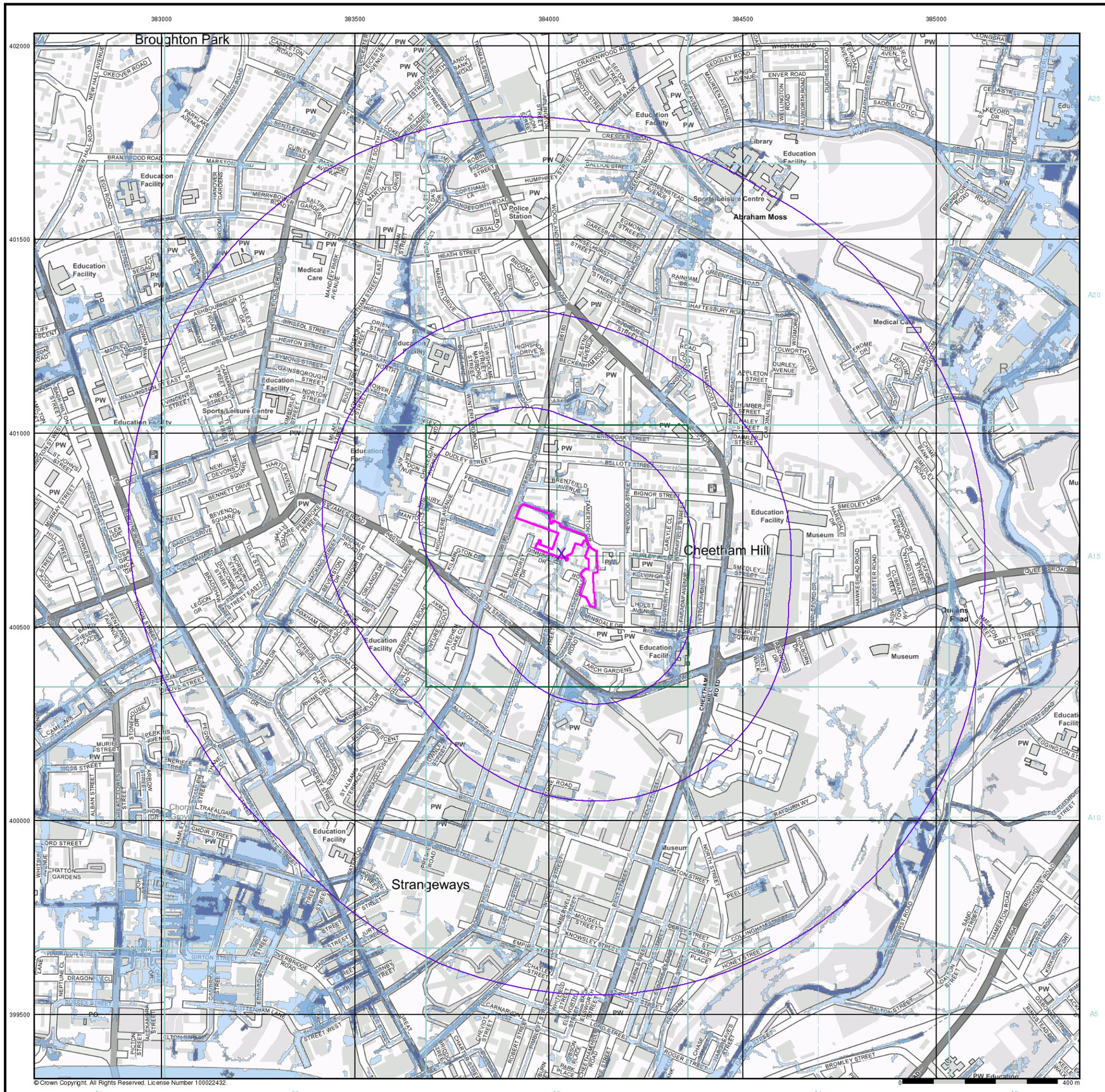



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## General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

## Risk of Flooding from Surface Water

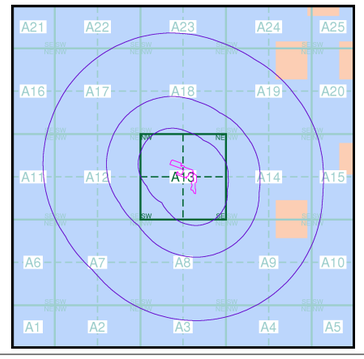
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

## Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

## EA/NRW Suitability Map - Slice A




## Order Details

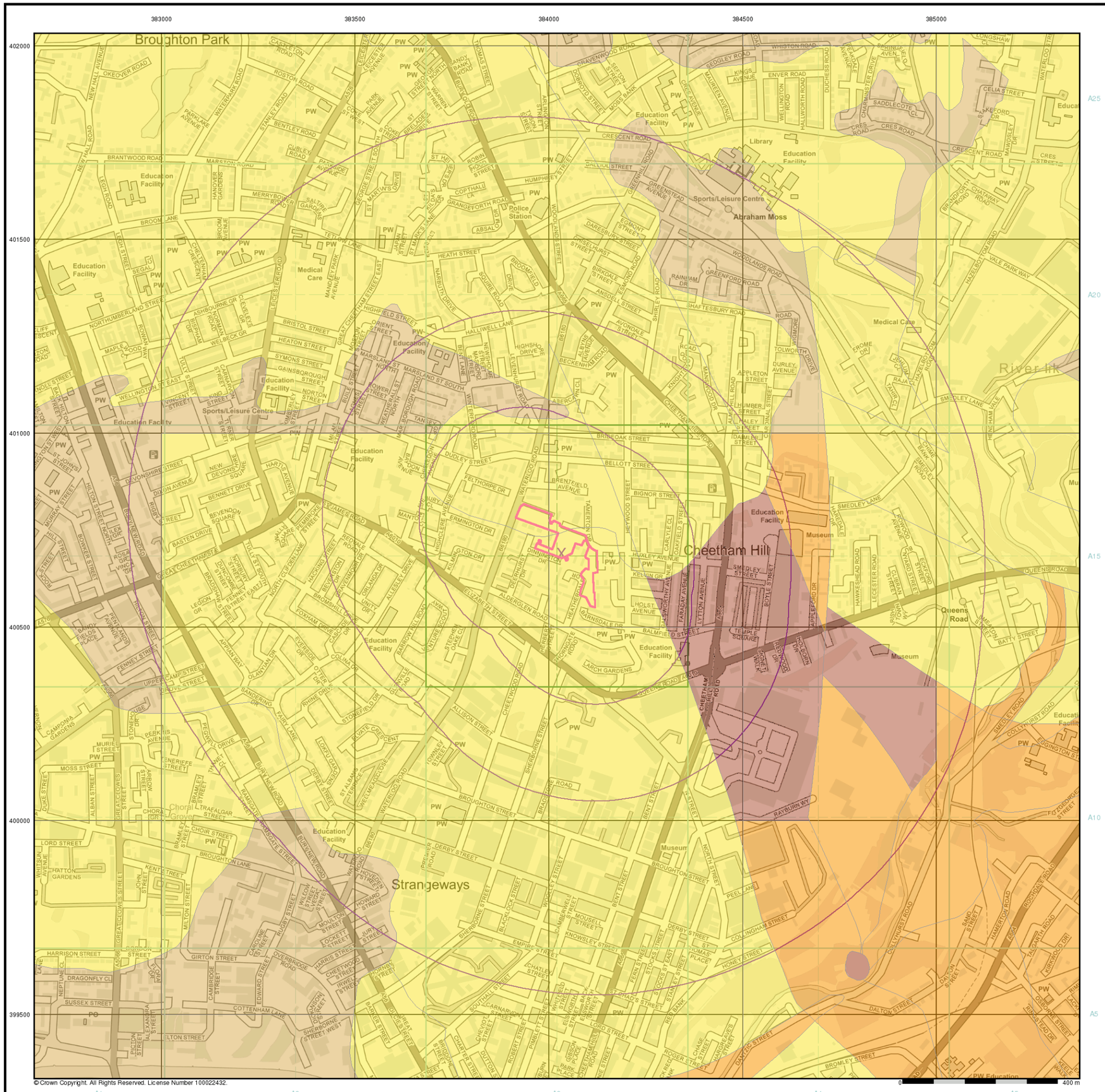
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| Customer Ref: | 33716LG |
| National Grid Reference: | 384030, 400690 |
| Slice: | A |
| Site Area (Ha): | 1.3 |
| Search Buffer (m): | 1000 |

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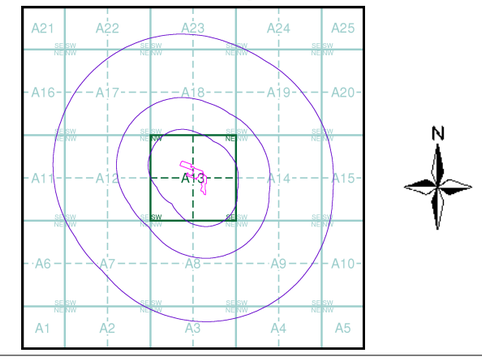
Specified Site | Specified Buffer(s) | X Bearing Reference Point

## Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

## Estimated Soil Chemistry Arsenic - Slice A




## Order Details

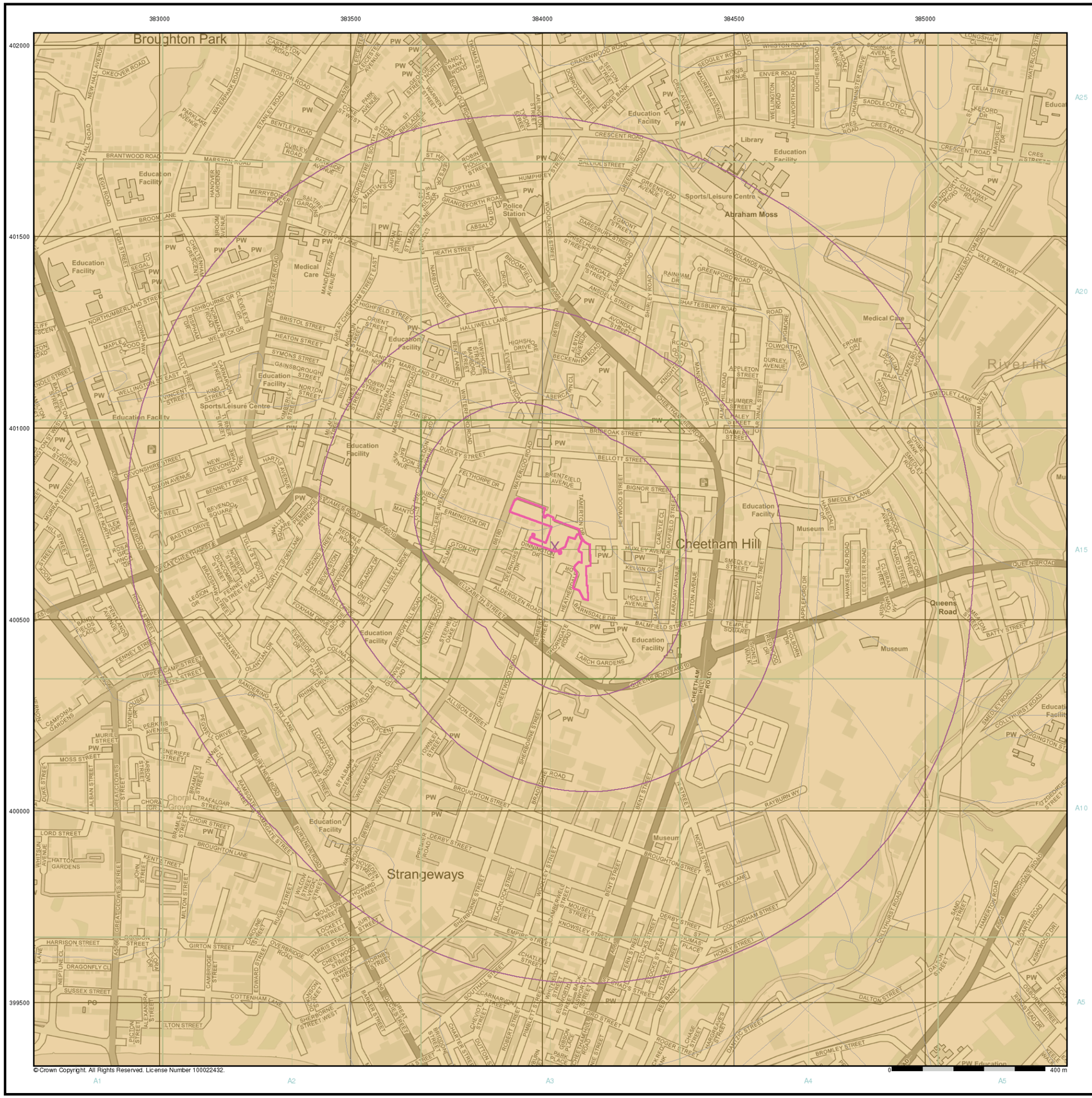
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| National Grid Reference: | 384030, 400690 |
| Slice: | A |
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## General

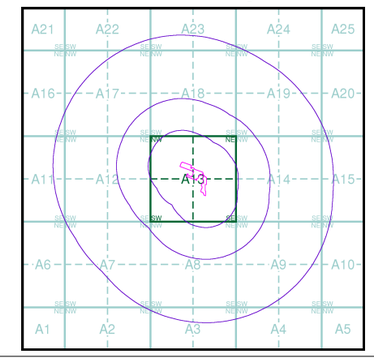
Specified Site | Specified Buffer(s) | X Bearing Reference Point

## Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

## Estimated Soil Chemistry Cadmium - Slice A




## Order Details

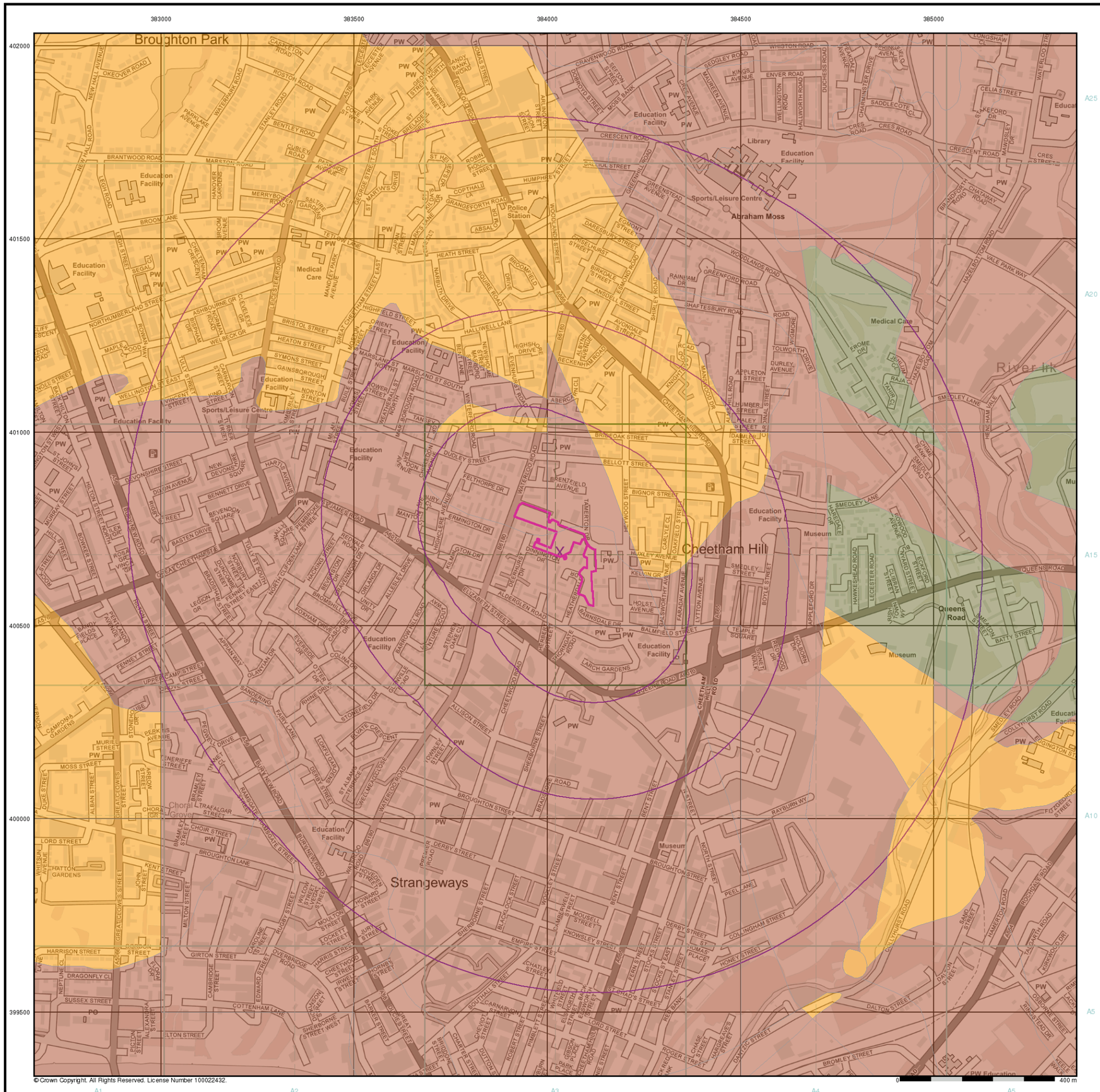
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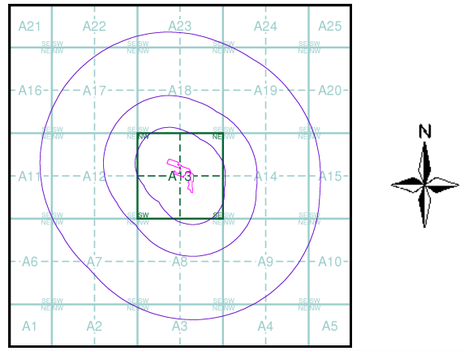
Specified Site | Specified Buffer(s) | X Bearing Reference Point

## Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

## Estimated Soil Chemistry Chromium - Slice A




## Order Details

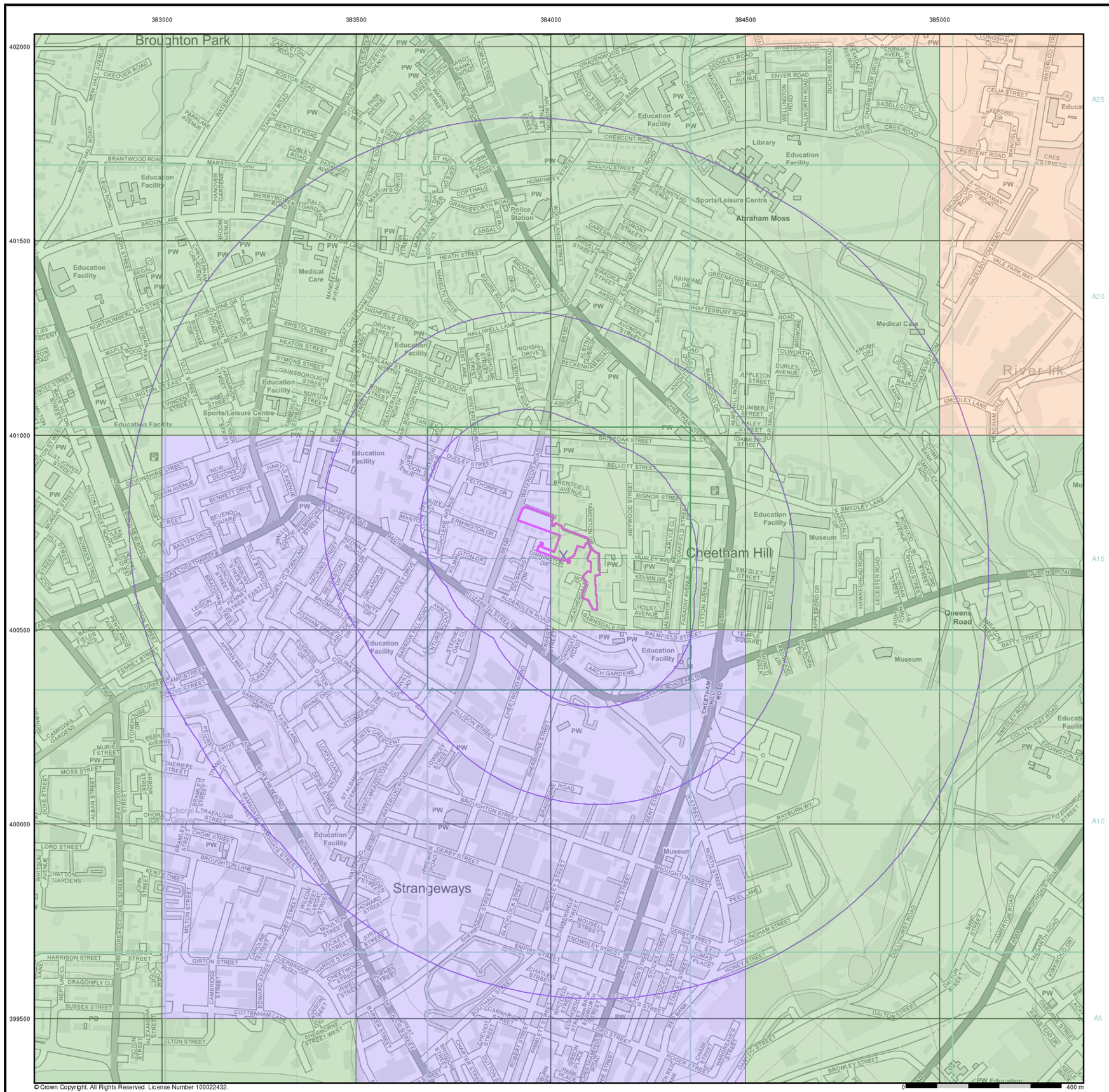
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| Slice: | A |
| Site Area (Ha): | 1.3 |
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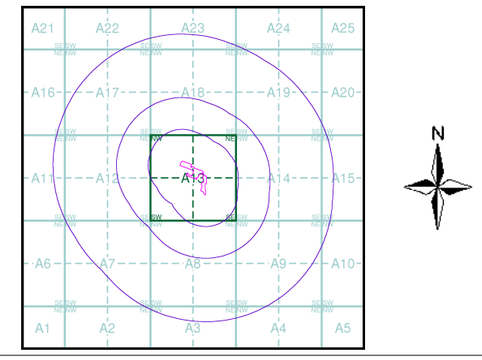
Specified Site | Specified Buffer(s) | X Bearing Reference Point

## Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- <100 mg/kg
- 100 - 200
- 200 - 300
- 300 - 600
- 600 - 1200
- >1200

## Estimated Soil Chemistry Lead - Slice A




## Order Details

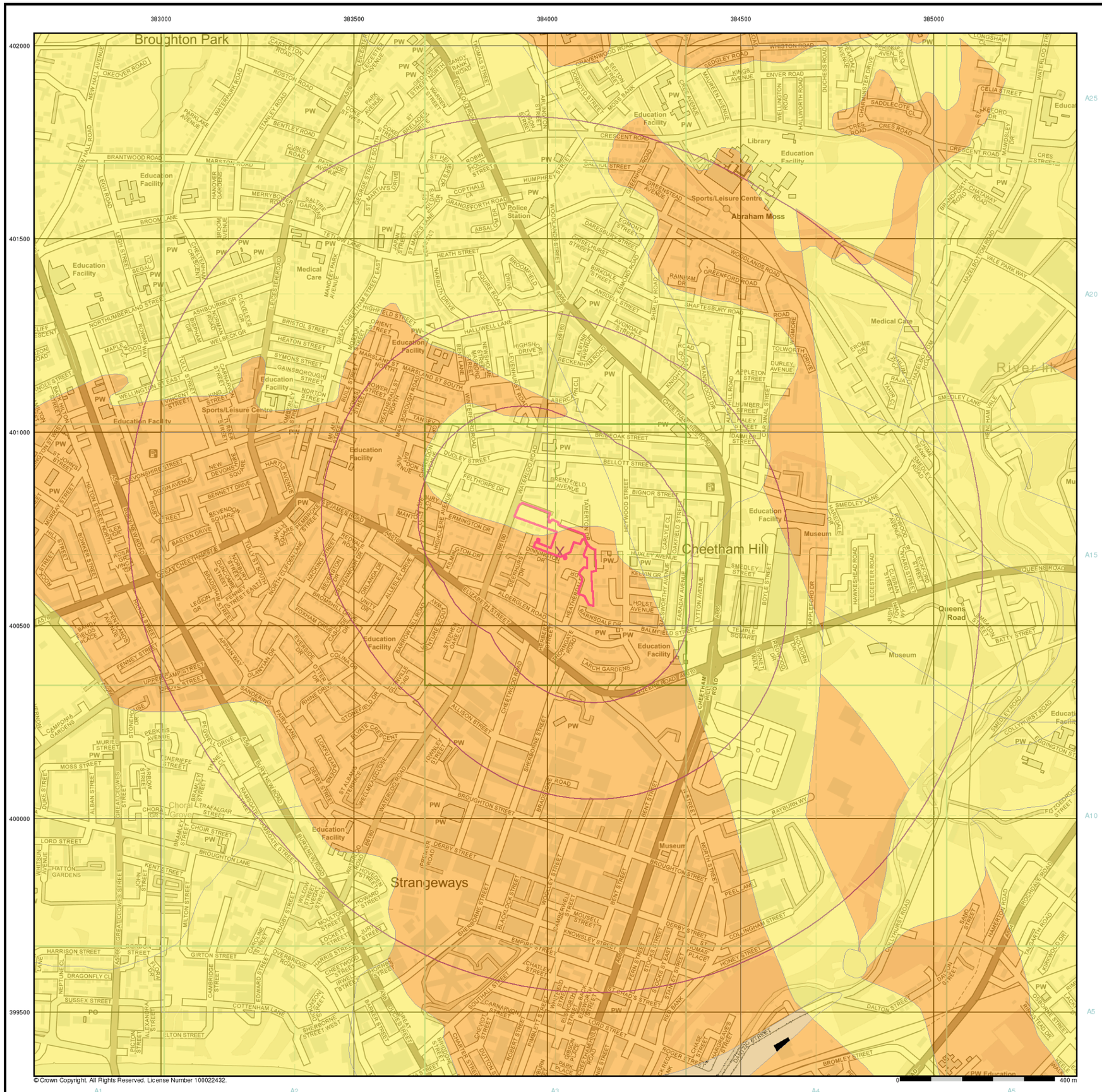
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| National Grid Reference: | 384030, 400690 |
| Slice: | A |
| Site Area (Ha): | 1.3 |
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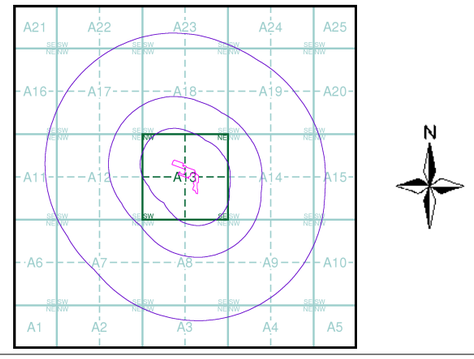
Specified Site | Specified Buffer(s) | X Bearing Reference Point

## Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

## Estimated Soil Chemistry Nickel - Slice A




## Order Details

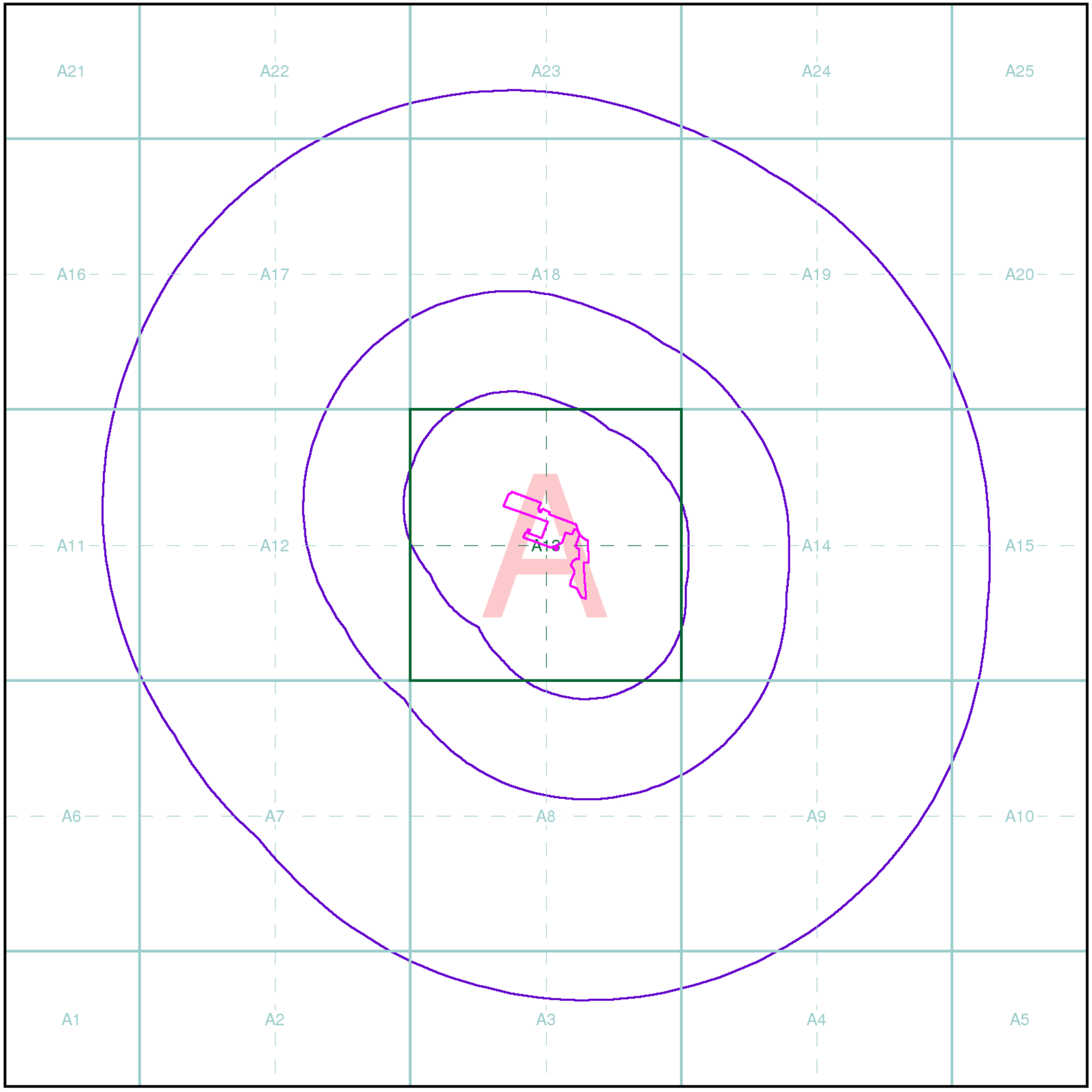
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| Slice: | A |
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## Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

**Slice**
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

**Segment**
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

**Quadrant**
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:

Map data

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Environment Agency

NATURAL ENGLAND

Envirocheck reports are compiled from 136 different sources of data.

## Client Details

MR W Baldwin, Sutcliffe Projects Ltd, 18-20 Harrington Street, Liverpool, L2 9QA

## Order Details

| | |
|---|---|
| Order Number: | 324056629_2_1 |
| Customer Ref: | 33716LG |
| National Grid Reference: | 384040, 400710 |
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http://www.landmarkinfo.co.uk/Terms/Show/515

# Geology 1:50,000 Maps Legends

## Artificial Ground and Landslip

| Map Colour | Lex Code | Rock Name | Rock Type | Min and Max Age |
|---|---|---|---|---|
| | MGR | Made Ground (Undivided) | Artificial Deposit | Not Supplied - Holocene |
| | WMGR | Infilled Ground | Artificial Deposit | Not Supplied - Holocene |
| | WGR | Worked Ground (Undivided) | Void | Not Supplied - Holocene |
| | SLIP | Landslide Deposit | Unknown/Unclassified Entry | Not Supplied - Quaternary |

## Superficial Geology

| Map Colour | Lex Code | Rock Name | Rock Type | Min and Max Age |
|---|---|---|---|---|
| | ALV | Alluvium | Clay, Silt, Sand and Gravel | Not Supplied - Holocene |
| | TILLD | Till, Devensian | Diamicton | Not Supplied - Devensian |
| | GFSDD | Glaciofluvial Sheet Deposits, Devensian | Sand and Gravel | Not Supplied - Devensian |
| | GFDUD | Glaciofluvial Deposits, Devensian | Sand and Gravel | Not Supplied - Devensian |
| | HMGDD | Hummocky (Moundy) Glacial Deposits, Devensian | Sand and Gravel | Not Supplied - Devensian |
| | PEAT | Peat | Peat | Not Supplied - Quaternary |
| | RTD1 | River Terrace Deposits, 1 | Sand and Gravel | Not Supplied - Quaternary |

## Bedrock and Faults

| Map Colour | Lex Code | Rock Name | Rock Type | Min and Max Age |
|---|---|---|---|---|
| | CHES | Chester Formation | Sandstone | Not Supplied - Olenekian |
| | MM | Manchester Marls Formation | Mudstone | Not Supplied - GUADALUPIAN |
| | CS | Collyhurst Sandstone Formation | Sandstone | Not Supplied - Cisuralian |
| | HA | Halesowen Formation | Mudstone, Siltstone and Sandstone | Not Supplied - Westphalian |
| | HTS | Holt Town Sandstone Bed | Sandstone | Not Supplied - Westphalian |
| | GML | Great Mine Limestone | Limestone | Not Supplied - Westphalian |
| | PUCM | Pennine Upper Coal Measures Formation | Mudstone, Siltstone and Sandstone | Not Supplied - Westphalian |
| | WDR | Worsley Delf Rock | Sandstone | Not Supplied - Westphalian |
| | NHSS | Newton Heath Sandstone | Sandstone | Not Supplied - Westphalian |
| | PMCM | Pennine Middle Coal Measures Formation | Mudstone, Siltstone and Sandstone | Not Supplied - Westphalian |
| | ETM | Etruria Formation | Sandstone and Mudstone | Not Supplied - Westphalian |
| | | Faults | | |
| | | Rock Segments | | |

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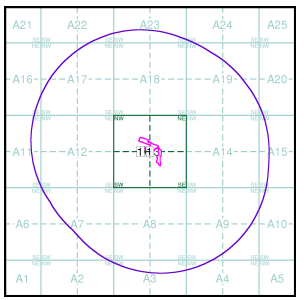
## Geology 1:50,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

## Geology 1:50,000 Maps Coverage

**Map ID:** 1
**Map Sheet No:** 085
**Map Name:** Manchester
**Map Date:** 2010
**Bedrock Geology:** Available
**Superficial Geology:** Not Available
**Artificial Geology:** Not Available
**Faults:** Not Supplied
**Landslip:** Not Available
**Rock Segments:** Not Supplied

## Geology 1:50,000 Maps - Slice A



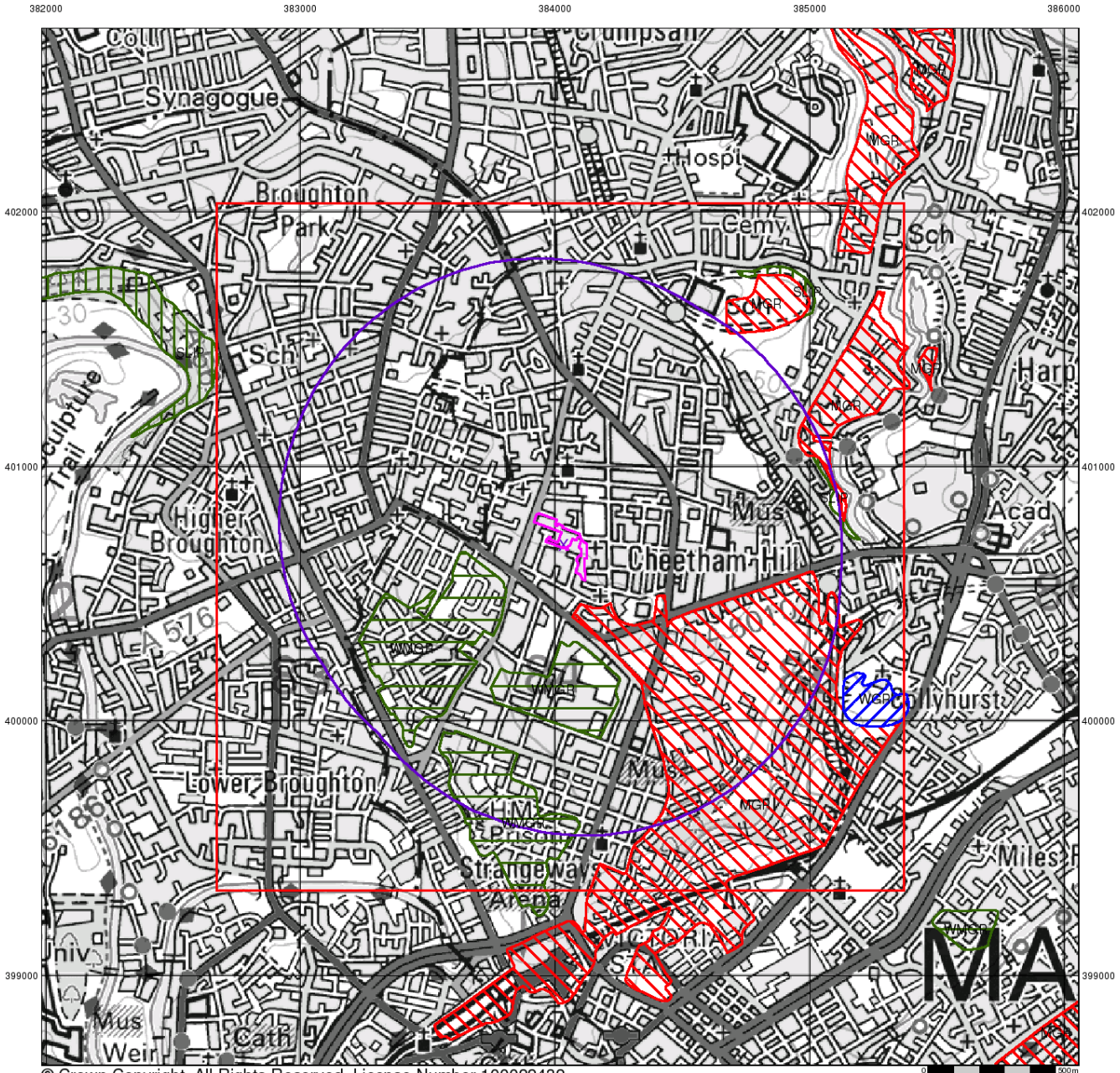

## Order Details:

Order Number: 324056629_2_1
Customer Reference: 33716LG
National Grid Reference: 384030, 400690
Slice: A
Site Area (Ha): 1.3
Search Buffer (m): 1000

## Site Details:

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## Artificial Ground and Landslip

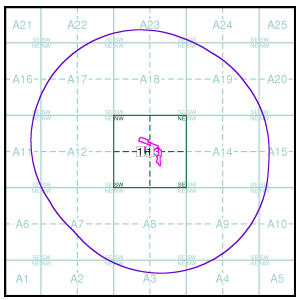
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

## Artificial Ground and Landslip Map - Slice A



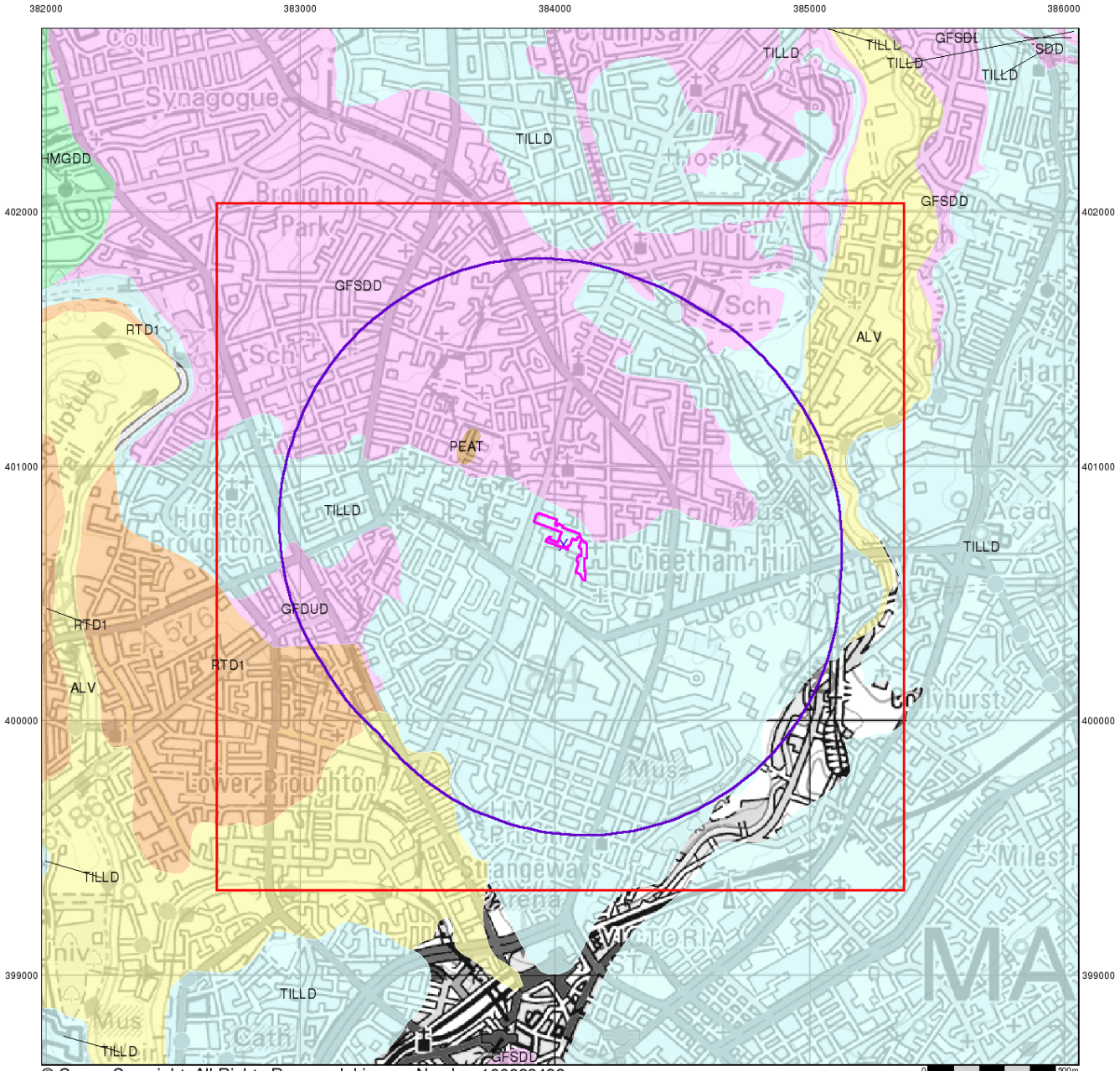

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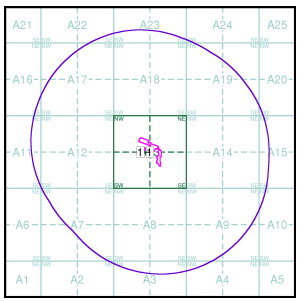
## Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

## Superficial Geology Map - Slice A




## Order Details:

| | |
|---|---|
| Order Number: | 324056629_2_1 |
| Customer Reference: | 33716LG |
| National Grid Reference: | 384030, 400690 |
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