

Geology 1:10,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WMGR	Infilled Ground	Fill	Holocene - Holocene
	WGR	Worked Ground (Undivided)	Void	Holocene - Holocene
	MGR	Made Ground (Undivided)	Fill	Holocene - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Flandrian - Pleistocene
	ITDU	Intertidal Deposits (Undifferentiated)	Clay, Silty, Sandy [Unlithified Deposits Coding Scheme]	Holocene - Saalian
	TILLD	Till, Devensian	Diamicton	Devensian - Ipswichian
	TILLD	Till, Devensian	Clay, Sandy, Gravelly, Cobbly [Unlithified Deposits Coding Scheme]	Devensian - Ipswichian
	SSA	Shirdley Hill Sand Formation	Sand	Flandrian - Ipswichian

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	CPB	Chester Pebble Beds Formation	Sandstone	Early Triassic - Early Triassic
	Fault			

Geology 1:10,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:10,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around a site. This mapping may be more up to date than previously published paper maps.

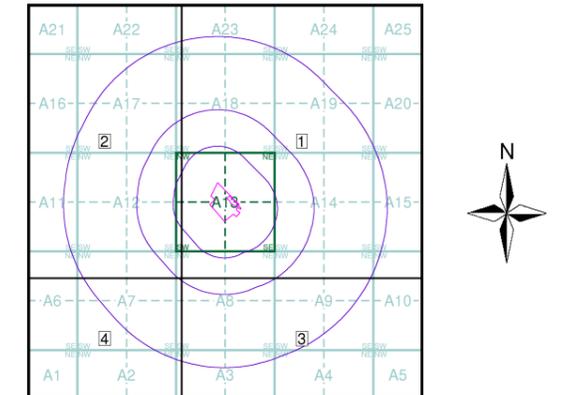
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page.

Please Note: Not all of the layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:10,000 Maps Coverage

Map ID: 2	Map ID: 4
Map Name: SJ38NE	Map Name: SJ38SE
Map Date: 2006	Map Date: 2006
Bedrock Geology: Available	Bedrock Geology: Available
Superficial Geology: Available	Superficial Geology: Available
Artificial Geology: Available	Artificial Geology: Available
Faults: Available	Faults: Available
Landslip: Not Available	Landslip: Not Available
Rock Segments: Not Available	Rock Segments: Not Available
Map ID: 3	Map ID: 1
Map Name: SJ48SW	Map Name: SJ48NW
Map Date: 1946	Map Date: 1946
Bedrock Geology: Available	Bedrock Geology: Available
Superficial Geology: Available	Superficial Geology: Available
Artificial Geology: Not Available	Artificial Geology: Not Available
Faults: Not Supplied	Faults: Not Supplied
Landslip: Not Available	Landslip: Not Available
Rock Segments: Not Supplied	Rock Segments: Not Supplied

Geology 1:10,000 Maps - Slice A



Order Details

Order Number: 56753516_1_1
 Customer Ref: 14MOR001
 National Grid Reference: 340290, 385510
 Slice: A
 Site Area (Ha): 2.68
 Search Buffer (m): 1000

Site Details

Greenhill Nursery,, Nursery Lane,, Allerton,, Liverpool, L19 6PR

Artificial Ground and Landslip

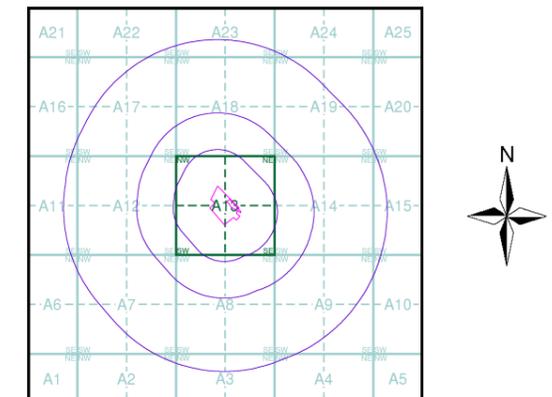
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

