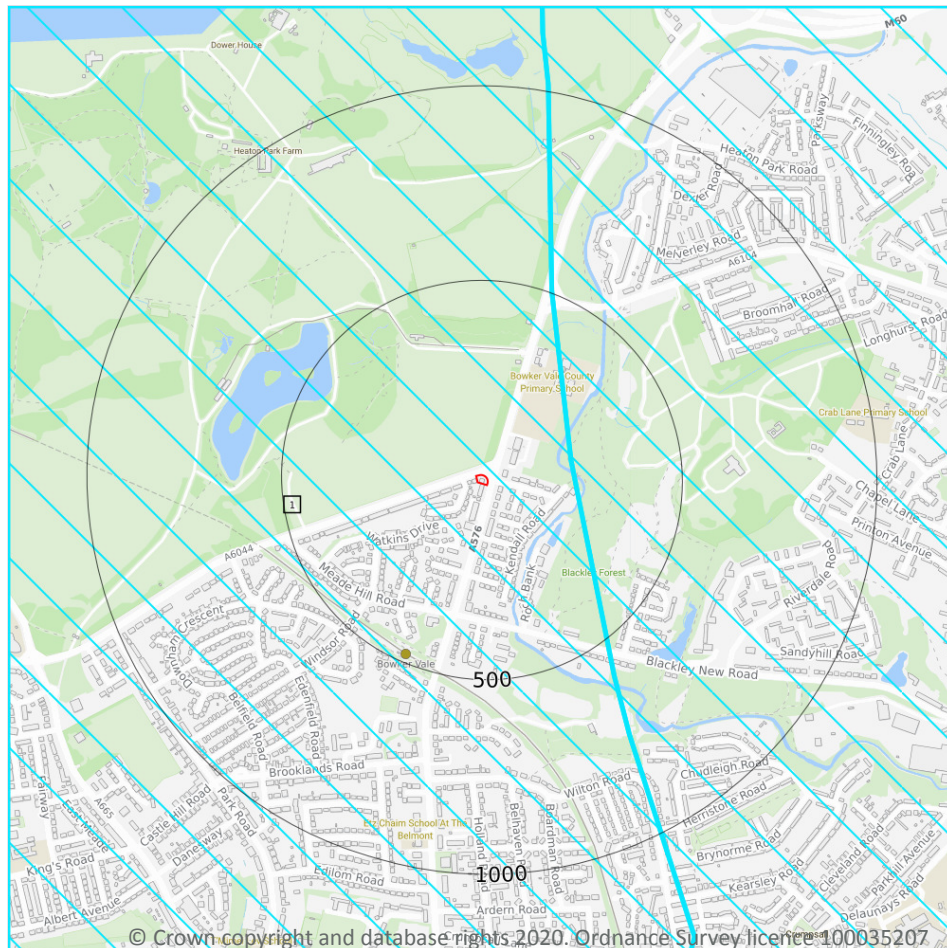
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	S638	Existing
353m E	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	S638	Existing
932m W	Irwell / Man. Ship Canal (Kearsley to Irlam Locks) NVZ	Surface Water	S643	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

11.17 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 60**

ID	Location	Type of developments requiring consultation
1	On site	Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 4000m². 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.

11.18 SSSI Units

Records within 2000m

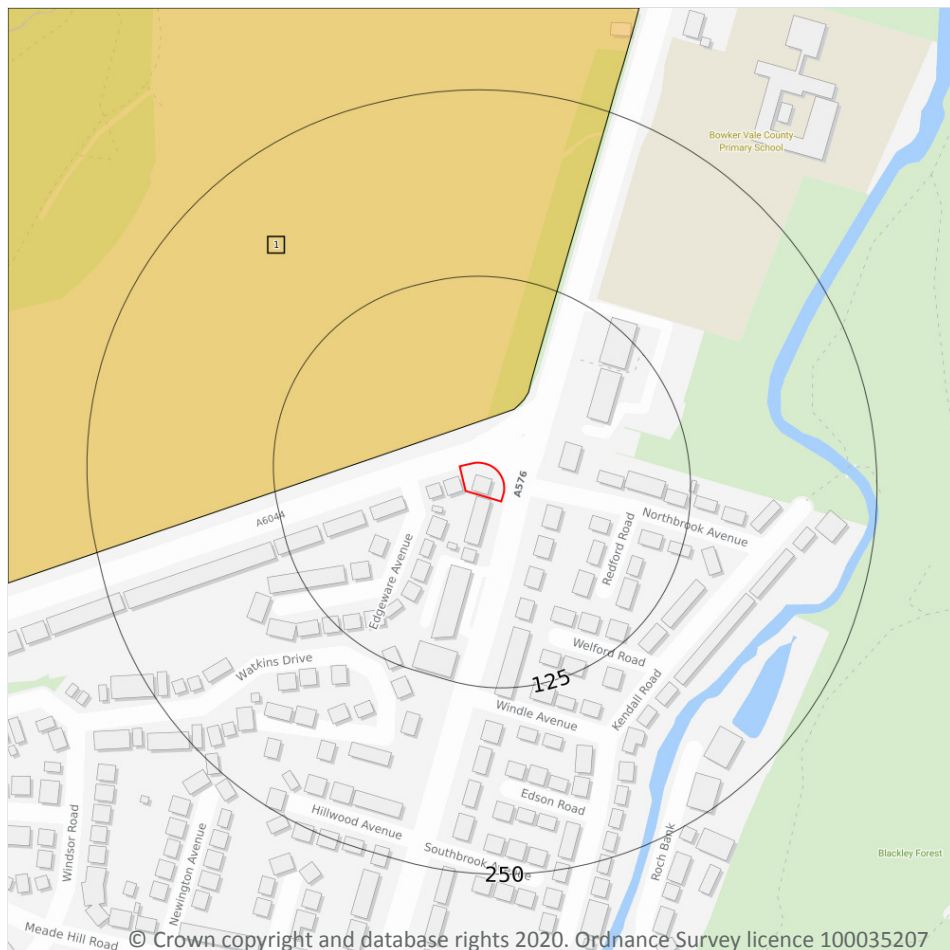
0

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.



12 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

12.1 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.

12.2 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.

12.3 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.

12.4 Listed Buildings

Records within 250m**0**

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.

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

12.5 Conservation Areas

Records within 250m**0**

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.



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

12.6 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.

12.7 Registered Parks and Gardens

Records within 250m

1

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.

Features are displayed on the Visual and cultural designations map on **page 62**

ID	Location	Name	Grade
1	24m N	Heaton Park	II

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



13 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

13.1 Agricultural Land Classification

Records within 250m

2

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 65**

ID	Location	Classification	Description
1	On site	Urban	-
2	204m N	Non Agricultural	-

This data is sourced from Natural England.



13.2 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.

13.3 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.

13.4 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.

13.5 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.

14 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

14.1 Priority Habitat Inventory

Records within 250m

3

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

Features are displayed on the Habitat designations map on **page 67**

ID	Location	Main Habitat	Other habitats
1	30m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	46m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	215m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.



14.2 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.

14.3 Open Mosaic Habitat

Records within 250m

0

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.

This data is sourced from Natural England.

14.4 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.



Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference>.

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