

Phase 1 Geo-Environmental Desk Study
Land off Hyde Road

APPENDIX A

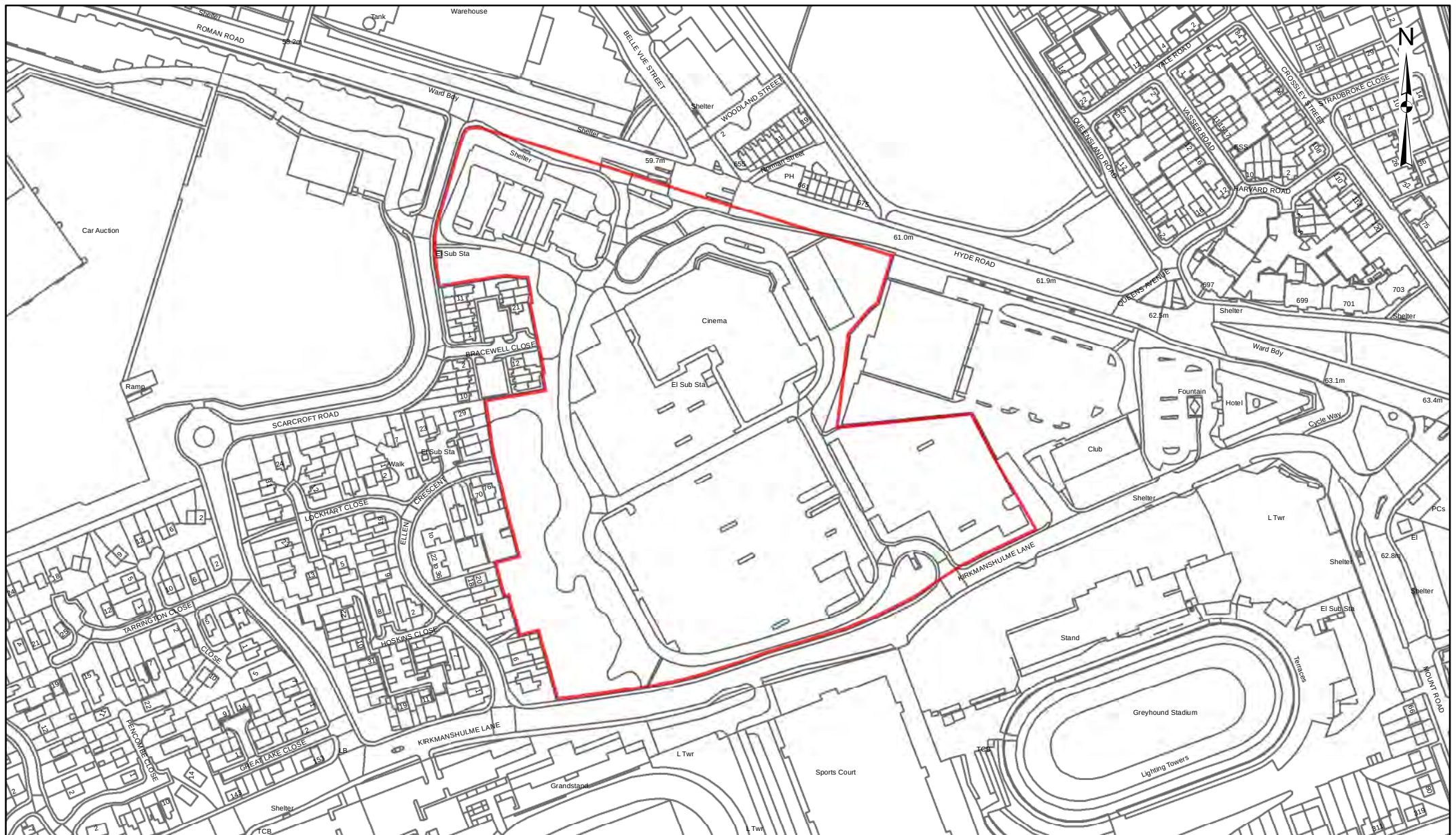
Arcadis Study Limitations

IMPORTANT: This section should be read before reliance is placed on any of the information, opinions, advice, recommendations or conclusions contained in this report.

1. This report has been prepared by Arcadis UK Ltd (Arcadis), with all reasonable skill, care and diligence within the terms of the Appointment and with the resources and manpower agreed with **Manchester City Council** (the 'Client'). Arcadis does not accept responsibility for any matters outside the agreed scope.
2. This report has been prepared for the sole benefit of the Client unless agreed otherwise in writing.
3. Unless stated otherwise, no consultations with authorities or funders or other interested third parties have been carried out. Arcadis are unable to give categorical assurance that the findings will be accepted by these third parties as such bodies may have unpublished, more stringent objectives. Further work may be required by these parties.
4. All work carried out in preparing this report has used, and is based on, Arcadis' professional knowledge and understanding of current relevant legislation. Changes in legislation or regulatory guidance may cause the opinion or advice contained in this report to become inappropriate or incorrect. In giving opinions and advice, pending changes in legislation, of which Arcadis is aware, have been considered. Following delivery of the report, Arcadis have no obligation to advise the Client or any other party of such changes or their repercussions.
5. This report is only valid when used in its entirety. Any information or advice included in the report should not be relied upon until considered in the context of the whole report.
6. Whilst this report and the opinions made are correct to the best of Arcadis' belief, Arcadis cannot guarantee the accuracy or completeness of any information provided by third parties.
7. This report has been prepared based on the information reasonably available during the project programme. All information relevant to the scope may not have been received.
8. This report refers, within the limitations stated, to the condition of the site at the time of the inspections. No warranty is given as to the possibility of changes in the condition of the site since the time of the investigation.
9. The content of this report represents the professional opinion of experienced environmental consultants. Arcadis does not provide specialist legal or other professional advice. The advice of other professionals may be required.
10. Where intrusive investigation techniques have been employed, they have been designed to provide a reasonable level of assurance on the conditions. Given the discrete nature of sampling, no investigation technique is capable of identifying all conditions present in all areas. In some cases, the investigation is further limited by site operations, underground obstructions and above ground structures. Unless otherwise stated, areas beyond the boundary of the site have not been investigated.
11. If below ground intrusive investigations have been conducted as part of the scope, service tracing for safe location of exploratory holes has been carried out. The location of underground services shown on any drawing in this report has been determined by visual observations and electromagnetic techniques. No guarantee can be given that all services have been identified. Additional services, structures or other below ground obstructions, not indicated on the drawing, may be present on Site.
12. Unless otherwise stated the report provides no comment on the nature of building materials, operational integrity of the facility or on any regulatory compliance issue.

APPENDIX B

Figures & Drawings



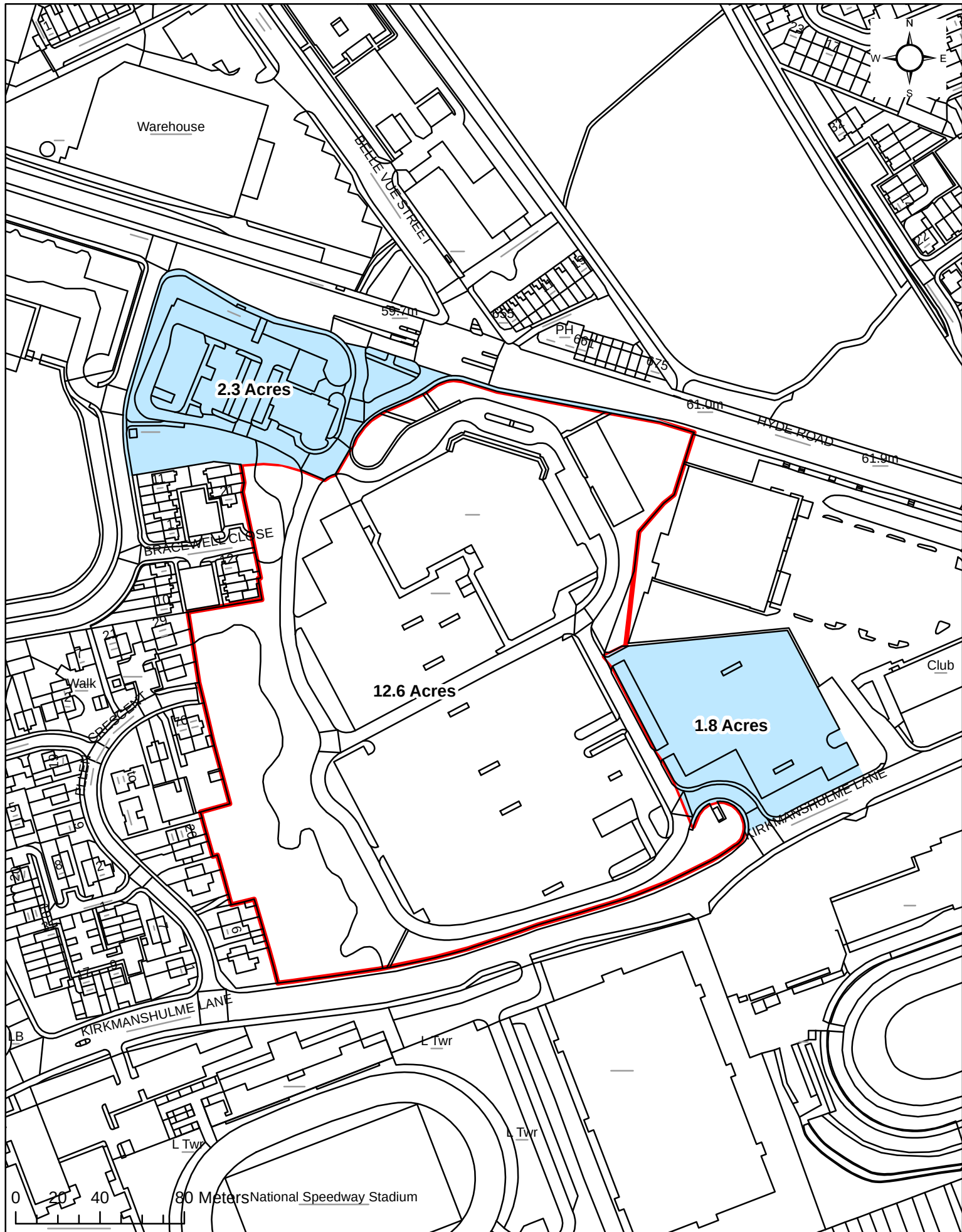
A4 Scale 1:3,000

PLAN FOR IDENTIFICATION PURPOSES ONLY

Development Team
Growth & Development Directorate
P.O. Box 532
Manchester M60 2LA



MANCHESTER
CITY COUNCIL



1:2,250

**PLAN FOR IDENTIFICATION
PURPOSES ONLY**

Corporate Estates Records Team
Strategic Development Directorate
P.O. Box 532
Manchester M60 2LA





Legend

Key

Site Boundary

Proposed Cable Percussion Borehole

Proposed Window Sample Borehole

Gas

Electric

UU

BT

Virgin

NOTES / DISCLAIMER:

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All entities shown on this drawing are to be regarded as approximate and are indicative only. No measurements taken from this drawing should be used for the location of intrusive investigation works on site. Symbols for boreholes, trial pits and other specific features are representations of location only and unless otherwise specified, do not represent the true size of the feature. - contact Arcadis UK in case of any query.

Title:

Proposed Exploratory Hole Location Plan

Site:

Hyde Road, Manchester

Client:

Manchester City Council

Project:

10041634

Date: 22/06/2020

Drawn By: EY

DRG No: 10041634-ARC-XX-XX-DR-0003-P1-BHPlan

Scale at A3 Page Size: 1:2,50

ARCADIS

Design & Consultancy
for natural and
built assets

APPENDIX C

Site Walkover Photo Log

CLIENT:	Manchester City Council	DATE:	19/06/2020	 ARCADIS Design & Consulting for natural and built assets	
REFERENCE:	10041634	SITE NAME:	Hyde Road	3 rd Floor, Charter House 62-68 Hills Road, Cambridge, CB2 1LA, UK	T: 01223 935011
Plate 1 – View to the east of Showcase Cinema Entrance.					
Plate 2 – View to the south of access road off Hyde Road and barrier gates.					

CLIENT:	Manchester City Council	DATE:	19/06/2020	 ARCADIS Design & Consultancy for natural and built assets
REFERENCE:	10041634	SITE NAME:	Hyde Road	3 rd Floor, Charter House 62-68 Hills Road, Cambridge, CB2 1LA, UK T: 01223 935011
Plate 3 – View to the south of access road to cinema car parking with height restriction barrier of 2.1m.				
Plate 4 – Northwest plot. View to the south. Grassed area is the location of recently demolished building.				

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REFERENCE:	10041634	SITE NAME:	Hyde Road	3 rd Floor, Charter House 62-68 Hills Road, Cambridge, CB2 1LA, UK T: 01223 935011	
Plate 5 – Northwest plot. Car parking area in northwest plot. View to the west.					
Plate 6 – Northwest plot. Uneven ground surface from remains of demolished building on northwest plot.					

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3rd Floor, Charter House
62-68 Hills Road,
Cambridge, CB2 1LA, UK

T: 01223 935011

Plate 7 –

View to the east.
Bollards preventing
vehicular access to
northwest plot.



Plate 8 –

View to northeast of
access to north side of
cinema building.



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REFERENCE:	10041634	SITE NAME:	Hyde Road	
				3 rd Floor, Charter House 62-68 Hills Road, Cambridge, CB2 1LA, UK T: 01223 935011

Plate 9 –

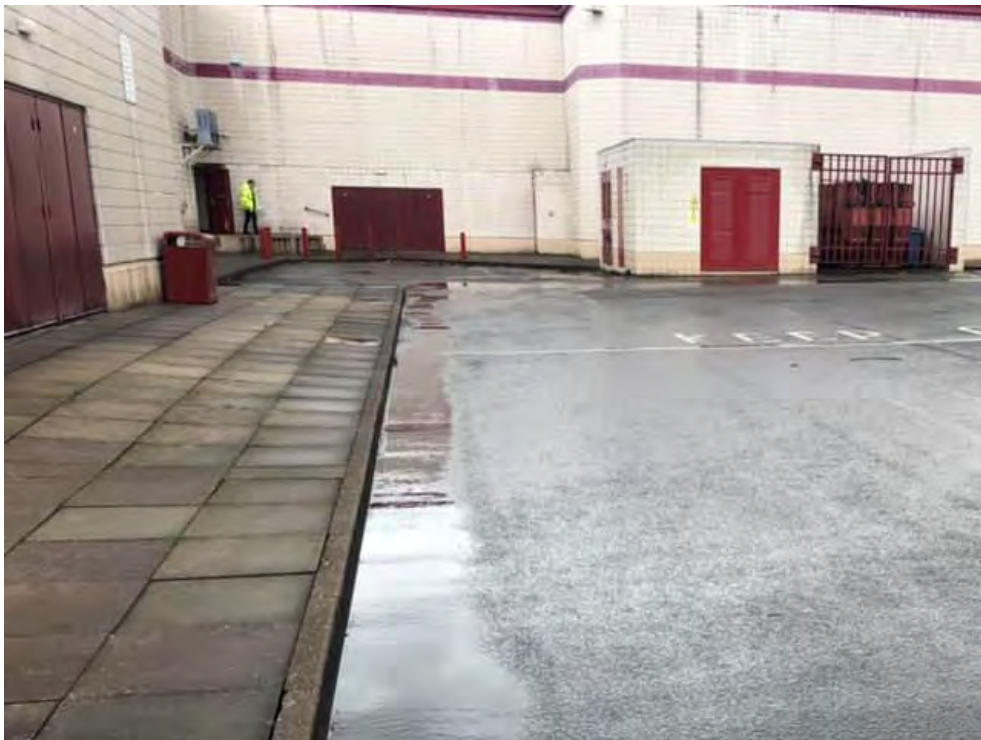
View of southern car park. Hardstanding in good condition. Mature trees present.



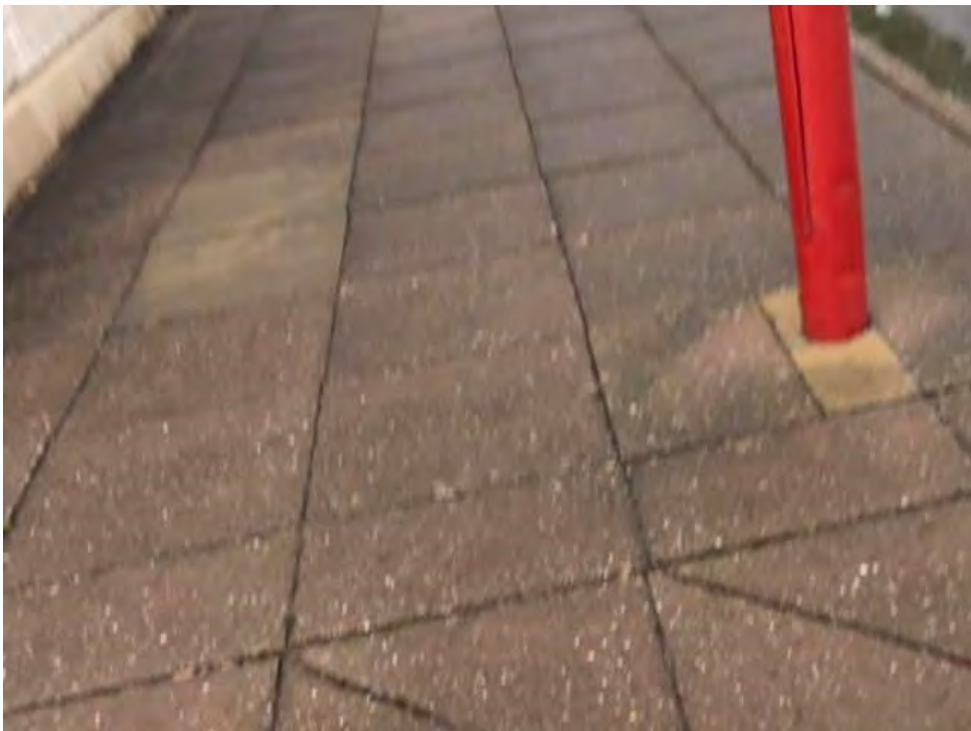
Plate 10 –

View to the west. Surface water drain with minor surface water flooding.



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REFERENCE:	10041634	SITE NAME:	Hyde Road	3 rd Floor, Charter House 62-68 Hills Road, Cambridge, CB2 1LA, UK T: 01223 935011	
Plate 11 – View to the east at rear of the cinema. Facilities containing waste etc. Substation also present. Multiple floor signs stating 'Keep Clear'.					
Plate 12 – Signage around electrical substation on site.					

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Plate 13 – View north showing back of cinema building.					
Plate 14 – View to the west of the site showing mature tree line at boundary and grassed verges.					

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Plate 15 – Flagging across most pedestrianised walkways around the buildings.					
Plate 16 – View north of disability parking to eastern side of cinema.					

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Plate 17 –

Substation located by disabled parking to eastern side of the cinema, within the tree line.
No information plates on external walls of substation.



Plate 18 –

View to the south of the site, showing exit arrows towards Kirkmanshulme Lane.



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Plate 20 – View towards the east of south-eastern plot with entrance from main cinema car park. Note elevation change and barrier.					
Plate 21 – Southeast plot. View to the east. Hardstanding in poor condition in places with observed appearance of Japanese Knotweed in several locations.					

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Plate 22 – Southeast plot. View to the southern boundary. Surface water ponding observed.					
Plate 23 – Southeast plot. View to the northwest. Hardstanding in poor condition in places. Japanese knotweed rooted in cracks.					

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Plate 24 – Southeast plot. View to southeast in far corner of the plot. Fairly overgrown with weeds and trees.					
Plate 25 – Southeast plot. View to the west. Exit gate locked with slope down to main cinema car park. Hardstanding in OK condition here. Fairly overgrown hedgerows and trees.					

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Plate 26 –

View to the south,
showing exit gate onto
Kirkmanshulme Lane.



Plate 27 –

Southern boundary with
mature trees and
hedgerows.



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Plate 28 – View of western boundary looking northwest along access road.					
Plate 29 – Pedestrian access onto site via Kirkmanshulme Lane. Bollards in place to restrict vehicle access.					

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Land off Hyde Road

APPENDIX D

Groundsure Insight Report

HYDE ROAD, MANCHESTER, M12 5AL

Order Details

Date: 12/06/2020
Your ref: 14039964
Our Ref: GS-6792434
Client: Arcadis Consulting (UK) Ltd

Site Details

Location: 387602 396211
Area: 6.71 ha
Authority: [Manchester City Council](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.12

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
13	1.1	Historical industrial land uses	9	3	25	96	-
18	1.2	Historical tanks	22	5	18	18	-
21	1.3	Historical energy features	8	4	7	9	-
22	1.4	Historical petrol stations	0	0	0	0	-
23	1.5	Historical garages	0	0	0	7	-
23	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
24	2.1	Historical industrial land uses	11	4	30	131	-
31	2.2	Historical tanks	33	6	22	32	-
34	2.3	Historical energy features	8	9	15	21	-
37	2.4	Historical petrol stations	0	0	0	0	-
37	2.5	Historical garages	0	0	0	9	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
38	3.1	Active or recent landfill	0	0	0	0	-
38	3.2	Historical landfill (BGS records)	0	0	0	0	-
39	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
39	3.4	Historical landfill (EA/NRW records)	0	0	1	0	-
39	3.5	Historical waste sites	0	0	0	14	-
41	3.6	Licensed waste sites	0	0	0	1	-
42	3.7	Waste exemptions	0	0	0	15	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
44	4.1	Recent industrial land uses	2	1	14	-	-
46	4.2	Current or recent petrol stations	0	0	1	1	-
46	4.3	Electricity cables	0	0	0	0	-
46	4.4	Gas pipelines	0	0	0	0	-
46	4.5	Sites determined as Contaminated Land	0	0	0	0	-



46	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
47	4.7	Regulated explosive sites	0	0	0	0	-
47	4.8	Hazardous substance storage/usage	0	0	0	0	-
47	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
47	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
47	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	1	4	-
48	4.12	Radioactive Substance Authorisations	0	0	0	0	-
48	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	0	3	-
49	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
49	4.15	Pollutant release to public sewer	0	0	0	0	-
49	4.16	List 1 Dangerous Substances	0	0	0	0	-
50	4.17	List 2 Dangerous Substances	0	0	0	0	-
50	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	0	4	-
50	4.19	Pollution inventory substances	0	0	0	0	-
51	4.20	Pollution inventory waste transfers	0	0	0	0	-
51	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
52	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
53	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
55	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
56	5.4	<u>Groundwater vulnerability- soluble rock risk</u>	Identified (within 0m)				
56	5.5	Groundwater vulnerability- local information	None (within 0m)				
57	5.6	<u>Groundwater abstractions</u>	0	0	4	0	22
64	5.7	Surface water abstractions	0	0	0	0	0
64	5.8	Potable abstractions	0	0	0	0	0
64	5.9	Source Protection Zones	0	0	0	0	-
65	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
66	6.1	Water Network (OS MasterMap)	0	0	0	-	-



66	6.2	Surface water features	0	0	0	-	-
67	6.3	<u>WFD Surface water body catchments</u>	2	-	-	-	-
67	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
68	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
69	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
69	7.2	Historical Flood Events	0	0	0	-	-
69	7.3	Flood Defences	0	0	0	-	-
69	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
70	7.5	Flood Storage Areas	0	0	0	-	-
71	7.6	Flood Zone 2	None (within 50m)				
71	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
72	8.1	<u>Surface water flooding</u>	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
74	9.1	<u>Groundwater flooding</u>	High (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
75	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
75	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
75	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
75	10.4	Special Protection Areas (SPA)	0	0	0	0	0
76	10.5	National Nature Reserves (NNR)	0	0	0	0	0
76	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
76	10.7	Designated Ancient Woodland	0	0	0	0	0
76	10.8	Biosphere Reserves	0	0	0	0	0
77	10.9	Forest Parks	0	0	0	0	0
77	10.10	Marine Conservation Zones	0	0	0	0	0
77	10.11	Green Belt	0	0	0	0	0
77	10.12	Proposed Ramsar sites	0	0	0	0	0



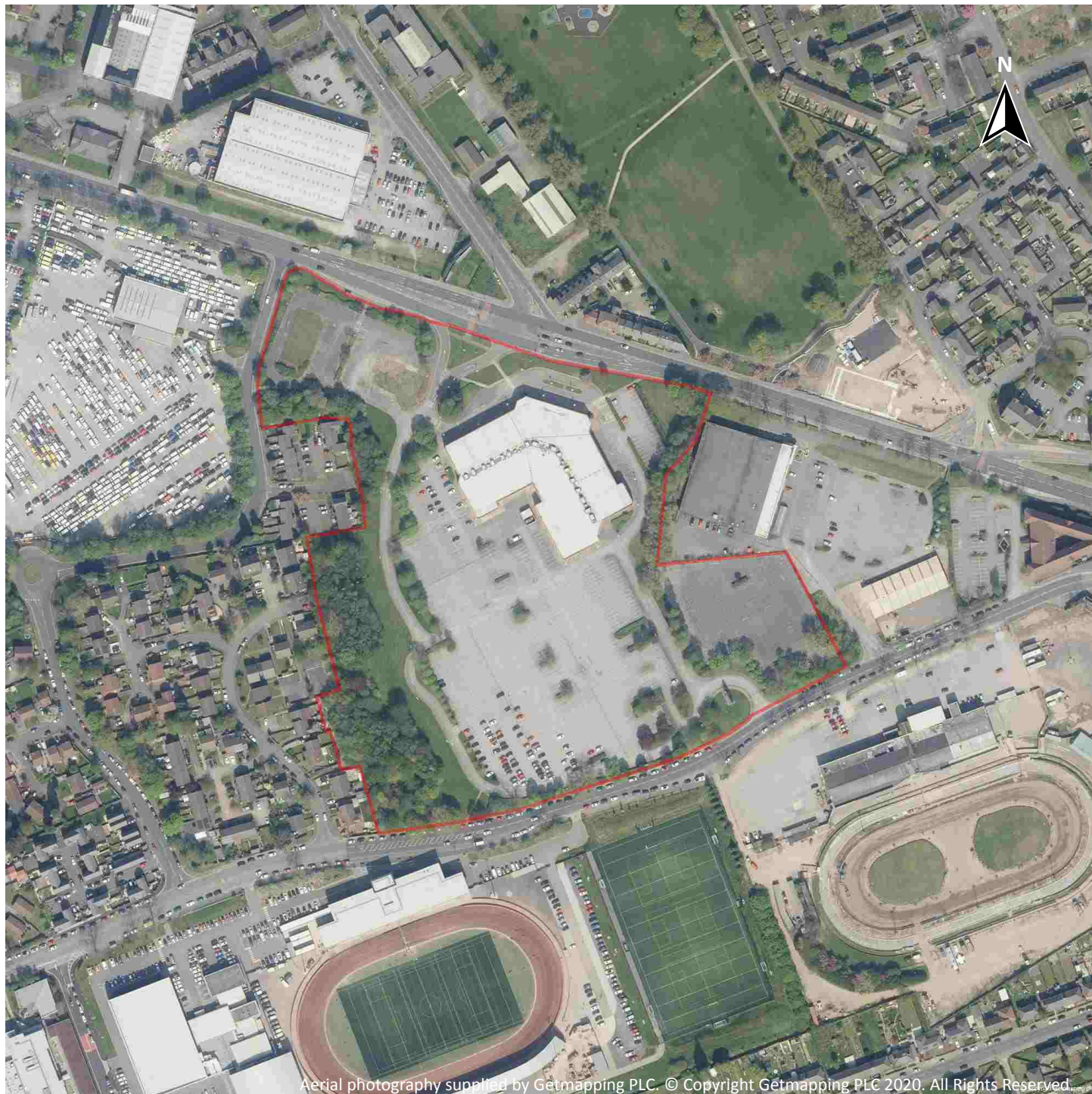
77	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
78	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
78	10.15	Nitrate Sensitive Areas	0	0	0	0	0
78	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
79	<u>10.17</u>	<u>SSSI Impact Risk Zones</u>	2	-	-	-	-
80	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
81	11.1	World Heritage Sites	0	0	0	-	-
81	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
81	11.3	National Parks	0	0	0	-	-
81	11.4	Listed Buildings	0	0	0	-	-
82	11.5	Conservation Areas	0	0	0	-	-
82	11.6	Scheduled Ancient Monuments	0	0	0	-	-
82	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
83	<u>12.1</u>	<u>Agricultural Land Classification</u>	Urban (within 250m)				
84	12.2	Open Access Land	0	0	0	-	-
84	12.3	Tree Felling Licences	0	0	0	-	-
84	12.4	Environmental Stewardship Schemes	0	0	0	-	-
84	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
85	13.1	Priority Habitat Inventory	0	0	0	-	-
85	13.2	Habitat Networks	0	0	0	-	-
85	13.3	Open Mosaic Habitat	0	0	0	-	-
85	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
86	<u>14.1</u>	<u>10k Availability</u>	Identified (within 500m)				
87	<u>14.2</u>	<u>Artificial and made ground (10k)</u>	1	0	4	18	-
89	<u>14.3</u>	<u>Superficial geology (10k)</u>	1	0	0	0	-

90	14.4	Landslip (10k)	0	0	0	0	-
91	14.5	<u>Bedrock geology (10k)</u>	1	3	0	2	-
92	14.6	<u>Bedrock faults and other linear features (10k)</u>	0	1	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
93	15.1	<u>50k Availability</u>	Identified (within 500m)				
94	15.2	<u>Artificial and made ground (50k)</u>	0	0	0	1	-
95	15.3	Artificial ground permeability (50k)	0	0	-	-	-
96	15.4	<u>Superficial geology (50k)</u>	1	0	0	0	-
97	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
97	15.6	Landslip (50k)	0	0	0	0	-
97	15.7	Landslip permeability (50k)	None (within 50m)				
98	15.8	<u>Bedrock geology (50k)</u>	1	3	0	2	-
99	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
99	15.10	<u>Bedrock faults and other linear features (50k)</u>	0	1	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
100	16.1	<u>BGS Boreholes</u>	0	0	9	-	-
Page	Section	Natural ground subsidence					
102	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
103	17.2	<u>Running sands</u>	Very low (within 50m)				
104	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
105	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
106	17.5	<u>Landslides</u>	Very low (within 50m)				
107	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
109	18.1	Natural cavities	0	0	0	0	-
110	18.2	BritPits	0	0	0	0	-
110	18.3	<u>Surface ground workings</u>	11	4	21	-	-
111	18.4	Underground workings	0	0	0	0	0
112	18.5	Historical Mineral Planning Areas	0	0	0	0	-



<u>112</u>	<u>18.6</u>	<u>Non-coal mining</u>	0	0	0	1	0
112	18.7	Mining cavities	0	0	0	0	0
<u>112</u>	<u>18.8</u>	<u>JPB mining areas</u>	Identified (within 0m)				
<u>113</u>	<u>18.9</u>	<u>Coal mining</u>	Identified (within 0m)				
113	18.10	Brine areas	None (within 0m)				
113	18.11	Gypsum areas	None (within 0m)				
114	18.12	Tin mining	None (within 0m)				
114	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
<u>115</u>	<u>19.1</u>	<u>Radon</u>	Between 1% and 3% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
<u>117</u>	<u>20.1</u>	<u>BGS Estimated Background Soil Chemistry</u>	3	2	-	-	-
<u>117</u>	<u>20.2</u>	<u>BGS Estimated Urban Soil Chemistry</u>	15	7	-	-	-
118	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
120	21.1	Underground railways (London)	0	0	0	-	-
120	21.2	Underground railways (Non-London)	0	0	0	-	-
121	21.3	Railway tunnels	0	0	0	-	-
<u>121</u>	<u>21.4</u>	<u>Historical railway and tunnel features</u>	14	0	10	-	-
122	21.5	Royal Mail tunnels	0	0	0	-	-
122	21.6	Historical railways	0	0	0	-	-
122	21.7	Railways	0	0	0	-	-
123	21.8	Crossrail 1	0	0	0	0	-
123	21.9	Crossrail 2	0	0	0	0	-
123	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 22/04/2019

Site Area: 6.71ha



Recent site history - 2015 aerial photograph

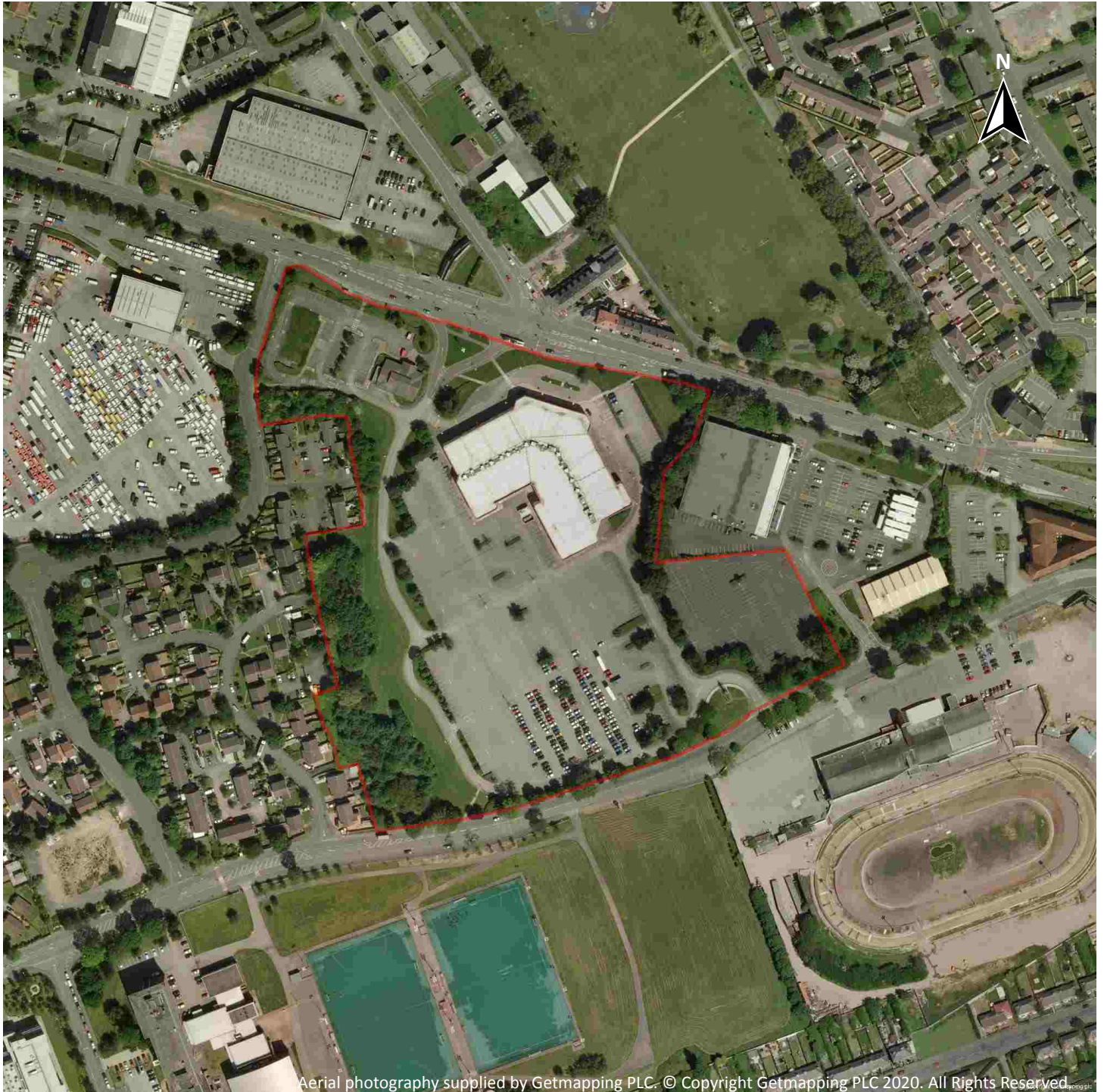


Capture Date: 11/06/2015

Site Area: 6.71ha



Recent site history - 2009 aerial photograph



Capture Date: 02/06/2009

Site Area: 6.71ha



Recent site history - 2000 aerial photograph



Capture Date: 19/06/2000

Site Area: 6.71ha



Contact us with any questions at:

info@groundsure.com

08444 159 000

Date: 12 June 2020

OS MasterMap site plan



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Site Area: 6.71ha



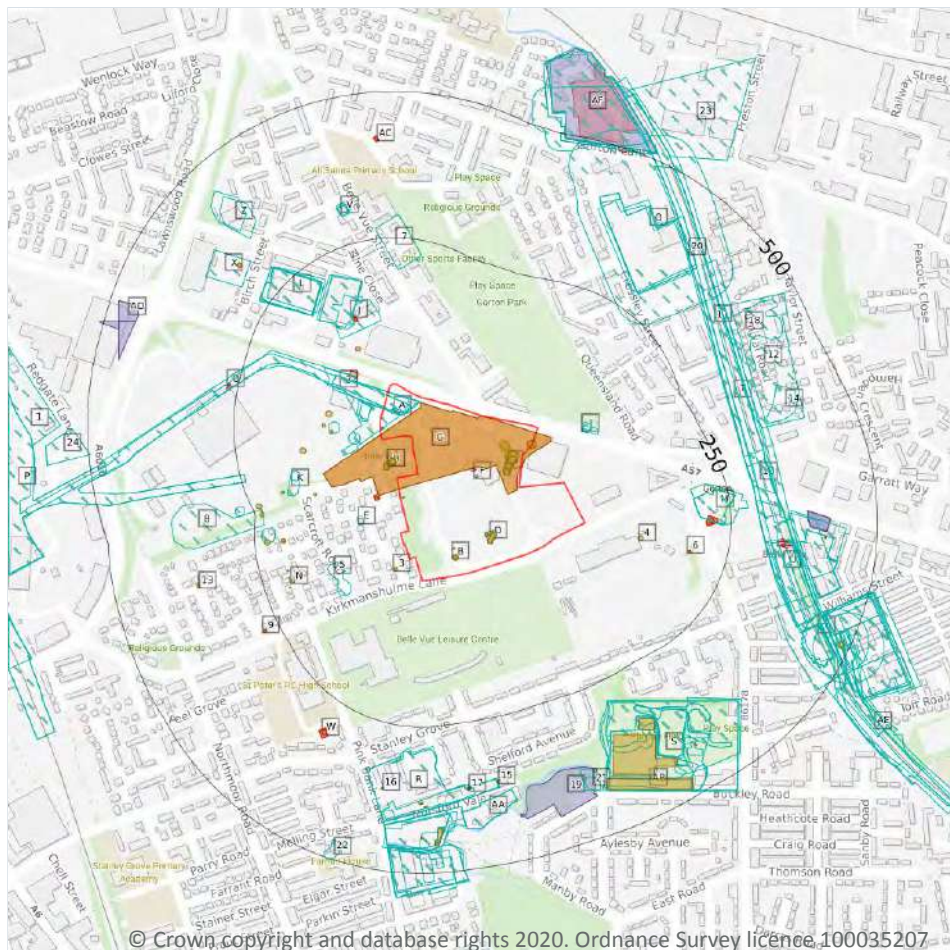
Contact us with any questions at:

info@groundsure.com

08444 159 000

Date: 12 June 2020

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

133

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

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

ID	Location	Land use	Dates present	Group ID
1	On site	Railway Sidings	1905	926388



ID	Location	Land use	Dates present	Group ID
2	On site	Mineral Railway Sidings	1915 - 1923	865276
A	On site	Railway Building	1915	820459
A	On site	Railway Sidings	1938	909108
A	On site	Railway Sidings	1934	923355
A	On site	Brewery	1923	925382
B	On site	Unspecified Tank	1923	825238
C	On site	Unspecified Tank	1968 - 1978	940439
D	On site	Unspecified Tanks	1905	815421
A	16m W	Brewery	1905 - 1915	881327
A	21m W	Brewery	1890	852238
A	36m W	Unspecified Tank	1956	825234
E	66m W	Unspecified Tank	1905	825237
A	69m W	Unspecified Tank	1956	825233
I	75m E	Police Station	1956	896203
I	77m E	Police Station	1968 - 1978	930749
I	91m E	Police Station	1985	832598
J	107m NW	Iron Works	1890	898584
5	110m W	Railway Sidings	1934	794682
J	121m NW	Iron Works	1923	982485
J	123m NW	Iron Works	1915	949401
K	152m SW	Unspecified Tanks	1956	815410
K	152m SW	Unspecified Tank	1968	825235
L	178m NW	Unspecified Works	1968 - 1978	888379
L	179m NW	Iron Works	1905	822802
L	179m NW	Engineering Works	1923	894411
L	181m NW	Engineering Works	1934 - 1938	934492
L	181m NW	Engineering Works	1915	963006
M	189m E	Corporation Yard	1923	900801



ID	Location	Land use	Dates present	Group ID
M	189m E	Corporation Yard	1934 - 1938	891501
M	189m E	Corporation Yard	1915	987107
7	195m N	Ambulance Depot	1968	842358
K	214m W	Unspecified Tank	1978	825236
8	233m W	Railway Sidings	1956	794683
O	241m NE	Unspecified Depot	1985 - 1991	854448
P	242m W	Railway Sidings	1934 - 1938	846711
P	242m W	Railway Sidings	1915	877097
K	263m SW	Unspecified Tank	1905	825230
O	278m NE	Motor Works	1934 - 1938	863611
R	283m S	Engineering Works	1934	811625
S	285m SE	Sewage Works	1905 - 1915	936854
O	286m NE	Unspecified Works	1968	830425
O	286m NE	Unspecified Commercial/Industrial	1978	874913
S	286m SE	Sewage Works	1923	845090
O	286m NE	Unspecified Commercial/Industrial	1956	903585
S	288m SE	Refuse Destructor	1934 - 1938	900822
R	288m S	Tarpaulin Works	1915 - 1923	871281
S	290m SE	Unspecified Ground Workings	1905	883387
10	292m E	Cuttings	1923	910865
T	293m E	Cuttings	1915 - 1938	896941
T	293m E	Cuttings	1905	906344
T	293m E	Cuttings	1890	984695
11	294m NE	Cuttings	1923	903234
U	295m E	Cuttings	1923	901684
V	299m N	Police Station	1923	976700
V	300m N	Police Station	1890	870401
T	300m E	Cuttings	1956 - 1968	907697



ID	Location	Land use	Dates present	Group ID
T	302m E	Cuttings	1978	949475
V	304m N	Police Station	1915	868314
X	304m NW	Brewery	1915	822703
T	313m E	Cuttings	1985 - 1991	952719
S	314m SE	Unspecified Ground Workings	1923	877522
S	315m SE	Refuse Destructor	1915	978052
U	315m E	Cuttings	1907	864869
U	320m E	Railway Sidings	1938	794681
U	326m E	Railway Sidings	1934	869716
S	332m SE	Unspecified Tanks	1915 - 1923	960284
S	335m SE	Sewage Tanks	1905	810456
S	336m SE	Unspecified Tanks	1923	883428
12	340m NE	Brick Works	1905	818776
S	341m SE	Unspecified Ground Workings	1923 - 1934	928739
S	341m SE	Unspecified Ground Workings	1938	931689
Y	343m E	Railway Sidings	1938	982289
Z	347m NW	Fire Station	1985 - 1991	861200
S	347m SE	Refuse Destructor	1956 - 1968	854972
U	349m E	Unspecified Mills	1890	890861
U	352m E	Unspecified Mills	1923	907927
R	355m S	Unspecified Works	1968	830413
14	357m NE	Unspecified Pit	1905	840546
Y	357m SE	Cuttings	1890	951428
18	364m NE	Unspecified Pit	1905	840547
U	368m E	Unspecified Mills	1915	868923
U	368m E	Unspecified Mills	1934 - 1938	921210
Z	369m NW	Fire Station	1978	862453
AA	377m S	Unspecified Works	1905	830412



ID	Location	Land use	Dates present	Group ID
AA	377m S	Chemical Works	1890	834552
R	391m S	Dye Works	1923	903496
21	394m S	Refuse Heap	1915 - 1923	980272
R	394m S	Unspecified Commercial/Industrial	1934	796893
R	394m S	Dye Works	1915	889944
R	394m S	Mill Ponds	1851	797949
R	401m S	Dye Works	1890 - 1905	864372
AB	405m S	Filter Beds	1915 - 1923	895933
S	415m SE	Refuse Destructor	1923	960976
Y	415m SE	Railway Station	1905	887034
Y	415m SE	Railway Station	1890	937125
Y	415m SE	Railway Station	1915 - 1968	971304
Y	418m SE	Railway Station	1978	856664
Y	418m SE	Railway Station	1907	969992
R	421m S	Unspecified Tanks	1923	905237
R	422m S	Unspecified Tanks	1934	868961
R	422m S	Unspecified Tanks	1915	909894
Y	433m E	Railway Sidings	1968	911575
Y	435m E	Unspecified Commercial/Industrial	1905	796891
Y	436m E	Unspecified Works	1907 - 1915	896785
Y	436m E	Unspecified Works	1934 - 1968	913799
Y	437m E	Unspecified Works	1938	869038
Y	438m E	Unspecified Works	1978	857939
Y	438m E	Unspecified Works	1923	857730
Y	439m SE	Railway Station	1985 - 1991	916973
R	445m S	Unspecified Tanks	1938	968718
R	453m S	Iron Works	1890 - 1915	967409
R	453m S	Iron Works	1934 - 1938	971003



ID	Location	Land use	Dates present	Group ID
R	454m S	Unspecified Works	1968	988305
Y	459m SE	Unspecified Industrial/Commercial	1938	835158
S	460m SE	Unspecified Heap	1905	804172
R	461m S	Unspecified Works	1985 - 1991	968031
Y	462m E	Unspecified Works	1985	935912
R	463m S	Unspecified Works	1978	898441
22	468m S	Unspecified Pit	1934	840550
AE	469m SE	Railway Sidings	1907	944160
23	470m N	Gas Plant Works	1915 - 1923	846100
AE	474m SE	Railway Sidings	1905	949039
AE	475m SE	Railway Sidings	1915	876455
AE	475m SE	Railway Sidings	1934	877799
AE	475m SE	Railway Sidings	1938	926391
Y	477m SE	Unspecified Tank	1905 - 1907	933831
Y	481m SE	Railway Building	1968	820452
AF	488m N	Motor Works	1934 - 1938	912346
AF	488m N	Motor Works	1915	991006
AF	494m N	Unspecified Works	1978	830426
AF	494m N	Unspecified Warehouse	1956 - 1968	875610
24	498m W	Unspecified Depot	1985	818417

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

63

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

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



ID	Location	Land use	Dates present	Group ID
B	On site	Unspecified Tank	1893	115819
B	On site	Unspecified Tank	1893	133143
B	On site	Unspecified Tank	1908 - 1933	146908
C	On site	Gasometer	1908	108532
C	On site	Gasometer	1908	108533
C	On site	Gasometer	1908	108534
C	On site	Gasometer	1908	108535
C	On site	Unspecified Tank	1922	116487
C	On site	Unspecified Tank	1893	124760
C	On site	Unspecified Tank	1893 - 1960	131325
C	On site	Tanks	1949 - 1961	136206
C	On site	Unspecified Tank	1922 - 1933	136475
C	On site	Unspecified Tank	1960	139630
C	On site	Unspecified Tank	1893 - 1922	141455
C	On site	Unspecified Tank	1922 - 1933	147570
D	On site	Tanks	1893	124650
D	On site	Unspecified Tank	1908 - 1933	131551
D	On site	Tanks	1908 - 1933	135709
D	On site	Unspecified Tank	1893	144432
E	On site	Unspecified Tank	1933	115818
F	On site	Unspecified Tank	1933	116488
G	On site	Gas Works	1908	122181
H	21m NW	Tanks	1922	107102
H	21m NW	Gasometer	1908	108521
H	22m N	Gasometer	1908	108520
H	24m N	Unspecified Tank	1893	115820
3	26m SW	Unspecified Tank	1922 - 1933	134846
A	80m NW	Unspecified Tank	1990 - 1997	134498



ID	Location	Land use	Dates present	Group ID
A	80m W	Unspecified Tank	1933	115821
A	83m W	Unspecified Tank	1961	115822
A	93m W	Unspecified Tank	1933	115823
4	95m E	Unspecified Tank	1933	116490
K	131m W	Unspecified Tank	1949	115825
K	141m W	Unspecified Tank	1933	115824
K	190m SW	Unspecified Tank	1933	115827
K	197m W	Unspecified Tank	1908 - 1933	146973
N	197m W	Unspecified Tank	1961	115814
K	198m W	Unspecified Tank	1893	148649
N	201m W	Unspecified Tank	1961	115811
N	203m W	Unspecified Tank	1961	115812
N	207m W	Unspecified Tank	1961	115813
N	220m SW	Unspecified Tank	1891	115815
K	224m W	Unspecified Tank	1908	115826
K	234m SW	Unspecified Tank	1933	115803
K	234m W	Unspecified Tank	1933	115828
X	325m NW	Unspecified Tank	1893 - 1922	127873
X	327m NW	Unspecified Tank	1891	144691
S	338m SE	Tanks	1908 - 1922	135985
S	342m SE	Tanks	1922	131272
13	354m W	Unspecified Tank	1933	115807
15	357m S	Tanks	1893	107098
16	359m S	Unspecified Tank	1893	115816
17	361m S	Unspecified Tank	1950 - 1953	125844
R	378m S	Tanks	1950	144704
R	380m S	Tanks	1950 - 1953	122436
R	384m S	Tanks	1950 - 1953	127972



ID	Location	Land use	Dates present	Group ID
20	393m NE	Unspecified Tank	1986	116455
AB	407m S	Filter Tanks	1908	120772
U	409m E	Unspecified Tank	1950	116489
S	421m SE	Unspecified Tank	1950 - 1953	141621
R	425m S	Tanks	1908 - 1933	149325
R	438m S	Unspecified Tank	1922	115817
Y	479m SE	Unspecified Tank	1908 - 1922	125751

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

28

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

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

ID	Location	Land use	Dates present	Group ID
A	On site	Electricity Substation	1997	62168
C	On site	Gasometer	1908	59725
C	On site	Gasometer	1908	59726
C	On site	Gasometer	1908	59727
C	On site	Gasometer	1908	59728
C	On site	Electricity Substation	1982	62169
F	On site	Electricity Substation	1990	62170
G	On site	Gas Works	1908	63856
H	21m NW	Gasometer	1908	59714
H	22m N	Gasometer	1908	59713
E	35m W	Electricity Substation	1991 - 1997	64752



ID	Location	Land use	Dates present	Group ID
E	37m W	Electricity Substation	1983 - 1990	68784
A	59m W	Electricity Substation	1949 - 1986	68495
J	122m NW	Electricity Substation	1985 - 1993	78042
J	122m NW	Electricity Substation	1996	83774
6	183m E	Electricity Substation	1982 - 1990	84648
M	208m E	Electricity Substation	1978 - 1983	67896
M	208m E	Electricity Substation	1995	68098
M	212m E	Electricity Substation	1950 - 1983	68786
Q	262m W	Electricity Substation	1990 - 1997	75914
Q	263m W	Electricity Substation	1991	62166
9	273m SW	Electricity Substation	1989 - 1995	67288
W	300m SW	Electricity Substation	1950 - 1989	75997
W	302m SW	Electricity Substation	1993 - 1995	81488
W	304m SW	Electricity Substation	1980	72882
AC	415m N	Electricity Substation	1985 - 1996	69025
AC	416m N	Electricity Substation	1979	77212
AF	492m N	Gas Plant Works	1908 - 1922	81535

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

7

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

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

ID	Location	Land use	Dates present	Group ID
19	370m S	Garages	1953	20527
U	381m E	Garage	1983	23057
U	381m E	Garage	1973 - 1978	27575
AD	447m W	Garage	1996	20309
AD	448m W	Garage	1997	23468
AD	472m W	Garage	1994	23948
AF	492m N	Garage	1986 - 1991	25321

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

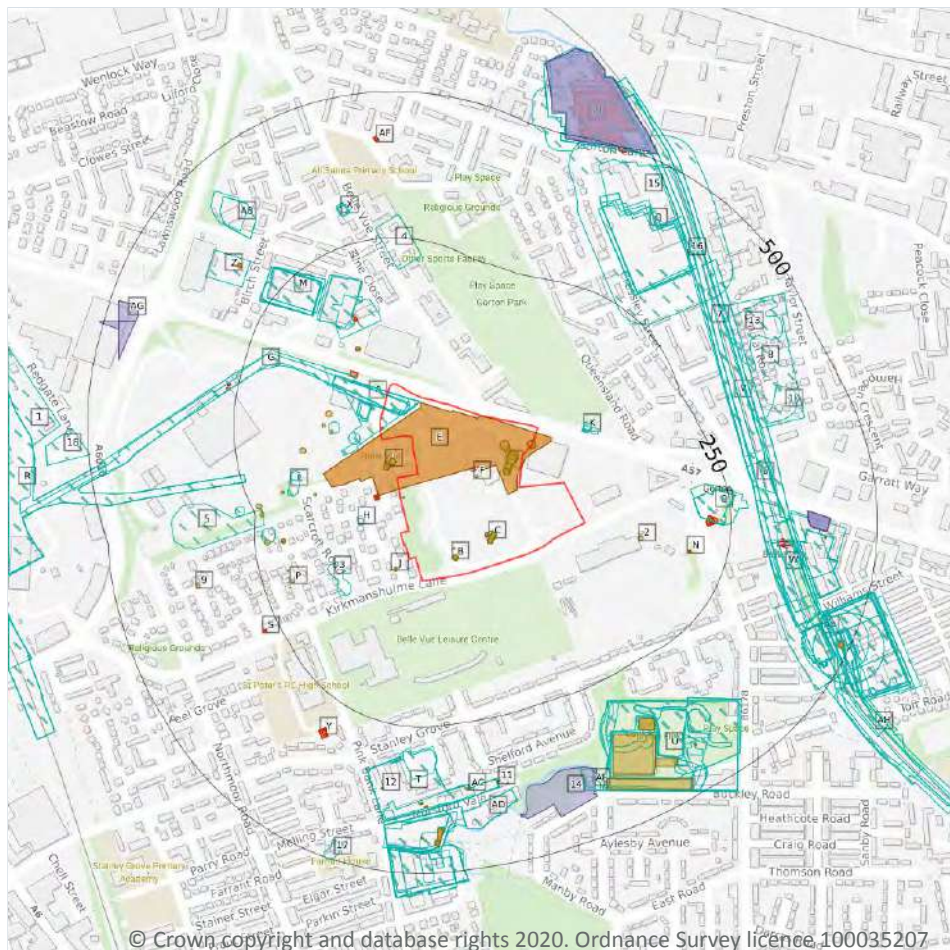
0

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

176

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 24**

ID	Location	Land Use	Date	Group ID
1	On site	Railway Sidings	1905	926388
A	On site	Railway Sidings	1938	909108
A	On site	Railway Sidings	1934	923355