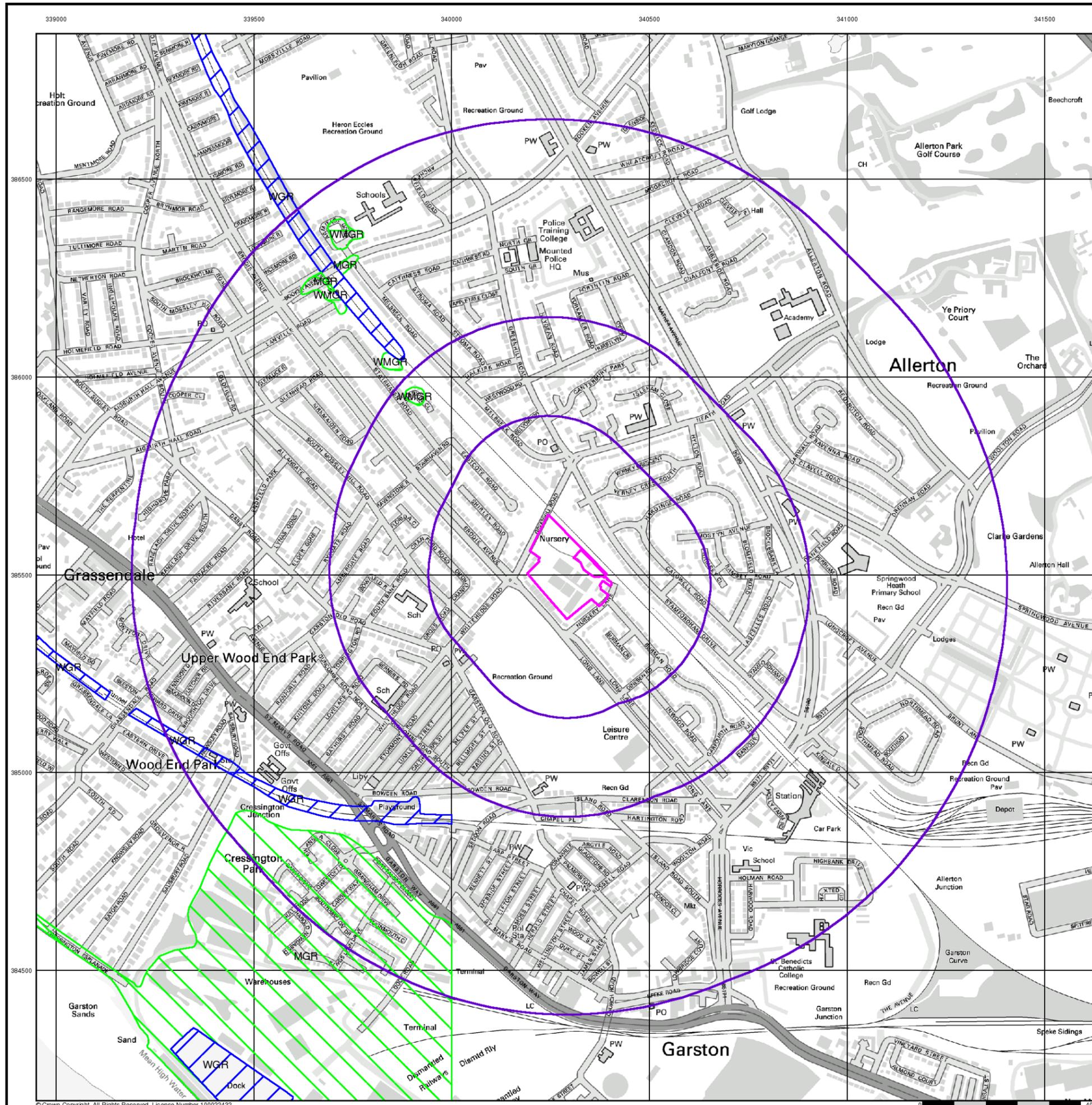


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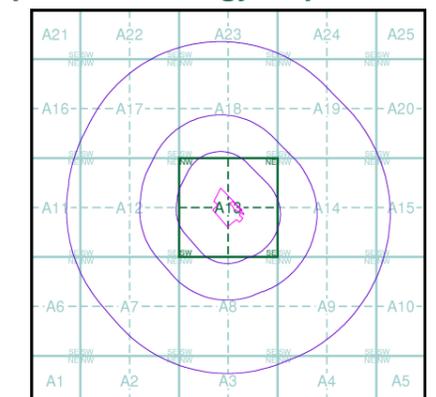
Superficial Geology

BGS 1:10,000 Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, 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

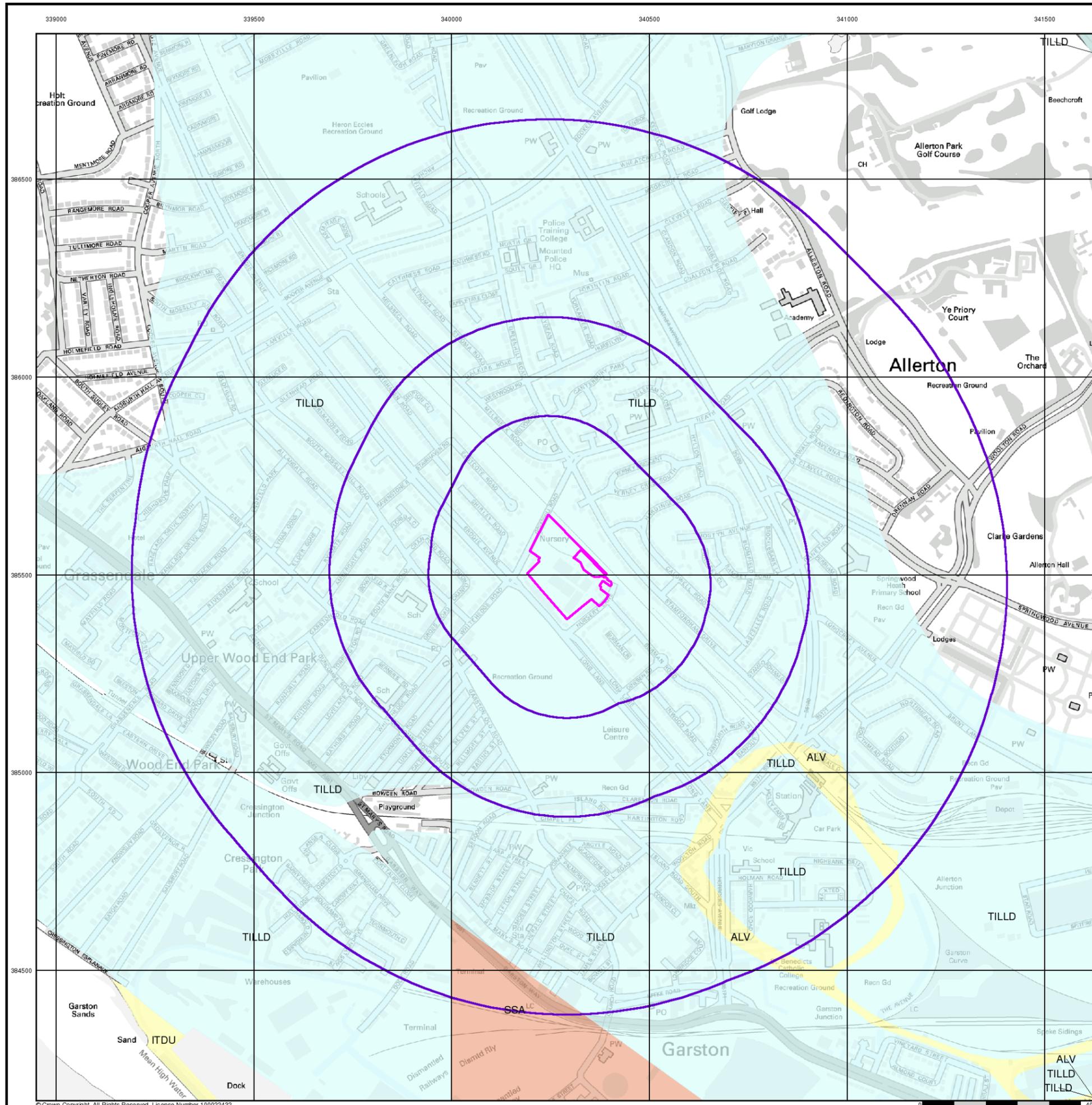


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Bedrock and Faults

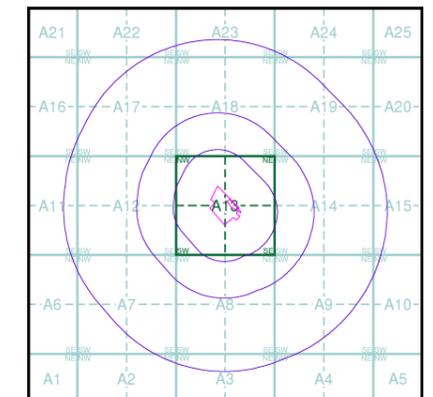
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults and thin beds mapped as lines such as coal seams and mineral veins. These are not restricted by age and could relate to features of any of the 1:10,000 geology datasets.

Bedrock and Faults Map - Slice A

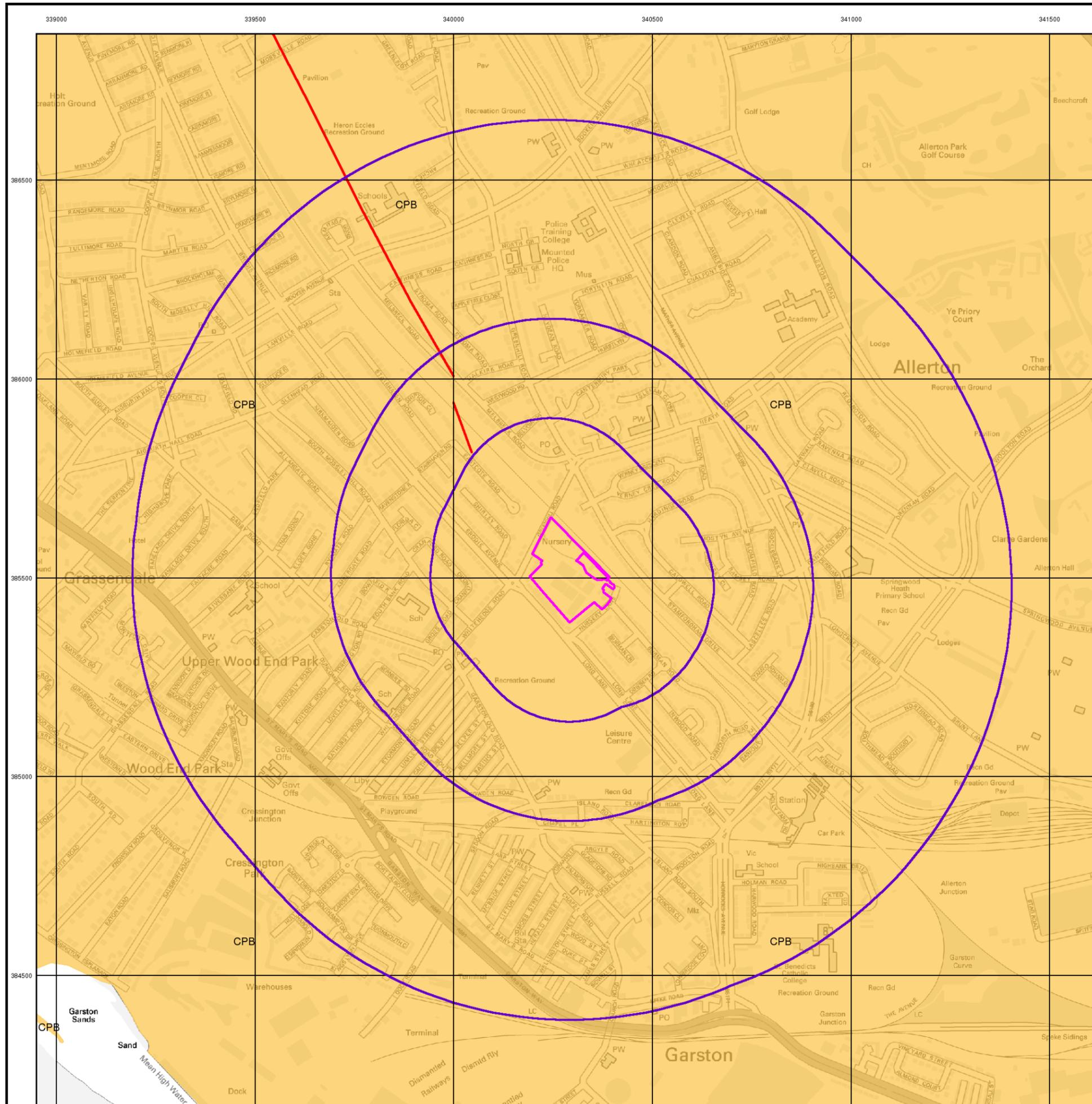


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Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

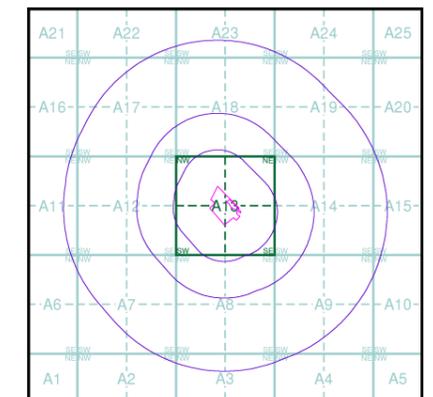
Additional Information

More information on 1:10,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
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NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A

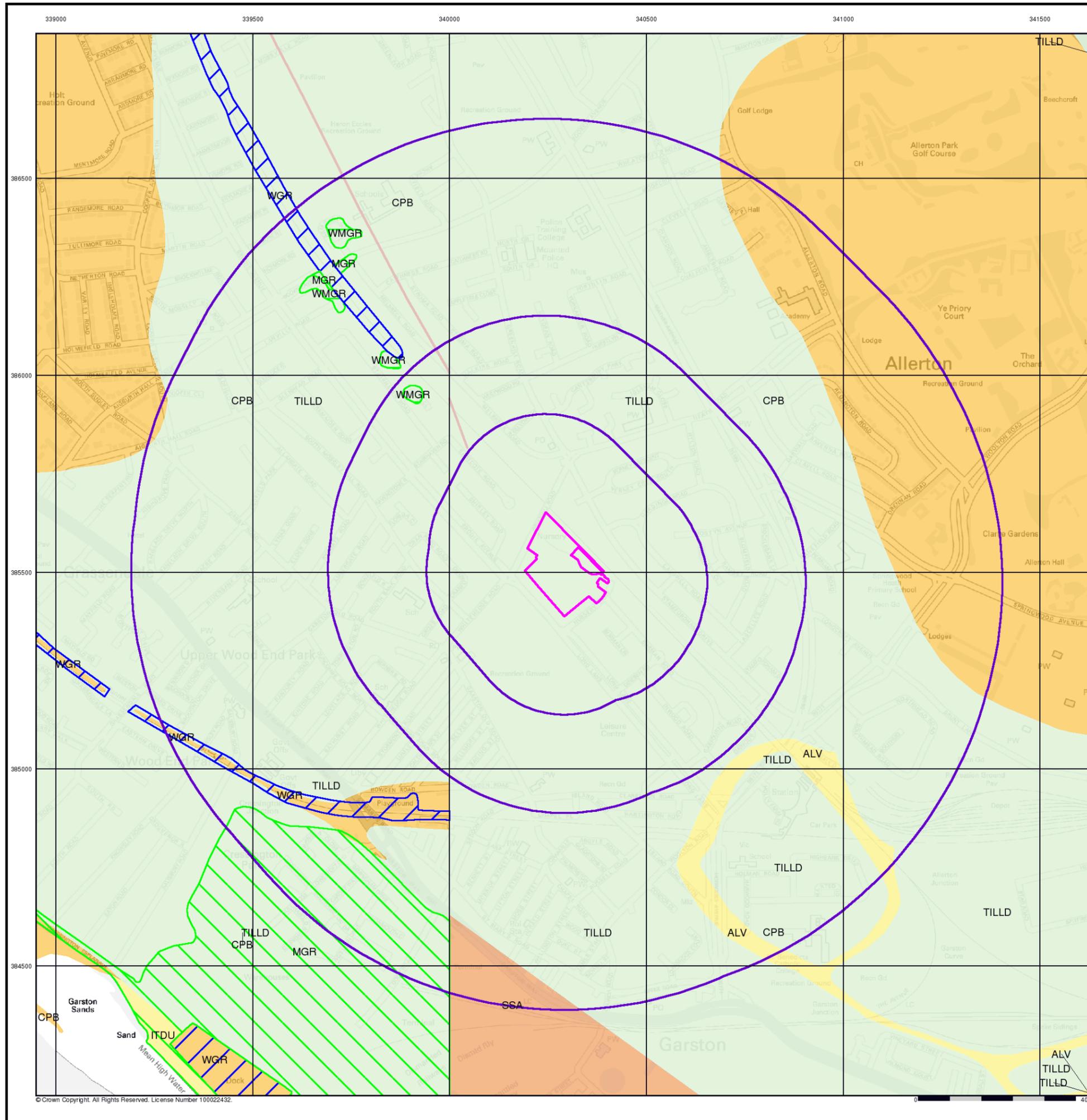


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EA Flood Data Map (1:10,000)

General

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

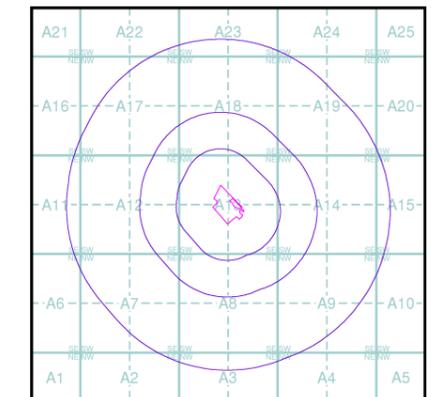
Environment Agency Flood Data

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Contours (height in metres)

- Standard Contour 105 167.8 Spot Height
- Index Contour 100 95 45.8 Air Height

EA Flood Data Map - Slice A

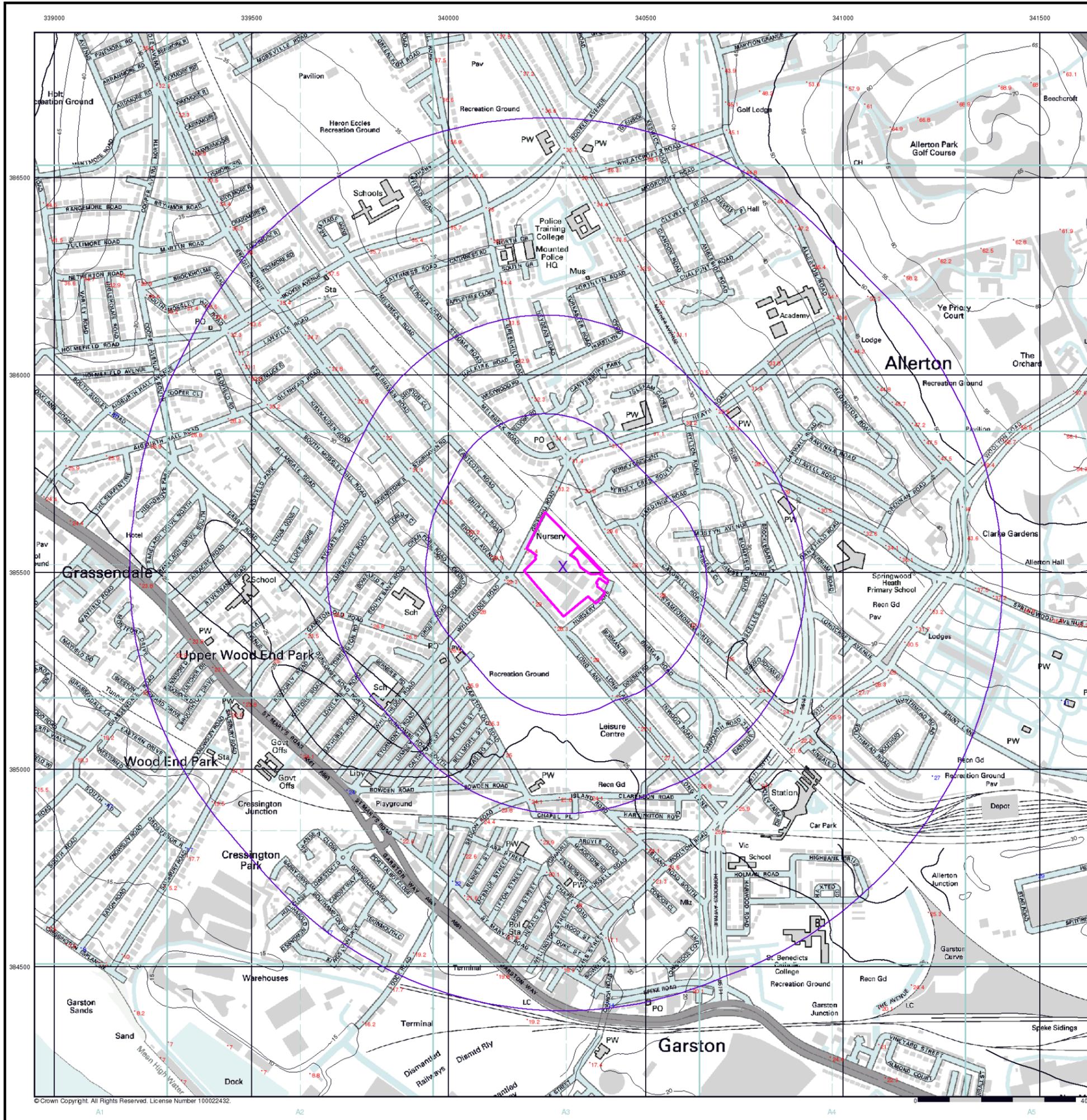


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Site Details

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RMS 75 year Return Flood Map (1:10,000)

General

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

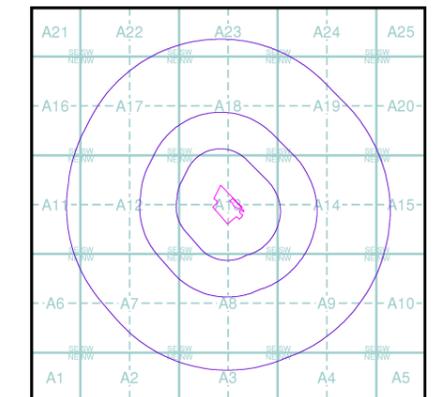
RMS 75 year Return Flood Data

Flood Depth (mm)	Flood Type		Pluvial & Minor River Flood (flood depth n/s)
	Defended Flood	Undefended Flood	
0 - 200			
201 - 500			
501 - 2000			
2001 +			

Contours (height in metres)

- Standard Contour
- Index Contour
- 167.3 Spot Height
- 45.8 Air Height

RMS 75 year Return Flood Map - Slice A

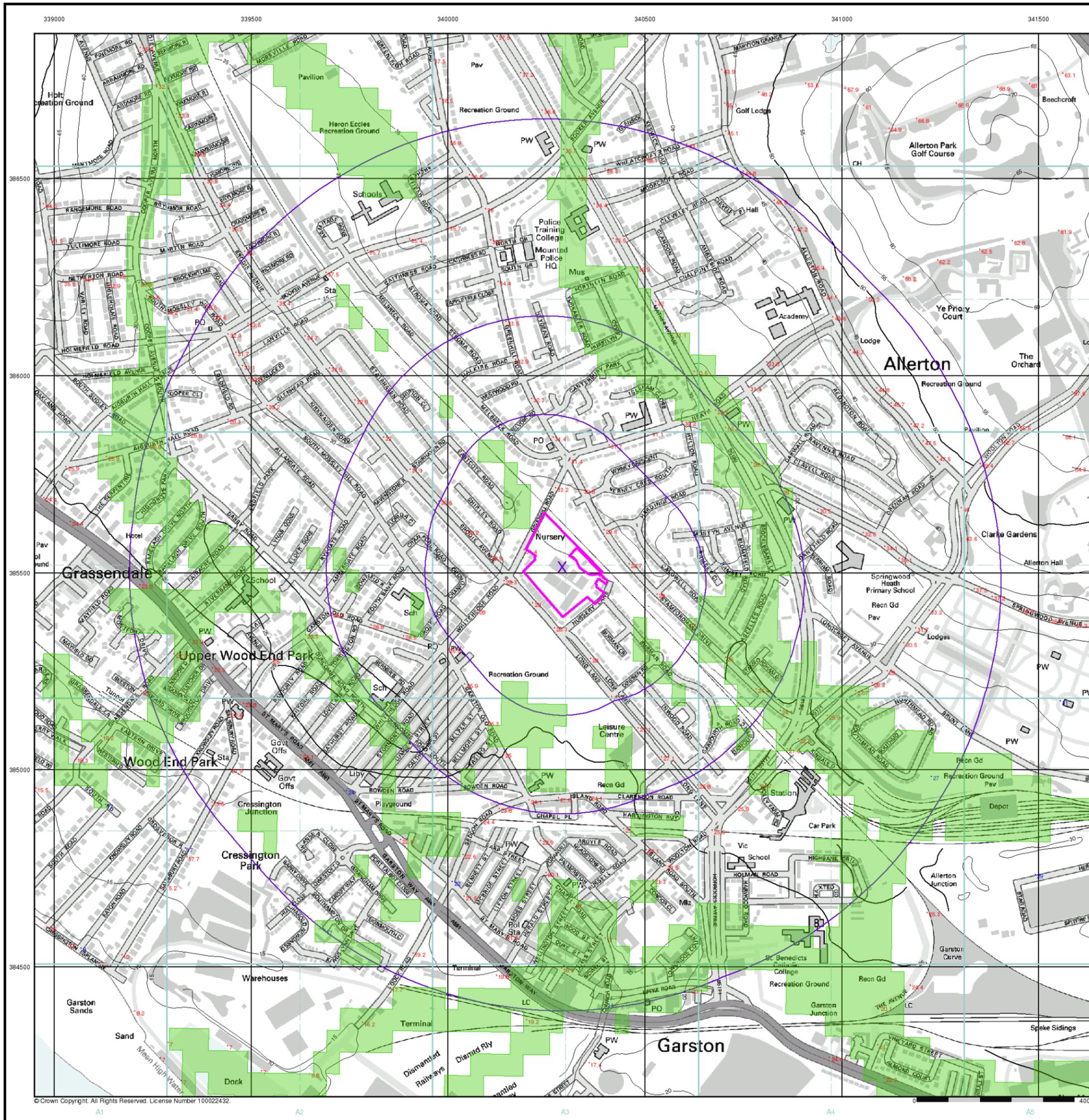


Order Details

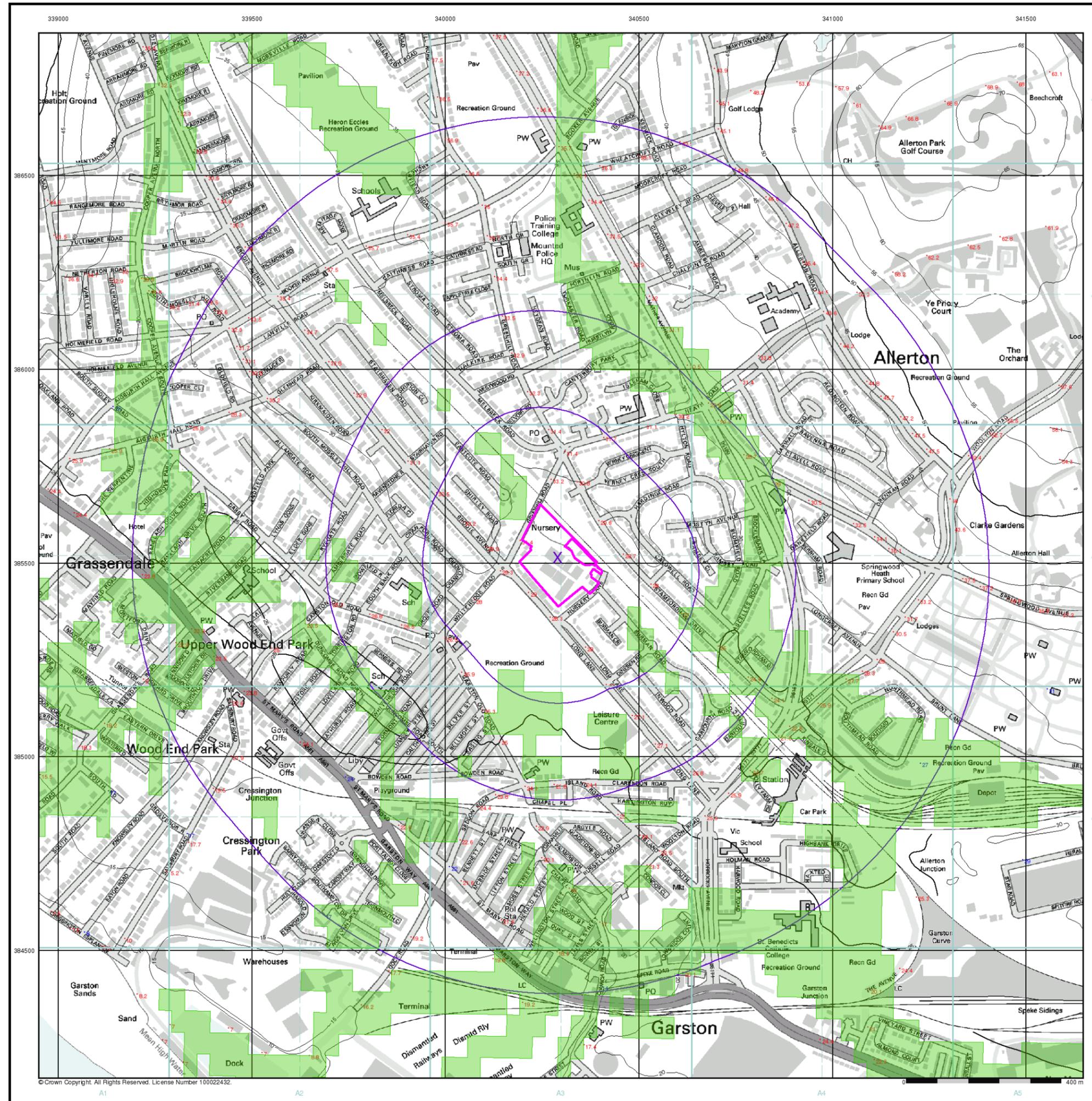
Order Number: 56753516_1_1
 Customer Ref: 14MOR001
 National Grid Reference: 340290, 385510
 Slice: A
 Site Area (Ha): 2.68
 Search Buffer (m): 1000

Site Details

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RMS 100 year Return Flood Map (1:10,000)

General

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

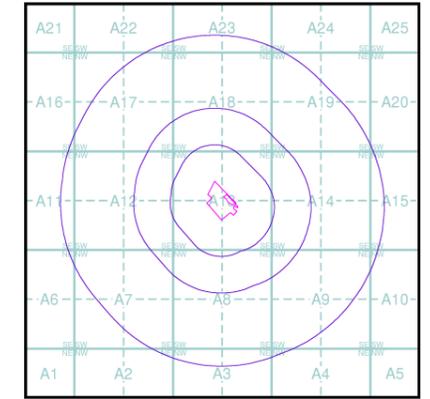
RMS 100 year Return Flood Data

Flood Depth (mm)	Flood Type		Pluvial & Minor River Flood (flood depth n/s)
	Defended Flood	Undefended Flood	
0 - 200			
201 - 500			
501 - 2000			
2001 +			

Contours (height in metres)

- Standard Contour -105
- Index Contour -100
- 167.3 Spot Height
- 45.8 Air Height

RMS 100 year Return Flood Map - Slice A



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