

It should be noted that a site investigation is unable to identify all below ground conditions at a site and therefore, it should be noted that if during construction works soils that require offsite disposal are identified as being different to what has been preliminarily tested in this report, additional testing will be required prior to disposal or recovery at a licensed offsite facility.

It is also recommended that prior to offsite disposal or recovery of any waste soils; the receiving landfill facility should be sent copies of all relevant chemical analysis and written confirmation of acceptance of soils provided.

All producers of waste have a duty of care to ensure that any waste they produce is handled safely and within the law. They must check that anyone they pass waste on to is authorised to take it. This includes the authorised site earmarked to handle the waste and any haulier (licensed waste carrier) used to transport the waste between the sites.

All waste holders must act to keep waste safe against:

1. Corrosion or wear of waste containers;
2. Accidental spilling or leaking or inadvertent leaching from waste unprotected from rainfall;
3. Accident or weather breaking open contained waste and allowing it to escape;
4. Waste blowing away or falling while stored or transported;
5. Scavenging of waste by vandals, thieves, children, trespassers or animals.

Holders should protect waste against the above risks while it is in their possession and they should also protect it for its future handling requirements. Waste should reach not only its next holder but a licensed facility or other appropriate destination without escape. It is recommended that the container used to transport the waste is suitable not only to prevent solid and liquid residues escaping, but also any potentially dangerous vapours or odours associated with the waste.

Segregation of different categories of waste where they are produced may be necessary to prevent the mixing of incompatible wastes. Segregation may assist the disposal of waste to specialist outlets. Where segregation is practiced on sites, the waste holder should ensure that his employees and anyone else handling waste there are aware of the locations and uses of each segregated waste container.

Waste handed over to another person should be in some sort of container, which might include a skip. The only reasonable exception would be loose material loaded into a vehicle and then covered sufficiently to prevent escape before being moved. Waste containers should suit the material put in them.

A waste transfer note (WTN) is a document which must accompany any transfer of waste between different holders. The purpose of a WTN is to allow other people who handle your waste to know what they are dealing with so that they can manage it safely and properly.

A WTN must be created for each load of waste that leaves the site.

The WTN must contain enough information about the waste to enable anyone coming into contact with it to handle it safely, and either dispose of it or allow it to be recovered within the law. If insufficient information is given on the WTN the responsible party may liable to be prosecuted.

Records of all waste transferred or received must keep for at least two years.

8.5 Ground Gases

8.5.1 Asphyxiant, Noxious or Explosive Gases

The preliminary risk assessment identified the risk from hazardous ground gas as moderate risk and low to moderate source generating potential in line with CIRIA 665, due to the potential for made ground and coal workings either on site or on the immediate vicinity.

A number of infilled features have also been recorded within 250m of the site. in addition to this, limited thicknesses of made ground have been encountered and where present, material does not contain significant deleterious items/organic matter.

Gas monitoring has been undertaken to confirm this low to moderate risk.

To date 9No.round of ground gas monitoring have been undertaken in line with CIRIA 665. Atmospheric pressure ranged from 993 to 1019 with 2no visits carried out a falling atmospheric pressure.

A summary of the soil gas monitoring results is presented in Table 8.5.1 below and copies of the log sheets presented in Appendix G.

Table 8.5.1 – Summary of Gas Monitoring Results

Borehole Reference	CO2 Range (%v/v)	Flow (l/hr)	Max GSV (l/hr)	CH4 Range (%v/v)	Max GSV (l/hr)
WS1	0.6 – 2.5	0.10	<0.05	0.0-0.0	<0.05
WS3	0.1 – 4.1	0.10	<0.05	0.0-0.1	<0.05
WS4	0.1-2.7	<0.10	<0.05	0.0-0.0	<0.05
WS7	2.9-9.0	0.20	<0.05	0.0-0.1	<0.05

In line with CIRIA 665 Guidance on methane and carbon dioxide, the site is to be developed for commercial end use and the ground gas investigation has identified a maximum carbon dioxide concentration of 9.0% with a maximum flow recorded of 0.2l/hr. The maximum-recorded concentration for methane was 0.0%. In addition, hydrogen sulphide concentrations of 0.0 ppm were recorded.

On the basis of these results, certification of ground gas measures are classified as Situation 2 (Amber 1) conditions and Low-level ground gas protection measures should be adopted, utilising Low Permeability membrane and ventilated sub-floor void that

creates a permeability contrast to limit the ingress of gas into buildings. Service entries should be sealed with appropriate Visqueen or similar specialist proprietary equipment. A copy of the anticipated product and design is provided within Appendix A of this document.

Table 8.5.2 Gas Protection

Building Type	Floor Slab Type	Ventilation	Membrane	Required Points Score	Points Achieved
Conventional residential house (Building Type A)	Block and beam suspended floor (0 Points)	Suspended beam and block flooring with suspended ventilated void (2.5 points)	Full gas membrane installed to S8485:2015 and validated to CIRIA 735 (2 points)	3.5	4.5 points

Independent validation of gas protection measures is needed to achieve the required points score.

Gas protection measures should be installed as prescribed in BRE 414 with the ventilation of the sub-floor void designed to provide a minimum of one complete volume change per 24 hours.

8.5.2 Radon & Hydrocarbons

The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level. No radon protective measures are necessary.

Soil testing to date indicates that there is a low risk of vapour generation and migration into the proposed buildings. No specific protection measures are envisaged in relation to hydrocarbon contamination.

9.0 PRE-REMEDIATION CONSTRAINTS AND OUTLINE REMEDIATION STRATEGY

9.1 Invasive Plants

The presence of Japanese Knotweed and/or other invasive plants was not apparent during the fieldwork; however, advice should be sought from a suitably qualified ecologist should any suspicious plant growth be encountered.

9.2 Services

A culverted watercourse, underground services, comprising BT Lines, gas mains, combined and foul sewers, CCTV, electric cables and possible fibre optic cables may all impact the site and the design team and Client should familiarise themselves with their presence. Other services may be present not identified in this assessment.

9.3 Hardstanding & Surface Cover

The site comprises areas of topsoil, external concrete, cobble setts and tarmacadam areas. Photographs presented in Appendix A shows the nature of surface cover on the site.

9.4 Land Condition and Outline Remediation

9.4.1 Foundations and Ground Stability

The Made Ground deposits are considered unsuitable as an adequate founding stratum due to the proposed loads and the possible risks of unacceptable total and differential settlements occurring. It is recommended suspended floor slab to be adopted.

Preliminary foundation assessment indicates that for Made Ground less than 1.5m thick, the conventional strip footings. For the Made Ground between 1.5m and 3.0m thick, deep trench fill can be considered but may not be a cost-effective solution and ground improvement using vibro stone columns and/or driven piles will be able to provide adequate capacity. A degree of ground treatment will be required where former buildings have occupied the site. It is recommended RC foundations to be designed to prevent differential settlement.

There are several buried services including a culverted watercourse underneath the site, the foundation solution should allow for protection measures and ensure no damage to these services.

NHBC guidance in relation to trees should be followed, due to the presence of glacial clay. Heave protection measures should be used for foundations and drainage where trees are present within influencing distance.

Pavement Construction

An initial design CBR value of 2% is recommended for the Made Ground and clay deposits.

Where access roads are to be adopted, design CBR values should be confirmed by carrying out in-situ plate load tests.

Soakaways

Given the low permeability of the underlying glacial clays we consider that soakaway are unlikely to be suitable at the site. If soakaways are to be considered then soakaways should be carried out in line with BRE 365 Soakaway Design.

Groundwater and Excavations

Any excavations extending below the water table would need to be dewatered in advance of the main excavation works. Sump pumps or possibly well points may be required for this. It is recommended that groundwater levels are monitored during the construction work to enable any dewatering requirements to be identified in advance.

Excavation stability is likely to be moderate to good in the upper 1.00m of strata but poor below this depth in the underlying granular materials. Excavations would need to be battered back to a suitable angle of repose or fully supported during construction. Below 1.80m bgl running sand conditions should be anticipated. However, infilled demolition arisings were recorded within the area of WS1/TP01 (former brewery and chimney) which will require pre-treatment (excavation/screening/crushing and replacement) prior to formation of the adopted foundation solution.

Excavations should be feasible with conventional plant.

The presence of other relic below ground structures should be anticipated associated infrastructure having previously occupied the site. Deepening of foundations should be anticipated within these areas. The locations of which are shown on historical mapping within Appendix C.

9.4.2 Contamination

The environmental chemistry results together with the findings of the intrusive investigation are consistent with the site's historical uses and present a low risk to human health receptors post construction.

Soils

PAH, arsenic and lead contaminants have been recorded in excess of Tier 1 for a residential end use with plant uptake scenario, in the shallow made ground soils beneath the site.

Given the recorded exceedances a potentially unacceptable risk may be posed to future end users of the site from shallow soils present within garden / landscaped areas.

- Based on the chemical laboratory results no significant risk is likely to be posed to indoor air of any future residential properties.
- Within areas of private domestic gardens, a minimum 600mm of clean cover / removal & replacement of made grounds should be assumed at this stage.
- Within areas of soft landscaping a minimum 600mm of clean cover / removal & replacement of made grounds should be assumed.
- Within areas of areas of public open space to be grassed; a minimum 450mm of clean cover / removal & replacement of made ground should be assumed.

Site workers involved in excavations for foundations, roads, sewers etc during the construction works may come into direct contact with the soils containing slightly elevated concentrations of inorganic and organic contaminants and unrecorded asbestos. We would therefore recommend that simple precautionary measures be adopted during the construction phase i.e. good personal hygiene, provision of suitable welfare facilities and basic personnel protective equipment.

Any areas of proposed landscaping will require imported subsoil/topsoil materials which will require chemical validation to demonstrate that they are suitable for a residential end use and taken to depths sufficient to provide a sufficient cover system for all proposed materials used which are capable to support root growth.

For any imported materials required to complete the cover soils, the frequency of testing to be undertaken shall be as given in the YALPAG document Verification Requirements for Cover Systems, Version 3.4 dated November 2017.

Groundwater

The risks presented to controlled water receptors are deemed to be low post construction. This will need to be confirmed with the local authority and Environment Agency.

Ground Gas

Certification of ground gas measures are classified as Situation 2 (Amber 1) conditions and Low-level ground gas protection measures should be adopted, utilising Low Permeability membrane and ventilated sub-floor void that creates a permeability contrast to limit the ingress of gas into buildings. Independent verification of protection measures are required to satisfy planning conditions relating to ground gas risk.

Gas protection measures should be installed as prescribed in BRE 414 with the ventilation of the sub-floor void designed to provide a minimum of one complete volume change per 24 hours.

Any soils to be exported from site should be allocated an appropriate waste code, following the steps within WM3.

The results appended to this document indicate that the samples tested are likely to be classified as NON-HAZARDOUS & HAZARDOUS WASTE (due to elevated lead compounds). This should be confirmed by the appointed waste management contractor following submission of all available test results carried out at the site to date.

It is the responsibility of those generating the waste (i.e. the site), to ensure that the waste is handled and disposed of appropriately. Waste carriers transporting, and sites accepting, this material should have a corresponding code within their permits.

Waste acceptance criteria (WAC) testing results indicate that the Made Ground soils will be suitable for a non-hazardous landfill.

This report should be issued to the regulatory authorities to prevent delays in the project. A remediation strategy and validation report may be required prior to discharge of any outlying planning conditions.

APPENDICES

Appendix A – Drawings & Site Photographs

Appendix B – GroundSure Information

Appendix C – Historical Mapping

Appendix D – Exploratory Hole Borehole Logs

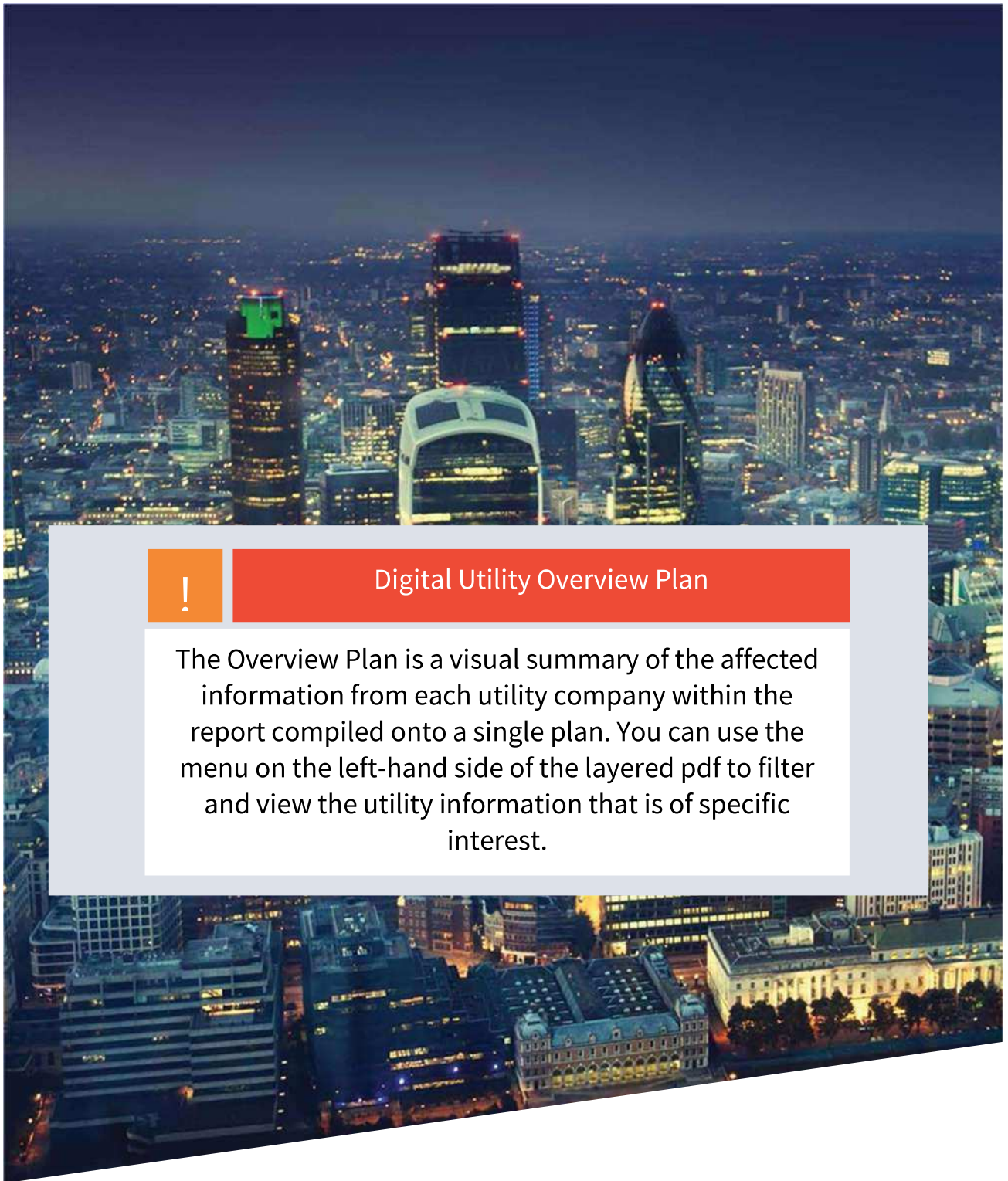
Appendix E – Geotechnical Laboratory Test Results

Appendix F – Chemical Test Results

Appendix G – Gas monitoring Record Sheet

Appendix H – Conceptual Models & Risk Assessments

Appendix A – Drawings & Site Photographs

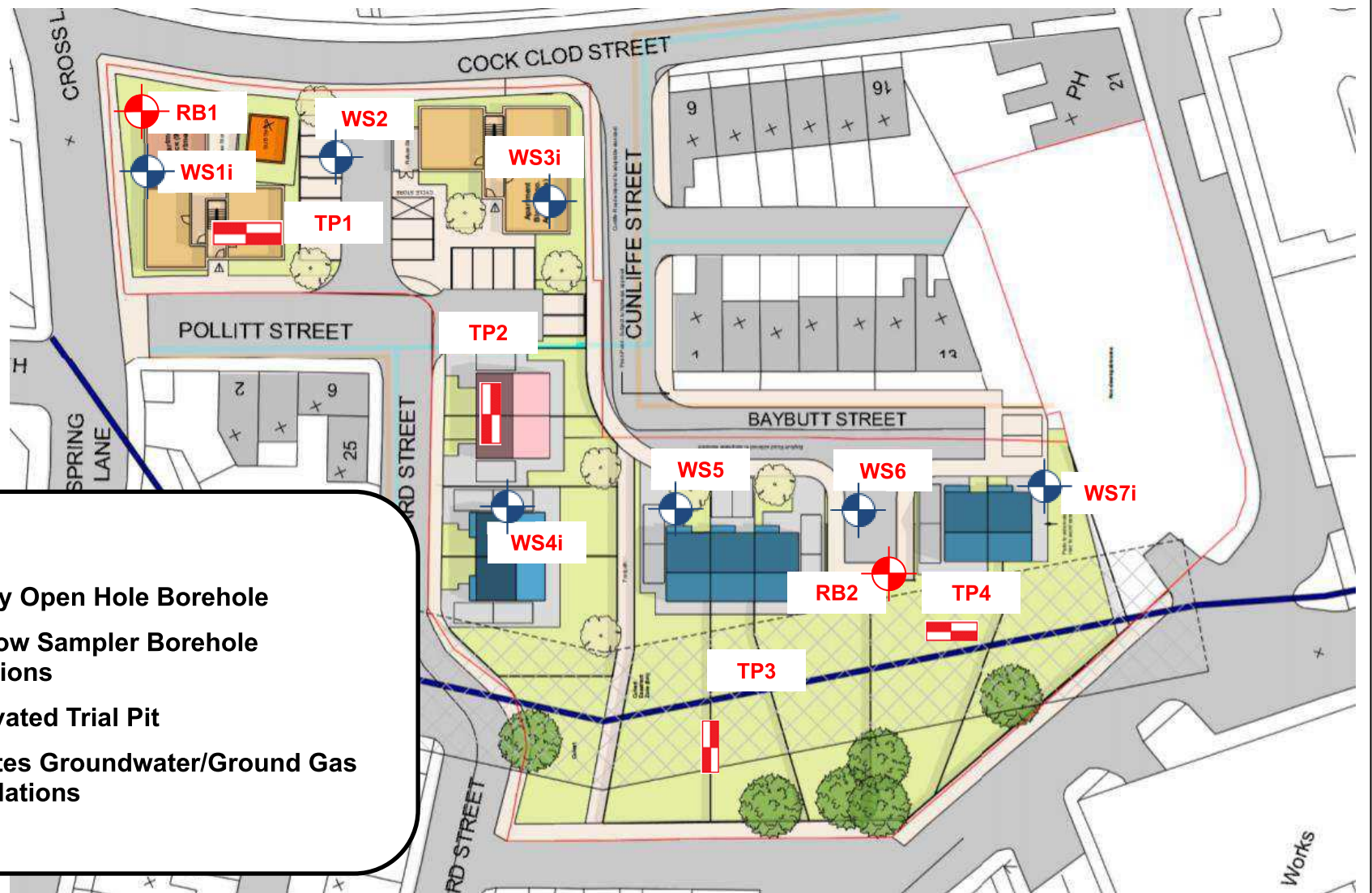


Digital Utility Overview Plan

The Overview Plan is a visual summary of the affected information from each utility company within the report compiled onto a single plan. You can use the menu on the left-hand side of the layered pdf to filter and view the utility information that is of specific interest.



NOTE: No liability of any kind whatsoever is accepted by Landmark Information Group Ltd, its servant or agents, for any error or omission in respect of information contained on the plans provided. This plan is a compilation of a number of plans provided at different scales and is intended to provide a graphical representation of services within the area and it is impossible to guarantee accuracy. In addition it is a compilation of information supplied by utility companies who do not guarantee the accuracy of the information. The underground services must be verified and established on site before any excavation is carried out. This data is supplied subject to the Terms and Conditions available at www.landmark.co.uk .	ISSUE:		DESCRIPTION:			BY:	DATE:	Bury Metropolitan Borough Council – Street Light Cadent Gas Ltd Electricity North West Electricity North West – Substation Openreach – [British Telecommunications] United Utilities – Sewerage United Utilities – Water Virgin Media Vodafone
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Key

-  - Rotary Open Hole Borehole
-  - Window Sampler Borehole Locations
-  - Excavated Trial Pit
-  - Denotes Groundwater/Ground Gas Installations



Next Generation Engineering Consultancy Services

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Web: www.nxconsulting.org.uk

Ref: NX418 Figure 1

Project:

East Lancs Paper Mill Island

Title:

Exploratory Hole Location Plan



Plate 1 – South-eastern corner of site looking east towards the former public house



Plate 2 – South-eastern corner of site looking west. Concrete bollards represent the southern boundary



Plate 3 – South east corner of site looking west. Concrete bollards represent the southern boundary curving round as the eastern boundary is the distance.



Plate 4 – Container on southern boundary of site



Plate 5 – Container in the south east corner of site. Note Services



Plate 6 – South west corner of site looking north. Concrete bollards forming the western boundary.



Plate 7 – South west corner of site looking south. Concrete bollards represent the southern/western boundary.



Plate 8 – Eastern boundary of the central grassy area looking east. Boundary marked by bushes and bollards.



Plate 9 – Central grassy area, looking west. Western boundary marked by fence in distance.



Plate 10 – Central grassy area, looking north. Northern boundary marked by fence and pavement.



Plate 11 – Central paved area, looking west.



Plate 12 – Central paved area looking south. Bollards mark northern boundary adjacent to road.



Plate 13 – North west corner looking north with electrical substation



Plate 14 – North west corner looking south



Plate 15 – Electrical substation in north west corner



Plate 16 – Cock Clod Street looking north



Plate 17 – Cunliffe street looking west



Plate 18 – Cunliffe street looking east



Plate 19 – Radcliffe street looking south



Plate 20 – Western boundary (fence) looking south



Plate 21 – Howard street looking east



Plate 22 – Howard street looking west



Plate 23 – Pollitt street looking north



Plate 24 – Southwards flowing brook north of site, looking north



Plate 25 – Cross Lane debris screen, north of site



Plate 26 – Japanese Knotweed treatment works south west of site



Plate 27 – Garage works south west of site



Plate 1 – Trial pit 1 (TP1) ground level to 0.5mbgl showing topsoil overlying sandstone gravel and cobbles



Plate 2 – TP1 gl to 0.5mbgl arisings



Plate 3 – TP1 with arisings



Plate 4 – TP1 east face



Plate 5 – TP1 2.0mbgl north face



Plate 6 – TP1 west face



Plate 7 – TP1 south face



Plate 8 – TP1 backfilled



Plate 9 – TP2 to 1.3mbgl with arisings



Plate 10 – TP2 top 0.3m south face



Plate 11 – TP2 top 0.3m arisings



Plate 12 – 0.3mbgl to 1.0mbgl arisings



Plate 13 – TP2 east face



Plate 14 – TP2 north face



Plate 15 – TP2 >1.0mbgl arisings



Plate 1 – TP3 with arisings



Plate 2 – TP3 top 0.3m



Plate 3 – TP3 top 0.3m arisings



Plate 4 – TP3 south face



Plate 5 – TP3 east face



Plate 6 – TP3 east face made ground – natural ground boundary



Plate 7 – TP3 north face



Plate 8 – TP3 made ground arisings



Plate 9 – TP3 natural ground arisings



Plate 10 – TP3 backfilled



Plate 11 – TP4 gl to approximately 0.2mbgl with arisings



Plate 12 – TP4 gl to approximately 0.4mbgl with arisings



Plate 13 – TP4 gl to approximately 0.7mbgl



Plate 14 – TP4 gl to 0.85mbgl east face



Plate 15 – TP4 gl to 0.85mbgl north face



Plate 16 – TP4 west face (left) and north face (right) gl to 1.6mbgl



Plate 17 – TP4 natural ground with coal cobbles



Plate 18 – TP4 south face gl to 1.6mbgl



Plate 19 – TP4 east face gl to 1.6mbgl



Plate 1 – Window Sampler 1 (WS1) hand pit to 1.2m below ground level (bgl)



Plate 2 – WS1 hand pit with arisings



Plate 3 – WS1 1.0mbgl to 5.0mbgl



Plate 4 – WS2 hand pit to 1.2mbgl



Plate 5 – WS2 hand pit arisings



Plate 6 – WS2 1.0mbgl to 5.0mbgl



Plate 7 – WS3 ground level to 5.0mbgl



Plate 8 – WS4 hand pit to 1.15mbgl



Plate 9 – WS4 hand pit with arisings



Plate 10 – WS4 2.0mbgl to 5.0mbgl



Plate 11 – WS5 hand pit to 1.1mbgl



Plate 12 – WS5 hand pit arisings



Plate 13 – WS5 1.0mbgl (top left) to 4.0mbgl (bottom right)



Plate 14 – WS6 hand pit to 1.1mbgl



Plate 15 – WS6 hand pit with arisings



Plate 16 – WS6 1.0mbgl to 5.0mbgl



Plate 17 – WS7 hand pit to 1.15mbgl



Plate 18 – WS7 hand pit with arisings



Plate 19 – WS7 1.0mbgl to 4.0mbgl

Appendix B – GroundSure Information

RECTORY LANE, RADCLIFFE, M26 2QU**Order Details**

Date: 26/02/2021
Your ref: NX418
Our Ref: GS-7611305
Client: NX Consulting Limited

Site Details

Location: 379021 407407
Area: 0.57 ha
Authority: [Bury Metropolitan Borough 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	1	8	68	119	-
21	1.2	Historical tanks	0	1	37	22	-
23	1.3	Historical energy features	2	0	15	21	-
25	1.4	Historical petrol stations	0	0	0	0	-
25	1.5	Historical garages	0	0	0	10	-
26	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
27	2.1	Historical industrial land uses	1	15	102	168	-
38	2.2	Historical tanks	0	2	65	51	-
42	2.3	Historical energy features	3	0	36	52	-
46	2.4	Historical petrol stations	0	0	0	0	-
46	2.5	Historical garages	0	0	0	17	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
48	3.1	Active or recent landfill	0	0	0	0	-
48	3.2	Historical landfill (BGS records)	0	0	0	0	-
49	3.3	Historical landfill (LA/mapping records)	0	0	0	1	-
49	3.4	Historical landfill (EA/NRW records)	0	0	0	4	-
50	3.5	Historical waste sites	0	0	5	4	-
51	3.6	Licensed waste sites	0	0	0	0	-
52	3.7	Waste exemptions	0	0	15	22	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
56	4.1	Recent industrial land uses	1	3	24	-	-
58	4.2	Current or recent petrol stations	0	0	0	1	-
58	4.3	Electricity cables	0	0	0	0	-
59	4.4	Gas pipelines	0	0	0	0	-
59	4.5	Sites determined as Contaminated Land	0	0	0	0	-



59	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
59	4.7	Regulated explosive sites	0	0	0	0	-
59	4.8	Hazardous substance storage/usage	0	0	0	0	-
60	4.9	<u>Historical licensed industrial activities (IPC)</u>	0	0	8	0	-
61	4.10	<u>Licensed industrial activities (Part A(1))</u>	0	0	0	6	-
62	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	1	4	-
63	4.12	Radioactive Substance Authorisations	0	0	0	0	-
63	4.13	<u>Licensed Discharges to controlled waters</u>	0	3	7	6	-
66	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
66	4.15	Pollutant release to public sewer	0	0	0	0	-
66	4.16	<u>List 1 Dangerous Substances</u>	0	0	3	1	-
66	4.17	List 2 Dangerous Substances	0	0	0	0	-
67	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	5	4	-
68	4.19	<u>Pollution inventory substances</u>	0	0	0	2	-
69	4.20	<u>Pollution inventory waste transfers</u>	0	0	0	1	-
70	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
71	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
73	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
74	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
75	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
75	5.5	Groundwater vulnerability- local information	None (within 0m)				
76	5.6	<u>Groundwater abstractions</u>	0	0	0	0	17
81	5.7	<u>Surface water abstractions</u>	0	0	0	1	19
86	5.8	<u>Potable abstractions</u>	0	0	0	0	3
87	5.9	Source Protection Zones	0	0	0	0	-
87	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
88	6.1	<u>Water Network (OS MasterMap)</u>	1	1	8	-	-



89	6.2	<u>Surface water features</u>	0	1	4	-	-
90	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
90	6.4	<u>WFD Surface water bodies</u>	0	0	1	-	-
90	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
92	7.1	<u>Risk of Flooding from Rivers and Sea (RoFRaS)</u>	High (within 50m)				
93	7.2	<u>Historical Flood Events</u>	0	0	3	-	-
93	7.3	Flood Defences	0	0	0	-	-
93	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
94	7.5	Flood Storage Areas	0	0	0	-	-
95	7.6	<u>Flood Zone 2</u>	Identified (within 50m)				
96	7.7	<u>Flood Zone 3</u>	Identified (within 50m)				
Page	Section	Surface water flooding					
97	8.1	<u>Surface water flooding</u>	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
99	9.1	<u>Groundwater flooding</u>	Moderate (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
100	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
101	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
101	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
101	10.4	Special Protection Areas (SPA)	0	0	0	0	0
101	10.5	National Nature Reserves (NNR)	0	0	0	0	0
102	10.6	<u>Local Nature Reserves (LNR)</u>	0	0	0	0	3
102	10.7	<u>Designated Ancient Woodland</u>	0	0	0	0	1
102	10.8	Biosphere Reserves	0	0	0	0	0
103	10.9	Forest Parks	0	0	0	0	0
103	10.10	Marine Conservation Zones	0	0	0	0	0
103	10.11	<u>Green Belt</u>	0	0	1	1	2
103	10.12	Proposed Ramsar sites	0	0	0	0	0



104	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
104	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
104	10.15	Nitrate Sensitive Areas	0	0	0	0	0
104	10.16	<u>Nitrate Vulnerable Zones</u>	0	0	0	0	1
106	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
107	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
108	11.1	World Heritage Sites	0	0	0	-	-
108	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
108	11.3	National Parks	0	0	0	-	-
108	11.4	Listed Buildings	0	0	0	-	-
109	11.5	Conservation Areas	0	0	0	-	-
109	11.6	Scheduled Ancient Monuments	0	0	0	-	-
109	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
110	12.1	<u>Agricultural Land Classification</u>	Urban (within 250m)				
111	12.2	Open Access Land	0	0	0	-	-
111	12.3	Tree Felling Licences	0	0	0	-	-
111	12.4	Environmental Stewardship Schemes	0	0	0	-	-
111	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
112	13.1	<u>Priority Habitat Inventory</u>	0	0	2	-	-
113	13.2	<u>Habitat Networks</u>	0	0	1	-	-
113	13.3	<u>Open Mosaic Habitat</u>	0	1	0	-	-
113	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
114	14.1	<u>10k Availability</u>	Identified (within 500m)				
115	14.2	<u>Artificial and made ground (10k)</u>	0	1	3	11	-
117	14.3	<u>Superficial geology (10k)</u>	1	1	1	4	-



118	14.4	Landslip (10k)	0	0	0	2	-
119	14.5	Bedrock geology (10k)	1	1	1	6	-
120	14.6	Bedrock faults and other linear features (10k)	0	0	3	9	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
122	15.1	50k Availability	Identified (within 500m)				
123	15.2	Artificial and made ground (50k)	0	0	1	1	-
124	15.3	Artificial ground permeability (50k)	0	0	-	-	-
125	15.4	Superficial geology (50k)	1	1	1	3	-
126	15.5	Superficial permeability (50k)	Identified (within 50m)				
126	15.6	Landslip (50k)	0	0	0	1	-
126	15.7	Landslip permeability (50k)	None (within 50m)				
127	15.8	Bedrock geology (50k)	1	1	1	6	-
128	15.9	Bedrock permeability (50k)	Identified (within 50m)				
128	15.10	Bedrock faults and other linear features (50k)	0	0	3	7	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
130	16.1	BGS Boreholes	0	0	10	-	-
Page	Section	Natural ground subsidence					
132	17.1	Shrink swell clays	Very low (within 50m)				
133	17.2	Running sands	Low (within 50m)				
135	17.3	Compressible deposits	Moderate (within 50m)				
137	17.4	Collapsible deposits	Very low (within 50m)				
138	17.5	Landslides	Very low (within 50m)				
139	17.6	Ground dissolution of soluble rocks	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
141	18.1	Natural cavities	0	0	0	0	-
142	18.2	BritPits	0	0	1	1	-
142	18.3	Surface ground workings	0	2	45	-	-
144	18.4	Underground workings	0	0	0	1	8
145	18.5	Historical Mineral Planning Areas	0	0	0	3	-



145	18.6	Non-coal mining	0	0	0	0	0
146	18.7	Mining cavities	0	0	0	0	0
146	18.8	<u>JPB mining areas</u>	Identified (within 0m)				
146	18.9	<u>Coal mining</u>	Identified (within 0m)				
146	18.10	Brine areas	None (within 0m)				
147	18.11	Gypsum areas	None (within 0m)				
147	18.12	Tin mining	None (within 0m)				
147	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
148	19.1	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
149	20.1	<u>BGS Estimated Background Soil Chemistry</u>	2	5	-	-	-
149	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
150	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
151	21.1	Underground railways (London)	0	0	0	-	-
151	21.2	Underground railways (Non-London)	0	0	0	-	-
152	21.3	Railway tunnels	0	0	0	-	-
152	21.4	<u>Historical railway and tunnel features</u>	0	0	26	-	-
153	21.5	Royal Mail tunnels	0	0	0	-	-
153	21.6	<u>Historical railways</u>	0	0	4	-	-
154	21.7	<u>Railways</u>	0	0	23	-	-
155	21.8	Crossrail 1	0	0	0	0	-
155	21.9	Crossrail 2	0	0	0	0	-
155	21.10	HS2	0	0	0	0	-



Recent aerial photograph



Capture Date: 23/05/2019

Site Area: 0.57ha



Recent site history - 2015 aerial photograph



Capture Date: 11/06/2015

Site Area: 0.57ha



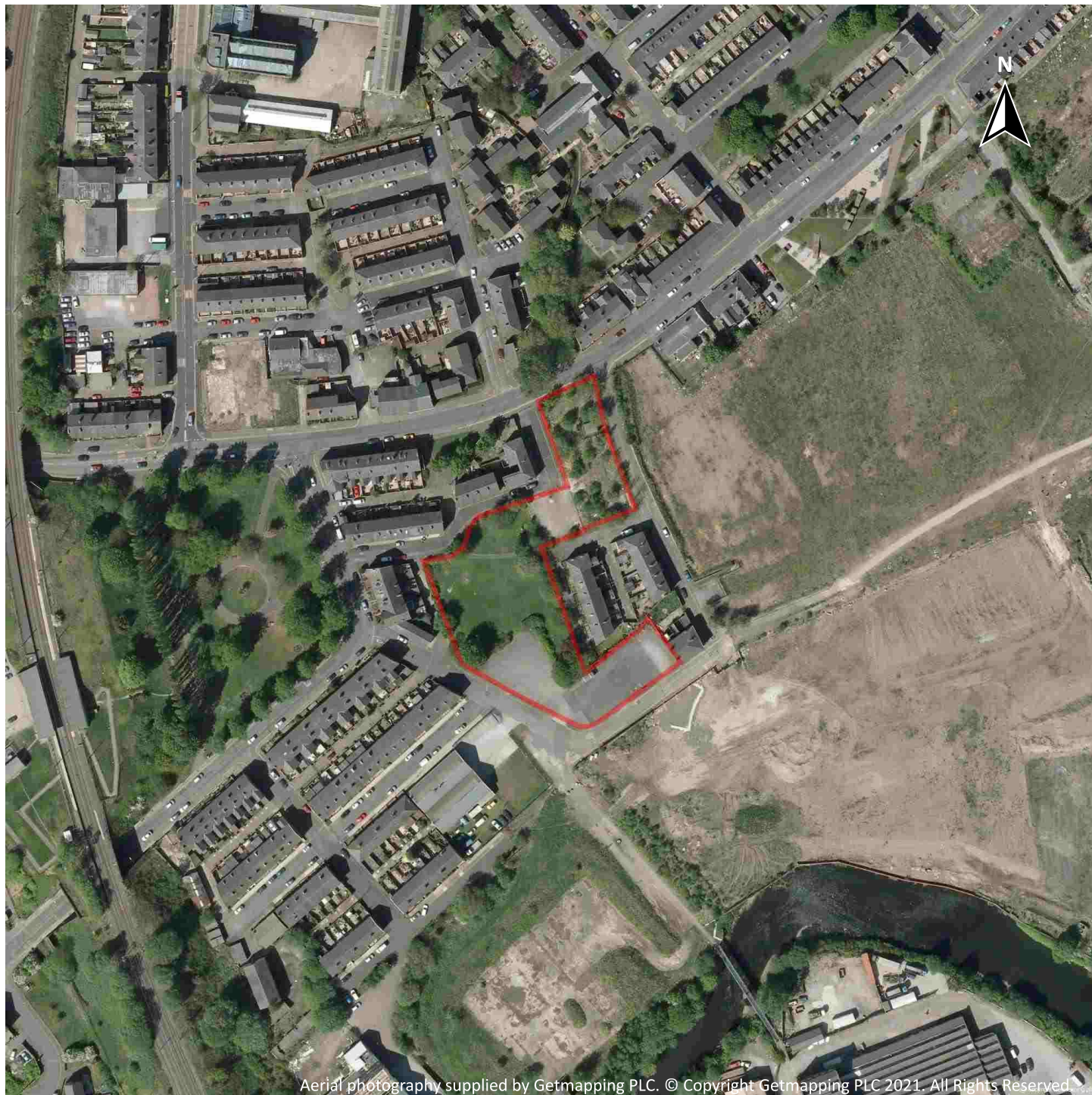
Contact us with any questions at:

info@groundsure.com

08444 159 000

Date: 26 February 2021

Recent site history - 2011 aerial photograph



Capture Date: 02/05/2011

Site Area: 0.57ha



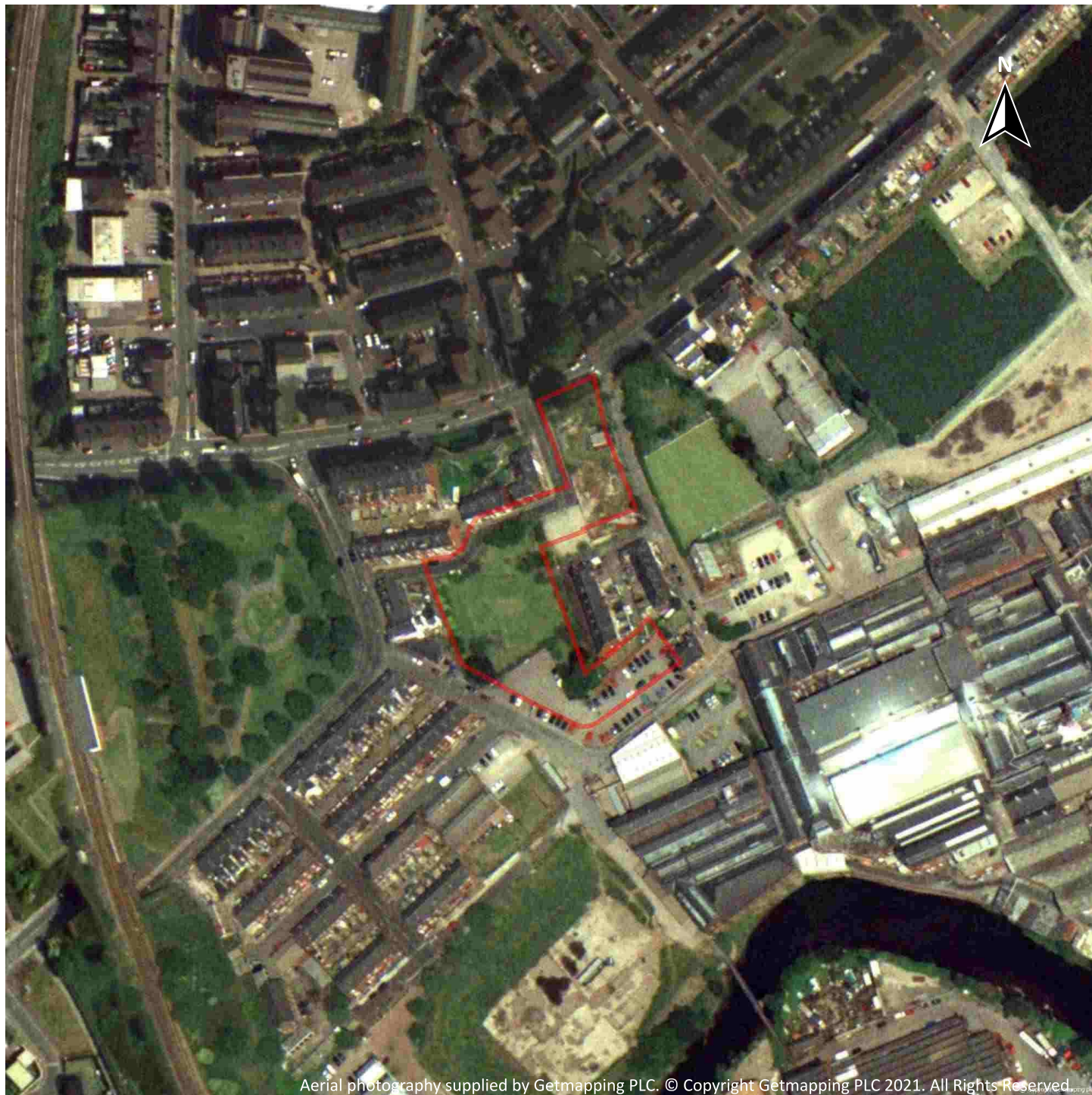
Contact us with any questions at:

info@groundsure.com

08444 159 000

Date: 26 February 2021

Recent site history - 2000 aerial photograph



Capture Date: 27/06/2000

Site Area: 0.57ha



OS MasterMap site plan



Site Area: 0.57ha



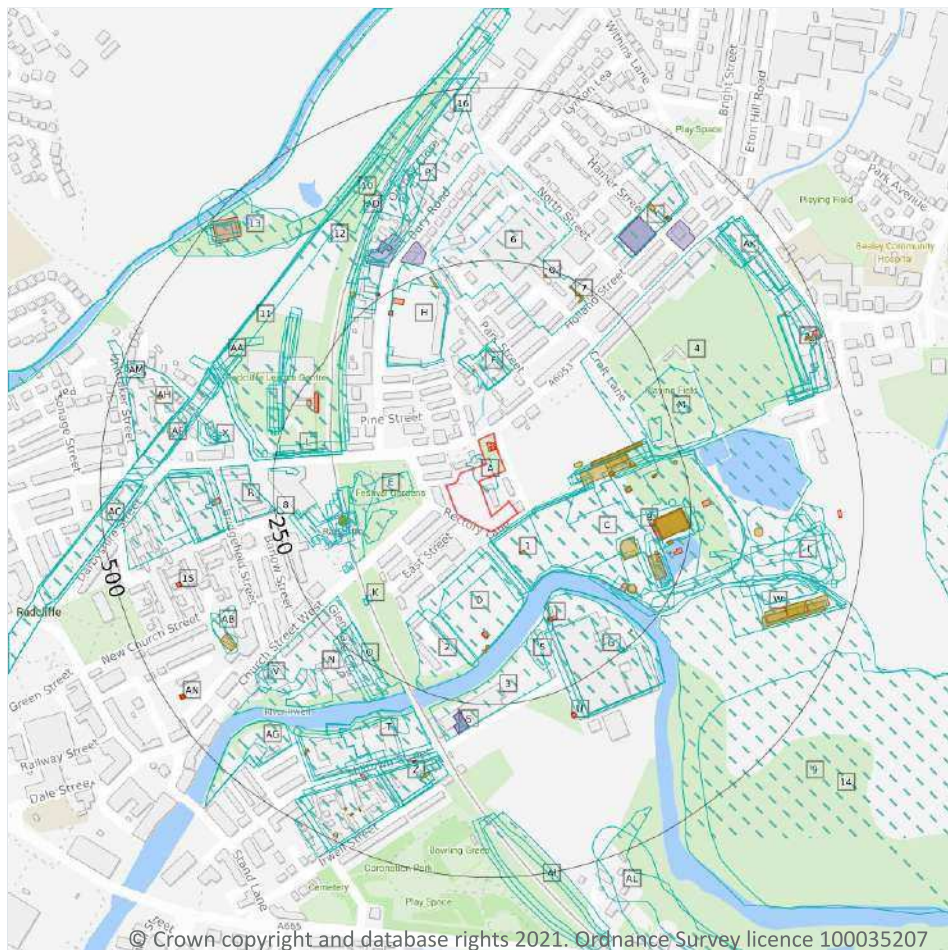
Contact us with any questions at:

info@groundsure.com

08444 159 000

Date: 26 February 2021

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

196

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
A	On site	Brewery	1851	672160



ID	Location	Land use	Dates present	Group ID
B	7m SE	Unspecified Mill	1965	656767
C	10m SE	Paper Mill	1955	747342
B	11m SE	Paper Mill	1977	752930
B	14m SE	Paper Mill	1988 - 1991	738283
C	17m E	Paper Mill	1891 - 1938	754835
D	25m SW	Unspecified Mill	1955	759364
D	29m S	Unspecified Mill	1965 - 1991	767702
E	48m W	Gravel Pit	1851	652857
D	52m S	Unspecified Mill	1908 - 1938	743686
F	63m N	Unspecified Mill	1908	771373
F	63m N	Unspecified Commercial/Industrial	1891	643349
F	63m N	Unspecified Mill	1927 - 1938	713990
F	70m N	Unspecified Mill	1965	729758
C	71m E	Barracks	1851	693095
E	80m W	Refuse Heap	1908	758978
E	102m W	Refuse Heap	1927 - 1938	764696
B	117m E	Print Works	1851 - 1891	731949
G	121m SE	Cotton Mills	1977	659316
G	121m SE	Unspecified Mills	1988 - 1991	704567
G	121m SE	Unspecified Mills	1965	739051
H	125m NW	Unspecified Works	1977 - 1991	725304
G	128m SE	Unspecified Mill	1955	656766
H	129m NW	Unspecified Works	1965	724121
I	133m SE	Railway Sidings	1927 - 1938	736519
E	137m W	Railway Station	1965	725611
E	139m W	Railway Station	1988 - 1991	704324
E	139m W	Railway Station	1977	786452
2	141m SW	Unspecified Works	1965 - 1991	762683



ID	Location	Land use	Dates present	Group ID
3	144m SE	Unspecified Works	1988 - 1991	765296
E	149m W	Railway Station	1955	736411
H	153m W	Railway Sidings	1955	768828
H	154m NW	Railway Sidings	1965	770535
B	154m E	Unspecified Tanks	1908	666456
B	154m E	Filter Beds	1927 - 1938	711639
E	155m W	Railway Station	1891 - 1938	782244
H	157m W	Railway Sidings	1891	720079
H	157m W	Railway Sidings	1908 - 1927	741317
H	157m W	Railway Sidings	1938	791022
B	160m E	Railway Sidings	1955	724525
4	161m NE	Bleach Works	1851	658161
5	162m S	Unspecified Ground Workings	1965 - 1991	721999
G	163m SE	Unspecified Mills	1908 - 1938	772610
6	165m NE	Unspecified Works	1977 - 1991	773215
E	169m SW	Railway Building	1955	670348
K	171m SW	Railway Building	1955	670351
E	177m SW	Railway Building	1891 - 1938	700111
K	179m SW	Junction Station	1908	659384
K	179m SW	Railway Building	1938	787323
K	179m SW	Railway Building	1891	789355
L	182m W	Railway Buildings	1965	681653
L	184m W	Railway Building	1955	788787
L	185m W	Railway Building	1908	766658
B	186m E	Filter Beds	1927 - 1938	750959
L	190m W	Railway Buildings	1938	681651
B	191m SE	Unspecified Tank	1891	674802
B	194m E	Filter Beds	1955	767266



ID	Location	Land use	Dates present	Group ID
L	199m W	Railway Building	1955	670347
B	202m E	Unspecified Tanks	1908	666455
M	202m E	Filter Beds	1955	745462
B	207m E	Unspecified Ground Workings	1927 - 1938	751625
N	210m SW	Timber Yard	1988 - 1991	767289
B	210m E	Unspecified Ground Workings	1955	770611
L	213m W	Railway Buildings	1955	681652
M	217m E	Filter Beds	1927 - 1938	740593
O	217m SW	Unspecified Works	1965	679081
B	219m E	Gasometer	1851	655144
L	225m W	Railway Building	1955	702193
O	225m SW	Chemical Works	1955	721911
O	232m SW	Chemical Works	1927 - 1938	724314
H	235m NW	Iron Works	1908	672245
L	236m W	Railway Building	1908	729914
8	238m W	Railway Building	1955	670350
H	240m NW	Unspecified Works	1965	679060
G	244m SE	Unspecified Tank	1908	727343
G	244m SE	Unspecified Tank	1938	753697
L	250m W	Goods Sheds	1965	691683
R	250m W	Unspecified Mill	1991	656763
R	250m W	Unspecified Commercial/Industrial	1977 - 1988	763484
L	251m W	Goods Station	1955	762621
L	251m W	Goods Station	1908	778227
L	254m W	Good Station	1891	644023
L	254m W	Goods Station	1927 - 1938	773782
9	255m SE	Refuse Heap	1977	787422
H	259m NW	Dye Works	1908	681891



ID	Location	Land use	Dates present	Group ID
L	262m W	Railway Building	1908	670349
M	265m E	Filter Beds	1927 - 1938	744467
H	272m NW	Goods Yard	1965	659613
H	273m NW	Goods Sheds	1955	691682
H	274m NW	Railway Building	1927 - 1938	745301
T	276m SW	Unspecified Works	1965	776856
T	282m SW	Unspecified Works	1977 - 1991	741370
I	283m E	Refuse Heap	1908	724060
P	285m NW	Colliery	1891	645293
H	290m NW	Railway Building	1908	767476
T	291m SW	Refuse Heap	1965	678031
P	295m NW	Refuse Heap	1908	760800
P	295m NW	Refuse Heap	1891	779808
N	298m SW	Refuse Heap	1965	678024
T	305m SW	Unspecified Commercial/Industrial	1955	643354
V	312m SW	Unspecified Heap	1891	650989
W	314m E	Sewage Works	1908	769944
X	318m W	Unspecified Ground Workings	1988	697607
R	320m W	Industrial Estate	1988 - 1991	748531
R	320m W	Unspecified Works	1965 - 1977	773599
X	320m W	Unspecified Ground Workings	1965 - 1977	784113
Y	323m NE	Soap Works	1891	682700
Y	323m NE	Unspecified Commercial/Industrial	1908 - 1927	717282
R	327m W	Iron Works	1955	775999
Z	328m S	Unspecified Works	1965	679078
Z	328m S	Unspecified Commercial/Industrial	1977	750221
W	332m E	Unspecified Ground Workings	1965	648181
Z	332m S	Unspecified Commercial/Industrial	1955	708864



ID	Location	Land use	Dates present	Group ID
X	333m W	Unspecified Ground Workings	1938	704395
Z	334m S	Unspecified Commercial/Industrial	1988 - 1991	784304
AA	334m NW	Unspecified Ground Workings	1977 - 1991	777235
R	335m W	Iron Works	1927 - 1938	705908
R	335m W	Unspecified Commercial/Industrial	1891 - 1908	739634
X	335m W	Unspecified Ground Workings	1955	735131
W	338m E	Unspecified Heaps	1965	679643
T	338m S	Unspecified Mills	1908 - 1938	746009
T	338m S	Unspecified Commercial/Industrial	1891	772047
W	339m E	Refuse Heap	1977	790838
P	343m NW	Refuse Heap	1927 - 1938	697784
AA	347m NW	Railway Building	1891	670340
AA	347m NW	Goods Sheds	1908 - 1938	754044
10	348m NW	Railway Sidings	1988 - 1991	746287
AB	348m SW	Sandstone Quarry	1851	686656
11	349m NW	Cuttings	1851	743135
W	350m E	Sewage Works	1927 - 1938	771592
V	351m SW	Dye Works	1851	681880
T	352m SW	Railway Sidings	1955	641665
AA	352m NW	Cuttings	1965	788563
W	354m E	Sewage Works	1955	742810
AA	354m NW	Cuttings	1955	733559
P	355m N	Unspecified Ground Workings	1955	648152
T	356m SW	Unspecified Mill	1965	656764
12	357m NW	Railway Building	1891	670346
AC	358m NW	Cuttings	1927	756389
AA	359m NW	Cuttings	1908	754462
AA	359m NW	Cuttings	1891	776151



ID	Location	Land use	Dates present	Group ID
AB	364m SW	Unspecified Ground Workings	1891	648167
AD	367m NW	Railway Building	1927 - 1938	725307
AE	368m W	Cuttings	1938 - 1988	734643
W	370m E	Unspecified Tanks	1908	666454
AD	370m NW	Railway Building	1955	773543
P	373m N	Refuse Heap	1891	726545
T	380m SW	Unspecified Mills	1965	757593
AE	381m W	Cuttings	1955	740221
13	385m NW	Railway Sidings	1977	784849
AE	386m W	Cuttings	1891 - 1908	705309
T	388m SW	Unspecified Mills	1955	784683
W	389m E	Unspecified Tanks	1908	666453
AF	389m NW	Unspecified Ground Workings	1927 - 1938	737329
AG	392m SW	Unspecified Works	1988 - 1991	777650
AH	392m W	Unspecified Commercial/Industrial	1977	643348
AH	392m W	Unspecified Works	1965	679082
AG	392m SW	Unspecified Commercial/Industrial	1977	643353
W	392m E	Refuse Heap	1927 - 1938	759592
Y	392m NE	Unspecified Works	1965	679063
W	401m E	Unspecified Heap	1955	650892
14	401m SE	Refuse Heap	1988 - 1991	755598
W	402m E	Refuse Heap	1955	743623
AI	406m S	Cuttings	1965 - 1991	709910
AI	407m S	Cuttings	1955	774935
AI	411m S	Cuttings	1891 - 1938	755502
AJ	420m E	Tower Works	1955	778655
AJ	421m E	Unspecified Commercial/Industrial	1908	694693
AJ	421m E	Tower Works	1927 - 1938	704950



ID	Location	Land use	Dates present	Group ID
AJ	421m E	Unspecified Commercial/Industrial	1891	771773
AK	426m NE	Unspecified Mill	1908 - 1938	711306
AK	426m NE	Unspecified Commercial/Industrial	1891	782718
AJ	431m E	Unspecified Works	1988 - 1991	751996
AJ	431m E	Unspecified Works	1965	727566
AJ	431m E	Unspecified Commercial/Industrial	1977	774253
AC	432m W	Cuttings	1988	710586
AK	433m NE	Unspecified Mill	1955	696615
AC	436m W	Cuttings	1851	758394
AK	437m NE	Unspecified Works	1988 - 1991	728251
AG	437m SW	Cotton Mill	1851	644067
AC	438m W	Cuttings	1938	737977
AC	438m W	Cuttings	1891 - 1908	767946
AK	439m NE	Unspecified Commercial/Industrial	1977	718948
AK	439m NE	Unspecified Mill	1965	750445
AC	441m W	Cuttings	1955 - 1977	726792
AF	455m NW	Railway Building	1955	753043
AL	456m SE	Unspecified Ground Workings	1851	746947
AF	456m NW	Railway Building	1965 - 1977	755344
AF	457m NW	Railway Building	1927 - 1938	743927
AL	459m S	Unspecified Ground Workings	1927 - 1938	698249
W	463m E	Filter Beds	1891	665813
AM	463m W	Refuse Heap	1908	678023
16	467m N	Railway Building	1891	670345
AF	481m NW	Disused Canal	1988 - 1991	788290
AF	483m NW	Disused Canal	1977	706247
AM	497m W	Refuse Heap	1908	678022

This data is sourced from Ordnance Survey / Groundsure.



1.2 Historical tanks

Records within 500m

60

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
1	46m SE	Unspecified Tank	1956	94735
F	94m N	Unspecified Tank	1893	85020
B	100m E	Tanks	1984 - 1996	102509
B	104m NE	Unspecified Tank	1909	100091
B	123m E	Unspecified Tank	1984	95540
B	125m E	Unspecified Tank	1956	102574
B	125m E	Unspecified Tank	1956	89402
B	143m NE	Unspecified Tank	1984 - 1987	101215
B	144m NE	Unspecified Tank	1956 - 1996	98708
B	144m E	Unspecified Tank	1956	95770
B	144m NE	Unspecified Tank	1929 - 1937	99697
B	156m E	Tanks	1929 - 1937	90009
B	158m E	Unspecified Tank	1956 - 1996	104149
B	160m E	Unspecified Tank	1956	99474
D	164m S	Unspecified Tank	1956 - 1987	95156
D	171m S	Unspecified Tank	1929 - 1937	96272
B	175m E	Unspecified Tank	1956	88735
B	176m E	Unspecified Tank	1956 - 1996	94224
B	192m SE	Unspecified Tank	1893	85036
B	197m E	Settling Tanks	1956	99970
B	197m E	Settling Tanks	1956	97227



ID	Location	Land use	Dates present	Group ID
B	198m E	Settling Tanks	1984 - 1987	99461
B	199m E	Tanks	1909	87877
B	199m E	Settling Tanks	1996	92380
B	201m E	Unspecified Tank	1984	101766
B	203m E	Unspecified Tank	1956	92508
B	203m E	Unspecified Tank	1956	100722
B	205m E	Unspecified Tank	1956 - 1996	90801
B	210m E	Unspecified Tank	1956 - 1987	94455
B	220m E	Unspecified Tank	1984 - 1987	91954
B	221m E	Unspecified Tank	1956 - 1996	102147
P	224m N	Tanks	1988	87883
7	226m NE	Tanks	1985 - 1987	93339
G	234m SE	Unspecified Tank	1956	99607
G	234m SE	Unspecified Tank	1956	95677
B	237m E	Unspecified Tank	1996	85024
Q	238m N	Unspecified Tank	1956	89496
Q	239m N	Unspecified Tank	1956	93292
H	274m NW	Unspecified Tank	1909 - 1937	91491
W	343m E	Unspecified Tank	1996	85023
Z	359m S	Tanks	1981 - 1994	96357
AB	370m SW	Tanks	1909	87880
W	383m SE	Tanks	1909 - 1937	97918
W	384m E	Unspecified Tank	1956	94625
Y	395m NE	Unspecified Tank	1929 - 1937	97446
T	402m SW	Unspecified Tank	1956 - 1970	100605
T	408m SW	Unspecified Tank	1929 - 1937	92840
W	409m E	Unspecified Tank	1956	103930
W	410m E	Unspecified Tank	1956	94050



ID	Location	Land use	Dates present	Group ID
AH	430m W	Unspecified Tank	1956	102761
W	435m E	Tanks	1956	92422
T	442m SW	Tanks	1955	102152
T	449m SW	Tanks	1955	97577
T	453m SW	Tanks	1955	98096
AJ	453m E	Unspecified Tank	1956 - 1994	95441
T	453m SW	Tanks	1955	92130
T	456m SW	Tanks	1955	93690
AJ	470m E	Unspecified Tank	1980 - 1992	101029
AJ	470m E	Unspecified Tank	1956 - 1998	94223
T	488m SW	Unspecified Tank	1929 - 1937	104207

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

38

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	1996	54390
A	On site	Electricity Substation	1984 - 1987	54833
D	144m S	Electricity Substation	1956	58290
D	144m S	Electricity Substation	1956 - 1996	48810
J	149m SE	Electricity Substation	1956 - 1987	47803
J	149m SE	Electricity Substation	1956	49307
E	167m W	Electricity Substation	1994 - 1995	49012



ID	Location	Land use	Dates present	Group ID
B	183m SE	Electricity Substation	1956 - 1984	54747
B	188m E	Electricity Substation	1984 - 1996	48907
B	194m E	Electricity Substation	1956	57699
L	212m NW	Electricity Substation	1995	47864
L	212m NW	Electricity Substation	1988	55715
H	219m NW	Electricity Substation	1956 - 1995	52654
H	224m NW	Electricity Substation	1988	45636
B	226m E	Electricity Substation	1956	45640
L	227m NW	Electricity Substation	1988 - 1995	53833
B	232m E	Electricity Substation	1956 - 1996	56250
H	252m NW	Electricity Substation	1956	47533
H	253m NW	Electricity Substation	1956 - 1995	54507
H	254m NW	Electricity Substation	1988	57575
B	267m E	Electricity Substation	1996	45639
U	286m SE	Electricity Substation	1984 - 1987	47616
U	287m SE	Electricity Substation	1996	52574
R	327m W	Electricity Substation	1956	55625
Z	347m S	Electricity Substation	1970 - 1995	47168
T	395m SW	Electricity Substation	1955	52078
Y	398m NE	Electricity Substation	1985 - 1987	51206
Y	398m NE	Electricity Substation	1956 - 1994	57450
Y	400m NE	Electricity Substation	1956	58081
15	409m W	Electricity Substation	1970 - 1995	53640
AF	453m NW	Electricity Substation	1956	47823
W	463m E	Electricity Substation	1956	58153
AN	472m SW	Electricity Substation	1970	50924
AN	472m SW	Electricity Substation	1989	59333
AN	473m SW	Electricity Substation	1978 - 1988	49397