ID	Location	Land Use	Date	Group ID
A	On site	Railway Building	1915	820459
A	On site	Mineral Railway Sidings	1923	865276
A	On site	Brewery	1923	925382
B	On site	Unspecified Tank	1923	825238
C	On site	Unspecified Tanks	1905	815421
D	On site	Unspecified Tank	1978	940439
D	On site	Unspecified Tank	1968	940439
G	On site	Mineral Railway Sidings	1915	865276
A	16m W	Brewery	1905	881327
A	18m W	Brewery	1915	881327
A	21m W	Brewery	1890	852238
A	36m W	Unspecified Tank	1956	825234
H	66m W	Unspecified Tank	1905	825237
A	69m W	Unspecified Tank	1956	825233
K	75m E	Police Station	1956	896203
K	77m E	Police Station	1978	930749
K	77m E	Police Station	1968	930749
K	91m E	Police Station	1985	832598
A	107m NW	Iron Works	1890	898584
3	110m W	Railway Sidings	1934	794682
A	121m NW	Iron Works	1923	982485
A	123m NW	Iron Works	1915	949401
L	152m SW	Unspecified Tanks	1956	815410
L	152m SW	Unspecified Tank	1968	825235
M	178m NW	Unspecified Works	1978	888379
M	178m NW	Unspecified Works	1968	888379
M	179m NW	Iron Works	1905	822802
M	179m NW	Engineering Works	1923	894411



ID	Location	Land Use	Date	Group ID
M	181m NW	Engineering Works	1938	934492
M	181m NW	Engineering Works	1934	934492
M	181m NW	Engineering Works	1915	963006
O	189m E	Corporation Yard	1923	900801
O	189m E	Corporation Yard	1938	891501
O	189m E	Corporation Yard	1934	891501
O	189m E	Corporation Yard	1915	987107
4	195m N	Ambulance Depot	1968	842358
L	214m W	Unspecified Tank	1978	825236
5	233m W	Railway Sidings	1956	794683
Q	241m NE	Unspecified Depot	1985	854448
R	242m W	Railway Sidings	1938	846711
R	242m W	Railway Sidings	1934	846711
R	242m W	Railway Sidings	1915	877097
L	263m SW	Unspecified Tank	1905	825230
Q	278m NE	Motor Works	1938	863611
Q	281m NE	Motor Works	1934	863611
T	283m S	Engineering Works	1934	811625
U	285m SE	Sewage Works	1915	936854
U	286m SE	Sewage Works	1905	936854
Q	286m NE	Unspecified Commercial/Industrial	1978	874913
Q	286m NE	Unspecified Works	1968	830425
U	286m SE	Sewage Works	1923	845090
Q	286m NE	Unspecified Commercial/Industrial	1956	903585
U	288m SE	Refuse Destructor	1934	900822
T	288m S	Tarpaulin Works	1923	871281
U	290m SE	Unspecified Ground Workings	1905	883387
6	292m E	Cuttings	1923	910865



ID	Location	Land Use	Date	Group ID
V	293m E	Cuttings	1938	896941
V	293m E	Cuttings	1934	896941
V	293m E	Cuttings	1915	896941
V	293m E	Cuttings	1905	906344
V	293m E	Cuttings	1890	984695
7	294m NE	Cuttings	1923	903234
U	294m SE	Refuse Destructor	1938	900822
W	295m E	Cuttings	1923	901684
X	299m N	Police Station	1923	976700
X	300m N	Police Station	1890	870401
V	300m E	Cuttings	1956	907697
V	300m E	Cuttings	1968	907697
V	302m E	Cuttings	1978	949475
T	303m S	Tarpaulin Works	1915	871281
X	304m N	Police Station	1915	868314
Z	304m NW	Brewery	1915	822703
V	313m E	Cuttings	1985	952719
V	313m E	Cuttings	1991	952719
U	314m SE	Unspecified Ground Workings	1923	877522
U	315m SE	Refuse Destructor	1915	978052
W	315m E	Cuttings	1907	864869
W	320m E	Railway Sidings	1938	794681
W	326m E	Railway Sidings	1934	869716
U	332m SE	Unspecified Tanks	1915	960284
U	335m SE	Sewage Tanks	1905	810456
U	336m SE	Unspecified Tanks	1923	883428
U	338m SE	Unspecified Tanks	1923	960284
8	340m NE	Brick Works	1905	818776



ID	Location	Land Use	Date	Group ID
U	341m SE	Unspecified Ground Workings	1938	931689
U	341m SE	Unspecified Ground Workings	1934	928739
AA	343m E	Railway Sidings	1938	982289
AB	347m NW	Fire Station	1985	861200
AB	347m NW	Fire Station	1991	861200
U	347m SE	Refuse Destructor	1956	854972
U	347m SE	Refuse Destructor	1968	854972
W	349m E	Unspecified Mills	1890	890861
W	352m E	Unspecified Mills	1923	907927
T	355m S	Unspecified Works	1968	830413
10	357m NE	Unspecified Pit	1905	840546
AA	357m SE	Cuttings	1890	951428
13	364m NE	Unspecified Pit	1905	840547
W	368m E	Unspecified Mills	1938	921210
W	368m E	Unspecified Mills	1934	921210
W	368m E	Unspecified Mills	1915	868923
AB	369m NW	Fire Station	1978	862453
AD	377m S	Unspecified Works	1905	830412
AD	377m S	Chemical Works	1890	834552
T	391m S	Dye Works	1923	903496
15	392m NE	Unspecified Depot	1991	854448
AE	394m S	Refuse Heap	1923	980272
T	394m S	Unspecified Commercial/Industrial	1934	796893
T	394m S	Dye Works	1915	889944
T	394m S	Mill Ponds	1851	797949
AE	399m S	Refuse Heap	1915	980272
T	401m S	Dye Works	1905	864372
T	401m S	Dye Works	1890	864372



ID	Location	Land Use	Date	Group ID
U	405m S	Filter Beds	1923	895933
U	406m S	Filter Beds	1915	895933
U	415m SE	Refuse Destructor	1923	960976
AA	415m SE	Railway Station	1938	971304
AA	415m SE	Railway Station	1934	971304
AA	415m SE	Railway Station	1915	971304
AA	415m SE	Railway Station	1905	887034
AA	415m SE	Railway Station	1890	937125
AA	415m SE	Railway Station	1923	971304
AA	416m SE	Railway Station	1938	971304
AA	417m SE	Railway Station	1956	971304
AA	417m SE	Railway Station	1968	971304
AA	418m SE	Railway Station	1978	856664
AA	418m SE	Railway Station	1907	969992
T	421m S	Unspecified Tanks	1923	905237
T	422m S	Unspecified Tanks	1934	868961
T	422m S	Unspecified Tanks	1915	909894
AA	433m E	Railway Sidings	1968	911575
AA	435m E	Unspecified Commercial/Industrial	1905	796891
AA	436m E	Unspecified Works	1938	913799
AA	436m E	Unspecified Works	1934	913799
AA	436m E	Unspecified Works	1915	896785
AA	437m E	Unspecified Works	1938	869038
AA	438m E	Unspecified Works	1978	857939
AA	438m E	Unspecified Works	1923	857730
AA	439m SE	Railway Station	1985	916973
AA	439m SE	Railway Station	1991	916973
AA	441m E	Unspecified Works	1907	896785



ID	Location	Land Use	Date	Group ID
AA	442m E	Unspecified Works	1956	913799
AA	442m E	Unspecified Works	1968	913799
T	445m S	Unspecified Tanks	1938	968718
T	453m S	Iron Works	1938	971003
T	453m S	Iron Works	1934	971003
T	453m S	Iron Works	1915	967409
T	453m S	Iron Works	1905	967409
T	453m S	Iron Works	1890	967409
T	454m S	Unspecified Works	1968	988305
U	458m SE	Unspecified Ground Workings	1923	928739
AA	459m SE	Unspecified Industrial/Commercial	1938	835158
U	460m SE	Unspecified Heap	1905	804172
T	461m S	Unspecified Works	1985	968031
T	461m S	Unspecified Works	1991	968031
AA	462m E	Unspecified Works	1985	935912
T	463m S	Unspecified Works	1978	898441
17	468m S	Unspecified Pit	1934	840550
AH	469m SE	Railway Sidings	1907	944160
AI	470m N	Gas Plant Works	1923	846100
AH	474m SE	Railway Sidings	1905	949039
AH	475m SE	Railway Sidings	1938	926391
AH	475m SE	Railway Sidings	1934	877799
AH	475m SE	Railway Sidings	1915	876455
AA	477m SE	Unspecified Tank	1905	933831
AA	478m SE	Unspecified Tank	1907	933831
AA	481m SE	Railway Building	1968	820452
AI	488m N	Motor Works	1938	912346
AI	488m N	Motor Works	1934	912346



ID	Location	Land Use	Date	Group ID
AI	488m N	Motor Works	1915	991006
AI	494m N	Unspecified Works	1978	830426
AI	494m N	Unspecified Warehouse	1968	875610
AI	495m N	Unspecified Warehouse	1956	875610
18	498m W	Unspecified Depot	1985	818417

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

93

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 24**

ID	Location	Land Use	Date	Group ID
B	On site	Unspecified Tank	1908	146908
B	On site	Unspecified Tank	1922	146908
B	On site	Unspecified Tank	1933	146908
B	On site	Unspecified Tank	1893	133143
B	On site	Unspecified Tank	1893	115819
C	On site	Unspecified Tank	1908	131551
C	On site	Tanks	1908	135709
C	On site	Tanks	1922	135709
C	On site	Unspecified Tank	1922	131551
C	On site	Tanks	1933	135709
C	On site	Unspecified Tank	1933	131551
C	On site	Unspecified Tank	1893	144432
C	On site	Tanks	1893	124650
D	On site	Gasometer	1908	108533
D	On site	Gasometer	1908	108535



ID	Location	Land Use	Date	Group ID
D	On site	Gasometer	1908	108532
D	On site	Gasometer	1908	108534
D	On site	Unspecified Tank	1922	147570
D	On site	Unspecified Tank	1922	136475
D	On site	Unspecified Tank	1922	141455
D	On site	Unspecified Tank	1922	116487
D	On site	Unspecified Tank	1933	147570
D	On site	Unspecified Tank	1933	136475
D	On site	Tanks	1961	136206
D	On site	Tanks	1949	136206
D	On site	Unspecified Tank	1960	139630
D	On site	Unspecified Tank	1960	131325
D	On site	Unspecified Tank	1893	131325
D	On site	Unspecified Tank	1893	124760
D	On site	Unspecified Tank	1893	141455
E	On site	Gas Works	1908	122181
F	On site	Unspecified Tank	1933	116488
H	On site	Unspecified Tank	1933	115818
I	21m NW	Tanks	1922	107102
I	21m NW	Gasometer	1908	108521
I	22m N	Gasometer	1908	108520
I	24m N	Unspecified Tank	1893	115820
J	26m SW	Unspecified Tank	1922	134846
J	26m SW	Unspecified Tank	1933	134846
A	80m NW	Unspecified Tank	1990	134498
A	80m NW	Unspecified Tank	1991	134498
A	80m W	Unspecified Tank	1933	115821
A	81m NW	Unspecified Tank	1997	134498



ID	Location	Land Use	Date	Group ID
A	83m W	Unspecified Tank	1961	115822
A	93m W	Unspecified Tank	1933	115823
2	95m E	Unspecified Tank	1933	116490
L	131m W	Unspecified Tank	1949	115825
L	141m W	Unspecified Tank	1933	115824
L	190m SW	Unspecified Tank	1933	115827
L	197m W	Unspecified Tank	1908	146973
L	197m W	Unspecified Tank	1922	146973
L	197m W	Unspecified Tank	1933	146973
P	197m W	Unspecified Tank	1961	115814
L	198m W	Unspecified Tank	1893	148649
P	201m W	Unspecified Tank	1961	115811
P	203m W	Unspecified Tank	1961	115812
P	207m W	Unspecified Tank	1961	115813
P	220m SW	Unspecified Tank	1891	115815
L	224m W	Unspecified Tank	1908	115826
L	234m SW	Unspecified Tank	1933	115803
L	234m W	Unspecified Tank	1933	115828
Z	325m NW	Unspecified Tank	1908	127873
Z	325m NW	Unspecified Tank	1922	127873
Z	327m NW	Unspecified Tank	1893	127873
Z	327m NW	Unspecified Tank	1891	144691
U	338m SE	Tanks	1908	135985
U	338m SE	Tanks	1922	135985
U	342m SE	Tanks	1922	131272
9	354m W	Unspecified Tank	1933	115807
11	357m S	Tanks	1893	107098
12	359m S	Unspecified Tank	1893	115816



ID	Location	Land Use	Date	Group ID
AC	361m S	Unspecified Tank	1953	125844
AC	361m S	Unspecified Tank	1950	125844
AC	361m S	Unspecified Tank	1950	125844
T	378m S	Tanks	1950	144704
T	380m S	Tanks	1953	122436
T	380m S	Tanks	1950	122436
T	384m S	Tanks	1953	127972
T	384m S	Tanks	1950	127972
T	385m S	Tanks	1950	127972
16	393m NE	Unspecified Tank	1986	116455
U	407m S	Filter Tanks	1908	120772
W	409m E	Unspecified Tank	1950	116489
U	410m SE	Tanks	1922	131272
U	421m SE	Unspecified Tank	1950	141621
U	421m SE	Unspecified Tank	1953	141621
U	421m SE	Unspecified Tank	1950	141621
T	425m S	Tanks	1908	149325
T	425m S	Tanks	1922	149325
T	425m S	Tanks	1933	149325
T	438m S	Unspecified Tank	1922	115817
AA	479m SE	Unspecified Tank	1908	125751
AA	479m SE	Unspecified Tank	1922	125751

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

53

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 24**

ID	Location	Land Use	Date	Group ID
A	On site	Electricity Substation	1997	62168
D	On site	Gasometer	1908	59726
D	On site	Gasometer	1908	59728
D	On site	Gasometer	1908	59725
D	On site	Gasometer	1908	59727
D	On site	Electricity Substation	1982	62169
E	On site	Gas Works	1908	63856
F	On site	Electricity Substation	1990	62170
I	21m NW	Gasometer	1908	59714
I	22m N	Gasometer	1908	59713
H	35m W	Electricity Substation	1997	64752
H	36m W	Electricity Substation	1991	64752
H	37m W	Electricity Substation	1990	68784
H	37m W	Electricity Substation	1983	68784
H	37m W	Electricity Substation	1984	68784
H	37m W	Electricity Substation	1986	68784
H	37m W	Electricity Substation	1989	68784
A	59m W	Electricity Substation	1949	68495
A	60m W	Electricity Substation	1986	68495
A	122m NW	Electricity Substation	1993	78042
A	122m NW	Electricity Substation	1996	83774
A	123m NW	Electricity Substation	1985	78042
N	183m E	Electricity Substation	1989	84648
N	183m E	Electricity Substation	1990	84648
N	184m E	Electricity Substation	1982	84648
O	208m E	Electricity Substation	1978	67896
O	208m E	Electricity Substation	1983	67896



ID	Location	Land Use	Date	Group ID
O	208m E	Electricity Substation	1995	68098
O	212m E	Electricity Substation	1983	68786
O	212m E	Electricity Substation	1950	68786
O	212m E	Electricity Substation	1973	68786
O	213m E	Electricity Substation	1950	68786
G	262m W	Electricity Substation	1990	75914
G	263m W	Electricity Substation	1991	62166
G	264m W	Electricity Substation	1997	75914
S	273m SW	Electricity Substation	1989	67288
S	274m SW	Electricity Substation	1995	67288
S	274m SW	Electricity Substation	1994	67288
S	274m SW	Electricity Substation	1993	67288
Y	300m SW	Electricity Substation	1950	75997
Y	300m SW	Electricity Substation	1968	75997
Y	300m SW	Electricity Substation	1950	75997
Y	300m SW	Electricity Substation	1989	75997
Y	302m SW	Electricity Substation	1995	81488
Y	302m SW	Electricity Substation	1994	81488
Y	302m SW	Electricity Substation	1993	81488
Y	304m SW	Electricity Substation	1980	72882
AF	415m N	Electricity Substation	1993	69025
AF	415m N	Electricity Substation	1996	69025
AF	416m N	Electricity Substation	1985	69025
AF	416m N	Electricity Substation	1979	77212
AI	492m N	Gas Plant Works	1908	81535
AI	493m N	Gas Plant Works	1922	81535

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

9

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 24**

ID	Location	Land Use	Date	Group ID
14	370m S	Garages	1953	20527
W	381m E	Garage	1978	27575
W	381m E	Garage	1983	23057
W	381m E	Garage	1973	27575
AG	447m W	Garage	1996	20309
AG	448m W	Garage	1997	23468
AG	472m W	Garage	1994	23948
AI	492m N	Garage	1986	25321
AI	492m N	Garage	1991	25321

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



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

3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

1

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

Features are displayed on the Waste and landfill map on **page 38**

ID	Location	Details		
A	238m SE	Site Address: Mount Road Plant Site, Annie Leigh Playing Fields, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: F024 Waste Type: Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m

14

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

Features are displayed on the Waste and landfill map on **page 38**

ID	Location	Address	Further Details	Date
A	287m SE	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1934



ID	Location	Address	Further Details	Date
A	293m SE	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1938
A	314m SE	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1915
A	347m SE	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1956
A	347m SE	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1968
A	362m SE	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1950
A	362m SE	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1950
A	391m SE	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1950
A	409m SE	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1953
A	409m SE	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1950



ID	Location	Address	Further Details	Date
A	413m SE	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1933
A	415m SE	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1923
A	423m SE	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1908
A	423m SE	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1922

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

3.6 Licensed waste sites

Records within 500m

1

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

Features are displayed on the Waste and landfill map on **page 38**

ID	Location	Details		
C	412m S	Site Name: King Autos Site Address: Unit 11, Nutsford Vale, Longsight, Manchester, M12 5QJ Correspondence Address: -	Type of Site: Vehicle Depollution Facility 5000 tps Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: URO001 EPR reference: EA/EPR/BB3005LQ/A001 Operator: Ventaj Urosh Waste Management licence No: 401031 Annual Tonnage: 4999	Issue Date: 12/01/2015 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

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



3.7 Waste exemptions

Records within 500m

15

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 38**

ID	Location	Site	Reference	Category	Sub-Category	Description
B	410m E	VICTORIA WORKS WILLIAMS ROAD OFF HYDE ROAD M18 7AY	EPR/PF0207ST /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
B	411m E	VICTORIA WORKS, WILLIAMS ROAD, GORTON, MANCHESTER, M18 7AY	WEX174065	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
B	411m E	Unit 2 Victoria Works, williams road, Manchester, M18 7AY	WEX112949	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	411m E	Unit 2 Victoria Works, williams road, Manchester, M18 7AY	WEX150945	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	411m E	VICTORIA WORKS, WILLIAMS ROAD, GORTON, MANCHESTER, M18 7AY	WEX174065	Treating waste exemption	Not on a farm	Sorting mixed waste
C	426m S	-	WEX126427	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	426m S	-	WEX126427	Treating waste exemption	Not on a farm	Sorting mixed waste
D	441m E	Victoria Works Williams Road MANCHESTER M18 7AY	EPR/SH0277P D/A001	Treating waste exemption	Both agricultural and non- agricultural waste	Sorting mixed waste
D	441m E	Victoria Works Williams Road MANCHESTER M18 7AY	EPR/SH0277P D/A001	Treating waste exemption	Both agricultural and non- agricultural waste	Preparatory treatments (baling, sorting, shredding etc)
E	479m E	4 Sunny Brow Road MANCHESTER M18 7AE	EPR/PH0013R B/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
E	479m E	4 Sunny Brow Road MANCHESTER M18 7AE	EPR/PH0013R B/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting mixed waste
E	479m E	4 Sunny Brow Road MANCHESTER M18 7AE	EPR/PH0013R B/A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)

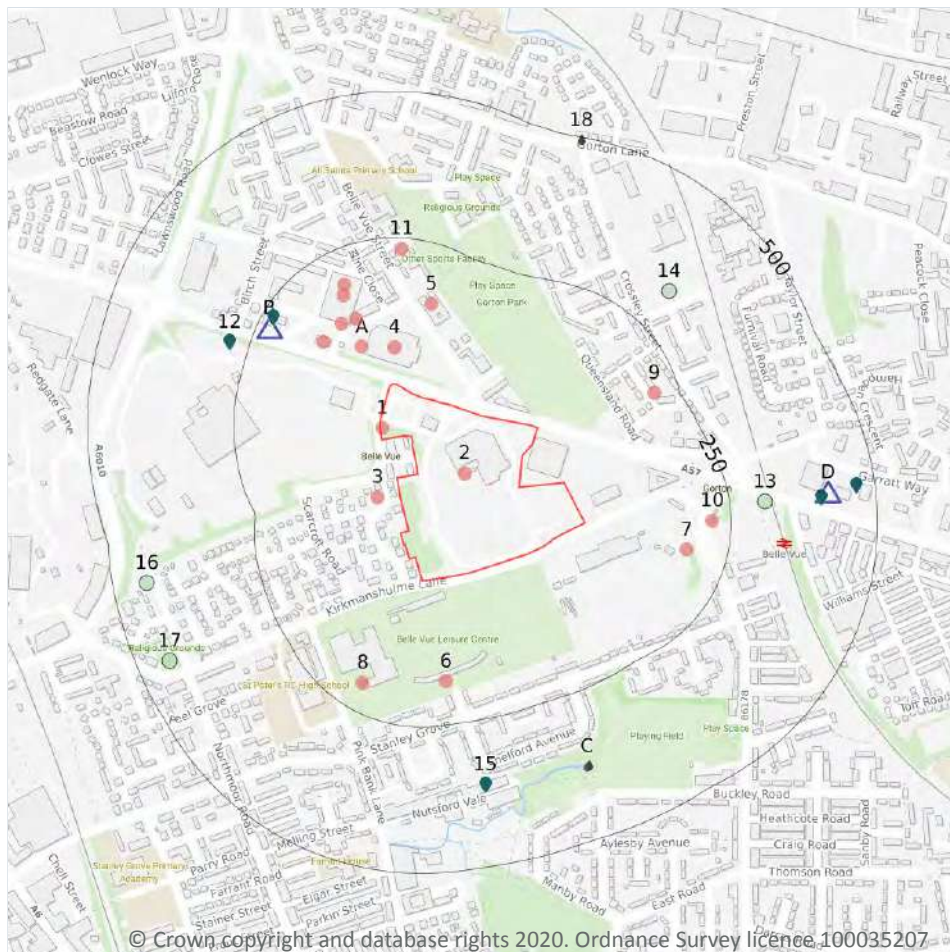


ID	Location	Site	Reference	Category	Sub-Category	Description
F	492m E	VICTORIA WORKS, WILLIAMS ROAD, GORTON, MANCHESTER, M18 7AY	WEX012711	Treating waste exemption	Not on a farm	Sorting mixed waste
F	492m E	VICTORIA WORKS, WILLIAMS ROAD, GORTON, MANCHESTER, M18 7AY	WEX012711	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
F	493m E	Unit 2 Victoria Works, Williams Road, Manchester	EA/EPR/VP388 4QS/A001	Treating waste exemption	Not on a farm	Repair or refurbishment of WEEE

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

17

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 44**

ID	Location	Company	Address	Activity	Category
1	On site	Electricity Sub Station	Greater Manchester, M12	Electrical Features	Infrastructure and Facilities
2	On site	Electricity Sub Station	Greater Manchester, M12	Electrical Features	Infrastructure and Facilities
3	38m W	Electricity Sub Station	Greater Manchester, M12	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
4	63m N	Warehouse	Greater Manchester, M12	Container and Storage	Transport, Storage and Delivery
A	83m NW	Tank	Greater Manchester, M12	Tanks (Generic)	Industrial Features
A	129m NW	Electricity Sub Station	Greater Manchester, M12	Electrical Features	Infrastructure and Facilities
A	136m NW	Warehouse	Greater Manchester, M12	Container and Storage	Transport, Storage and Delivery
A	137m NW	Washbucket Detailing & Valeting Centre	565, Hyde Road, Manchester, Greater Manchester, M12 5NQ	Vehicle Cleaning Services	Personal, Consumer and Other Services
5	150m NE	2468 Squadron Air Training Corps	Territorial Army Centre, Belle Vue Street, Manchester, Greater Manchester, M12 5PW	Armed Services	Central and Local Government
A	174m NW	Warehouse	Greater Manchester, M12	Container and Storage	Transport, Storage and Delivery
6	176m S	Electricity Sub Station	Greater Manchester, M18	Electrical Features	Infrastructure and Facilities
7	180m E	Electricity Sub Station	Greater Manchester, M18	Electrical Features	Infrastructure and Facilities
A	189m NW	P B S I Group Ltd	Belle Vue Works, Boundary Street, Manchester, Greater Manchester, M12 5NG	Electrical Motors and Generators	Industrial Products
8	201m SW	Electricity Sub Station	Greater Manchester, M18	Electrical Features	Infrastructure and Facilities
9	208m E	Electricity Sub Station	Greater Manchester, M18	Electrical Features	Infrastructure and Facilities
10	218m E	Electricity Sub Station	Greater Manchester, M18	Electrical Features	Infrastructure and Facilities
11	232m N	Ambulance Depot	Greater Manchester, M12	Container and Storage	Transport, Storage and Delivery

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 44**

ID	Location	Company	Address	LPG	Status
B	229m NW	UNBRANDED	545, Hyde Road, Gorton, Manchester, Greater Manchester, M12 5NQ	Yes	Closed
D	419m E	TEXACO	Hyde Road, Thornbury Way, Gorton, Manchester, Greater Manchester, M18 7EE	No	Open

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m

0

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

5

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 44**

ID	Location	Address	Details	
B	232m NW	Belle Vue Filling Station, 544 Hyde Road, Belle Vue, Gorton, M12 5NQ	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
12	284m W	Hartwell Manchester, Hyde Road, Belle Vue, Gorton, M12 4SA	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
15	359m S	M And A Demolition UK Ltd, Nutsford Vale, Longsight, M12 5QJ	Process: Other Mineral Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
D	405m E	Speedwell Serv Stn, Hyde Rd, M18 7EE	Process: Petrol Vapour Recovery Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
D	468m E	Malthurst Gorton Service Station, Thornbury Way, Hyde Road, Gorton, M18 7EE	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement 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

3

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 44**



ID	Location	Address	Details	
C	376m S	MOUNT ROAD, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0018 Permit Version: 1 Receiving Water: -	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 13/05/1993 Revocation Date: 01/01/1995
C	376m S	MOUNT ROAD COMBINED SEWER OVERFLOW, 59 MOUNT ROAD, GORTON, MANCHESTER, GREATER MANCHESTER, M18 7BW	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0246 Permit Version: 3 Receiving Water: GORE BROOK VIA SWS	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 06/11/2019 Effective Date: 06/11/2019 Revocation Date: -
18	494m N	GORTON LN/CROSSLEY ST, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 01MAN0214 Permit Version: 1 Receiving Water: CORN BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 15/09/1993 Revocation Date: 15/09/1993

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

4

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 44**

ID	Location	Details	
13	309m E	Incident Date: 19/04/2002 Incident Identification: 73121 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
14	323m NE	Incident Date: 18/11/2008 Incident Identification: 639771 Pollutant: Specific Waste Materials Pollutant Description: Vehicles and Vehicle Parts	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
16	441m W	Incident Date: 24/10/2002 Incident Identification: 116561 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
17	444m SW	Incident Date: 06/10/2003 Incident Identification: 194509 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)

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

4.19 Pollution inventory substances

Records within 500m

0

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



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

4.20 Pollution inventory waste transfers

Records within 500m

0

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

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

4.21 Pollution inventory radioactive waste

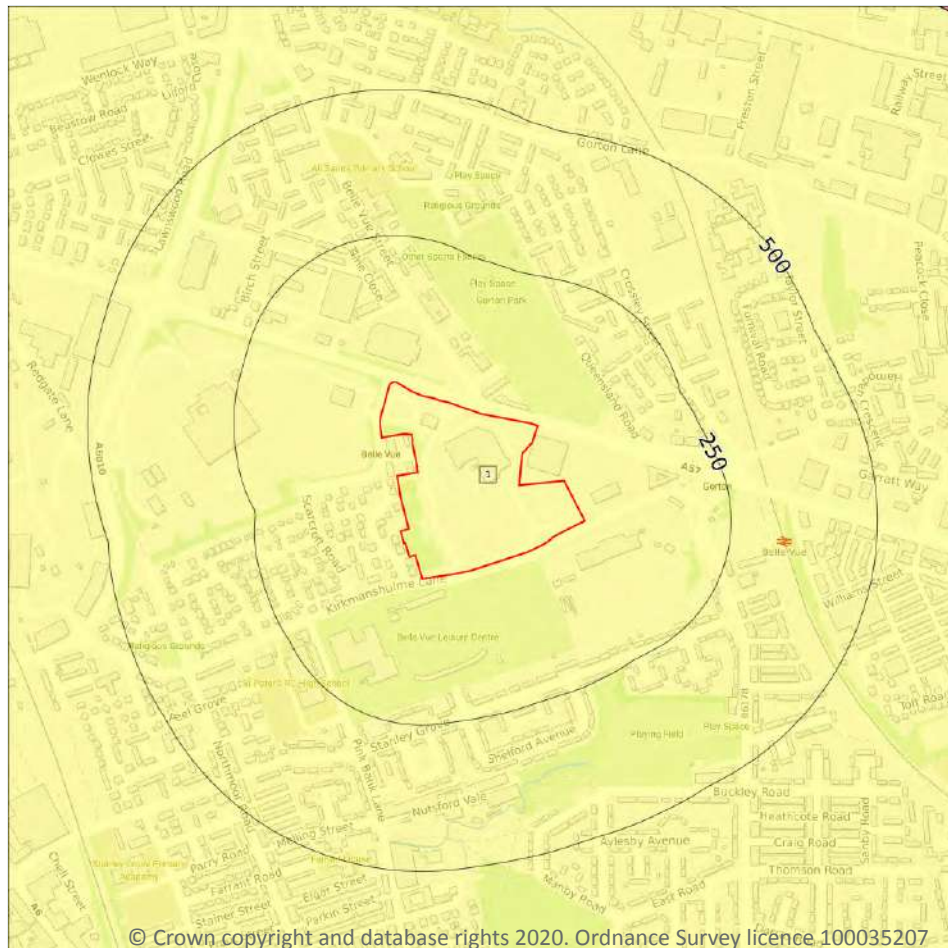
Records within 500m

0

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

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

5 Hydrogeology - Superficial aquifer



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

5.1 Superficial aquifer

Records within 500m

1

Aquifer status of groundwater held within superficial geology.

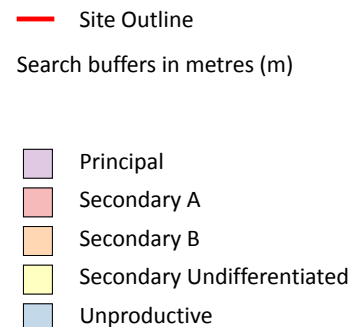
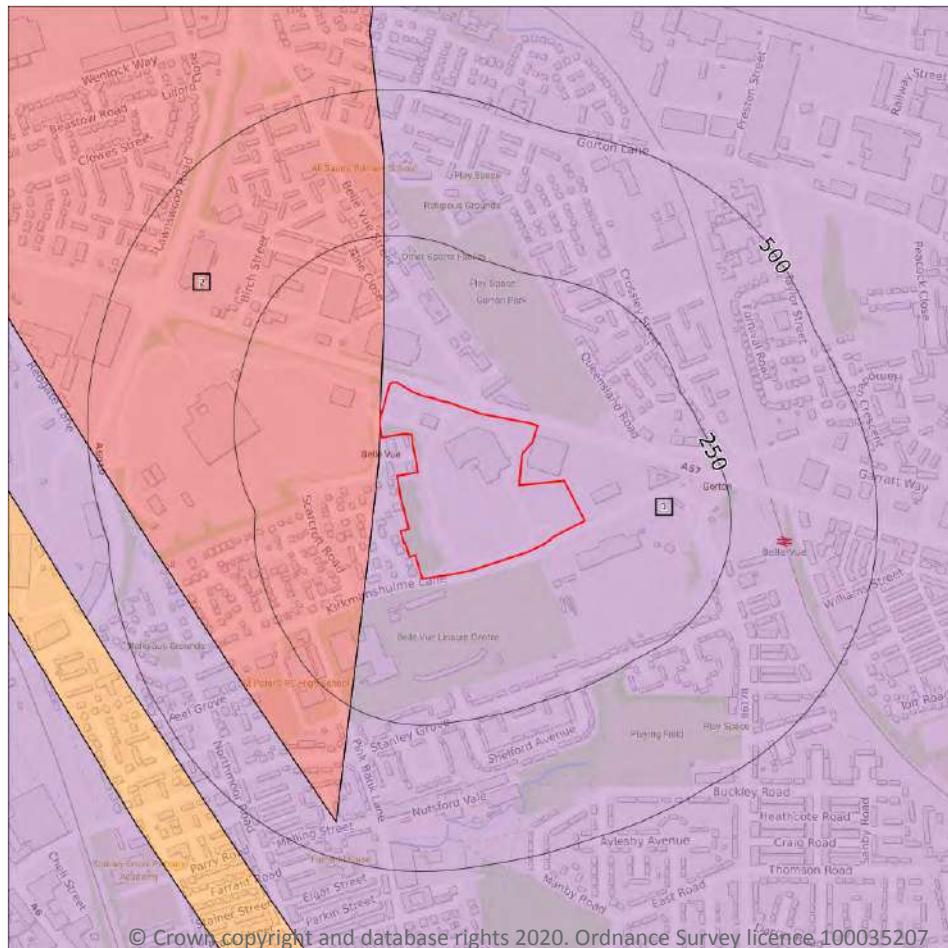
Features are displayed on the Hydrogeology map on **page 52**

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

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



Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

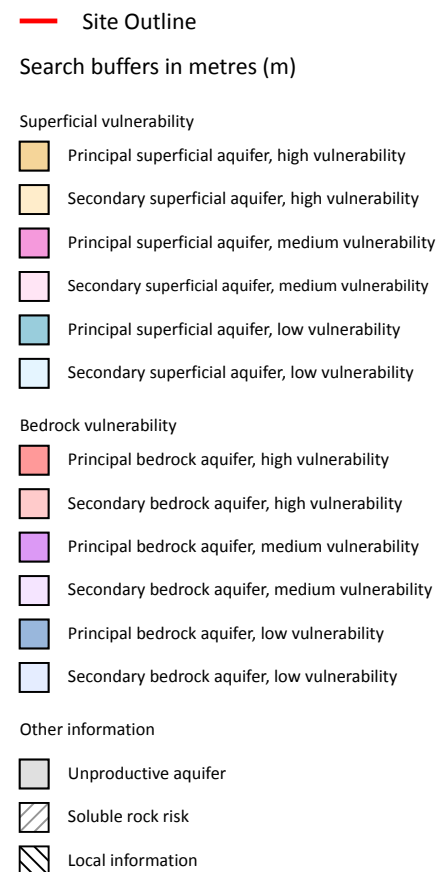
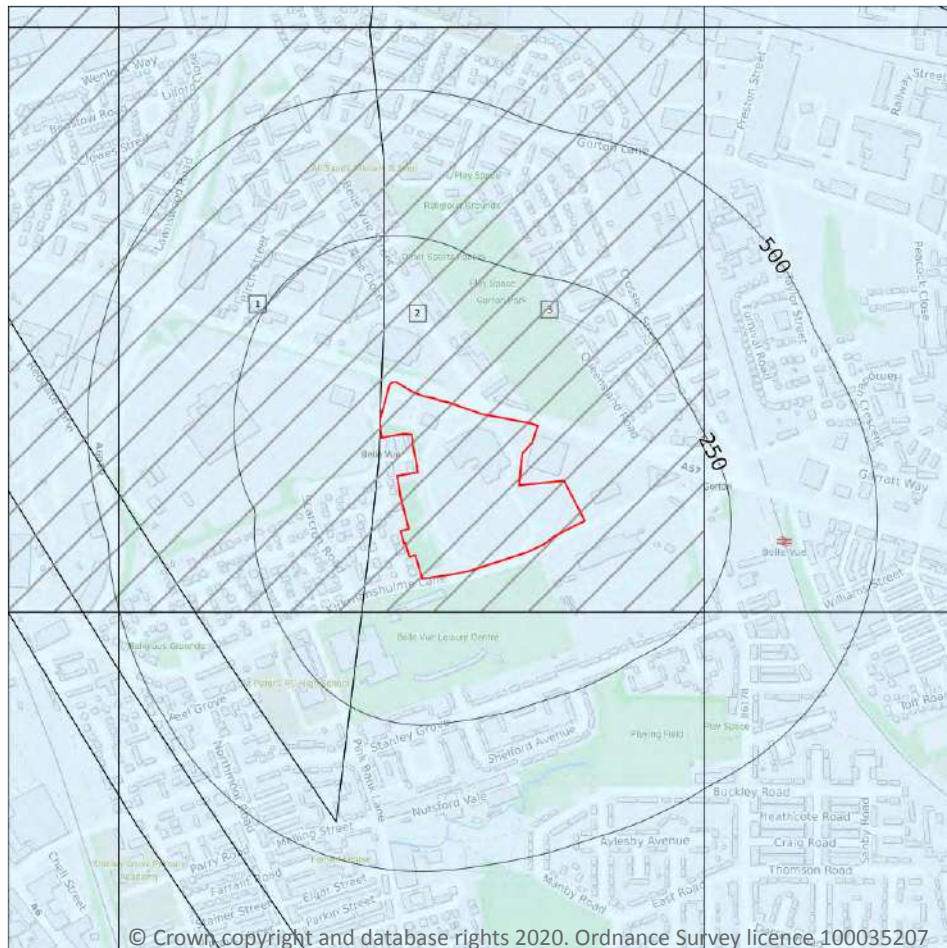
Features are displayed on the Bedrock aquifer map on **page 53**

ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

2

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

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

Features are displayed on the Groundwater vulnerability map on **page 55**



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: 300- 550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
3	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: 300- 550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	1
------------------------	----------

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
2	Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.	2.0%

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

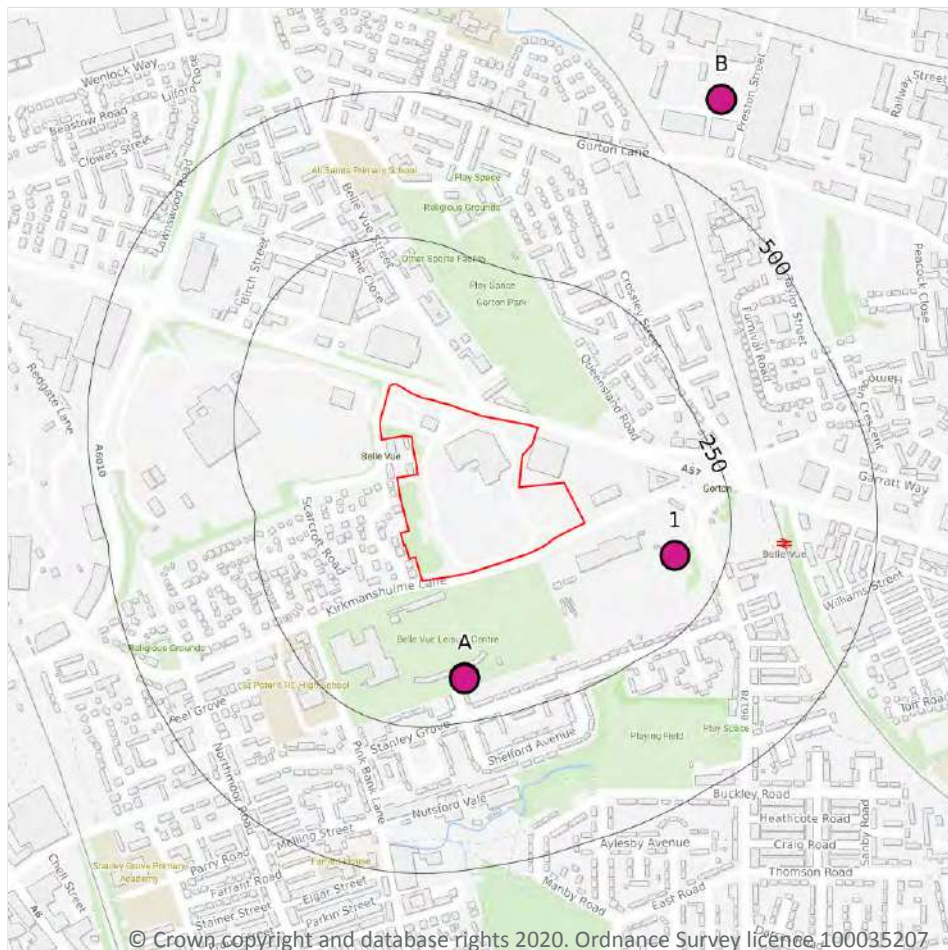
5.5 Groundwater vulnerability- local information

Records on site	0
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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



5.6 Groundwater abstractions

Records within 2000m

26

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 57**

ID	Location	Details	
1	163m E	Status: Historical Licence No: 2569006043 Details: Dust Suppression Direct Source: Ground Water - North West Region Point: PERMO-TRIASSIC SANDSTONE AT BELLE VUE, MANCHESTER Data Type: Point Name: G R A LIMITED Easting: 387950 Northing: 396100	Annual Volume (m ³): 4000 Max Daily Volume (m ³): 22 Original Application No: - Original Start Date: 20/06/2003 Expiry Date: 31/03/2014 Issue No: 2 Version Start Date: 01/04/2008 Version End Date: -
A	174m S	Status: Historical Licence No: 2569006042 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: PERMO-TRIASSIC SANDSTONE AT BELLE VUE LEISURE CENTRE Data Type: Point Name: CLIVE BACK Easting: 387591 Northing: 395891	Annual Volume (m ³): 10000 Max Daily Volume (m ³): 276 Original Application No: - Original Start Date: 11/07/2002 Expiry Date: 31/03/2014 Issue No: 4 Version Start Date: 29/02/2012 Version End Date: -
A	174m S	Status: Historical Licence No: NW/069/0006/006 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: PERMO-TRIASSIC SANDSTONE AT BELLE VUE LEISURE CENTRE Data Type: Point Name: The Chief Operating Officer of the Eastlands Trust Easting: 387591 Northing: 395891	Annual Volume (m ³): 8000 Max Daily Volume (m ³): 276 Original Application No: - Original Start Date: 16/05/2014 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 16/05/2014 Version End Date: -
A	175m S	Status: Historical Licence No: 2569006042 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: PERMO-TRIASSIC SANDSTONE AT BELLE VUE LEISURE CENTRE Data Type: Point Name: CLIVE BACK Easting: 387590 Northing: 395890	Annual Volume (m ³): 15000 Max Daily Volume (m ³): 276 Original Application No: - Original Start Date: 11/07/2002 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 04/02/2009 Version End Date: -



ID	Location	Details	
B	643m NE	Status: Historical Licence No: 2569006044 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PRESTON STREET, GORTON, MANCHESTER Data Type: Point Name: CEMEX UK MATERIALS LTD Easting: 388030 Northing: 396880	Annual Volume (m ³): 15000 Max Daily Volume (m ³): 115 Original Application No: - Original Start Date: 23/10/2003 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 15/10/2007 Version End Date: -
B	643m NE	Status: Active Licence No: NW/069/0004/012 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PRESTON STREET, MANCHESTER Data Type: Point Name: Cemex UK Materials Limited Easting: 388030 Northing: 396880	Annual Volume (m ³): 7,500 Max Daily Volume (m ³): 72 Original Application No: - Original Start Date: 19/06/2014 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 21/12/2018 Version End Date: -
-	1613m SE	Status: Historical Licence No: 2569013018 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT SANDFOLD LANE, LEVENSHULME, MANCHESTER" Data Type: Point Name: CBA ENTERPRISES LTD Easting: 388500 Northing: 394700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/06/1992 Expiry Date: - Issue No: 100 Version Start Date: 29/03/1996 Version End Date: -
-	1613m SE	Status: Historical Licence No: 2569013018 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT SANDFOLD LANE, LEVENSHULME, MANCHESTER Data Type: Point Name: CBA ENTERPRISES LTD Easting: 388500 Northing: 394700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/06/1992 Expiry Date: - Issue No: 100 Version Start Date: 29/03/1996 Version End Date: -



ID	Location	Details	
-	1613m SE	Status: Historical Licence No: 2569013018 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT SANDFOLD LANE LEVENSHULME MANCHESTER Data Type: Point Name: CBA ENTERPRISES LTD Easting: 388500 Northing: 394700	Annual Volume (m ³): 117835 Max Daily Volume (m ³): 409 Original Application No: - Original Start Date: 18/06/1992 Expiry Date: - Issue No: 100 Version Start Date: 29/03/1996 Version End Date: -
-	1652m N	Status: Historical Licence No: NW/069/0006/005 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT OPENSHAW, WEST ASHTON Data Type: Point Name: MANCHESTER CITY FOOTBALL CLUB LIMITED Easting: 387681 Northing: 398032	Annual Volume (m ³): 266113 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 14/11/2012 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 14/11/2012 Version End Date: -
-	1652m N	Status: Historical Licence No: NW/069/0006/005 Details: Horticultural Watering Direct Source: Ground Water - North West Region Point: BOREHOLE AT OPENSHAW, WEST ASHTON Data Type: Point Name: MANCHESTER CITY FOOTBALL CLUB LIMITED Easting: 387681 Northing: 398032	Annual Volume (m ³): 266113 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 14/11/2012 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 14/11/2012 Version End Date: -
-	1652m N	Status: Historical Licence No: NW/069/0006/005 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT OPENSHAW, WEST ASHTON Data Type: Point Name: MANCHESTER CITY FOOTBALL CLUB LIMITED Easting: 387681 Northing: 398032	Annual Volume (m ³): 266113 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 14/11/2012 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 14/11/2012 Version End Date: -
-	1652m N	Status: Active Licence No: NW/069/0006/005/R01 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT OPENSHAW, WEST ASHTON Data Type: Point Name: MANCHESTER CITY FOOTBALL CLUB LIMITED Easting: 387681 Northing: 398032	Annual Volume (m ³): 221,650 Max Daily Volume (m ³): 1,000 Original Application No: - Original Start Date: 01/04/2018 Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -

ID	Location	Details	
-	1652m N	Status: Active Licence No: NW/069/0006/005/R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT OPENSHAW, WEST ASHTON Data Type: Point Name: MANCHESTER CITY FOOTBALL CLUB LIMITED Easting: 387681 Northing: 398032	Annual Volume (m ³): 221,650 Max Daily Volume (m ³): 1,000 Original Application No: - Original Start Date: 01/04/2018 Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -
-	1706m W	Status: Historical Licence No: NW/069/0004/005 Details: Heat Pump Direct Source: Ground Water - North West Region Point: AREA OF ABSTRACTION - LOWER CARBONIFEROUS LIMESTONE Data Type: Poly4 Name: G T Energy UK Limited Easting: 385729 Northing: 396778	Annual Volume (m ³): 2,049,840 Max Daily Volume (m ³): 8640 Original Application No: - Original Start Date: 17/01/2013 Expiry Date: 16/01/2037 Issue No: 2 Version Start Date: 11/06/2013 Version End Date: -
-	1722m N	Status: Historical Licence No: 2569006026 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, CLAYTON, MANCHESTER" Data Type: Point Name: CIBA SPECIALTY CHEMICALS PLC Easting: 387700 Northing: 398100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/07/2000 Version End Date: -
-	1722m N	Status: Historical Licence No: 2569006026 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, CLAYTON, MANCHESTER" Data Type: Point Name: CIBA SPECIALTY CHEMICALS PLC Easting: 387700 Northing: 398100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/07/2000 Version End Date: -



ID	Location	Details	
-	1722m N	Status: Historical Licence No: 2569006026 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, CLAYTON, MANCHESTER Data Type: Point Name: CIBA SPECIALTY CHEMICALS PLC Easting: 387700 Northing: 398100	Annual Volume (m ³): 633962 Max Daily Volume (m ³): 2837 Original Application No: - Original Start Date: 24/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/07/2000 Version End Date: -
-	1722m N	Status: Historical Licence No: 2569006026 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, CLAYTON, MANCHESTER Data Type: Point Name: CIBA SPECIALTY CHEMICALS PLC Easting: 387700 Northing: 398100	Annual Volume (m ³): 633962 Max Daily Volume (m ³): 2837 Original Application No: - Original Start Date: 24/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/07/2000 Version End Date: -
-	1882m N	Status: Historical Licence No: 2569006036 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE ON PREMISES AT CLAYTON, MANCHESTER" Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1882m N	Status: Historical Licence No: 2569006036 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE ON PREMISES AT CLAYTON, MANCHESTER" Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -

ID	Location	Details	
-	1882m N	Status: Historical Licence No: 2569006036 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE ON PREMISES AT CLAYTON, MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1882m N	Status: Historical Licence No: 2569006036 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE ON PREMISES AT CLAYTON, MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1882m N	Status: Historical Licence No: 2569006036 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE ON PREMISES AT CLAYTON MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m ³): 372772 Max Daily Volume (m ³): 3600.5 Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1882m N	Status: Historical Licence No: 2569006036 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE ON PREMISES AT CLAYTON MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m ³): 372772 Max Daily Volume (m ³): 3600.5 Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -

ID	Location	Details	
-	1963m N	Status: Active Licence No: 2569006036 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: BOREHOLE ON PREMISES AT CLAYTON, MANCHESTER Data Type: Point Name: Evonik Chemicals Limited Easting: 388027 Northing: 398277	Annual Volume (m ³): 372,772 Max Daily Volume (m ³): 3,600.50 Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 103 Version Start Date: 09/03/2017 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	0
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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.

5.8 Potable abstractions

Records within 2000m	0
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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.

5.9 Source Protection Zones

Records within 500m	0
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Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m

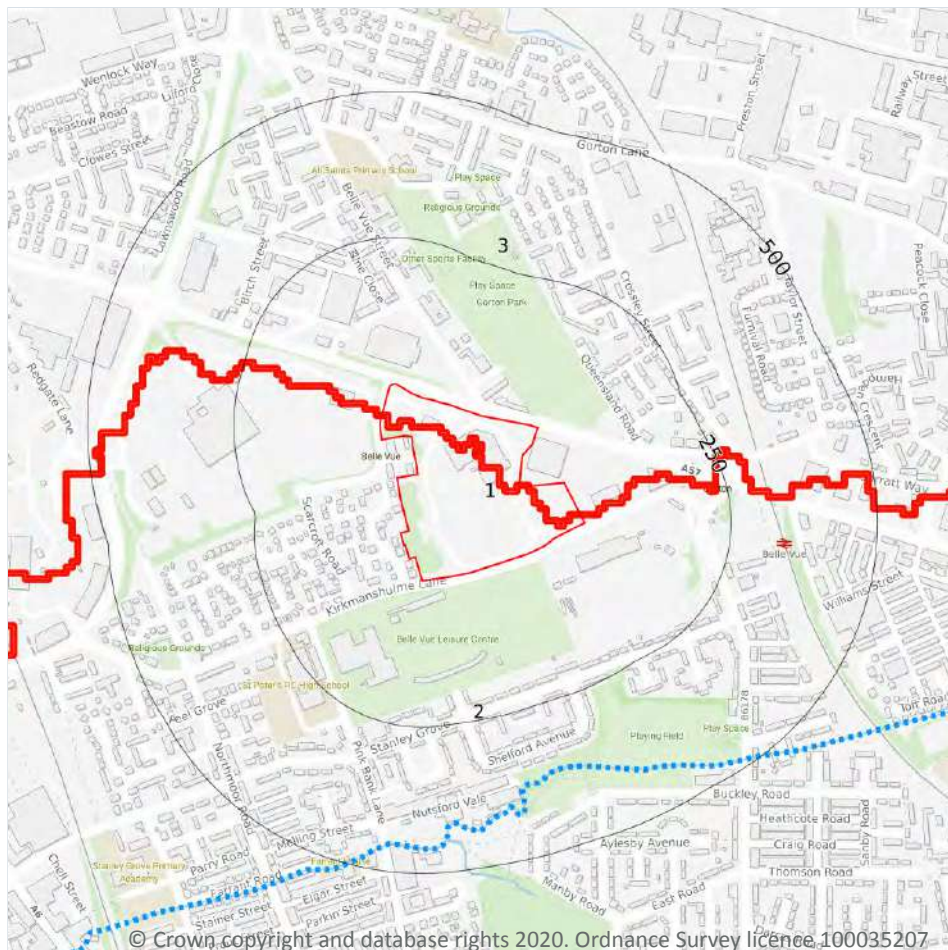
0

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

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



6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

0

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

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

0

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.



This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	2
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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 66**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	On site	River WB catchment	Platt Brook (Source to Fallowfield Bk)	GB112069061060	Bollin, Dean, Upper Mersey	Upper Mersey
3	On site	River WB catchment	Irwell / Manchester Ship Canal (Irk to confluence with Upper Mersey)	GB112069061452	Croal Irwell	Irwell

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

6.4 WFD Surface water bodies

Records identified	2
---------------------------	----------

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 66**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
4	366m S	River	Platt Brook (Source to Fallowfield Bk)	GB112069061060	Moderate	Good	Moderate	2016
-	4359m NW	River	Irwell / Manchester Ship Canal (Irk to confluence with Upper Mersey)	GB112069061452	Moderate	Good	Moderate	2016

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



6.5 WFD Groundwater bodies

Records on site

1

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

Features are displayed on the Hydrology map on **page 66**

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

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



7 River and coastal flooding

7.1 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.

7.2 Historical Flood Events

Records within 250m

0

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.

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

7.3 Flood Defences

Records within 250m

0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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



7.5 Flood Storage Areas

Records within 250m

0

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

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



River and coastal flooding - Flood Zones

7.6 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.

7.7 Flood Zone 3

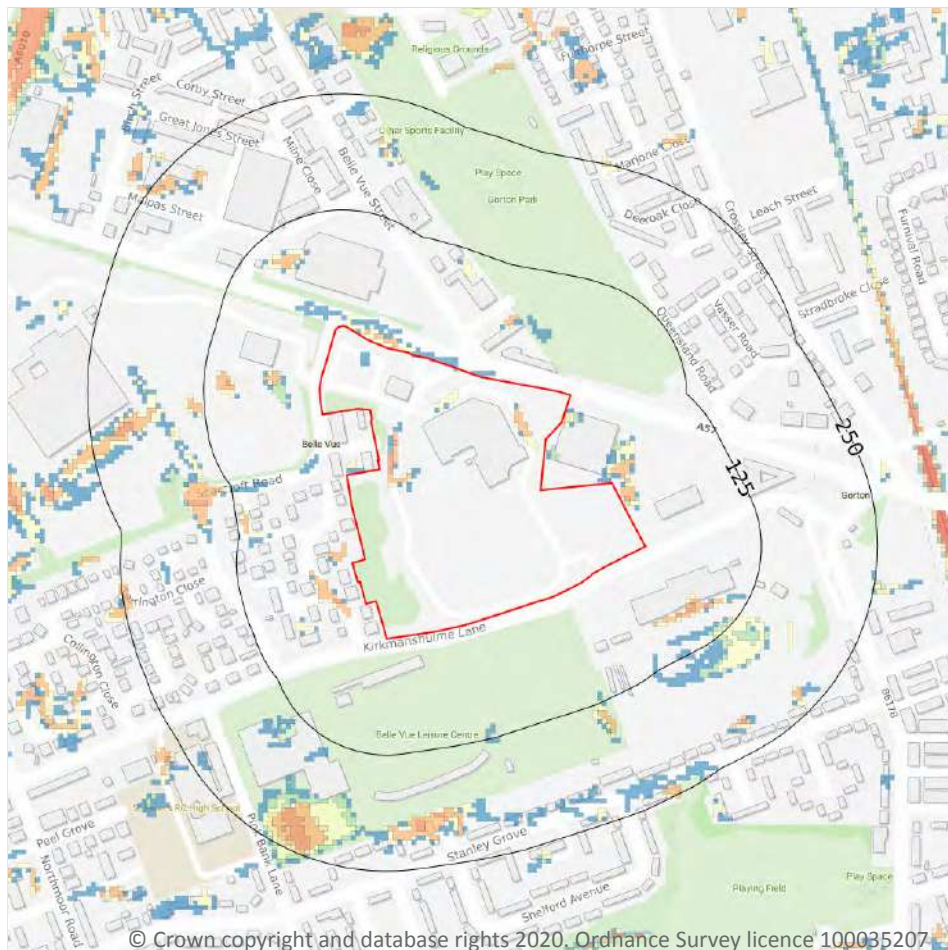
Records within 50m

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.

8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.3m - 1.0m

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

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

Features are displayed on the Surface water flooding map on **page 72**

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.

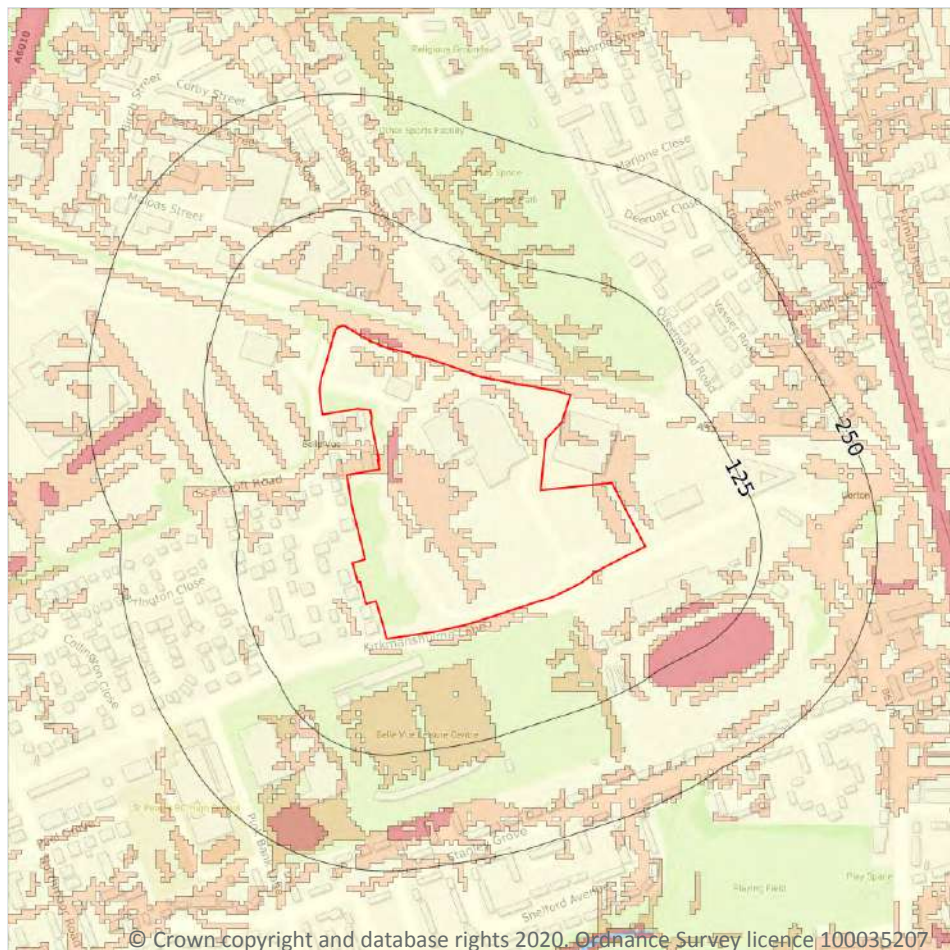
The table below shows the maximum flood depths for a range of return periods for the site.

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

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

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

9.1 Groundwater flooding

Highest risk on site

High

Highest risk within 50m

High

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

Features are displayed on the Groundwater flooding map on **page 74**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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



10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m

0

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

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

10.7 Designated Ancient Woodland

Records within 2000m

0

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

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

10.8 Biosphere Reserves

Records within 2000m

0

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

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

10.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

0

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

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

10.12 Proposed Ramsar sites

Records within 2000m

0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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



10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

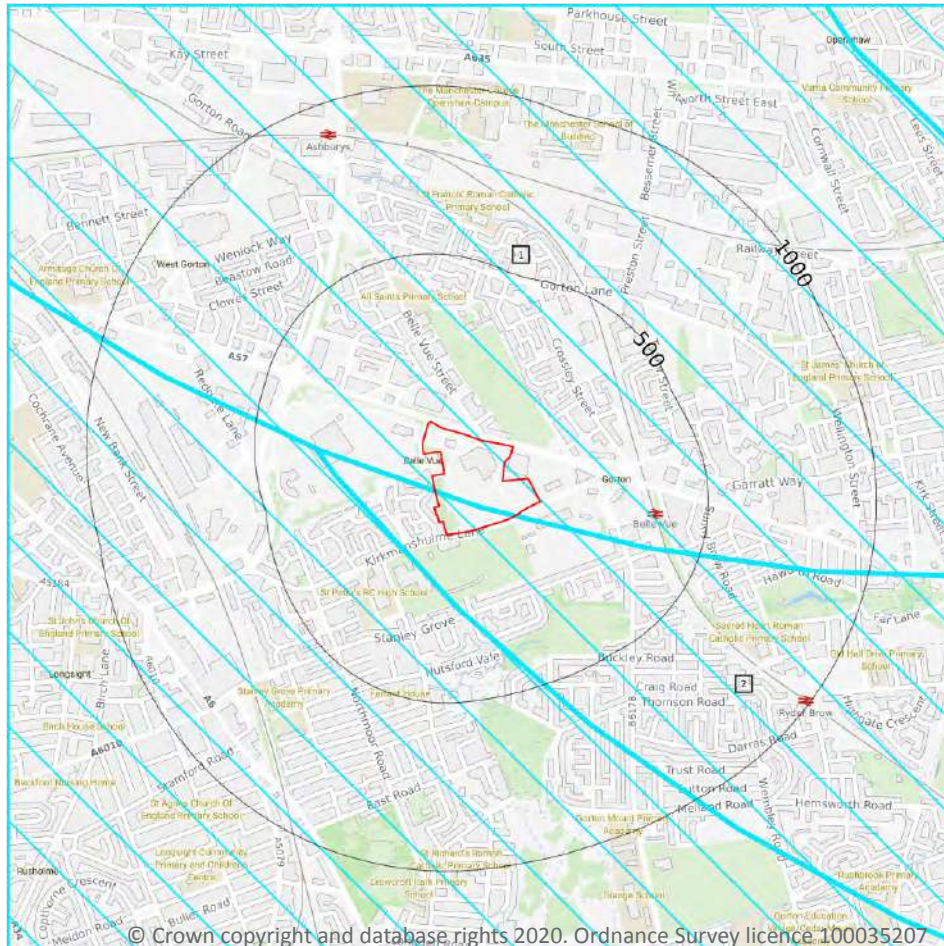
Records within 2000m

0

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.

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

SSSI Impact Zones and Units



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

10.17 SSSI Impact Risk Zones

Records on site

2

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 79**

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t). 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.
2	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t. Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

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

11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

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.

11.5 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.

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

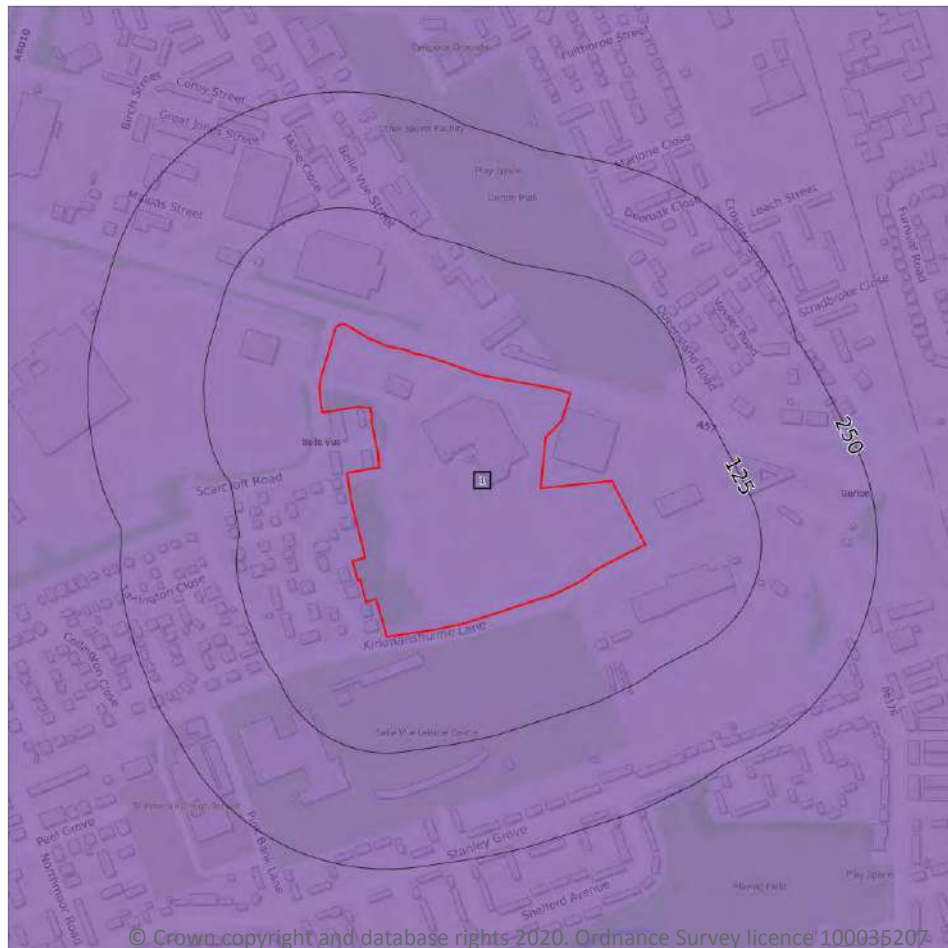
0

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

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



12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

1

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

Features are displayed on the Agricultural designations map on **page 83**

ID	Location	Classification	Description
1	On site	Urban	-

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m

0

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

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

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.

13.4 Limestone Pavement Orders

Records within 250m

0

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



- Site Outline**
- Search buffers in metres (m)**
- Full coverage
 - Partial coverage
 - No coverage

14.1 10k Availability

Records within 500m

1

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

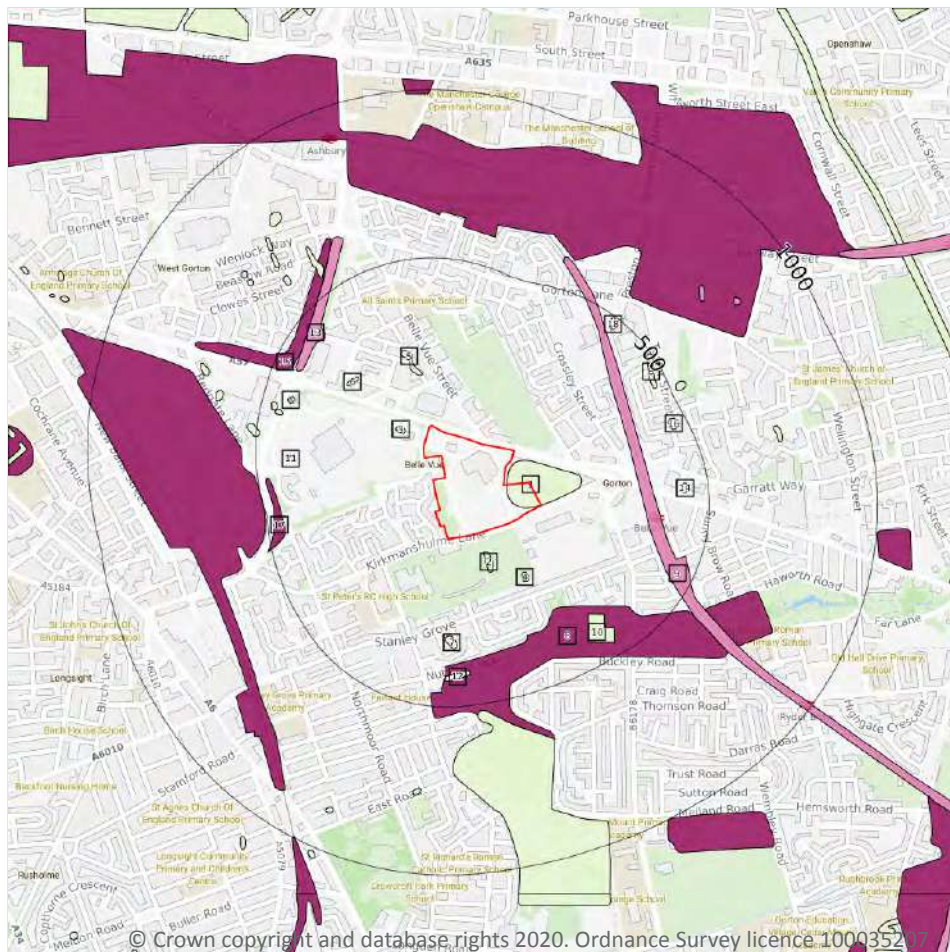
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 86**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SJ89NE

This data is sourced from the British Geological Survey.



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



— Site Outline
Search buffers in metres (m)

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

14.2 Artificial and made ground (10k)

Records within 500m

23

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 87**

ID	Location	LEX Code	Description	Rock description
1	On site	WMGR-ARTDP	Infilled Ground	Artificial Deposit
2	57m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
3	66m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
4	151m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit

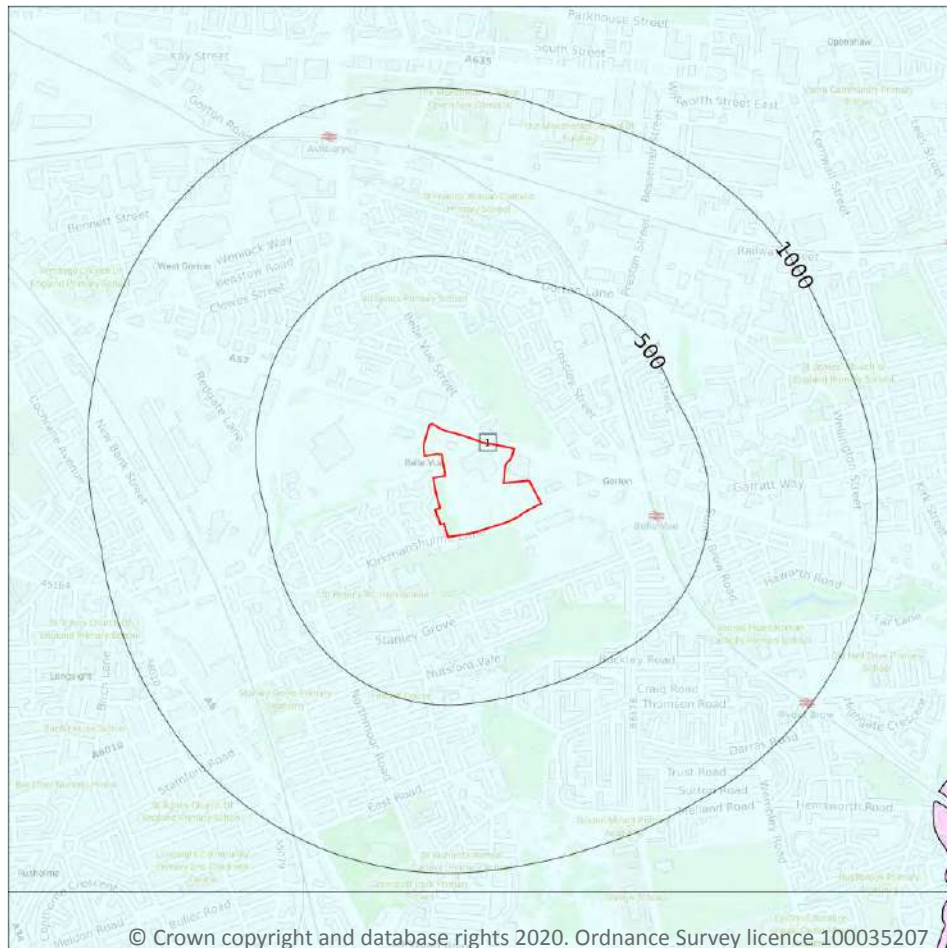


ID	Location	LEX Code	Description	Rock description
5	153m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
6	255m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
7	288m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
8	288m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
9	297m E	WGR-VOID	Worked Ground (Undivided)	Void
10	351m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
11	384m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
12	397m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	407m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
13	408m NW	WGR-VOID	Worked Ground (Undivided)	Void
14	420m E	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	430m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
15	442m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
16	450m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	450m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
17	450m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	454m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
18	463m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	489m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m

1

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 89**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton

This data is sourced from the British Geological Survey.



14.4 Landslip (10k)

Records within 500m

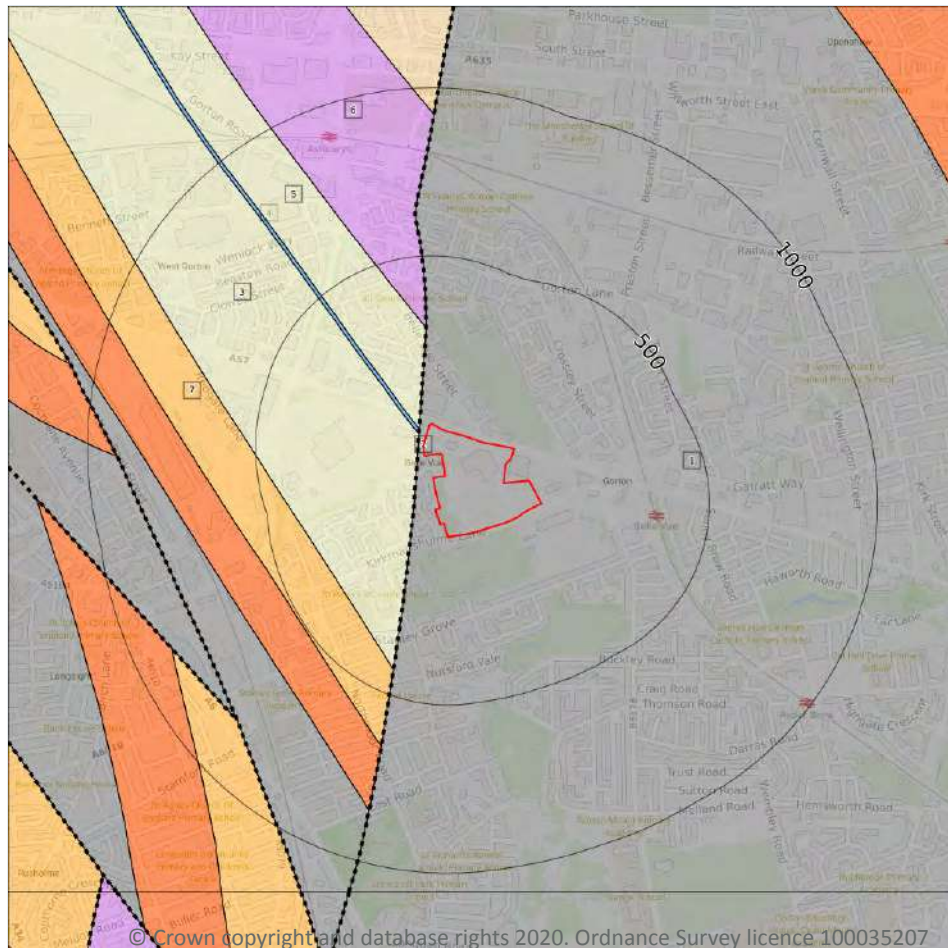
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



14.5 Bedrock geology (10k)

Records within 500m

6

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 91**

ID	Location	LEX Code	Description	Rock age
1	On site	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
3	16m W	HA-MDSS	Halesowen Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
4	23m W	GML-LMST	Great Mine Limestone - Limestone	Westphalian D Sub-age



ID	Location	LEX Code	Description	Rock age
5	26m W	HA-MDSS	Halesowen Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
6	286m N	ETM-STMD	Etruria Formation - Sandstone And Mudstone	Westphalian Age
7	348m SW	CS-SDST	Collyhurst Sandstone Formation - Sandstone	Cisuralian Epoch

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

1

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

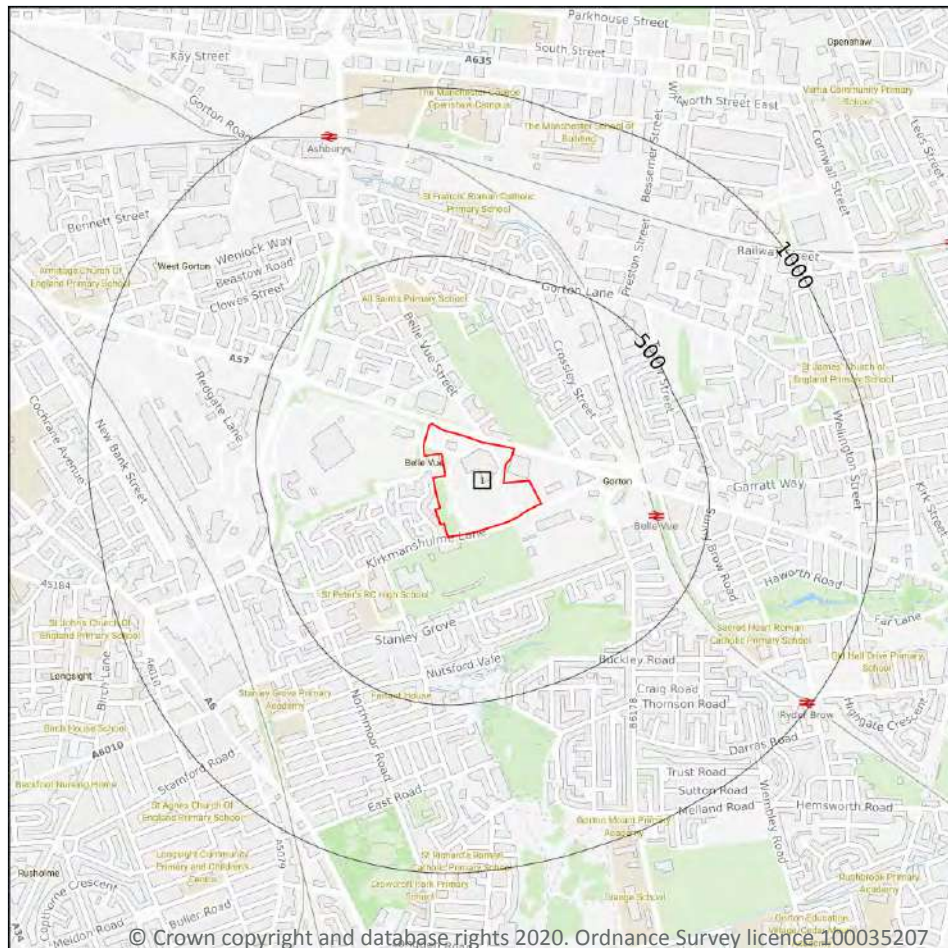
Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 91**

ID	Location	Category	Description
2	16m W	FAULT	Normal fault, inferred; crossmarks on downthrow side

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
Search buffers in metres (m)

☐ Geological map tile

15.1 50k Availability

Records within 500m

1

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

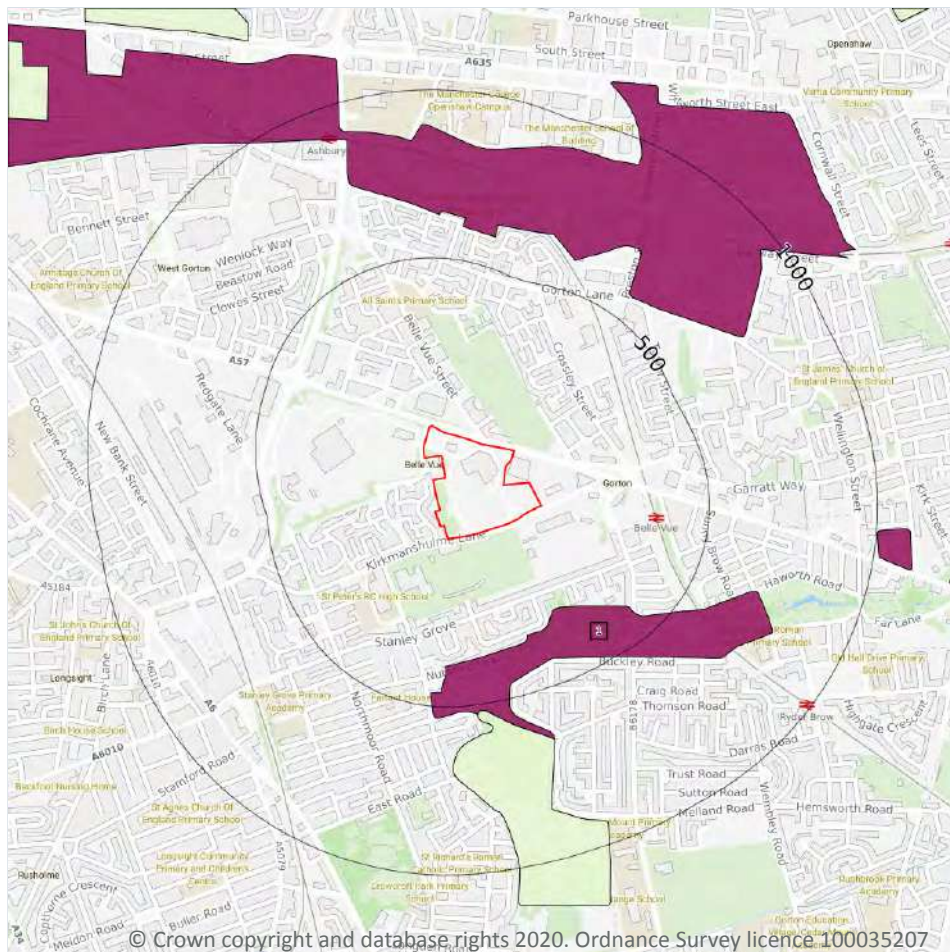
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 93**

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

This data is sourced from the British Geological Survey.



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



- Site Outline
- Search buffers in metres (m)
- Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

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15.2 Artificial and made ground (50k)

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 94**

ID	Location	LEX Code	Description	Rock description
1	289m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.



15.3 Artificial ground permeability (50k)

Records within 50m

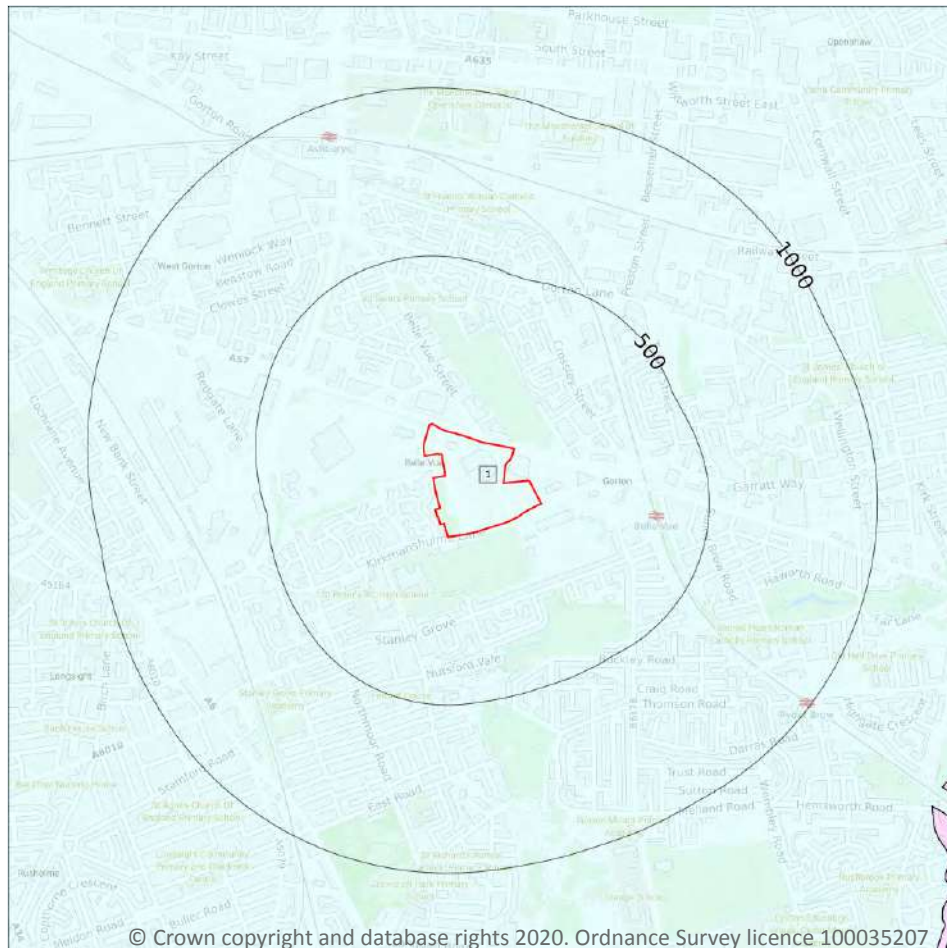
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

 Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 96**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	TILL, DEVANSIAN	DIAMICTON

This data is sourced from the British Geological Survey.



15.5 Superficial permeability (50k)

Records within 50m**1**

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

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m**0**

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

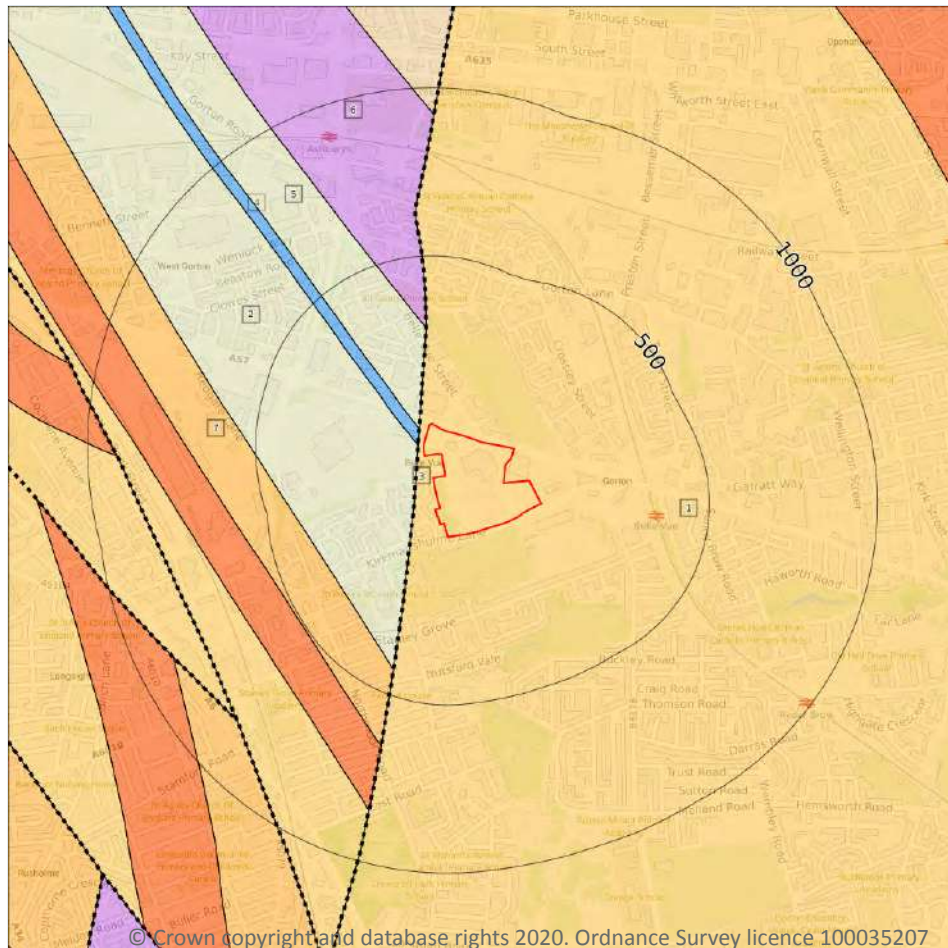
Records within 50m**0**

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

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

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

15.8 Bedrock geology (50k)

Records within 500m

6

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 98**

ID	Location	LEX Code	Description	Rock age
1	On site	CHES-SDST	CHESTER FORMATION - SANDSTONE	OLENEKIAN
2	17m W	HA-MDSS	HALESOWEN FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
4	17m W	GML-LMST	GREAT MINE LIMESTONE - LIMESTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
5	25m W	HA-MDSS	HALESOWEN FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
6	286m N	ETM-STMD	ETRURIA FORMATION - SANDSTONE AND MUDSTONE	WESTPHALIAN
7	348m SW	CS-SDST	COLLYHURST SANDSTONE FORMATION - SANDSTONE	-

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

4

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Moderate
17m NW	Fracture	Moderate	Low
17m NW	Fracture	High	High
25m NW	Fracture	Moderate	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

1

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

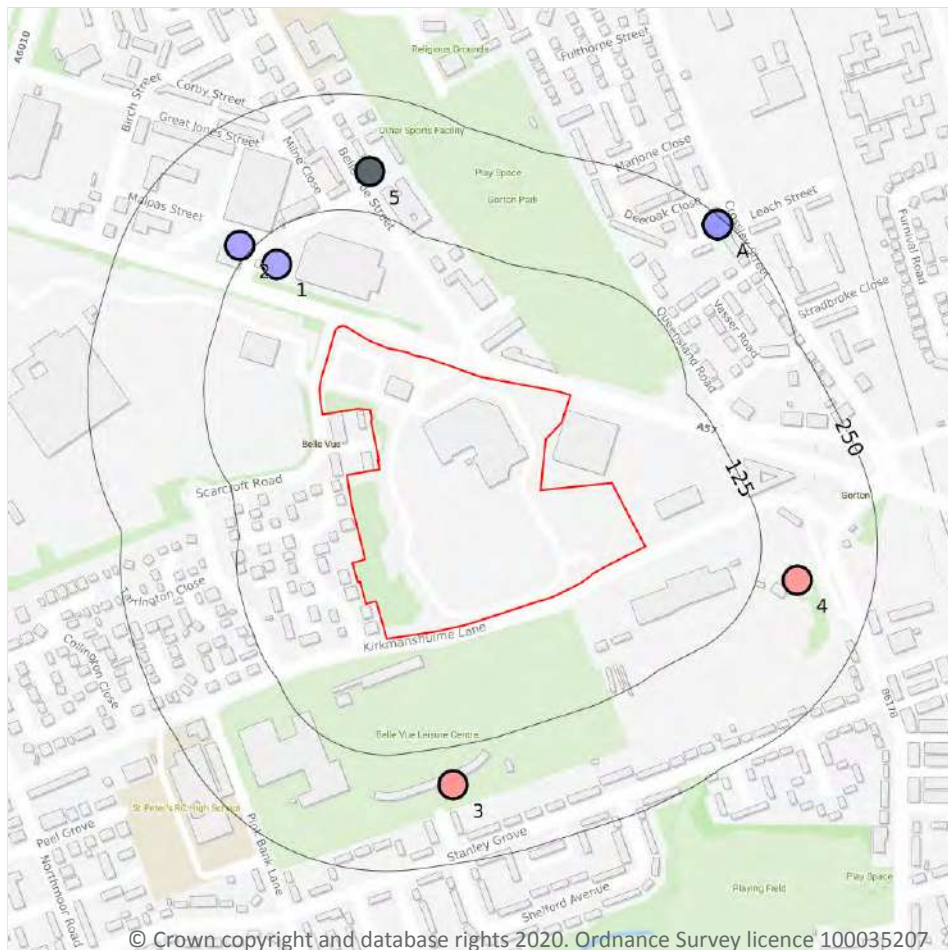
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 98**

ID	Location	Category	Description
3	17m W	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m

9

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

Features are displayed on the Boreholes map on **page 100**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	95m NW	387400 396460	HYDE ROAD MANCHESTER 1	10.0	N	937063
2	137m NW	387360 396480	HYDE ROAD MANCHESTER 2	10.0	N	937064
3	165m S	387590 395900	BELLE VUE LEISURE CENTRE	70.0	N	1135048

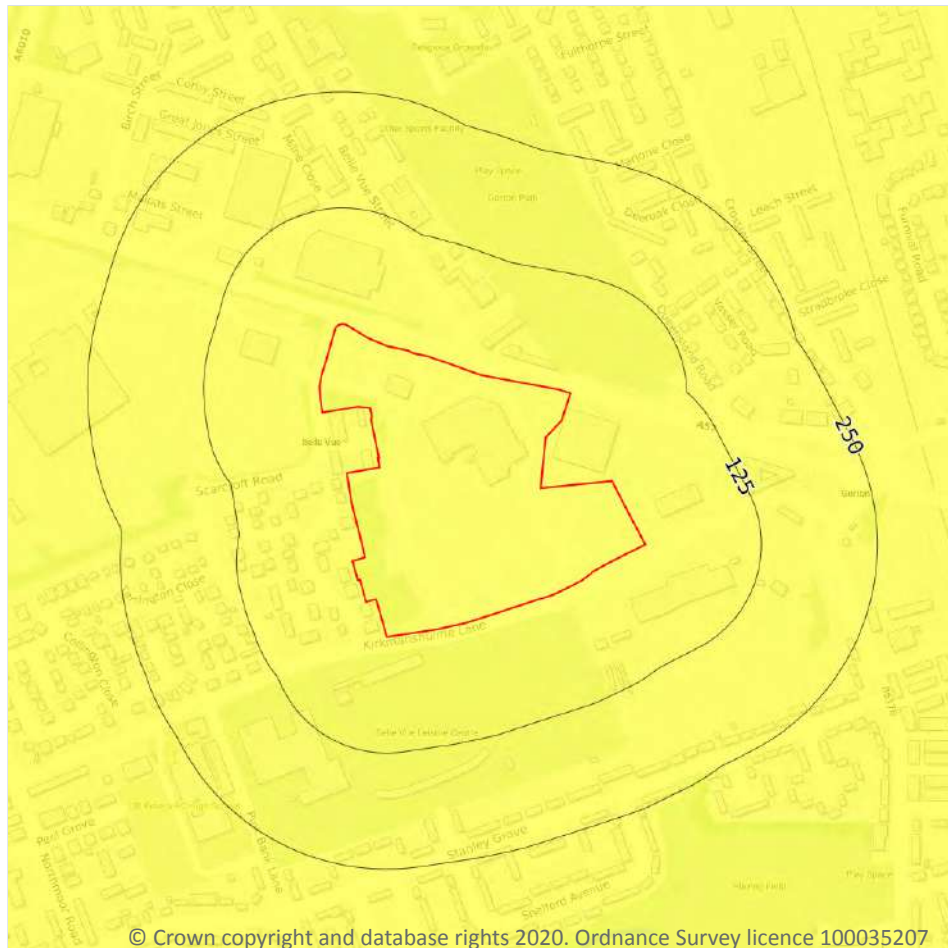


ID	Location	Grid reference	Name	Length	Confidential	Web link
4	168m E	387960 396120	BELLE VUE GREYHOUND STADIUM	70.19	N	12701056
5	169m N	387500 396560	BELLE VUE STREET GORTON BH2	-	Y	N/A
A	242m NE	387874 396502	68-70 CROSSLEY STREET GORTON 1	2.5	N	15636547
A	242m NE	387874 396502	68-70 CROSSLEY STREET GORTON 2	2.7	N	15636552
A	242m NE	387874 396502	68-70 CROSSLEY STREET GORTON 1A	2.5	N	15636550
A	242m NE	387874 396502	68-70 CROSSLEY STREET GORTON TP	0.93	N	15636555

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



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— Site Outline
Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m

1

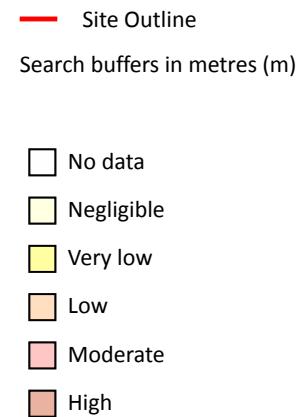
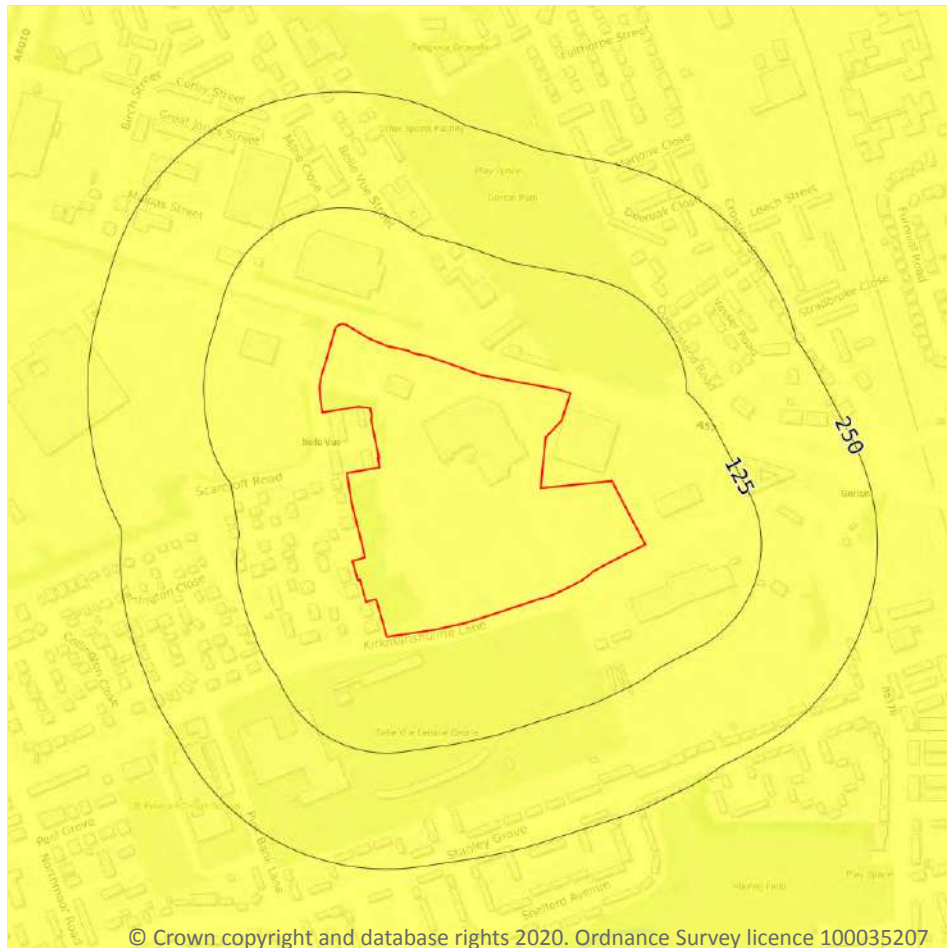
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 102**

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



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17.2 Running sands

Records within 50m

1

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

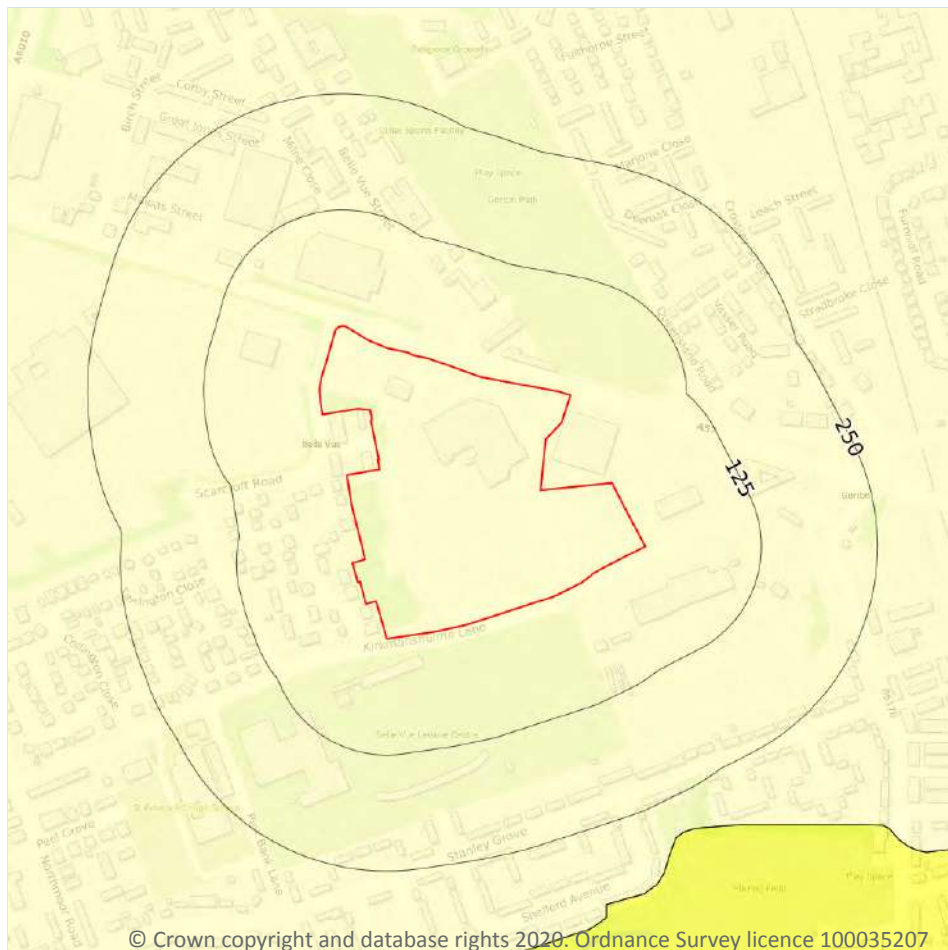
Features are displayed on the Natural ground subsidence - Running sands map on **page 103**

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



— Site Outline
Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m

1

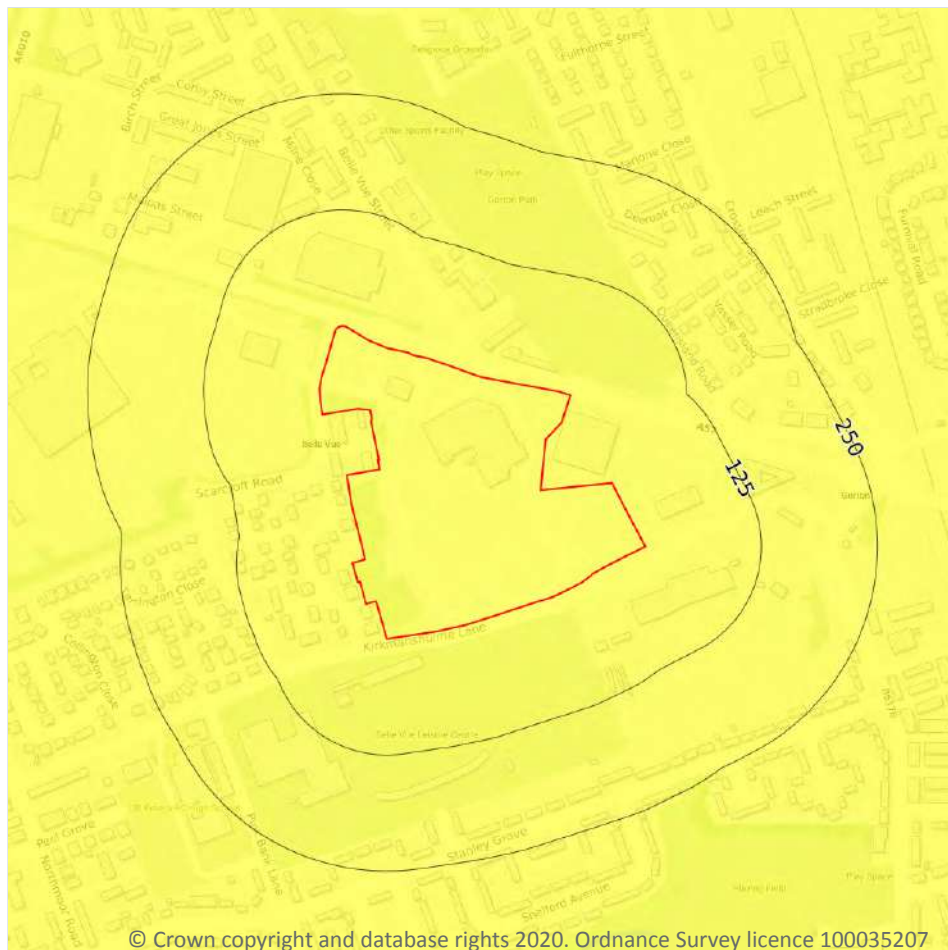
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 104**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



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- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.4 Collapsible deposits

Records within 50m

1

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

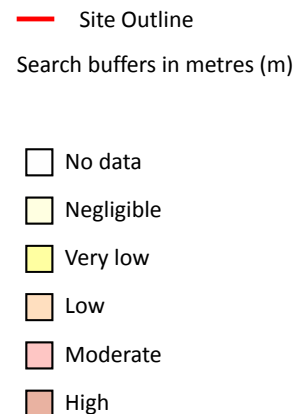
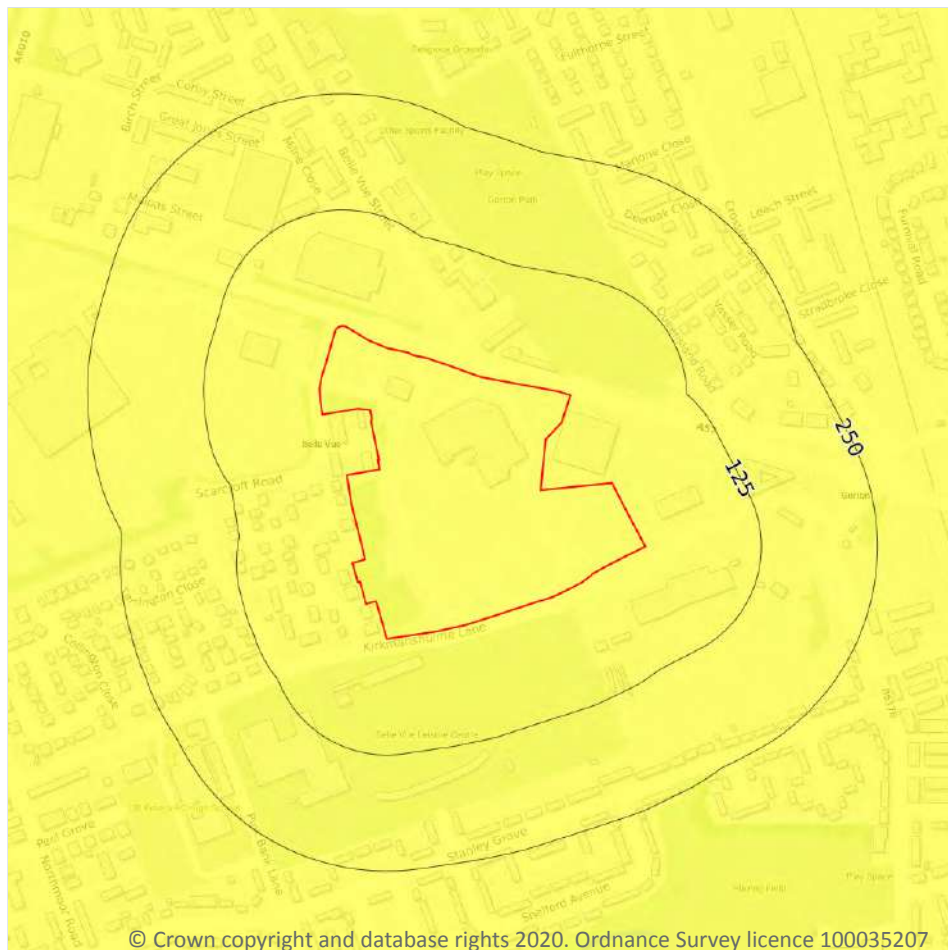
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 105**

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m

1

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

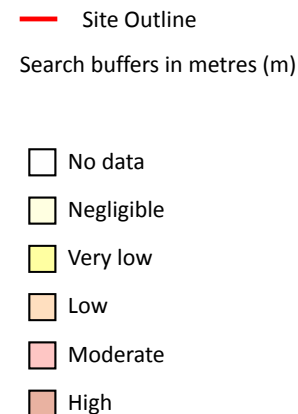
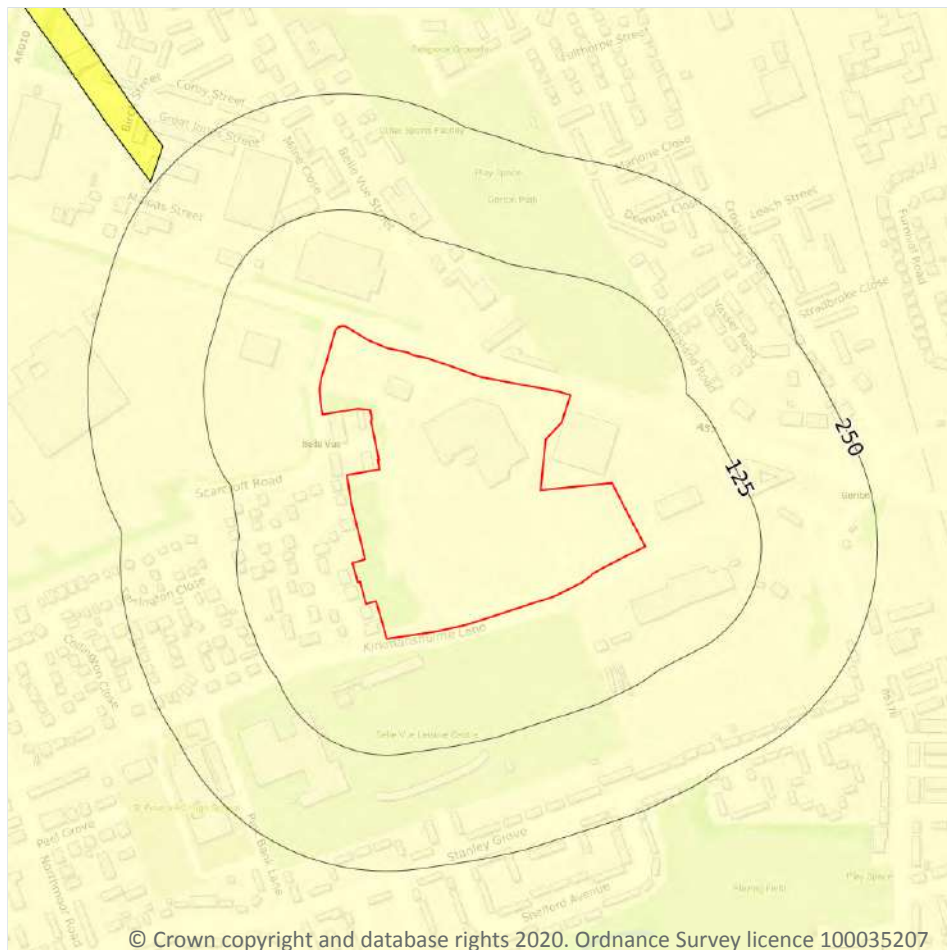
Features are displayed on the Natural ground subsidence - Landslides map on **page 106**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

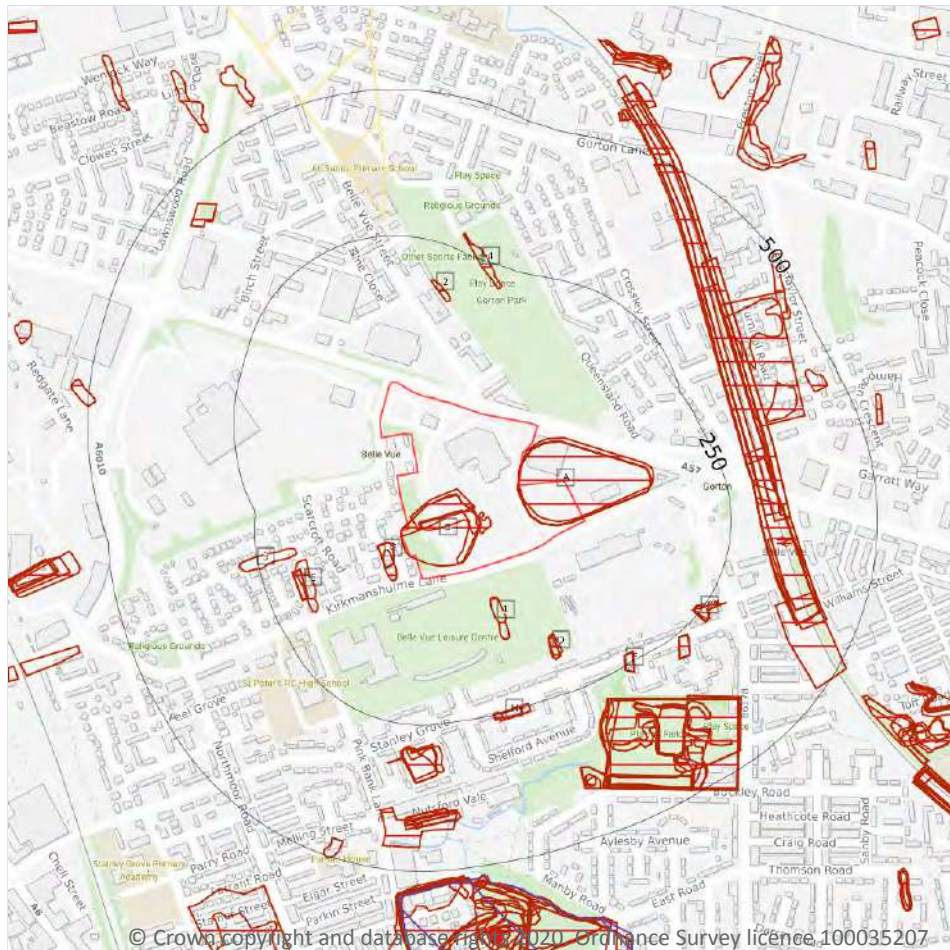
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 107**

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

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



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

18.1 Natural cavities

Records within 500m

0

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

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

18.2 BritPits

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

36

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 109**

ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Water Body	1934	1:10560
A	On site	Water Body	1905	1:10560
A	On site	Water Body	1890	1:10560
A	On site	Boating Lake	1938	1:10560
A	On site	Boating Lake	1915	1:10560
A	On site	Boating Lake	1956	1:10560
A	On site	Boating Lake	1923	1:10560
B	On site	Pond	1905	1:10560
B	On site	Pond	1978	1:10000
B	On site	Pond	1923	1:10560
B	On site	Pond	1851	1:10560
C	18m W	Pond	1905	1:10560
C	18m W	Pond	1890	1:10560
C	18m W	Pond	1923	1:10560
C	28m SW	Pond	1851	1:10560
1	55m S	Ponds	1851	1:10560
D	147m S	Pond	1923	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
D	151m S	Pond	1905	1:10560
D	151m S	Pond	1890	1:10560
2	162m NE	Pond	1890	1:10560
E	169m W	Pond	1851	1:10560
3	181m W	Pond	1851	1:10560
E	183m W	Ponds	1905	1:10560
E	183m W	Pond	1890	1:10560
E	183m W	Ponds	1923	1:10560
4	211m N	Pond	1890	1:10560
F	235m SE	Pond	1905	1:10560
F	235m SE	Pond	1923	1:10560
G	239m SE	Pond	1934	1:10560
G	240m SE	Pond	1905	1:10560
G	240m SE	Pond	1890	1:10560
G	240m SE	Pond	1923	1:10560
H	246m S	Pond	1905	1:10560
H	246m S	Pond	1890	1:10560
H	246m S	Pond	1923	1:10560
H	247m S	Pond	1851	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

0

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

This is data is sourced from Ordnance Survey/Groundsure.



18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

1

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 109**

ID	Location	Name	Commodity	Class	Likelihood
5	285m N	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

0

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

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

18.8 JPB mining areas

Records on site

1

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



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

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	1
-----------------	---

Areas which could be affected by past, current or future coal mining.

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

This data is sourced from the Coal Authority.

18.10 Brine areas

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

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

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

18.11 Gypsum areas

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

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

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

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

18.13 Clay mining

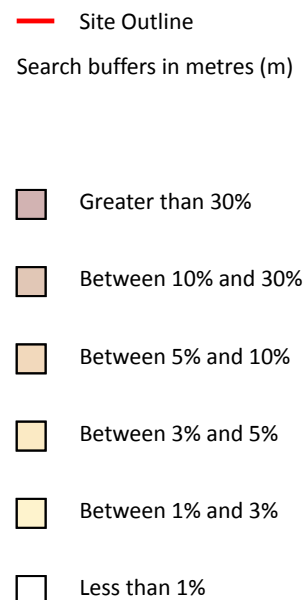
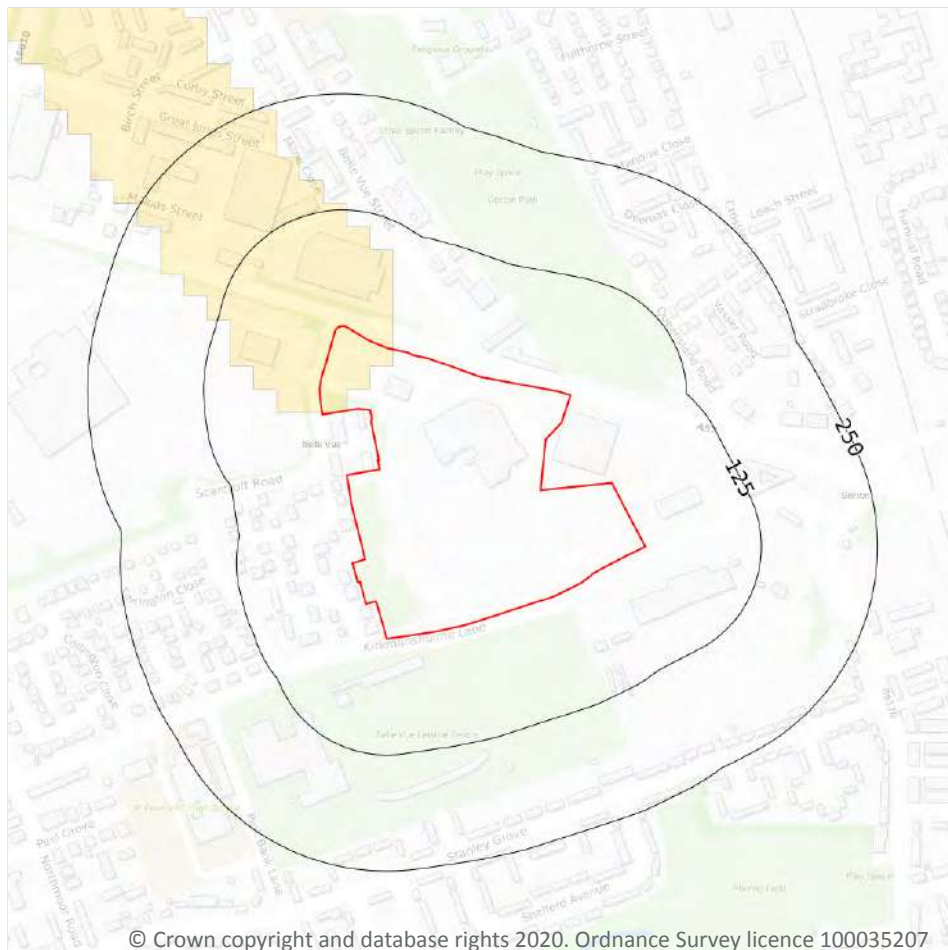
Records on site	0
-----------------	---

Generalised areas that may be affected by kaolin and ball clay extraction.

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



19 Radon



19.1 Radon

Records on site

2

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

Features are displayed on the Radon map on **page 115**

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 1% and 3%	None
On site	Less than 1%	None**



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



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

5

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
11m NW	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
39m NW	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

22

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

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	19	3.3	44	30	0.3	72	16	28	4



Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	18	3.2	48	33	0.3	72	27	26	3
On site	20	3.5	40	27	0.3	76	12	30	3
On site	22	3.8	40	27	0.3	76	12	31	3
On site	18	3.2	39	27	0.3	69	13	26	3
On site	22	3.8	40	27	0.3	77	12	32	3
On site	23	4	37	25	0.3	81	21	35	3
On site	22	3.8	41	28	0.3	77	12	32	3
On site	17	3	35	24	0.3	70	12	25	2
On site	16	2.8	51	35	0.3	67	27	23	4
On site	26	4.6	33	23	0.3	84	19	39	3
On site	26	4.6	31	21	0.3	83	18	39	3
On site	20	3.5	47	32	0.3	74	18	29	4
On site	15	2.6	49	34	0.3	66	24	23	4
On site	24	4.2	32	22	0.3	80	18	36	3
3m SE	21	3.7	47	32	0.3	76	26	29	3
4m E	18	3.2	100	69	0.3	73	39	27	6
7m NW	21	3.7	42	29	0.3	77	23	32	4
19m N	19	3.3	35	24	0.3	76	20	30	3
24m E	16	2.8	99	68	0.3	68	38	24	6
46m NW	25	4.4	40	27	0.3	82	25	38	3
48m W	29	5.1	41	28	0.3	88	24	42	3

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

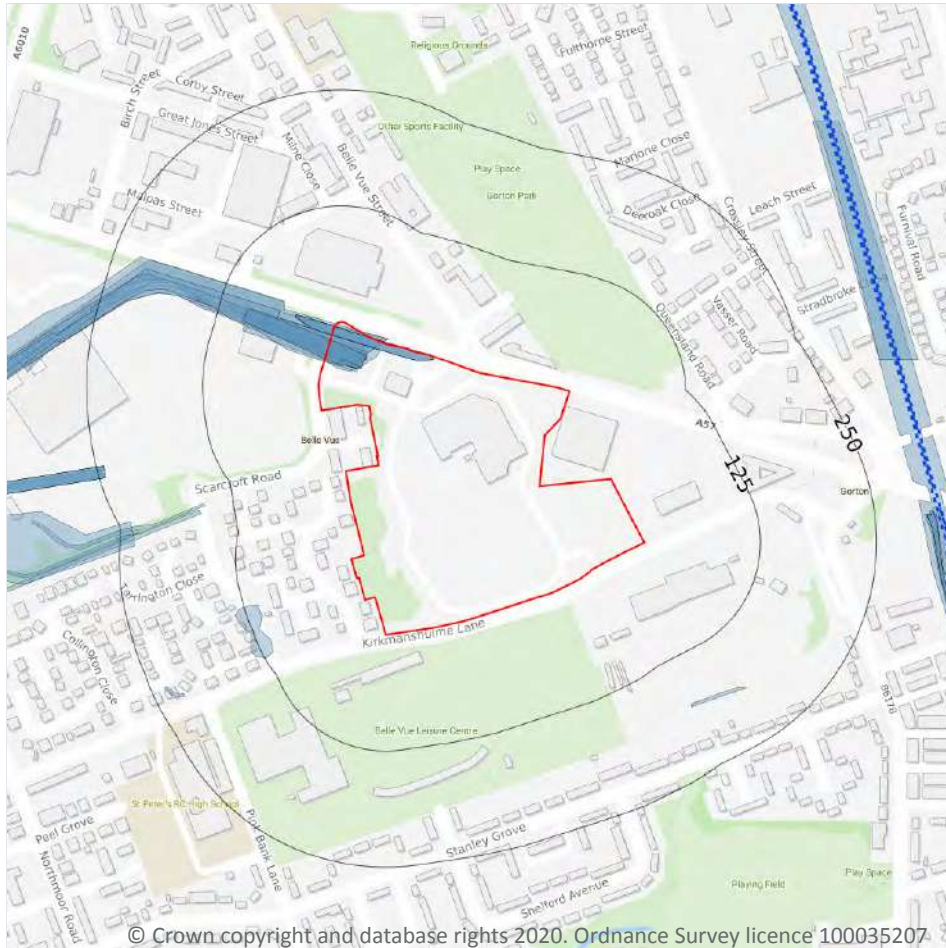
The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².



This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



21.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

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



This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

24

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

Features are displayed on the Railway infrastructure and projects map on **page 120**

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1893	2500
On site	Railway Sidings	1891	500
On site	Railway	1909	-
On site	Railway	1894	-
On site	Mineral Railway Sidings	1908	2500
On site	Mineral Railway Sidings	1922	2500
On site	Railway Sidings	1908	2500
On site	Railway Sidings	1922	2500
On site	Railway Sidings	1933	2500
On site	Mineral Railway Sidings	1915	10560
On site	Mineral Railway Sidings	1923	10560
On site	Railway Sidings	1938	10560
On site	Railway Sidings	1934	10560
On site	Railway Sidings	1905	10560
110m W	Railway Sidings	1934	10560
156m W	Railway Sidings	1949	1250
161m W	Railway Sidings	1933	2500



Location	Land Use	Year of mapping	Mapping scale
178m SE	Railway Sidings	1950	1250
220m SW	Railway Sidings	1980	1250
233m W	Railway Sidings	1956	10560
242m W	Railway Sidings	1938	10560
242m W	Railway Sidings	1934	10560
242m W	Railway Sidings	1915	10560
243m W	Railway Sidings	1933	2500

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.



21.8 Crossrail 1

Records within 500m**0**

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m**0**

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m**0**

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

This data is sourced from HS2 Ltd.

Data providers

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>.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-jan-2020/>.



APPENDIX E

BGS and E3P Borehole Records



Borehole Log

Borehole No.

BH101

Sheet 1 of 2

Project Name: Belle Vue

Project No.
12-123

Co-ords: -

Hole Type
BH

Location: Manchester

Level:

Scale
1:50

Client: Countryside Properties

Dates: 08/02/2018 -

Logged By

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	D					MADE GROUND: Brick fill.	
	▼	0.80	D						1
		1.00	D						
		1.50	B	N=5 (1,0/0,1,2,2)	1.80				
		1.50							
		2.20	D		2.20			Firm low strength brown mottled grey slightly silty CLAY.	2
		2.50		N=13 (2,2/3,3,3,4)				Stiff medium strength brown CLAY with occasional gravel.	
		3.20	D						3
		3.50	U	Ublow=41					
		4.00	D						4
		4.50		N=16 (2,3/4,4,4,4)					
		5.50	D						5
		6.00	U	Ublow=50					
		6.50	D						6
		7.50		N=27 (2,3/5,5,8,9)	7.00			Very stiff high strength brown CLAY with occasional gravel.	7
		8.50	D						8
		9.00	U	Ublow=57					9
		9.50	D						
		10.00	D						10

Continued on next sheet

Remarks

1. Complete. 2. Water strike encountered at 0.90m and 13.00m bgl.





Borehole Log

Borehole No.

BH101

Sheet 2 of 2

Project Name: Belle Vue

Project No.
12-123

Co-ords: -

Hole Type
BH

Location: Manchester

Level:

Scale
1:50

Client: Countryside Properties

Dates: 08/02/2018 -

Logged By

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.50		N=21 (1,1/3,5,5,8)					11
		11.50	D						
		12.00	U	Ublow=43					12
	▼	13.00	D		13.00			Brown clayey SAND.	13
		13.50		50 (12.8/50 for 25mm)	13.50			Very stiff high strength brown CLAY with lenses of red sand.	
					14.00			Very stiff high strength brown CLAY with lenses of red sand.	14
		14.50	D						
		15.00		48 (4,4/48 for 30mm)	15.10			Dense red brown weathered SANDSTONE.	15
					15.45			End of borehole at 15.45 m	16
									17
									18
									19
									20

Remarks

1. Complete. 2. Water strike encountered at 0.90m and 13.00m bgl.





Borehole Log

Borehole No.

BH102

Sheet 1 of 2

Project Name: Belle Vue

Project No.
12-123

Co-ords: -

Hole Type
BH

Location: Manchester

Level:

Scale
1:50

Client: Countryside Properties

Dates: 09/02/2018 -

Logged By

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10 0.20						MADE GROUND: Brick fill. MADE GROUND: Concrete. MADE GROUND: Brick ash fill.	
		0.80 1.00	D D		1.00			Stiff medium strength brown CLAY.	1
		1.50 1.50	B	N=9 (1,1/2,2,2,3)	1.70			Stiff medium strength brown silty CLAY.	
		2.20 2.50	D U	Ublow=50	2.00			Stiff medium strength brown slightly silty CLAY with occasional cobbles.	2
		3.00	D						3
		3.50		N=13 (2,2/2,3,4,4)					
		4.20 4.50	D U	Ublow=61					4
		5.00	D						5
		5.50	D						
		6.00		N=17 (1,2/3,4,5,5)					6
		7.00	D						7
		7.50 8.00	U D	Ublow=49					8
		9.00		N=18 (1,3/3,4,5,6)	9.00			Stiff medium strength brown slightly sandy CLAY with occasional gravel.	9
		10.00	D						10

Continued on next sheet

Remarks





Borehole Log

Borehole No.

BH102

Sheet 2 of 2

Project Name: Belle Vue

Project No.
12-123

Co-ords: -

Hole Type
BH

Location: Manchester

Level:

Scale
1:50

Client: Countryside Properties

Dates: 09/02/2018 -

Logged By

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.50	U	Ublow=41					
		11.00	D						11
		12.00		N=19 (2,3/4,5,5,5)					12
		13.50	U	Ublow=53					13
		14.00	D						14
		15.00		50 (3,7/50 for 70mm)	15.00			Very stiff high strength brown CLAY with occasional gravel.	15
		16.00	D		16.00			Stiff brown CLAY with occasional lenses of red sand.	16
		16.50		50 (5,12/50 for 45mm)	16.60			Dense red brown weathered SANDSTONE.	17
					16.95			End of borehole at 16.95 m	17
									18
									19
									20

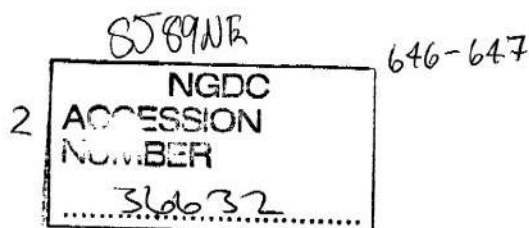
Remarks



British Geological Survey

British Geological Survey

British Geological Survey



Report No. 4831

HYDE ROAD, MANCHESTER

British Geological Survey

British Geological Survey

British Geological Survey

for

ROY HALL CASH & CARRY LIMITED

requested by

EDWARD ROSCOE ASSOCIATES LIMITED

Prospect House

20 Mellor Road

Cheadle Hulme

Cheshire

SK8 5AU

compiled by

R.W. MARSHALL BSc. MSc.

A.W. WALKER BSc.

STRATA SURVEYS LIMITED

Holmes Chapel Road

Middlewich

Cheshire

CW10 0JB

Tel: 0606-84-4637

Fax: 0606-84-6657

British Geological Survey

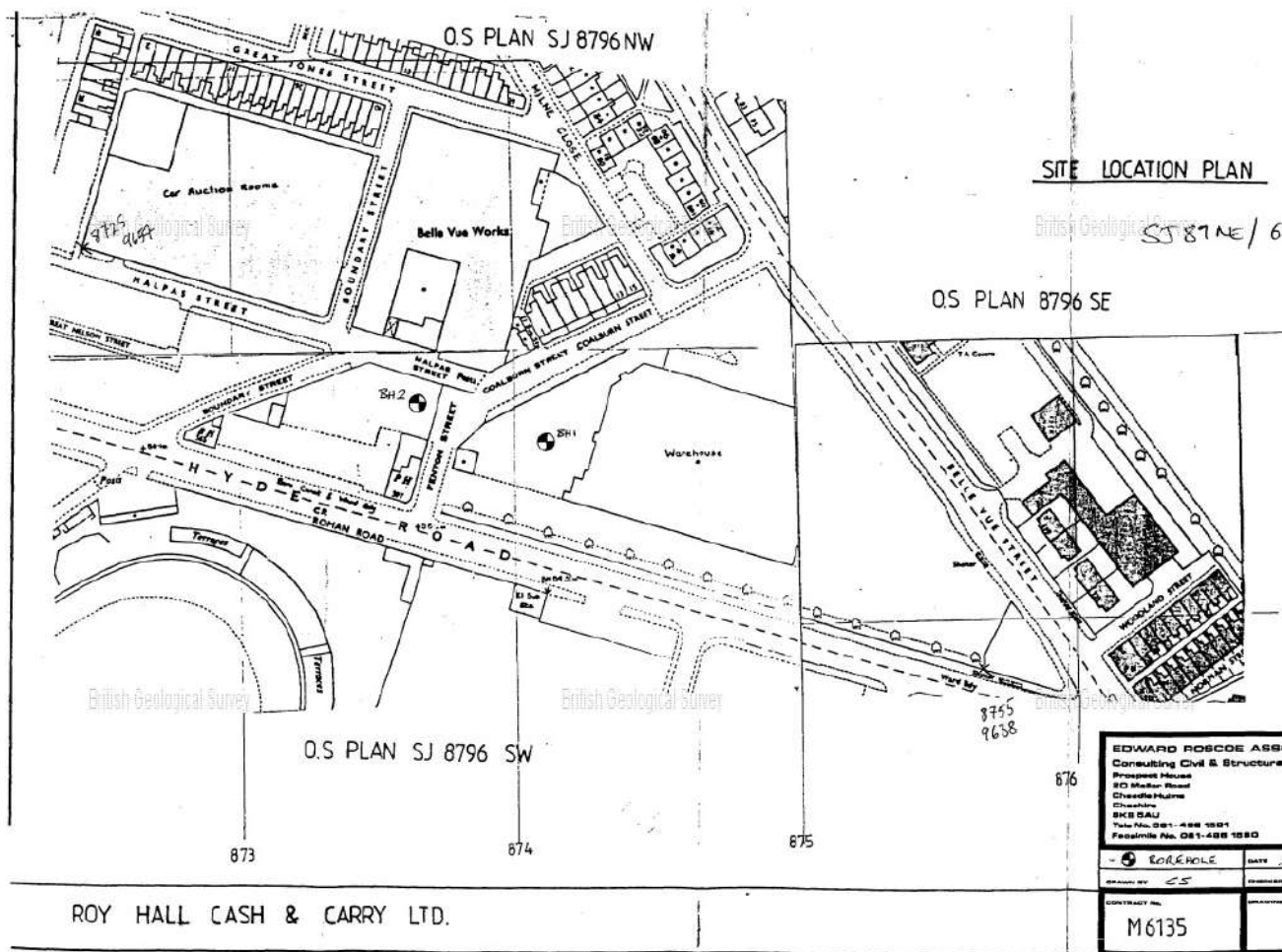
16th May 1989

British Geological Survey

British Geological Survey

ST89WE 840 966 666

STRATA SURVEYS LTD., HOLMES CHAPEL ROAD, MIDDLEWICH, CHESHIRE. CW10 0JB Telephone: 0606 84 4637 Fax: 0606 84 6657						Borehole Number : 1 Sheet 1 of 1. Scale 0 to 10 metres Dates : 21-22 April 89						
Job Number : 4831 Location : Hyde Road, Manchester. Client : E. Roscoe & Assoc.						Dia. & Drilling Methods 150mm Diameter Light cable Percussion						
Description of Strata	Red. Level	Legend	Thick-ness	Depth m	Sample Depths	Sample Types	N Value	Cu	s	Water Level	Pie -zo	Daily Prog.
MADE GROUND			(0.30)	0.00								
Reinforced concrete (0.10m)				0.30								
Quarry waste (0.20m)												
Very stiff brown very slightly silty CLAY with occasional medium fine gravel (boulder clay) with a band of wet sand between 7.00m and 8.00m												
					1.20 - 1.60	U 1		120	12			
					1.80	D 1						
					2.00 - 2.30	U 2		100	0			
					2.50	D 2						
					3.00 - 3.40	U 3						
					3.50	D 3						
					4.00 - 4.40	U 4						
					4.50	D 4						21/4
			(9.70)		5.00 - 5.40	U 5						
					5.50	D 5						
					6.50 - 6.85	U 6						
					7.00	D 6						
					8.00 - 8.40	U 7						
					9.00	D 7						
					9.50 - 9.90	U 8						
					10.00							22/4
Borehole Completed												
Key : Sample Types U Undisturbed D Disturbed B Bulk Disturbed W Water P Piston S SPT		In-Situ Tests N N Value + Sampler Sank Progress / Water Levels — Borehole Depth — Casing Depth — Water Level — Water Strike		Piezometer Level		General Remarks : No water encountered during boring. Trial pit 0.7x0.7x1.2m and reinstate = 1. hrs						

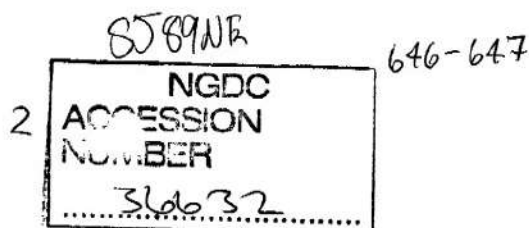


ROY HALL CASH & CARRY LTD.

British Geological Survey

British Geological Survey

British Geological Survey



Report No. 4831

HYDE ROAD, MANCHESTER

British Geological Survey

British Geological Survey

British Geological Survey

for

ROY HALL CASH & CARRY LIMITED

requested by

EDWARD ROSCOE ASSOCIATES LIMITED

Prospect House

20 Mellor Road

Cheadle Hulme

Cheshire

SK8 5AU

compiled by

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Holmes Chapel Road

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CW10 0JB

Tel: 0606-84-4637

Fax: 0606-84-6657

British Geological Survey

16th May 1989

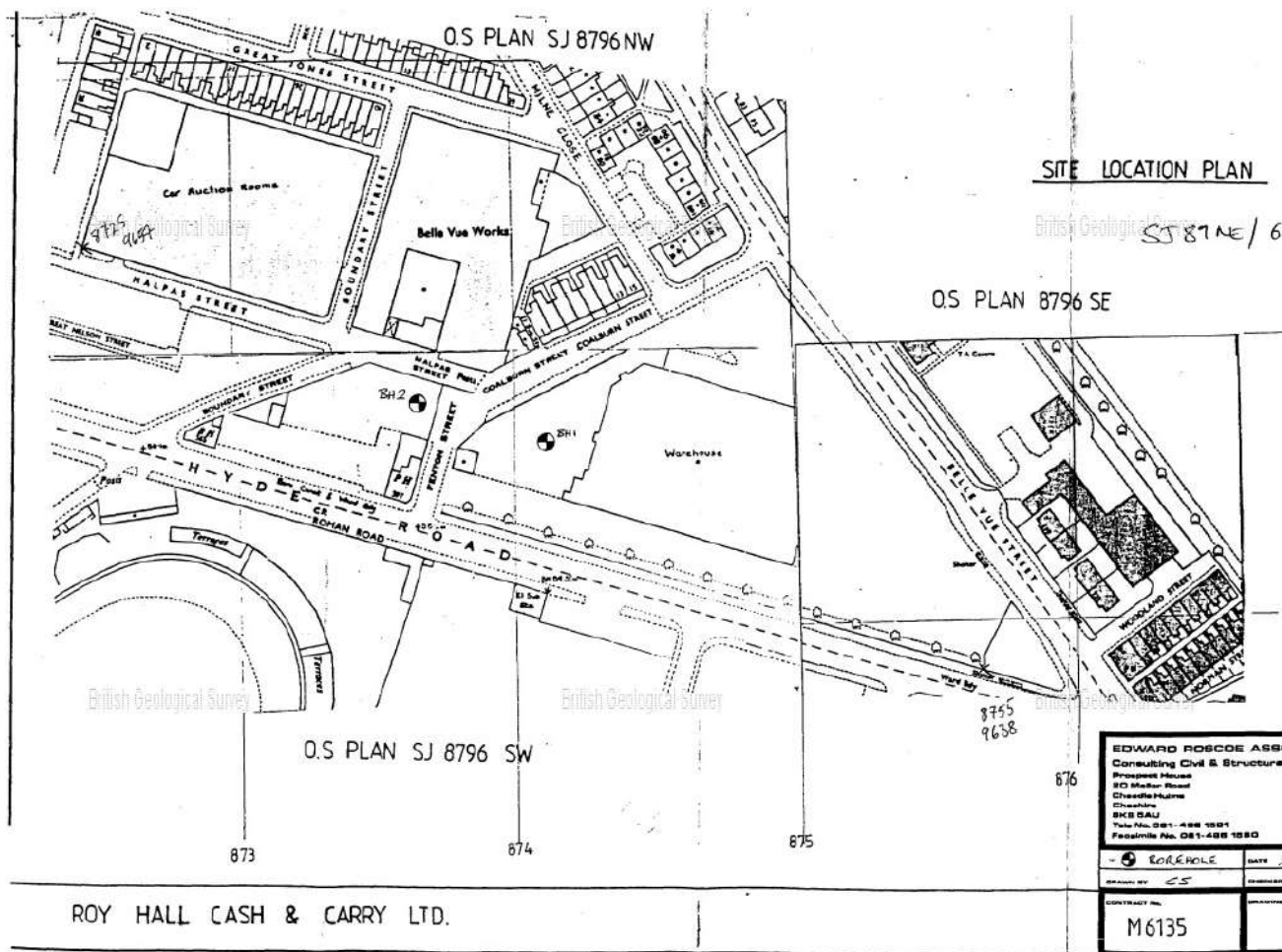
British Geological Survey

British Geological Survey

ST89NE 8736 9648

64

STRATA SURVEYS LTD., HOLMES CHAPEL ROAD, MIDDLEWICH, CHESHIRE. CW10 0JB Telephone: 0606 84 4637 Fax: 0606 84 6657						Borehole Number : 2 Sheet 1 of 1. Scale 0 to 10 metres Dates : 22-23 April 89						
Job Number : 4831 Location : Hyde Road, Manchester. Client : E. Roscoe & Assoc.						Dia. & Drilling Methods 150mm Diameter Light cable Percussion						
Description of Strata	Red. Level	Legend	Thickness	Depth	Sample Depths	Sample Types	N Value	Cu	σ	Water Level	Piez. Level	Drill. Prog.
MADE GROUND Ash (1.00m) Brick rubble (0.50m)			(1.50)	0.00								
Stiff becoming hard from 2.50m brown very slightly silty CLAY with occasional medium fine gravel (boulder clay)				1.50	1.50 - 1.80	U 1		137 0				
				2.00		D 1						
				2.50	2.50 - 2.90	U 2		245 14				
				3.00		D 2						
				3.50	3.50 - 3.90	U 3		266 0				
				4.00		D 3						
				4.50	4.50 - 4.90	U 4						
				5.50		D 4						
				6.00	6.00 - 6.40	U 5						
				7.00		D 5						
				7.50	7.50 - 7.90	U 6						
				8.50		D 6						
			9.50	9.50 - 9.90	U 7							
Borehole Completed				10.00								
Key : Sample Types U Undisturbed D Disturbed B Bulk Disturbed W Water P Piston S SPT		In-Situ Tests N N Value + Sampler Sank Progress / Water Levels — Borehole Depth — Casing Depth ▽ Water Level ▾ Water Strike		a Piezometer Level		General Remarks : No water encountered during boring. Trial pit 0.7x0.7x1.5m = 1.5hrs						

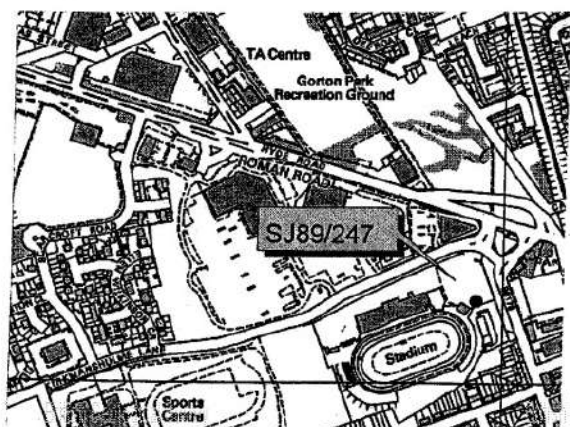


Name of site Belle Vue Greyhound Stadium NORTH WEST EN				85		W R B No. SJ89/247 SJ89/NE	
Owner		Licence no. Appn no. 57523 Cancelled		Nat. grid ref. SJ 8796 9612			
Occupier		IGS ref. no.		Status Lic' / Abstr.			
Ground Level		m OD		ft. OD		Aquifer PT Sandstone	
Level of well top		m OD		ft. OD		Code 118.07	
Rest water level 21.57		m bwt		ft. bwt		Summary of geological section	
(Date 20/11/02)		m OD		ft. OD		Thickness	
Construction: Method		Date 7/02		Borehole log + Casing details available			
Depth bwt	Dia.	Linings (below well top)					
		From	To	Dia.	Type		
70.19							
Abstraction rates		Type of pump					
gph PWL		Chem./bact. anal.		YES/NO			
gph		Well driller Blair Drilling		British Geological Survey			

If insufficient space has been allowed, continue in 'Notes' overleaf.

Site Plan

Notes



FORM WR - 38

Agency No:

ENVIRONM
AGENCY

British Geological Survey

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85

5589/24

BOREHOLE RECORD

A. SITE DETAILS

NORTH WEST EA

5589NE/159

Borehole drilled for	BELLE VUE GREYHOUND STADIUM	
Location	KIRKMANSHULME LANE, GORTON, MANCHESTER	
NGR (8 fig) Ground Level (if known)	ST 8795 9610	Please attach site plan
Drilling Company	BLAIR DRILLING	
Date of drilling	Commenced:	Completed:

B. CONSTRUCTION DETAILS

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Borehole datum (if not ground level).....	above	
(point from which all measurements of depth are taken eg flange, edge of chamber, etc)	m below GL	
Borehole drilled diameter	250 mm from 0 to 30	m/depth
	200 mm from 30 to 38	m/depth
	150 mm from 38 to 69	m/depth
Casing material STEEL diameter 200 mm from 0 to 30 m/depth	(eg plain steel, plastic slotted)	
STEEL diameter 150 mm from 0 to 38 m/depth		
diameter mm from to m/depth		
diameter mm from to m/depth		
Grouting details YES		
Water struck at 28 m	m (depth below datum - mbd)	
	m (depth below datum - mbd)	
Rest water level on completion	m (depth below datum - mbd)	

British Geological Survey

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C. TEST PUMPING SUMMARY (Please supply fully details on Form WR - 39)

Test Pumping Datum (if different from borehole datum)	_____	above m below borehole datum (mbd)
Pump Suction Depth	_____	mbd
Water Level (Start of Test)	_____	mbd
Water Level (End of Test)	_____	mbd
Pumping rate	_____	m ³ /d : l/s
for _____	_____	days/hours
Recovery to (from end of pumping)	_____ mbd	in _____ mins : hrs : days
Date(s) of measurements	_____	
Please Supply Chemical Analysis If Available		

D. STRATA LOG

Geological Classification	Description of Strata	Thickness	Depth
(BGS only)		m	m
	ROAD TARMAC	0.49	0.49
	BLACK CHAY NET	1.19	1.68
	BROWN SANDY CHAY	3.23	4.91
	STIFF BROWN CHAY WITH PEBBLES	13.81	18.72
	LIGHT BROWN CHAY WITH SMALL GRAVELS	7.50	26.22
	GRAVEL BED	4.05	30.27
	WEATHERED RED SANDSTONE	1.92	32.19
	SATURATED RED SANDSTONE	38.00	70.19
	[continue on separate page if necessary]		
	Other Comments (eg gas encountered, saline water intercepted, etc)		

FOR OFFICIAL USE ONLY

FILE	CONSENT NO	BGS REF NO
LICENCE NO	USE OF BH	NGR

FORM WR-39/2



ENVIRONMENT AGENCY

PUMPING TEST DATA

SJ89/24

CONSTANT RATE PUMPING TEST - RECOVERY							
CONSENT NO.				1294		Description of data from which measurements were made (eg ground flange, dip tube/edge of flow) Height above ground level (metres):	
Pumping test at		BELLE Vue GREYHOUND STADIUM					
NGR		SJ 8745/9610					
Observations from		MAIN BOREHOLE					
NGR							
Date	Time	Elapsed time		Depth of water level below datum (metres)	Drawdown (metres)	FINAL METER READING.	Comments
		Minutes	Hours				
23.11.02	10.00	0		22.550		2000208.50	
		1		22.100			
		2		21.850			
		3		21.760			
		4		21.700			VERY F
		5		21.680			RETURN
		6		21.670			
		7		21.660			
		8		21.630			
		9		21.610			
		10		21.600			
		15		21.580			
		20		21.580			
		25		21.580			
		30		21.580			
		35		21.580			
		40		21.580			
		45		21.580			
		50		21.580			
		55		21.580			
	11.00	60	1	21.580			
		70		21.580			
		80		21.580			
		90		21.580			
		100		21.580			
	12.00	120	2	21.580			
		150		21.580			
	1.00	180	3	21.580			
		210		21.580			
	2.00	240	4	21.580			
	3.00	300	5	21.570			

Use continuation sheet (WR-39/4) if necessary

FORM WR39/4

**ENVIRONMENT
AGENCY**

SJ89/24

PUMPING TEST DATA

CONTINUATION SHEET[illegible]

FORM WR39/1 (A)

PUMPING TEST DATA

ENVIRONMENT AGENCY

WR-39/1 (a) - Nwversion1/Jan'95/DCP

SJ89/24

CONSTANT RATE PUMPING TEST							
Consent No.		1294			Description of data from which measurements were made (eg groundwater level, dip tube/edge of pump) Height above ground level (metres):		
Pumping test at		BELLE VUE GREYHOUNDS STADIUM					
NGR		SJ 8795/9619					
Observations from		MAIN BOREHOLE					
NGR							
Date	Time	Elapsed time		Depth of water level below datum (metres)	Drawdown (metres)	Meter readings (m) or Discharge rate (m ³ /hr)	Comments (eg pump stop, pumping rate, pump stop)
		Minutes	Hours				
17.11.02	9.15	DAY (-3)		21.570		* denotes meter reading/flow measurement	
18.11.02	9.50	DAY (-2)		21.570			
19.11.02	9.00	DAY (-1)		21.570			
20.11.02	10.00	0		21.570		*000010.50	
		1		22.240			
		2		22.360			
		3		22.400			
		4		22.430			
		5		22.460			
		6		22.480			
		7		22.510			
		8		22.530			
		9		22.530			
		10		22.510			
		15		22.550		*000011.19	
		20		22.560			
		25		22.560			
		30		22.560		*000011.88	
		35		22.580			
		40		22.590			
		45		22.590			
		50		22.590			
		55		22.590			
	11.00	60		22.590		*000013.60	
		70		22.600			
		80		22.600			
		90		22.600		*000014.97	
		100		22.600			
	12.00	120	2	22.600		*000016.00	
		150		22.600		*000017.37	
	1.00	180	3	22.600		*000018.75	
		210		22.600			
	2.00	240	4	22.600		*000021.50	
	3.00	300	5	22.600		*000024.25	

FORM WR39/4

ENVIRONMENT
AGENCY

PUMPING TEST DATA

[illegible]

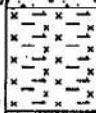
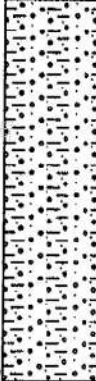
S589W6 8813 9622

H B BORING & COMPANY LTD TEL: 0257 426061				CLIENT MANCHESTER CITY COUNCIL		BOREHOLE NO
DATE 6/7/8/94	SCALE 1 to 50	BORING METHOD CABLE PERCUSSIVE	LOCATION HYDE ROAD	JOB NO 195	Sheet:	
Drilling & Casing Progress	SAMPLE/TEST		SPT N - value or COHESION	DESCRIPTION	O D LEVEL	LEGEND
	Type & No.	Depth(M)				
6.6.					63.90	
				TOPSOIL.	63.70	
	C	0.80 - 0.85	N 23	MADE GROUND - Dark grey, black and brown fine, medium and coarse sand and gravel of ash, brick and concrete.		
	D 35	1.10 - 1.65			62.50	
	D	1.70		Firm grey and yellow brown mottled silty sandy CLAY with a little fine gravel and some root fibres.		
	U 70	2.10 - 2.55			61.80	
	D	2.60		Firm to stiff brown slightly fissured silty slightly sandy CLAY with a little fine gravel and some grey staining.		
	U 48	3.20 - 3.65			60.90	
	D	3.70		Firm to stiff brown silty sandy CLAY with a little fine to medium gravel. Becoming very sandy with some fine to coarse gravel below 8.00m.		
	U 50	4.30 - 4.75				
	D	4.80				
	U 48	5.50 - 5.95				
	D	6.00				
	U 45	6.40 - 6.85				
	D	6.90				
	U 45	7.50 - 7.95				
	D	8.00				
	U 30	8.40 - 8.85				
	D	8.90			55.00	
	U 32	9.50 - 9.95		Firm brown silty very sandy CLAY with a little fine to medium gravel. Some brown and red brown fine to medium sand pockets/bands.		
	D	10.00				
BOREHOLE LOGSHEET						
Water Observations, Remarks, Etc Water entry at 26.40m, rose to 22.00m in 20 mins. Chiselling 0.20-0.60m 1hr, 30.50-31.00m 1hr.						

5584WB

H B BORING & COMPANY LTD TEL: 0207 428061				CLIENT MANCHESTER CITY COUNCIL		BOREHOLE
DATE 6/7/6/94		SCALE 1 to 50		BORING METHOD CABLE PERCUSSIVE		LOCATION HYDE ROAD
				JOB NO 195		Sheet:
Drilling & Casing Progress	SAMPLE/TEST		SPT N - value or COHESION	DESCRIPTION	O D LEVEL	LEGEND
	Type & No.	Depth(M)				
	S D	10.40 - 10.85	N 7	Firm brown silty very sandy CLAY with a little fine to medium gravel. Some brown and red brown fine to medium sand pockets/bands.	51.70	
	U 22	11.60 - 12.05				
	D B D	12.10 - 12.20 12.20 - 12.65 12.65 - 12.70	N 16	Stiff brown silty sandy CLAY with a little fine to medium gravel. Locally very sandy.		
	U 42	13.10 - 13.55				
6.6						
7.6	S D	14.40 - 14.85	N 16		46.70	
	U 46	15.60 - 16.05				
	B	16.00 - 16.10				
	S D	16.50 - 16.50	N 0			
	U 10	17.50 - 17.95		Dense brown and red brown very clayey slightly silty fine to medium SAND with some firm brown silty sandy clay pockets.		
	D	18.00				
	C B	18.50 - 18.95 18.95 - 19.00	N 42			
	U 90	19.60 - 20.05				
BOREHOLE LOGSHEET						
Water Observations, Remarks, Etc						

SJ84W5

H B BORING & COMPANY LTD TEL: 0267 428081				CLIENT MANCHESTER CITY COUNCIL		BOREHOLE
DATE 6/7/6/94		SCALE 1 to 50		BORING METHOD CABLE PERCUSSIVE		LOCATION HYDE ROAD
				JOB NO 195		Sheet:
Drilling & Casing Progress	SAMPLE/TEST		SPT N - value or COHESION	DESCRIPTION	O D LEVEL	LEGEND
	Type & No.	Depth(M)				
	D	20.10	N 35	Dense brown and red brown very clayey slightly silty fine to medium SAND with some firm brown silty sandy clay pockets. Firm to stiff and stiff brown silty very sandy CLAY with some fine to medium gravel. Firm dark brown thinly laminated very silty CLAY with much brown silt on laminae. Stiff brown and dark brown silty very sandy CLAY with a little fine gravel.	43.40	
	B	20.70 - 21.15 20.70 - 21.20				
	D	21.60				
	U 90 W	21.90 - 22.35 22.00				
	D	22.40	46		42.30	
	B	24.10 - 24.60 24.10 - 24.55				
	U 50	25.00 - 25.45				
	D	25.50				
	B	26.50 - 27.00 26.50 - 26.95	30	Dense to very dense brown silty fine, medium and coarse SAND with some fine, medium and coarse gravel and occasional cobbles.	41.50	
	C					
	B	28.00 - 28.50 28.00 - 28.45	N 41		38.60	
	C					
	B	29.50 - 30.00 29.50 - 29.95	N 60	Red brown weathered fine to medium grained SANDSTONE.	34.50	
	C					
BOREHOLE LOGSHEET						
Water Observations, Remarks, Etc						

S580WE

H B BORING & COMPANY LTD TEL: 0257 428081				CLIENT MANCHESTER CITY COUNCIL		BOREHOLE NO	
DATE 6/7/94		SCALE 1 to 50		BORING METHOD CABLE PERCUSSIVE		LOCATION HYDE ROAD	
JOB NO 195		Sheet:					
Drilling & Casing Progress	SAMPLE/TEST		SPT N - value or COHESION	DESCRIPTION	O D LEVEL	LEGEND	
	Type & No.	Depth(M)					
7.6 7.6	B	31.00 - 31.12	> 50	Red brown weathered fine to medium grained SANDSTONE.	32.90		
BOREHOLE LOGSHEET							
Water Observations, Remarks, Etc							

J P WHITTER (WATER WELL ENG) LTD

SJ89/246

BOREHOLE RECORD

A. SITE DETAILS

Borehole drilled for :	Manchester City Council
Location :	Commonwealth Games Hockey Pitch, Belle Vue, Manchester.
NGR (8 fig.) :	SJ 0760 9600 8754 9590 Please attach site plan:
Ground Level (If known) :	Unknown
Drilling Company :	J P Whitter (Water Well Engineers) Ltd
Date of Drilling :	Commenced: June 2001 Completed: June 2001

B. CONSTRUCTION DETAILS

Borehole Datum (if not ground level) (point from which all measurements of depth are taken eg. flange, edge of chamber, etc.)	GL	m above/below GL
Borehole drilled diameter	300 mm from GL to 32.58 200 mm from 32.58 to 70	m/depth m/depth
Casing material and type	plain steel lining tubes. 200 mm from GL to 32.58 mm from to	m/depth m/depth
Grouting Details: Borehole grouted using OPC grout using tremmy pipes:		
Water struck at : 24m onwards		m (depth below datum mbd) m (depth below datum mbd)
Rest water level on completion : 18.50 m		

C. TEST PUMPING SUMMARY (Please supply full details on Forme WR-39)

Test pumping datum (if different from borehole datum)	G.L	m above/below datum (mbd)
Pump suction :	50	mbd
Water level (Start of test) :	18.34	mbd
Water level (End of test) :	35.62	mbd
Pumping rate :	18m ³ /hr	m ³ / day:l/s
for	3 days	days/hours
Recovery to : 18.27	mbd in 120 hrs	mins : hrs : days
Date of measurements : 02/11/01 to 13/11/01		

5189/246

D. STRATA LOG			
Geological	Description of Strata		
Classification		Thickness	Depth
(BGS only)		M	M
	Backfill,	3	0 - 3
	Light brown clay	5	3 - 8
	Sand and water	0.25	8 - 8.25
	Grey clay	9.75	8.25 - 18
	Soft red sandstone	5	18 - 23
	Soft yellow sandstone	2	23 - 25
	Red sandstone & marl	45	25 - 70
Other Comments			

FOR OFFICIAL USE ONLY

FILE: CONSENT NO: BGS REF. NO:
 LICENCE NO: USE OF BH: NGR: