

**Grid ref**: 388207 417985

# 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 122** 

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.





**Grid ref**: 388207 417985

This data is sourced from the British Geological Survey.



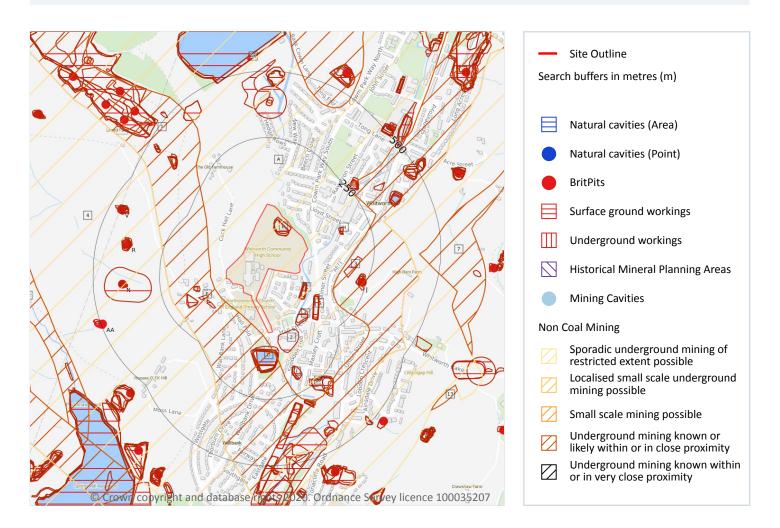
**Date**: 20 August 2020

08444 159 000



**Grid ref**: 388207 417985

## 18 Mining, ground workings and natural cavities



### 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).





**Grid ref**: 388207 417985

5

### 18.2 BritPits

Records within 500m

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.

Features are displayed on the Mining, ground workings and natural cavities map on page 124

ID	Location	Details	Description
טו	LOCATION	Details	Description
J	236m E	Name: High Field Quarry Address: WHITWORTH, Lancashire Commodity: Sandstone Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
R	383m W	Name: Limed Delf Address: Hallfold, WHITWORTH, Lancashire Commodity: Sandstone Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
N	389m W	Name: Fold Head Colliery Address: Hallfold, WHITWORTH, Lancashire Commodity: Coal, Deep Status: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
V	456m NW	Name: New Road Address: Hallfold, WHITWORTH, Lancashire Commodity: Sandstone Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
AA	494m W	Name: Houses o' th' Hill Mine Address: Hallfold, WHITWORTH, Lancashire Commodity: Coal, Deep Status: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.





**Grid ref**: 388207 417985

### 18.3 Surface ground workings

Records within 250m 48

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 124

B         On site         Unspecified Pit         1928         1:10560           B         On site         Unspecified Pit         1938         1:10560           B         On site         Unspecified Pit         1949         1:10560           B         On site         Unspecified Pit         1949         1:10560           C         42m SE         Pond         1851         1:10560           C         47m SE         Pond         1967         1:10560           C         49m S         Reservoir         1938         1:10560           C         49m S         Reservoir         1928         1:10560           C         49m S         Reservoir         1909         1:10560           D         51m S         Pond         1851         1:10560           D         63m S         Reservoir         1949         1:10560           D         64m S         Pond         1967         1:10560           D         64m S         Reservoir         1979         1:10000           D         68m S         Reservoir         1938         1:10560           D         71m S         Reservoir         1928         1:10560 <th>ID</th> <th>Location</th> <th>Land Use</th> <th>Year of mapping</th> <th>Mapping scale</th>	ID	Location	Land Use	Year of mapping	Mapping scale
B         On site         Unspecified Pit         1938         1:10560           B         On site         Unspecified Pit         1949         1:10560           2         26m SE         Pond         1851         1:10560           C         41m SE         Reservoir         1949         1:10560           C         47m SE         Pond         1967         1:10560           C         49m S         Reservoir         1928         1:10560           C         49m S         Reservoir         1909         1:10560           D         51m S         Pond         1851         1:10560           D         63m S         Reservoir         1949         1:10560           D         64m S         Pond         1967         1:10560           D         64m S         Reservoir         1979         1:10000           D         68m S         Reservoir         1938         1:10560           D         68m S         Reservoir         1938         1:10560	В	On site	Unspecified Pit	1928	1:10560
B         On site         Unspecified Pit         1949         1:10560           2         26m SE         Pond         1851         1:10560           C         41m SE         Reservoir         1949         1:10560           C         47m SE         Pond         1967         1:10560           C         49m S         Reservoir         1928         1:10560           C         49m S         Reservoir         1909         1:10560           D         51m S         Pond         1851         1:10560           D         63m S         Reservoir         1949         1:10560           D         64m S         Pond         1967         1:10560           D         64m S         Reservoir         1979         1:10000           D         68m S         Reservoir         1938         1:10560           D         68m S         Reservoir         1938         1:10560	В	On site	Unspecified Pit	1967	1:10560
2       26m SE       Pond       1851       1:10560         C       41m SE       Reservoir       1949       1:10560         C       47m SE       Pond       1967       1:10560         C       49m S       Reservoir       1938       1:10560         C       49m S       Reservoir       1909       1:10560         D       51m S       Pond       1851       1:10560         D       63m S       Reservoir       1949       1:10560         D       64m S       Pond       1967       1:10560         D       64m S       Reservoir       1979       1:10000         D       68m S       Reservoir       1938       1:10560         D       68m S       Reservoir       1938       1:10560	В	On site	Unspecified Pit	1938	1:10560
C       41m SE       Reservoir       1949       1:10560         C       47m SE       Pond       1967       1:10560         C       49m S       Reservoir       1938       1:10560         C       49m S       Reservoir       1909       1:10560         C       49m S       Reservoir       1909       1:10560         D       51m S       Pond       1851       1:10560         D       63m S       Reservoir       1949       1:10560         D       64m S       Pond       1967       1:10560         D       64m S       Reservoir       1979       1:10000         D       68m S       Reservoir       1938       1:10560         D       68m S       Reservoir       1891       1:10560	В	On site	Unspecified Pit	1949	1:10560
C       47m SE       Pond       1967       1:10560         C       49m S       Reservoir       1938       1:10560         C       49m S       Reservoir       1909       1:10560         D       51m S       Pond       1851       1:10560         D       63m S       Reservoir       1949       1:10560         D       64m S       Pond       1967       1:10560         D       64m S       Reservoir       1979       1:10000         D       68m S       Reservoir       1938       1:10560         D       68m S       Reservoir       1891       1:10560	2	26m SE	Pond	1851	1:10560
C       49m S       Reservoir       1938       1:10560         C       49m S       Reservoir       1928       1:10560         C       49m S       Reservoir       1909       1:10560         D       51m S       Pond       1851       1:10560         D       63m S       Reservoir       1949       1:10560         D       64m S       Pond       1967       1:10560         D       64m S       Reservoir       1979       1:10000         D       68m S       Reservoir       1938       1:10560         D       68m S       Reservoir       1891       1:10560	С	41m SE	Reservoir	1949	1:10560
C       49m S       Reservoir       1928       1:10560         C       49m S       Reservoir       1909       1:10560         D       51m S       Pond       1851       1:10560         D       63m S       Reservoir       1949       1:10560         D       64m S       Pond       1967       1:10560         D       64m S       Reservoir       1979       1:10000         D       68m S       Reservoir       1938       1:10560         D       68m S       Reservoir       1891       1:10560	С	47m SE	Pond	1967	1:10560
C       49m S       Reservoir       1909       1:10560         D       51m S       Pond       1851       1:10560         D       63m S       Reservoir       1949       1:10560         D       64m S       Pond       1967       1:10560         D       64m S       Reservoir       1979       1:10000         D       68m S       Reservoir       1938       1:10560         D       68m S       Reservoir       1891       1:10560	С	49m S	Reservoir	1938	1:10560
D       51m S       Pond       1851       1:10560         D       63m S       Reservoir       1949       1:10560         D       64m S       Pond       1967       1:10560         D       64m S       Reservoir       1979       1:10000         D       68m S       Reservoir       1938       1:10560         D       68m S       Reservoir       1891       1:10560	С	49m S	Reservoir	1928	1:10560
D       63m S       Reservoir       1949       1:10560         D       64m S       Pond       1967       1:10560         D       64m S       Reservoir       1979       1:10000         D       68m S       Reservoir       1938       1:10560         D       68m S       Reservoir       1891       1:10560	С	49m S	Reservoir	1909	1:10560
D       64m S       Pond       1967       1:10560         D       64m S       Reservoir       1979       1:10000         D       68m S       Reservoir       1938       1:10560         D       68m S       Reservoir       1891       1:10560	D	51m S	Pond	1851	1:10560
D       64m S       Reservoir       1979       1:10000         D       68m S       Reservoir       1938       1:10560         D       68m S       Reservoir       1891       1:10560	D	63m S	Reservoir	1949	1:10560
D         68m S         Reservoir         1938         1:10560           D         68m S         Reservoir         1891         1:10560	D	64m S	Pond	1967	1:10560
D 68m S Reservoir 1891 1:10560	D	64m S	Reservoir	1979	1:10000
	D	68m S	Reservoir	1938	1:10560
D 71m S Reservoir 1928 1:10560	D	68m S	Reservoir	1891	1:10560
	D	71m S	Reservoir	1928	1:10560
D 71m S Reservoir 1909 1:10560	D	71m S	Reservoir	1909	1:10560
E 89m SW Unspecified Ground Workings 1891 1:10560	Е	89m SW	Unspecified Ground Workings	1891	1:10560
F 92m E Unspecified Heap 1928 1:10560	F	92m E	Unspecified Heap	1928	1:10560
F 96m E Unspecified Heap 1949 1:10560	F	96m E	Unspecified Heap	1949	1:10560
G 103m SE Cuttings 1949 1:10560	G	103m SE	Cuttings	1949	1:10560
G 104m SE Cuttings 1928 1:10560	G	104m SE	Cuttings	1928	1:10560





Grid ref: 388207 417985

ID	Location	Land Use	Year of mapping	Mapping scale
G	104m SE	Cuttings	1909	1:10560
G	104m SE	Cuttings	1938	1:10560
		_		
G 	105m SE	Cuttings	1891	1:10560
E	105m W	Unspecified Pit	1891	1:10560
E	106m SW	Unspecified Ground Workings	1891	1:10560
Е	111m W	Unspecified Pit	1909	1:10560
D	119m S	Pond	1890	1:10560
D	122m S	Pond	1928	1:10560
Н	134m E	Refuse Heap	1928	1:10560
Е	135m SW	Unspecified Heap	1938	1:10560
Е	137m SW	Unspecified Heap	1928	1:10560
Н	138m E	Refuse Heap	1938	1:10560
I	150m SE	Unspecified Ground Workings	1928	1:10560
I	150m SE	Unspecified Ground Workings	1909	1:10560
1	153m SE	Unspecified Heap	1938	1:10560
3	159m SE	Cuttings	1949	1:10560
J	213m E	Unspecified Pit	1928	1:10560
J	213m E	Old Reservoir	1909	1:10560
J	216m E	Sandstone Quarry	1851	1:10560
J	219m SE	Unspecified Pit	1949	1:10560
J	222m SE	Unspecified Pit	1938	1:10560
J	222m SE	Unspecified Pit	1891	1:10560
K	225m SE	Unspecified Ground Workings	1909	1:10560
K	231m SE	Refuse Heap	1938	1:10560
K	233m SE	Refuse Heap	1928	1:10560

This is data is sourced from Ordnance Survey/Groundsure.





Grid ref: 388207 417985

### **18.4 Underground workings**

Records within 1000m 8

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

Features are displayed on the Mining, ground workings and natural cavities map on page 124

ID	Location	Land Use	Year of mapping	Mapping scale
AA	488m W	Unspecified Old Level	1938	1:10560
AA	490m W	Unspecified Old Level	1949	1:10560
AA	491m W	Unspecified Old Level	1928	1:10560
AA	492m W	Old Coal Level	1909	1:10560
AK	547m N	Valve Shaft	1928	1:10560
AK	547m N	Valve Shaft	1909	1:10560
AK	548m N	Valve Shaft	1938	1:10560
AK	557m N	Valve Shaft	1949	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

### **18.5 Historical Mineral Planning Areas**

Records within 500m 0

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

This data is sourced from the British Geological Survey.

### 18.6 Non-coal mining

Records within 1000m 10

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 124





Grid ref: 388207 417985

10	Landin	Name	Comment	Class	Liberth and
ID	Location	Name	Commodity	Class	Likelihood
Α	On site	Not available	Vein Mineral	А	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
1	22m SW	Whitworth	Sandstone - Flagstones\Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
4	214m SW	Not available	Vein Mineral	А	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
7	420m E	Whitworth	Vein Mineral/Flagstone	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
8	425m NE	Whitworth	Sandstone - Flagstones\Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
12	657m SW	Whitworth	Sandstone - Flagstones\Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
13	665m SE	Whitworth	Vein Mineral/Flagstone	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
16	734m SW	Whitworth	Vein Mineral/Flagstone	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
20	896m SW	Not available	Vein Mineral	А	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
-	965m SW	Whitworth	Sandstone - Flagstones\Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered

This data is sourced from the British Geological Survey.





**Grid ref**: 388207 417985

0

### 18.7 Mining cavities

Records within 1000m

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 0

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

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.





**Grid ref**: 388207 417985

### 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.

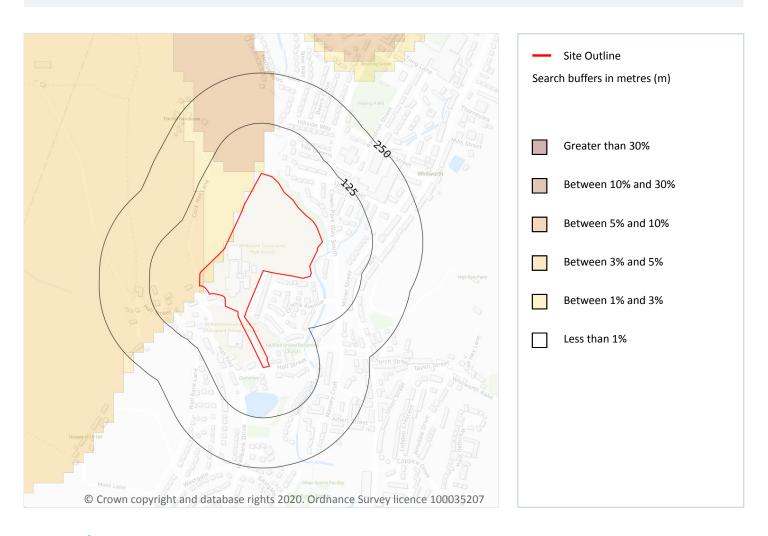
This data is sourced from the Kaolin and Ball Clay Association (UK).





**Grid ref**: 388207 417985

## 19 Radon



### **19.1** Radon

Records on site 3

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 132

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 1% and 3%	None
On site	Between 3% and 5%	Basic





Grid ref: 388207 417985

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

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



08444 159 000



**Grid ref**: 388207 417985

## 20 Soil chemistry

### **20.1 BGS Estimated Background Soil Chemistry**

Records within 50m 15

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 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	2.2 - 3.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	2.2 - 3.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
22m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
46m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	2.2 - 3.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
49m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg





Grid ref: 388207 417985

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
49m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
49m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
49m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

### 20.2 BGS Estimated Urban Soil Chemistry

Records within 50m 0

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).

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 km<sup>2</sup>.

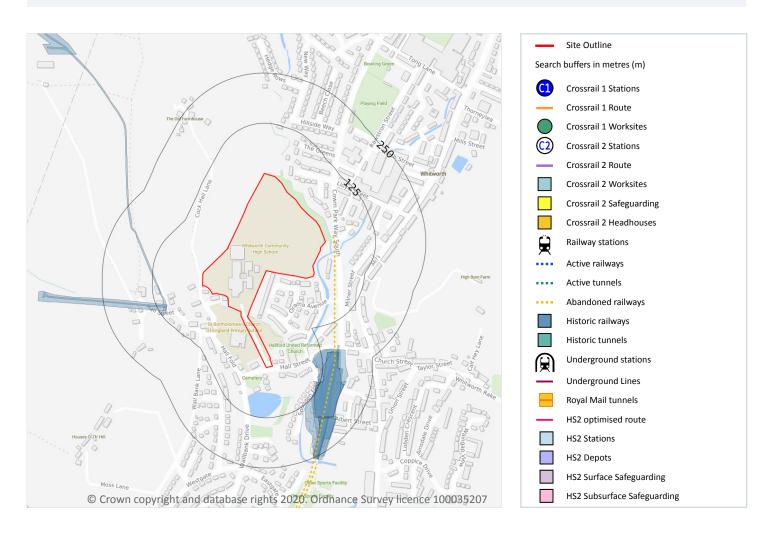
This data is sourced from the British Geological Survey.





**Grid ref**: 388207 417985

# 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

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.





**Grid ref**: 388207 417985

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 21

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 136

Location	Land Use	Year of mapping	Mapping scale
99m SW	Tramway Sidings	1909	10560
100m SW	Tramway Sidings	1891	2500
100m E	Railway Sidings	1967	10560
102m E	Railway Sidings	1949	10560
105m SW	Tramway Sidings	1910	2500
115m E	Railway Sidings	1891	10560
119m SE	Railway Sidings	1928	10560
119m SE	Railway Sidings	1909	10560
123m E	Railway Sidings	1938	10560
126m E	Railway Sidings	1962	2500
127m E	Railway Sidings	1910	2500
127m E	Railway Sidings	1929	2500
133m E	Railway Sidings	1891	2500
152m E	Railway Sidings	1891	2500
170m SE	Railway Sidings	1890	10560
171m SE	Railway Sidings	1928	10560
171m SE	Railway Sidings	1909	10560





Grid ref: 388207 417985

Location	Land Use	Year of mapping	Mapping scale
177m SE	Railway Sidings	1938	10560
197m SE	Railway Sidings	1890	2500
197m SE	Railway Sidings	1910	2500
197m SE	Railway Sidings	1929	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 1

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

Features are displayed on the Railway infrastructure and projects map on page 136

Location	Description
21m E	Abandoned

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.





Grid ref: 388207 417985

#### 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.





Grid ref: 388207 417985

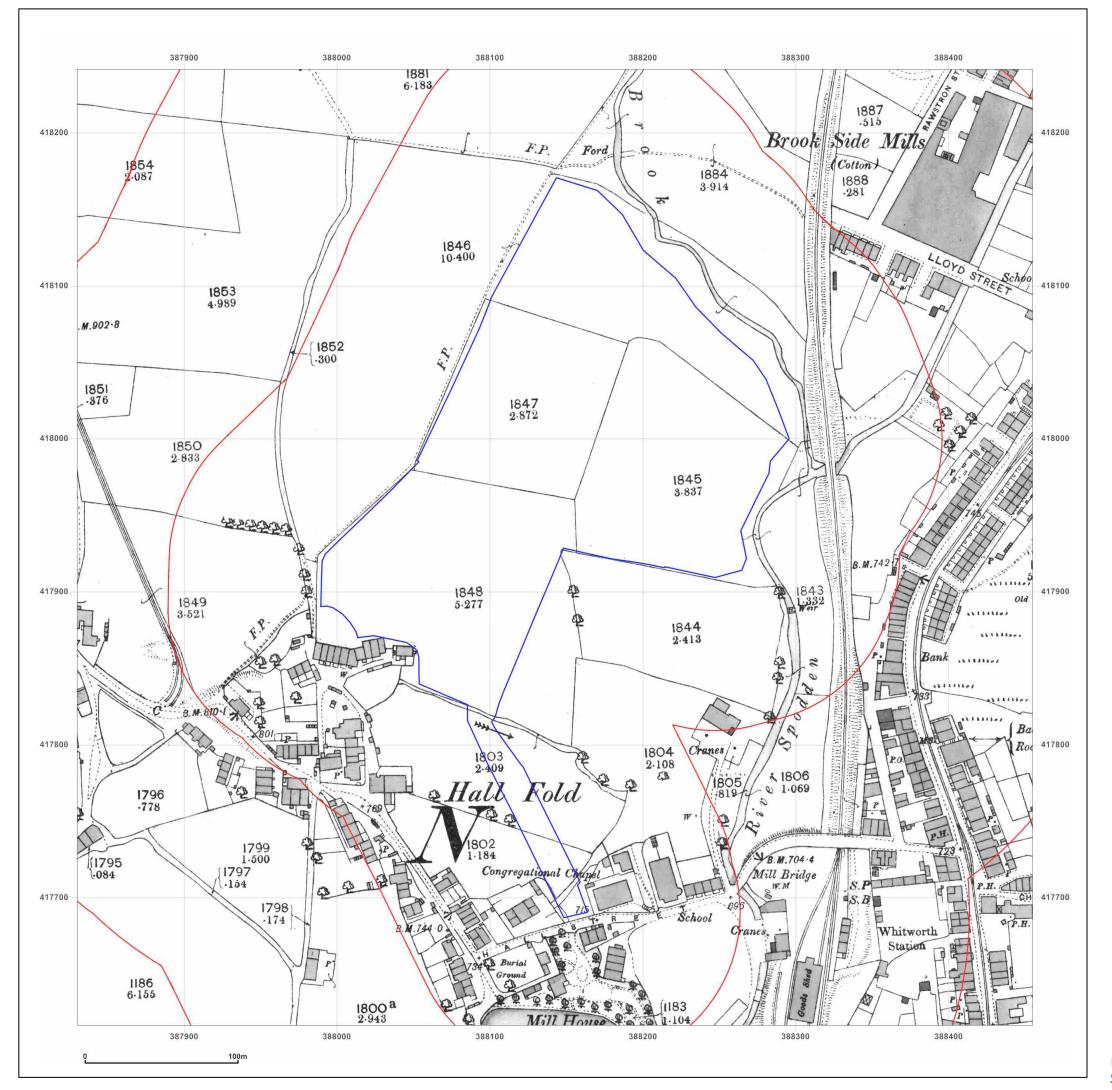
## **Data providers**

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 <a href="https://www.groundsure.com/sources-reference">https://www.groundsure.com/sources-reference</a>.

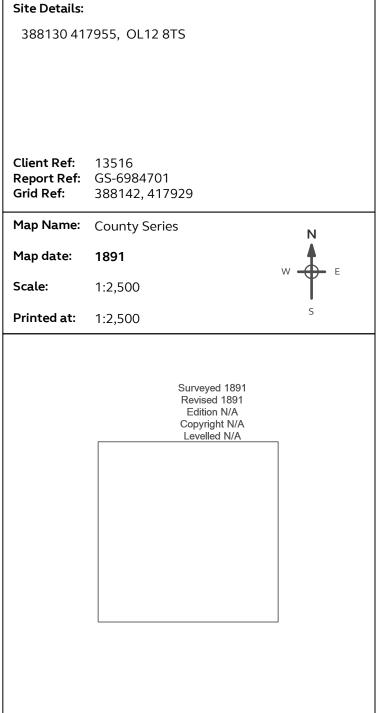
# **Terms and conditions**

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







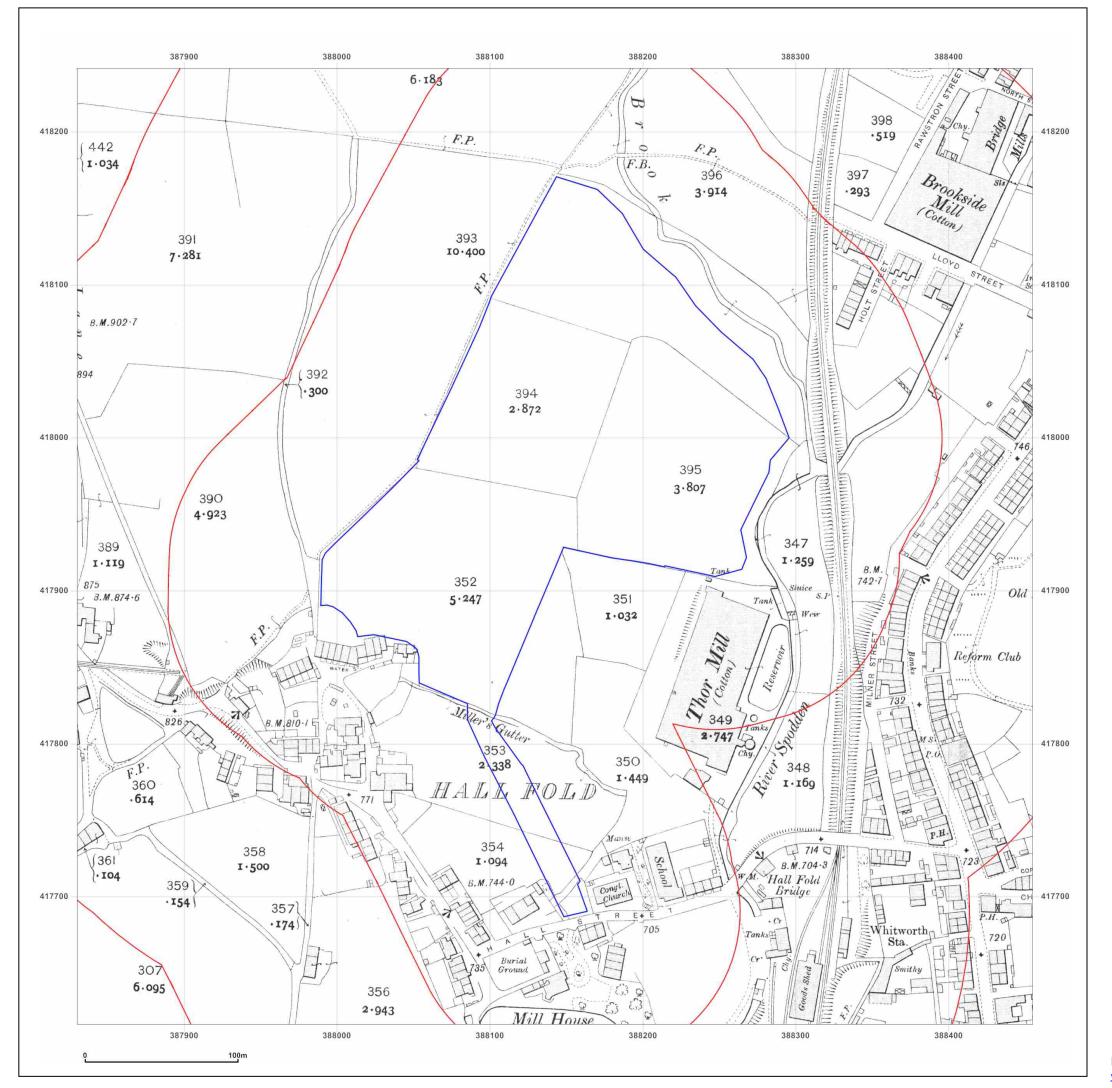




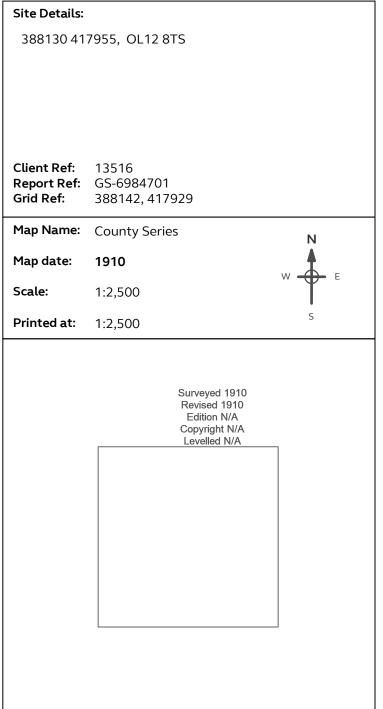
© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 20 August 2020

Map legend available at:





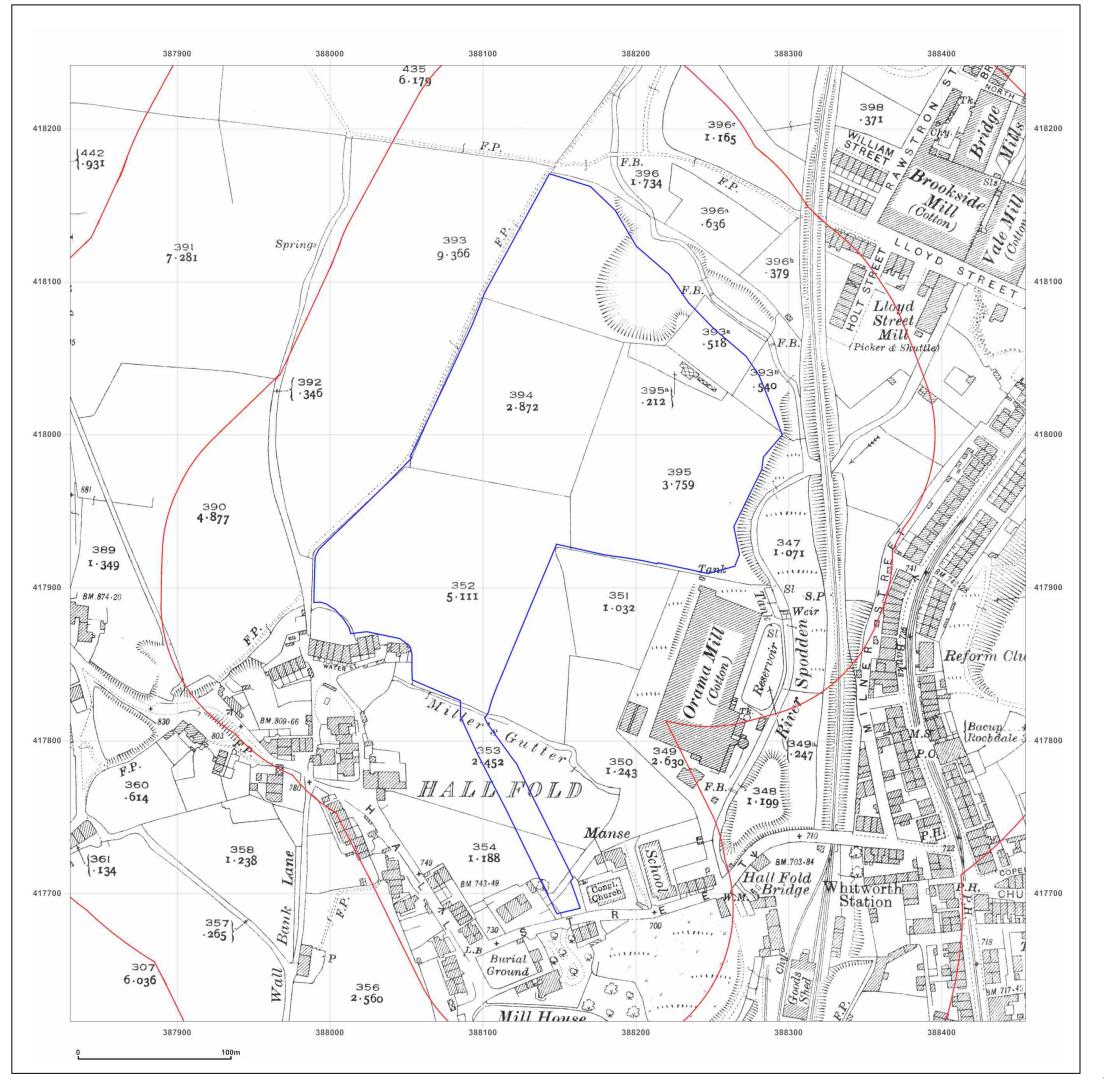




© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 20 August 2020

Map legend available at:





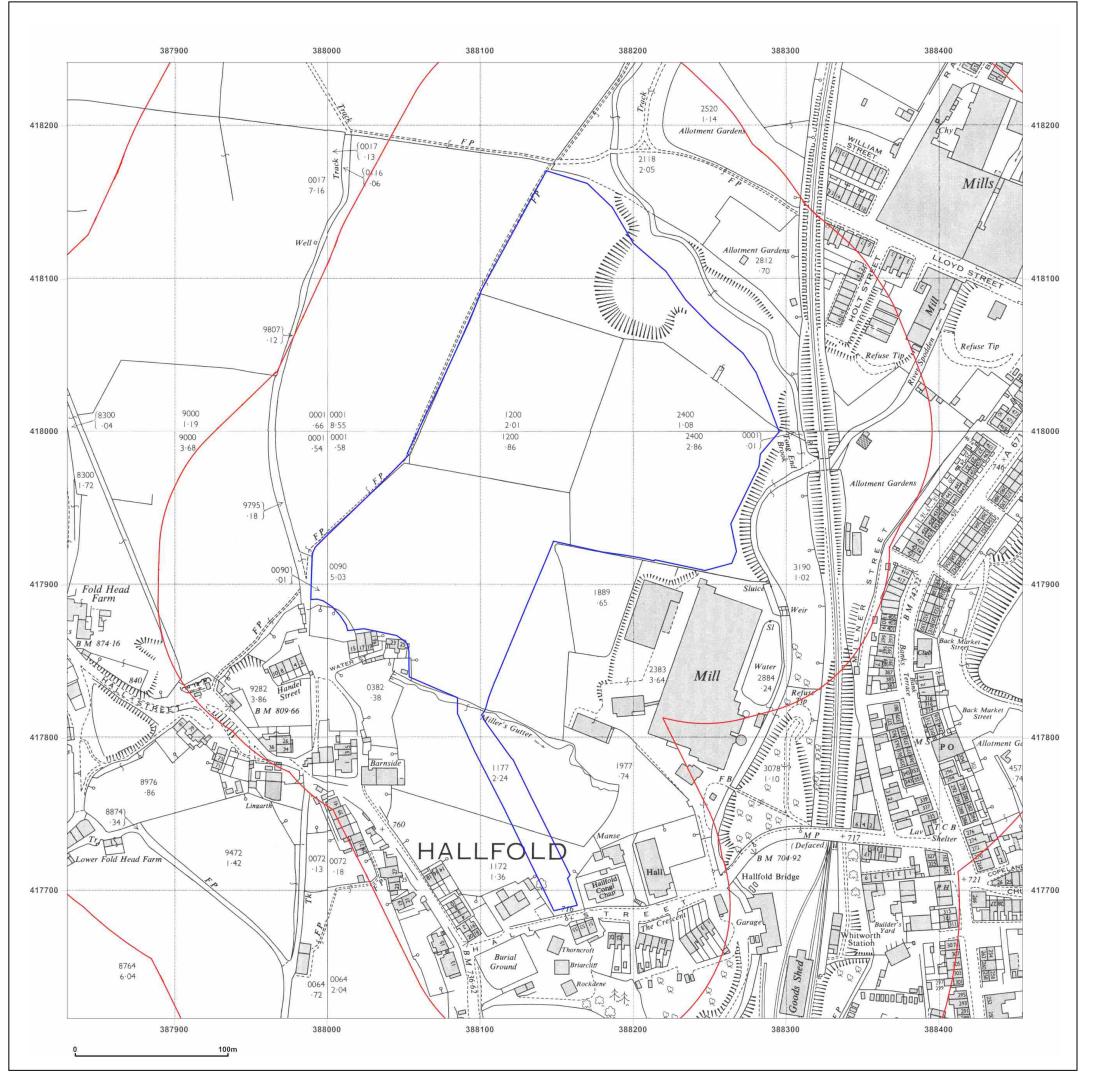
Site Details:				
388130 417955, OL12 8TS				
Client Ref:	13516			
Report Ref: Grid Ref:	GS-6984701 388142, 417929			
Map Name:	County Series	N		
Map date:	1929	Ä		
Map date.	1929	w <del> </del> E		
Scale:	1:2,500	Ĭ		
Drinted at	1.2 500	S		
Printed at:	1:2,500			
	Surveyed 1929			
	Revised 1929 Edition N/A			
	Copyright N/A			
	Levelled N/A			



© Crown copyright and database rights 2018 Ordnance Survey 100035207

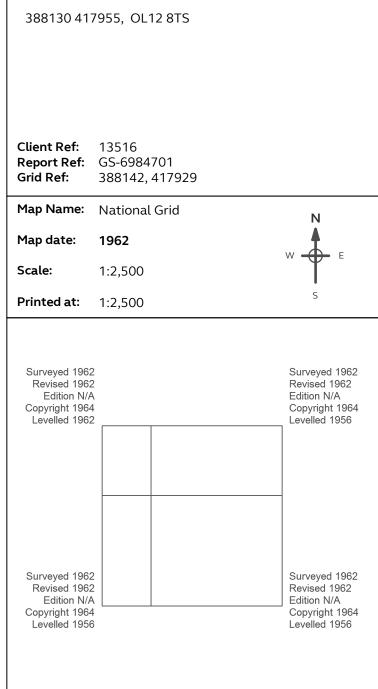
Production date: 20 August 2020

Map legend available at:





Site Details:



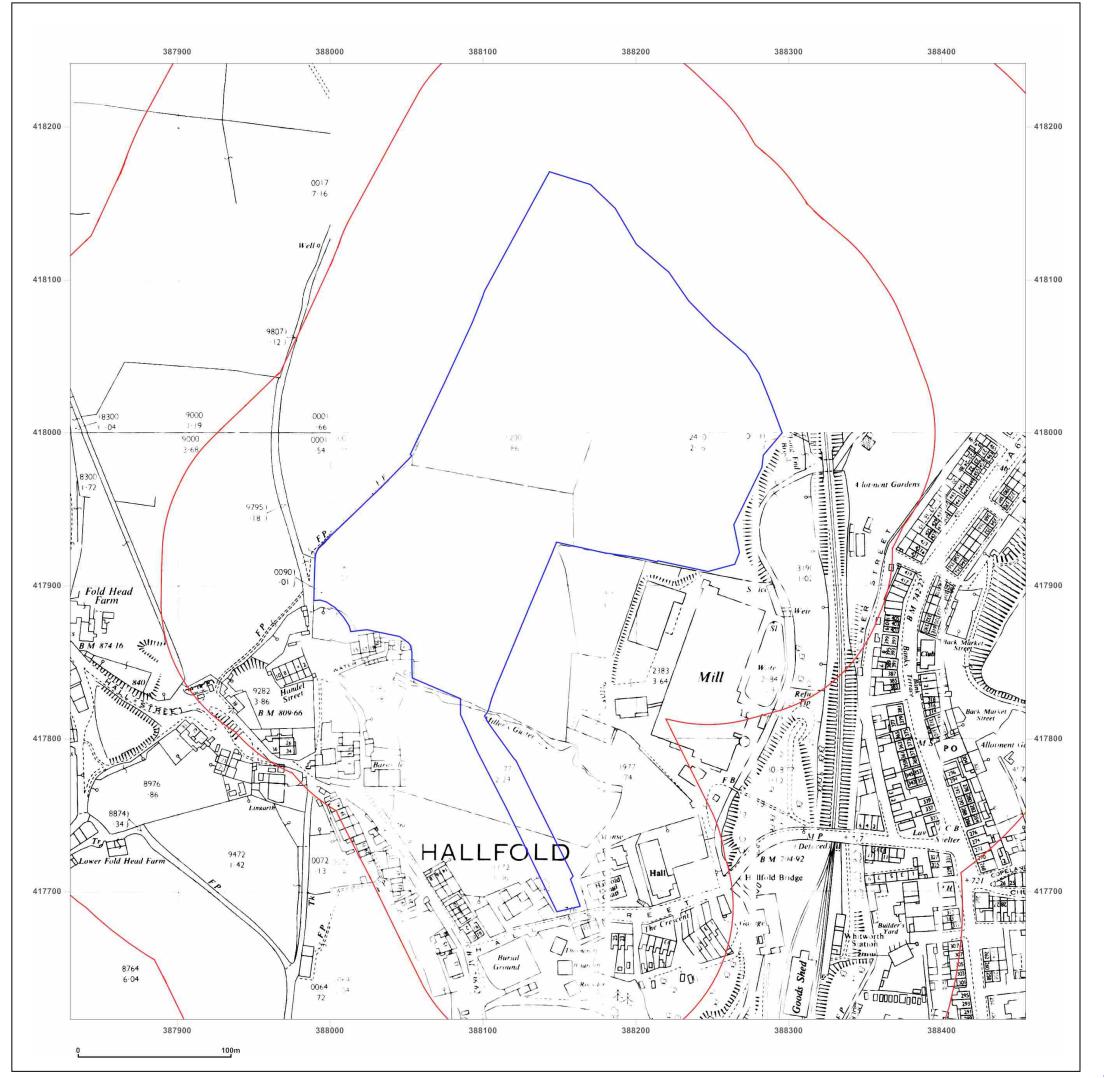


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

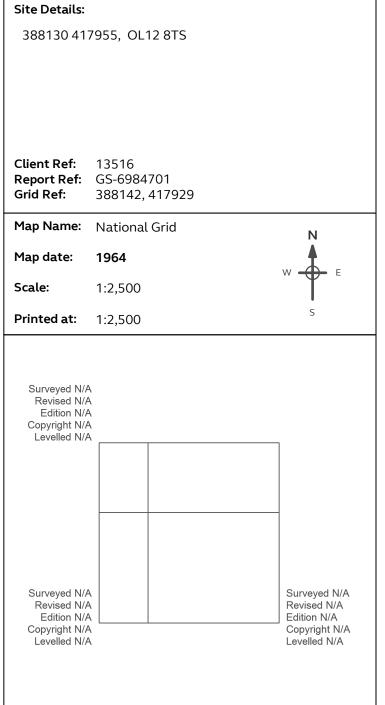
© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 20 August 2020

Map legend available at:





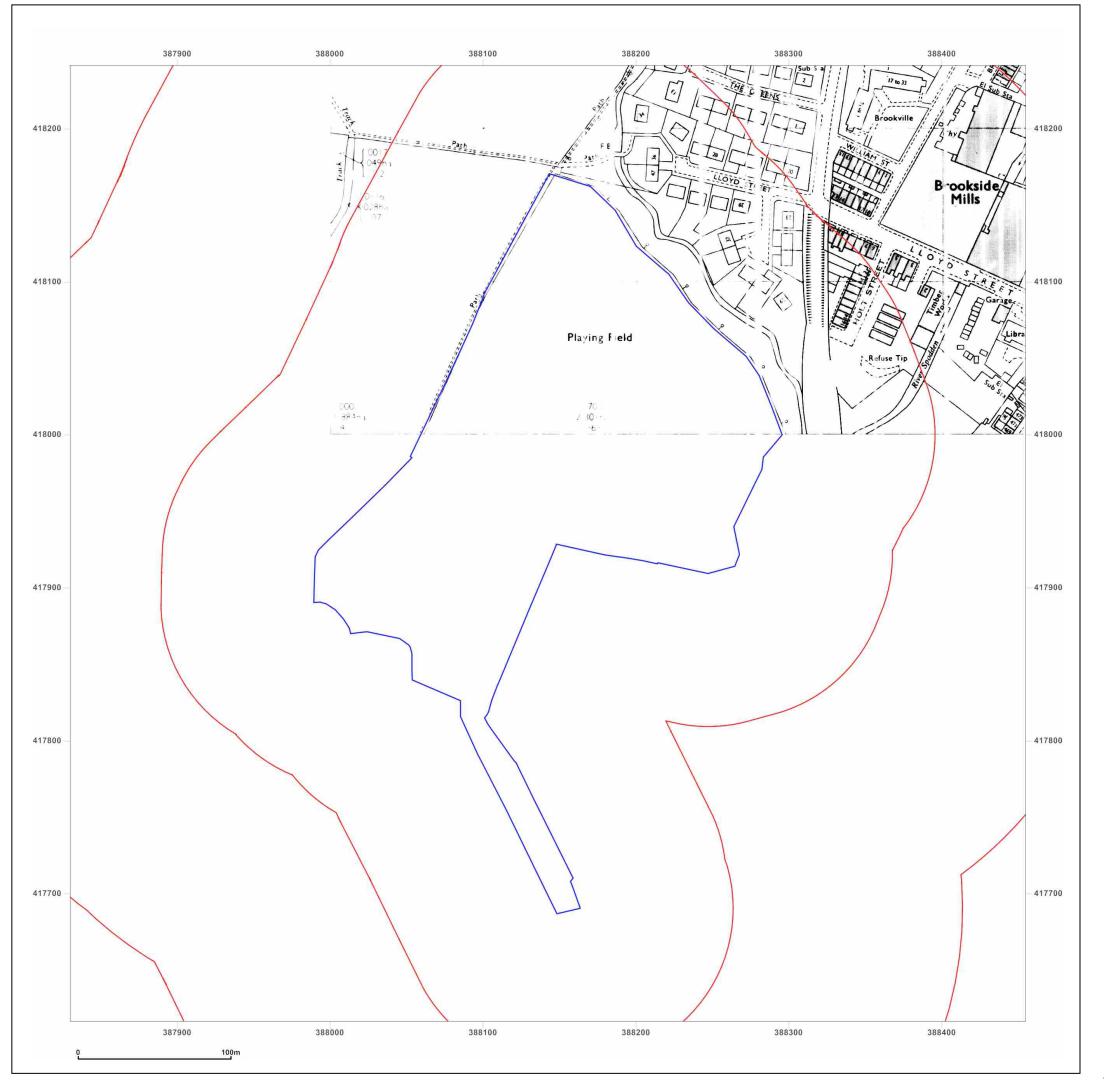




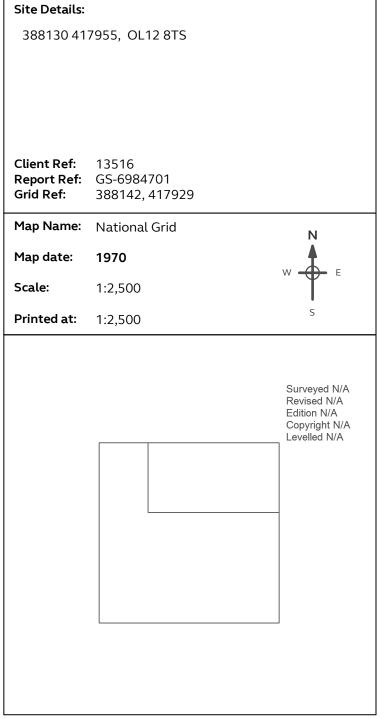
© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 20 August 2020

Map legend available at:





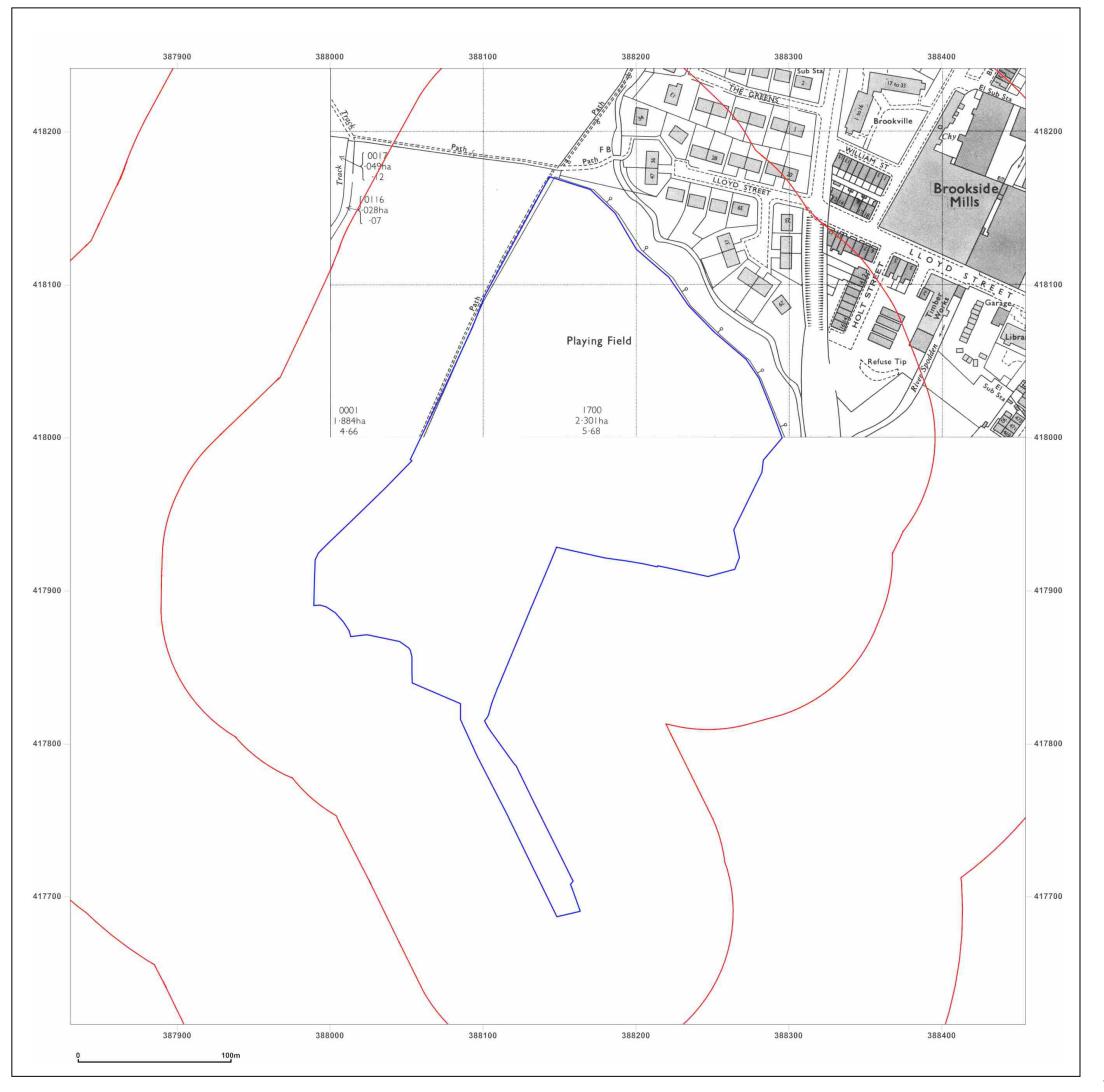




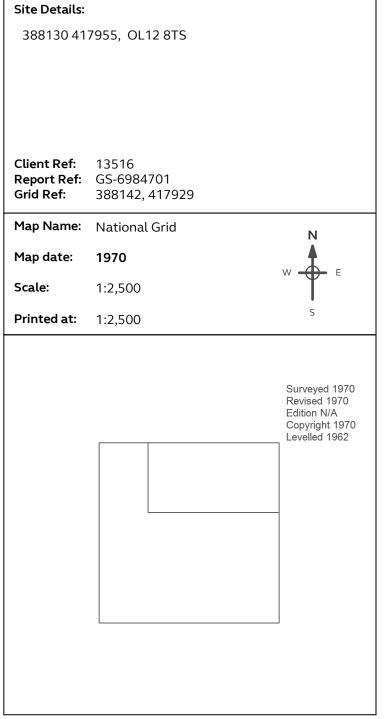
© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 20 August 2020

Map legend available at:





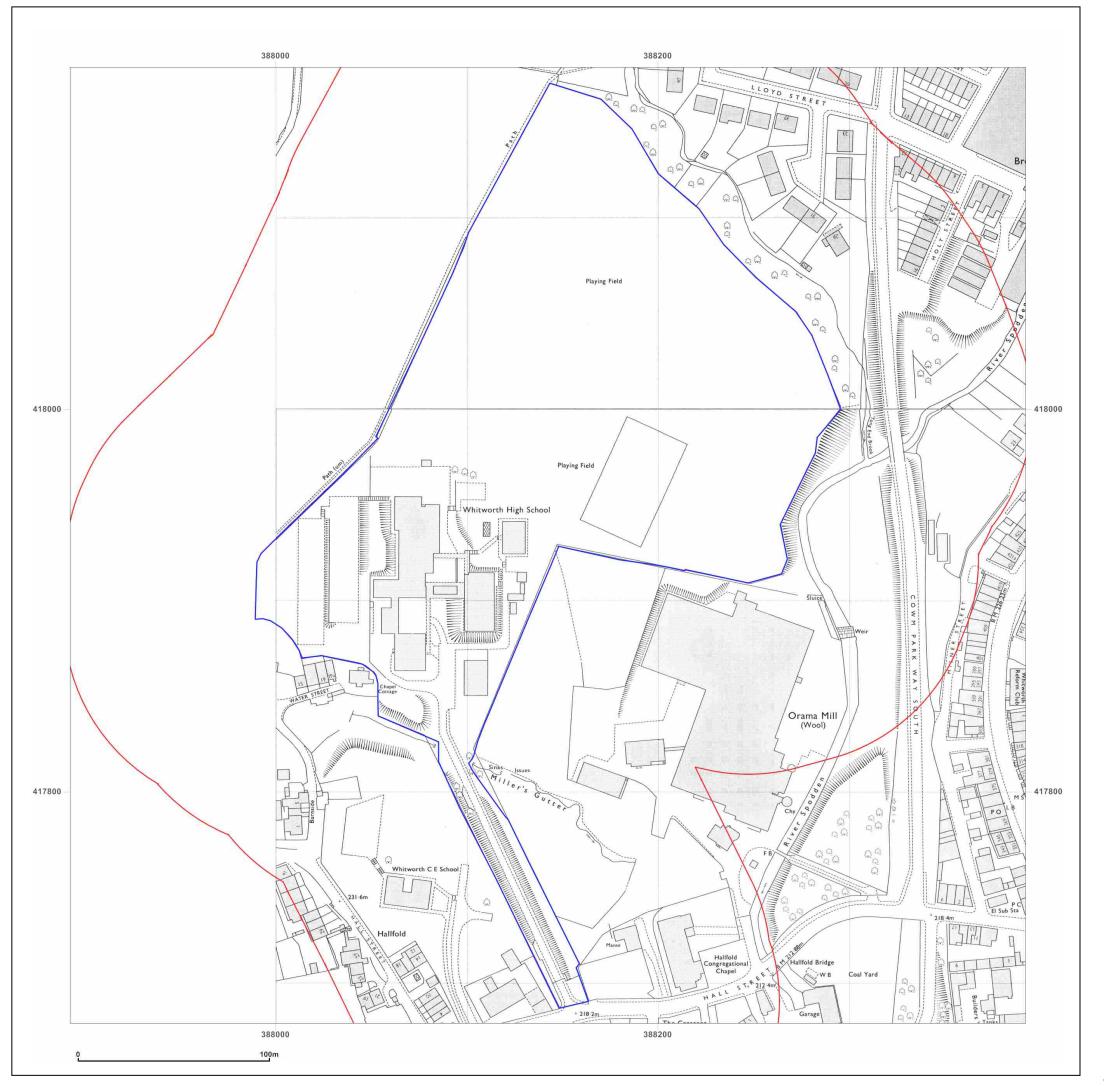




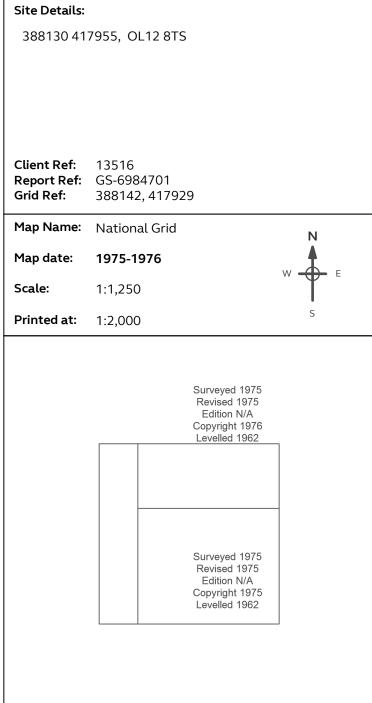
© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 20 August 2020

Map legend available at:









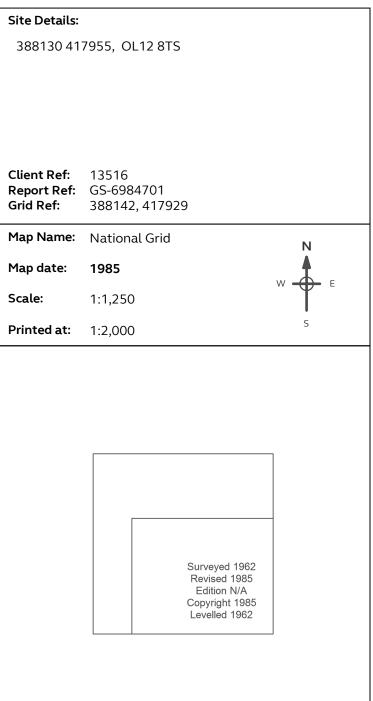
© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 20 August 2020

Map legend available at:





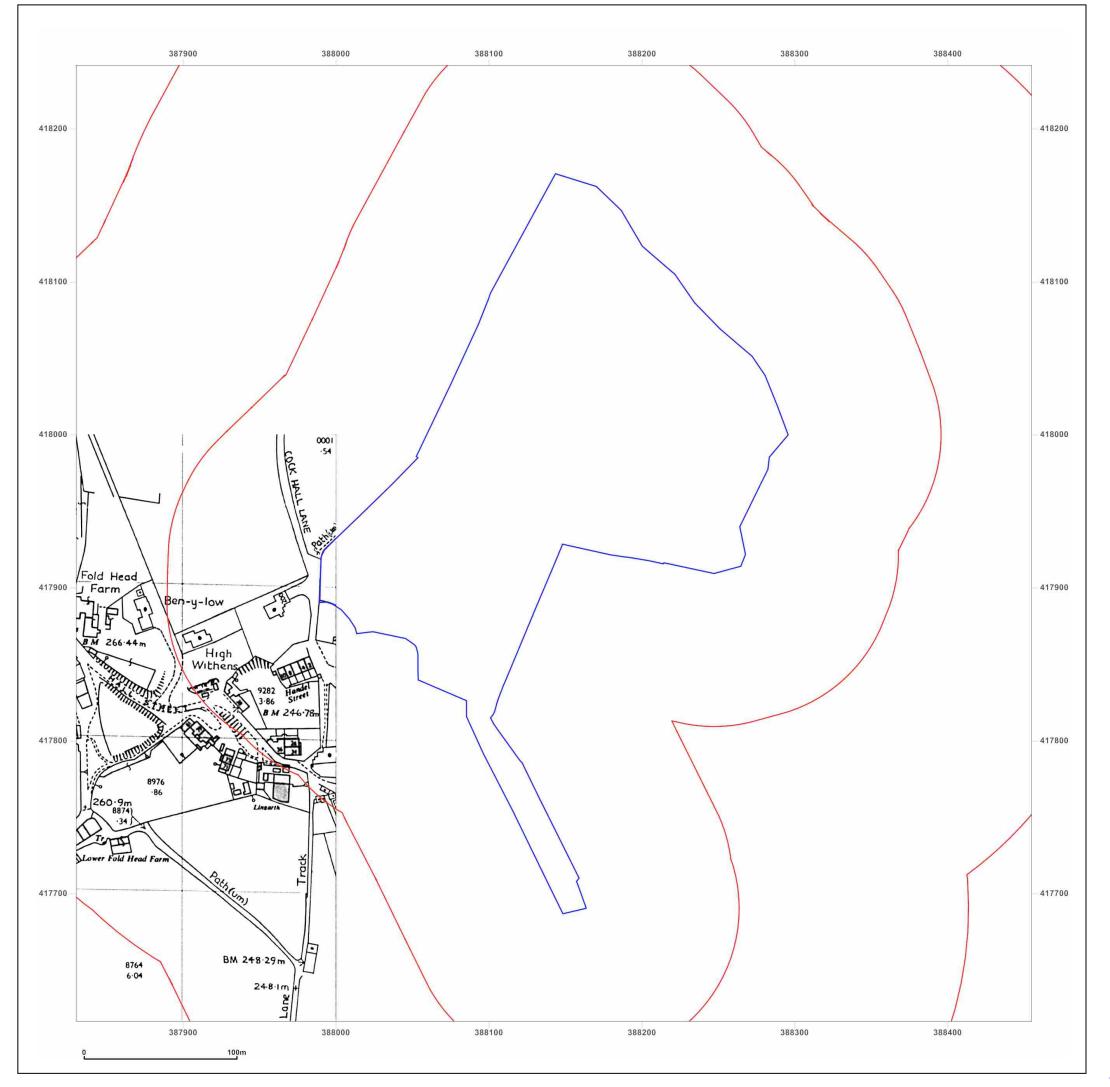




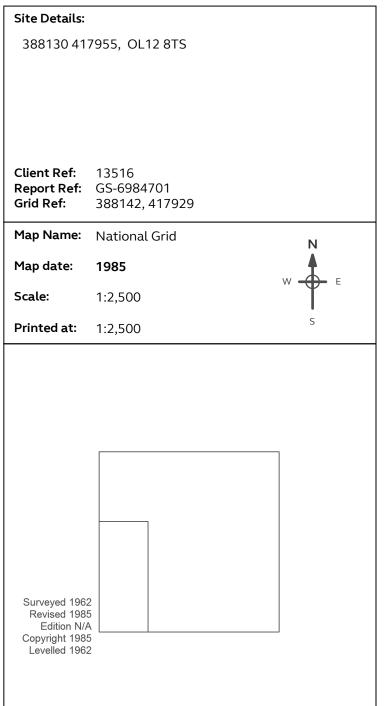
© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 20 August 2020

Map legend available at:





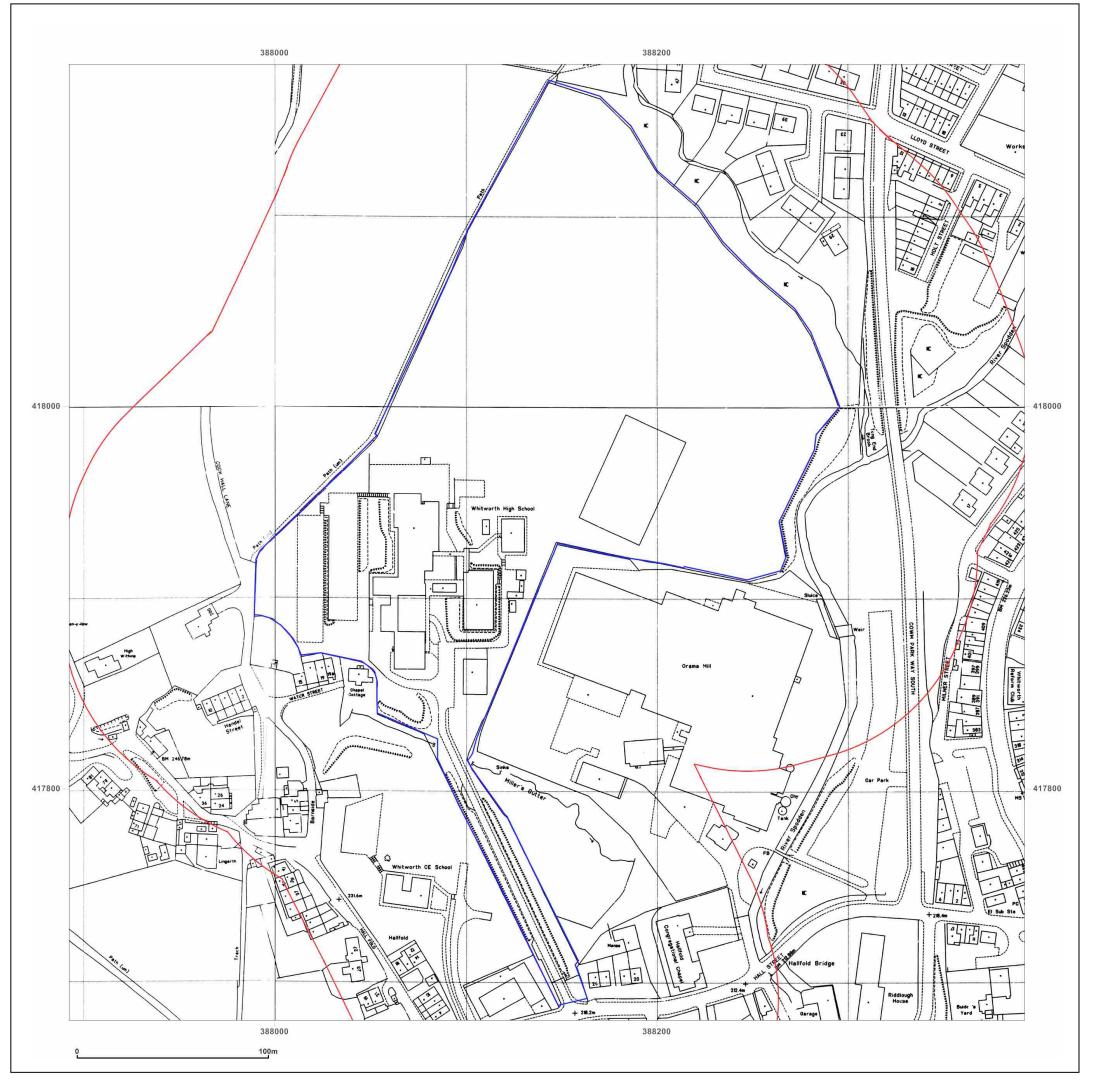




© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 20 August 2020

Map legend available at:





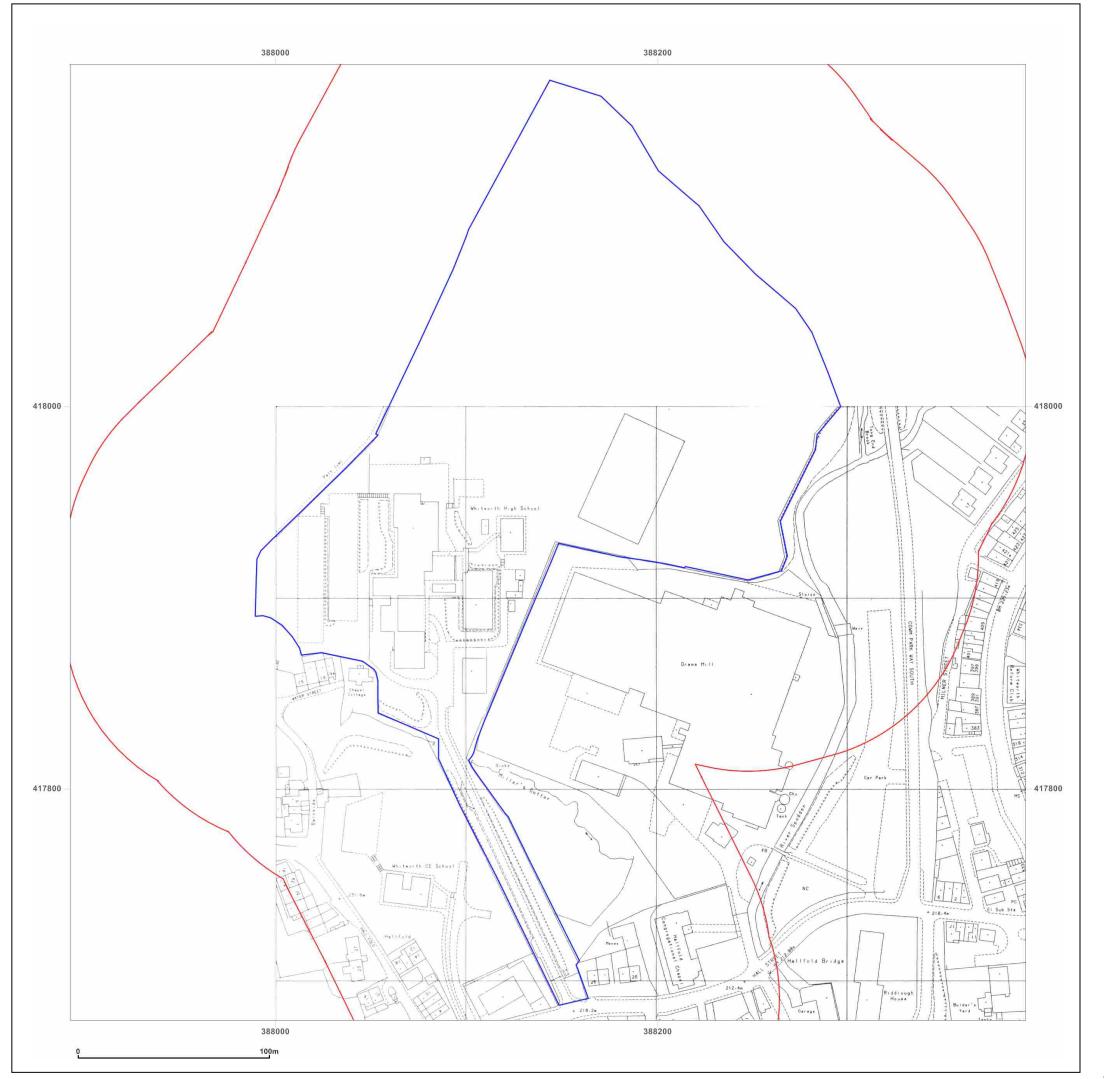
Site Details:				
388130 417955, OL12 8TS				
Client Ref: Report Ref:	13516 GS-6984701			
Grid Ref:	388142, 417929			
Map Name:	National Grid N			
Map date:	1992			
Scale:	1:1,250			
Printed at:	1:2,000			
	Surveyed 1992 Revised N/A			
	Edition N/A Copyright 1992			
	Levelled N/A			
Surveyed 1992 Revised N/A				
Edition N/A Copyright 1992	Edition N/A			
Levelled N/A				
1				



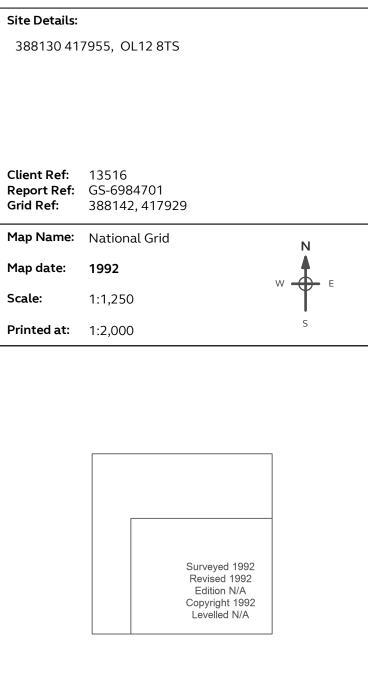
© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 20 August 2020

Map legend available at:





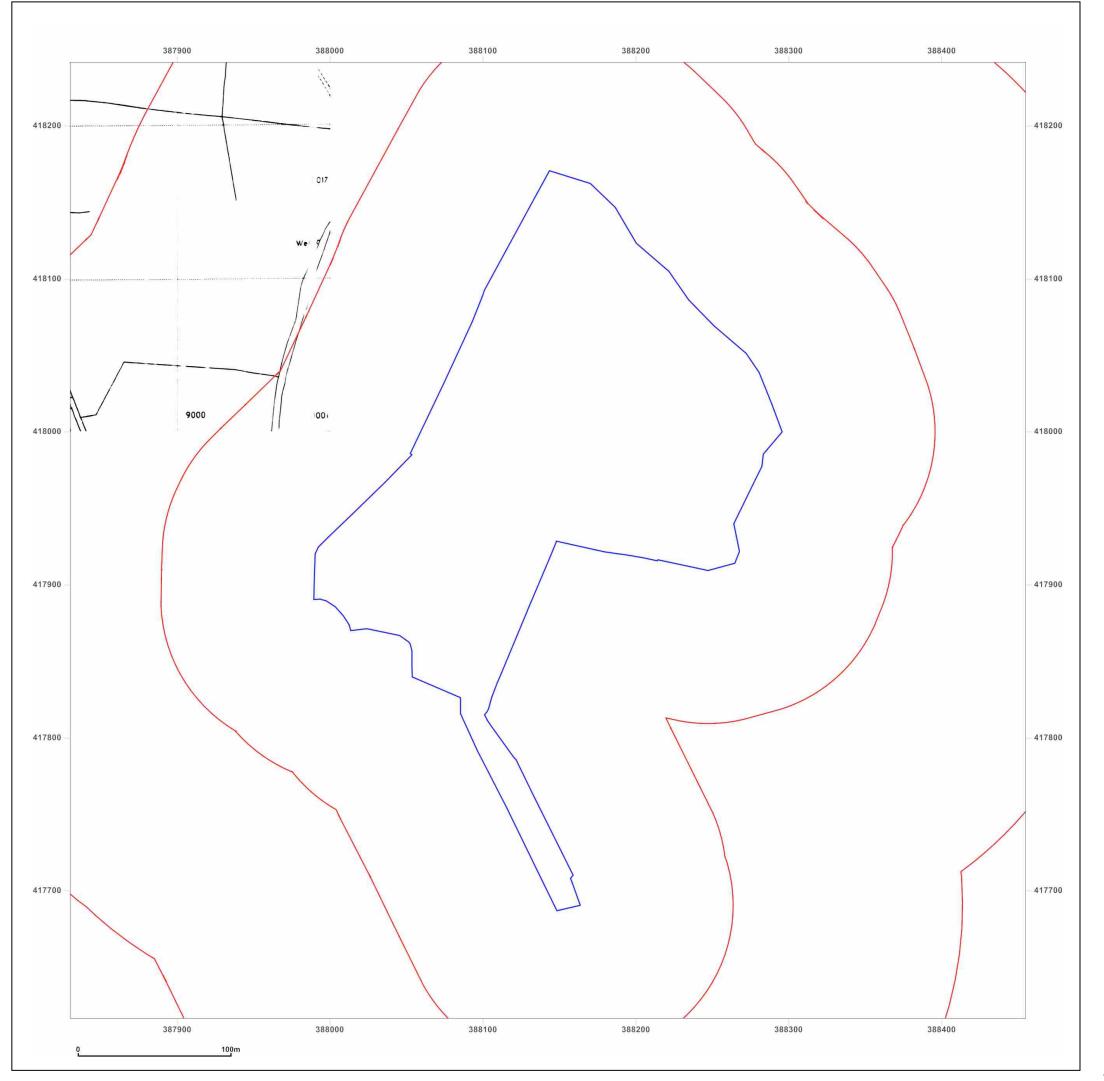




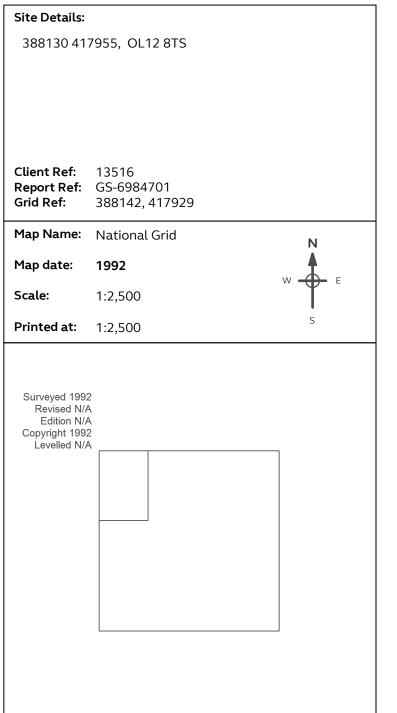
© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 20 August 2020

Map legend available at:





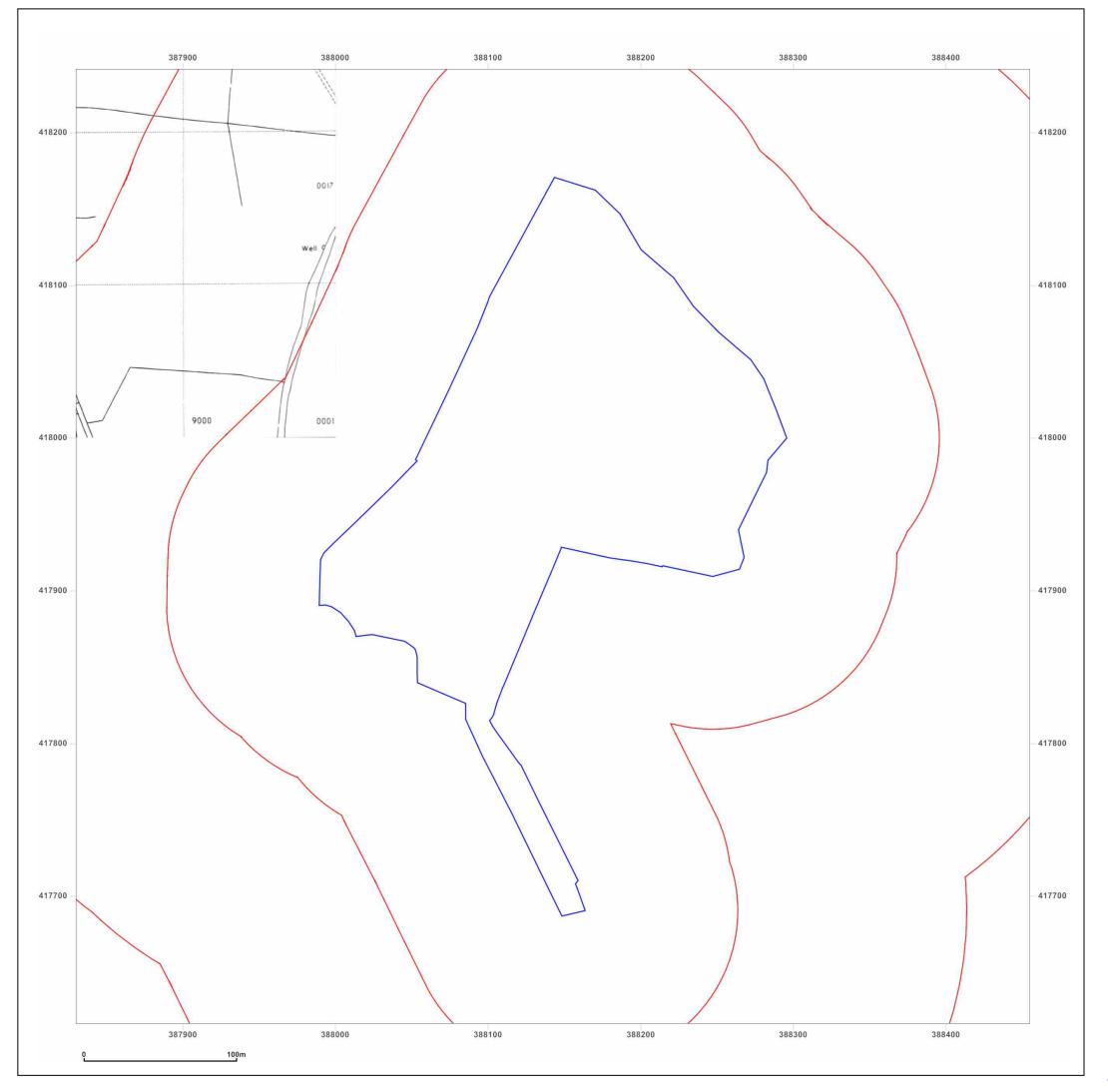




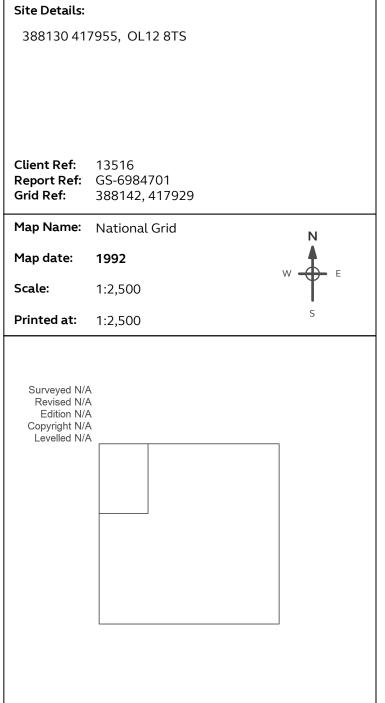
© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 20 August 2020

Map legend available at:









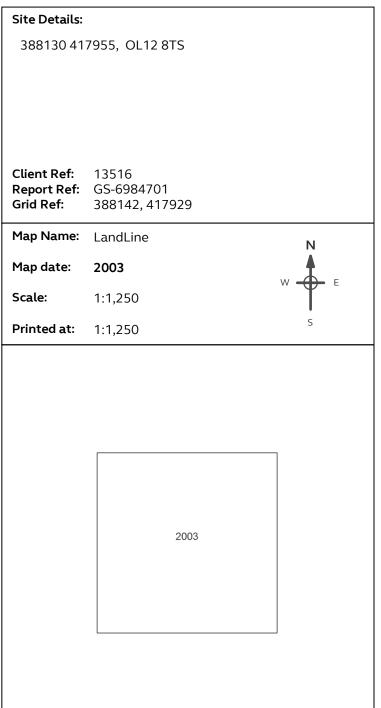
© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 20 August 2020

Map legend available at:









© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 20 August 2020

Map legend available at: