

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

General

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

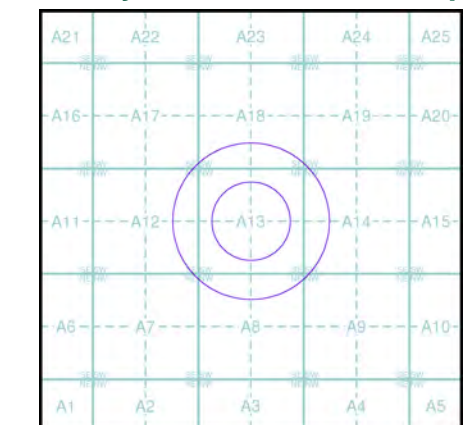
RMS 100 year Return Flood Data

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

Contours (height in metres)

Standard Contour			Spot Height
Index Contour			Air Height

RMS 100 year Return Flood Map - Slice A

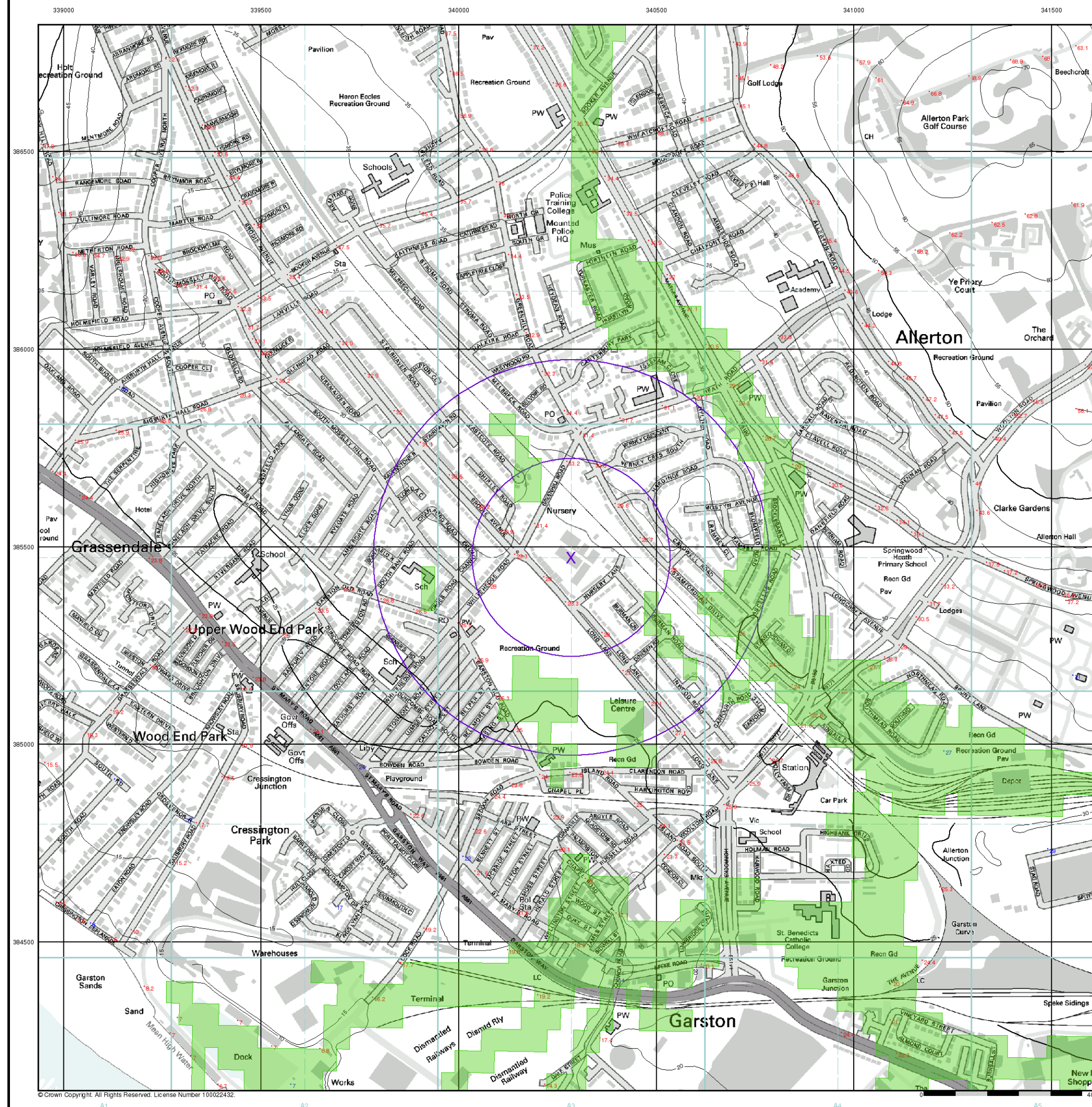


Order Details

Order Number: 57393565_1_1
 Customer Ref: 30075
 National Grid Reference: 340280, 385470
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 500

Site Details

Site at 340270, 385460



RMS 1000 year Return Flood Map (1:10,000)

General

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

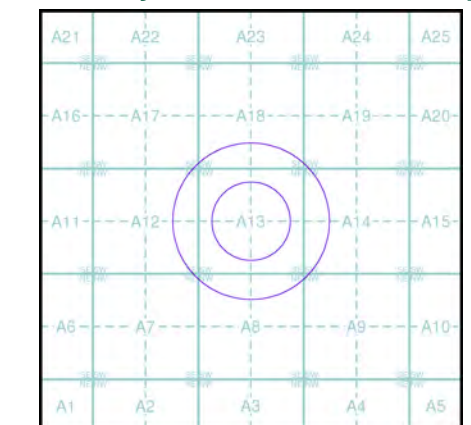
RMS 1000 year Return Flood Data

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

Contours (height in metres)

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

RMS 1000 year Return Flood Map - Slice A

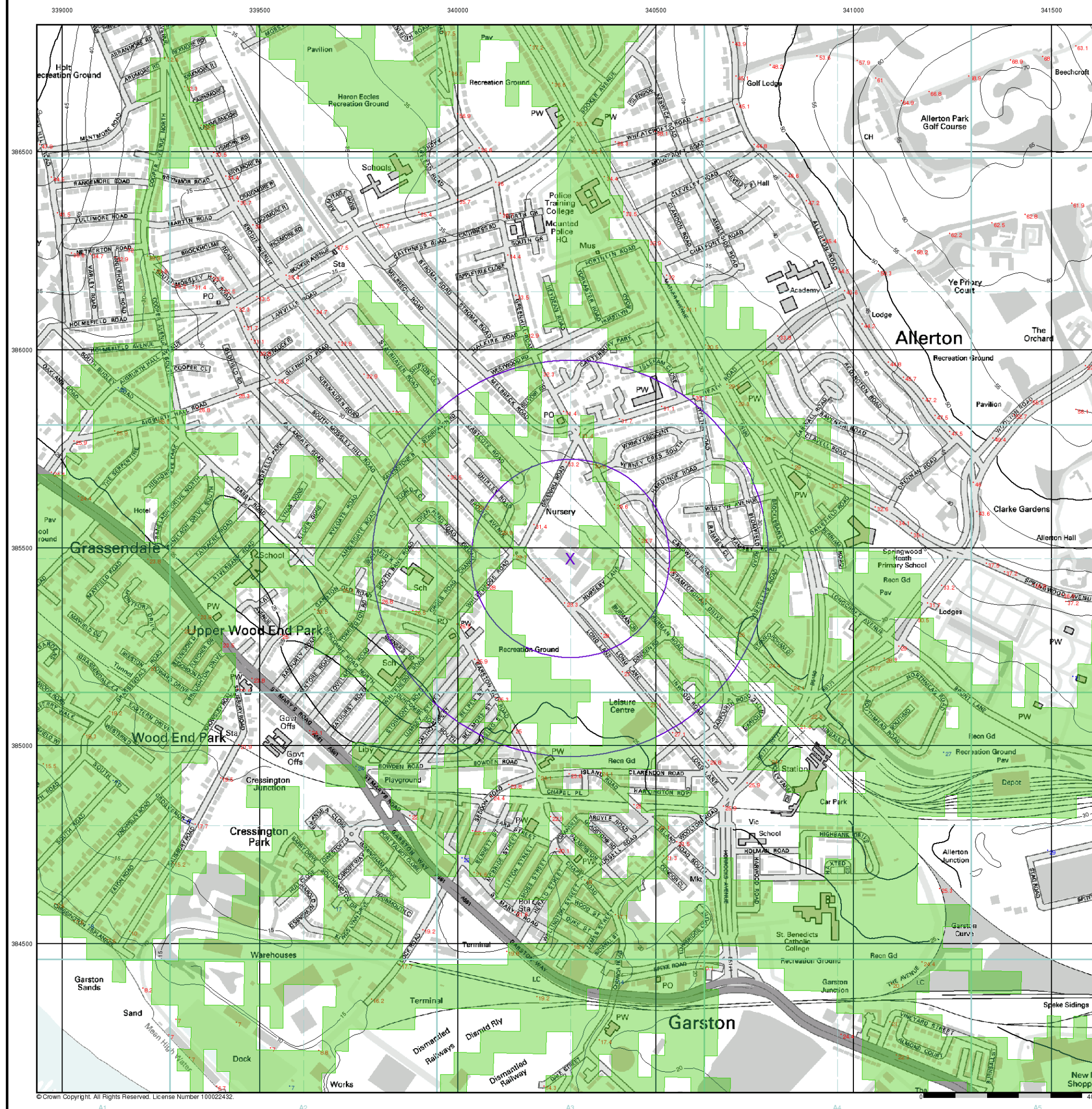


Order Details

Order Number: 57393565_1_1
 Customer Ref: 30075
 National Grid Reference: 340280, 385470
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 500

Site Details

Site at 340270, 385460



EA Detailed River Network Map (1:10,000)

General

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

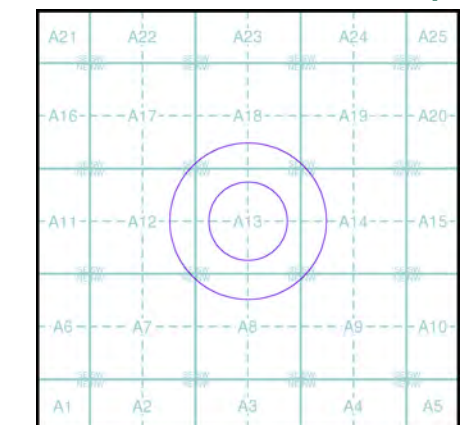
EA Detailed River Network Data

- | | |
|--------------------------|---|
| Primary River | Extended Culvert (greater than 50m) |
| Secondary River | Underground River (inferred) |
| Tertiary River | Underground River (local knowledge) |
| Canal | Downstream of High Water Mark |
| Canal Tunnel | Downstream of Seaward Extension |
| Undefined River | Not assigned River feature |
| Lake/Reservoir | |
| Source | Not assigned River feature |
| Junction | Pseudo Node (general) |
| Sink | Pseudo Node (High Water Mark) |
| Non-interactive Node | Pseudo Node (OS MasterMap polygon boundary) |
| Offline Drainage Feature | |

Contours (height in metres)

- Standard Contour 105 100 95 167.3 Spot Height
Index Contour 100 95 45.8 Air Height

EA Detailed River Network Map - Slice A



Order Details

Order Number: 57393565_1_1
Customer Ref: 30075
National Grid Reference: 340280, 385470
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 500

Site Details

Site at 340270, 385460

EA Historic Flood Map (1:10,000)

General

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

EA Historic Flood Events Data

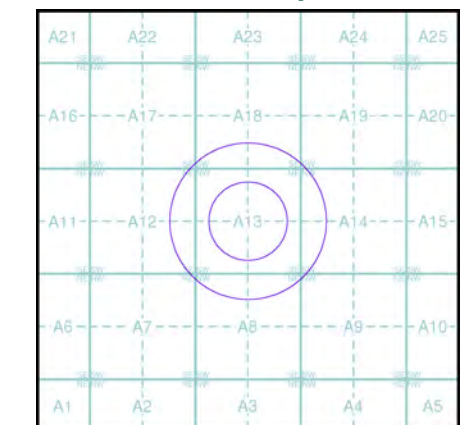
- | | |
|--|---------------------------------------|
| Channel Capacity Exceeded (no raised defences) | Obstruction/Blockage - Culvert |
| Groundwater/High Water Table | Obstruction/Blockage - Debris Screen |
| Local Drainage/Surface Water | Operational Failure/Breach of Defence |
| Mechanical Failure | Other |
| Obstruction/Blockage - Bridge | Overtopping of Defences |
| Obstruction/Blockage - Channel | Unknown |

- Historical Flood Liabilities

Contours (height in metres)

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

EA Historic Flood Map - Slice A

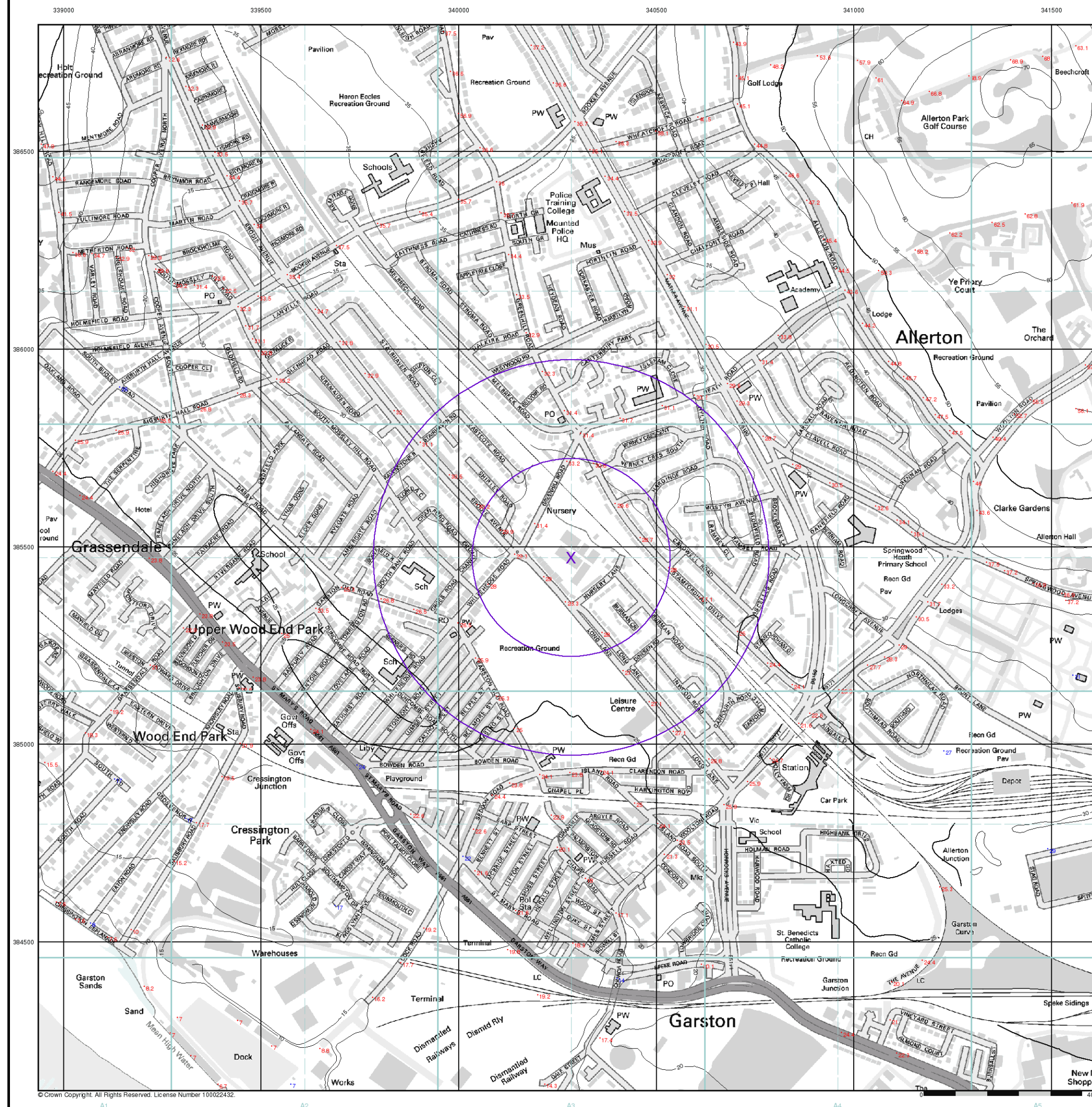


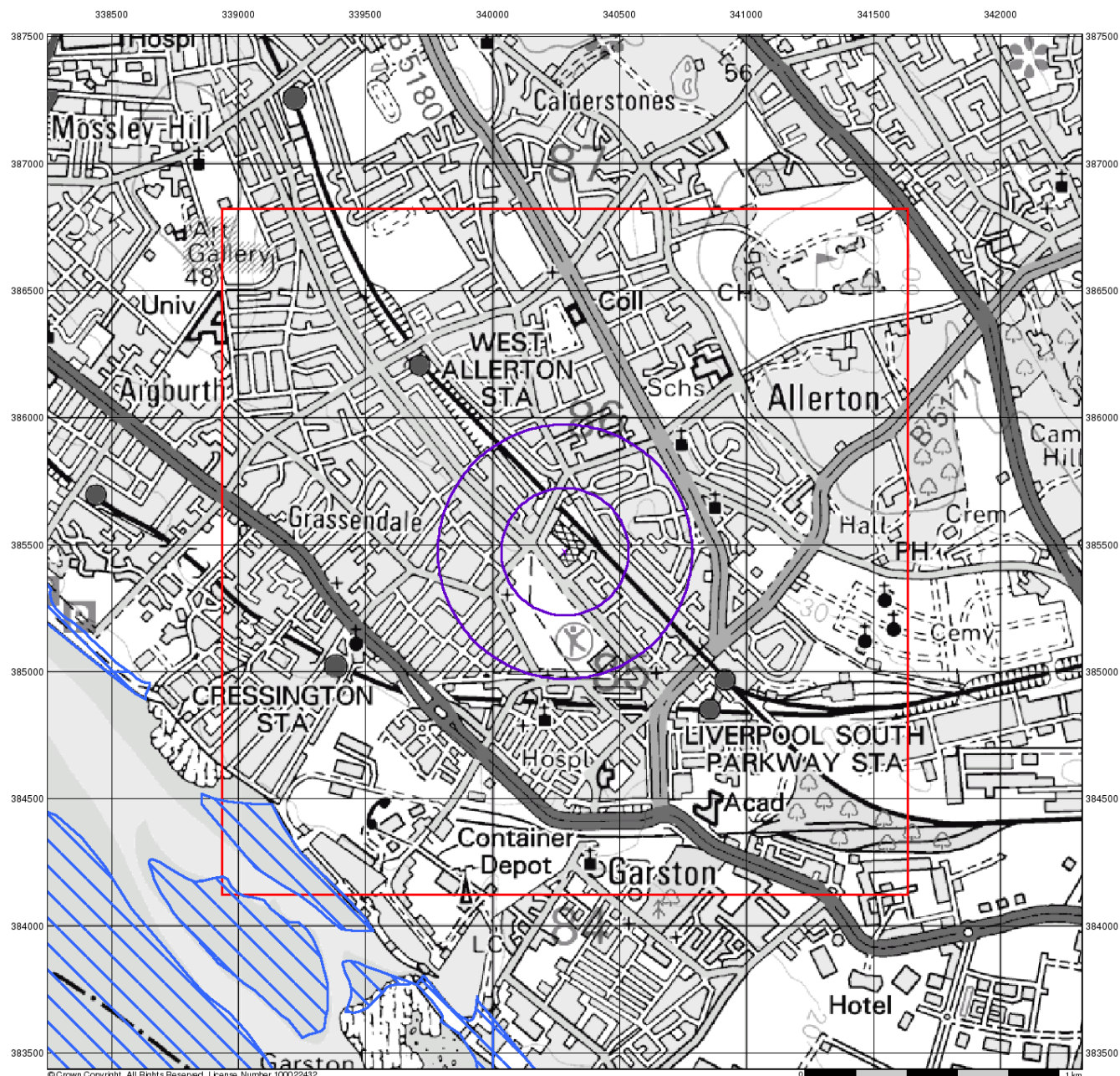
Order Details

Order Number: 57393565_1_1
 Customer Ref: 30075
 National Grid Reference: 340280, 385470
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 500

Site Details

Site at 340270, 385460





BGS Flood Data (1:50,000)

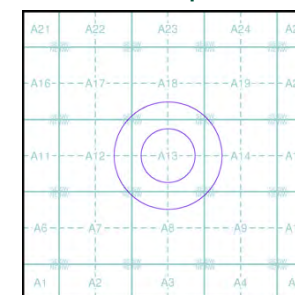
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

BGS Geological Indicators of Flooding

- Coastal
- Inland
- Bodies of Water

BGS Flood Data Map - Slice A

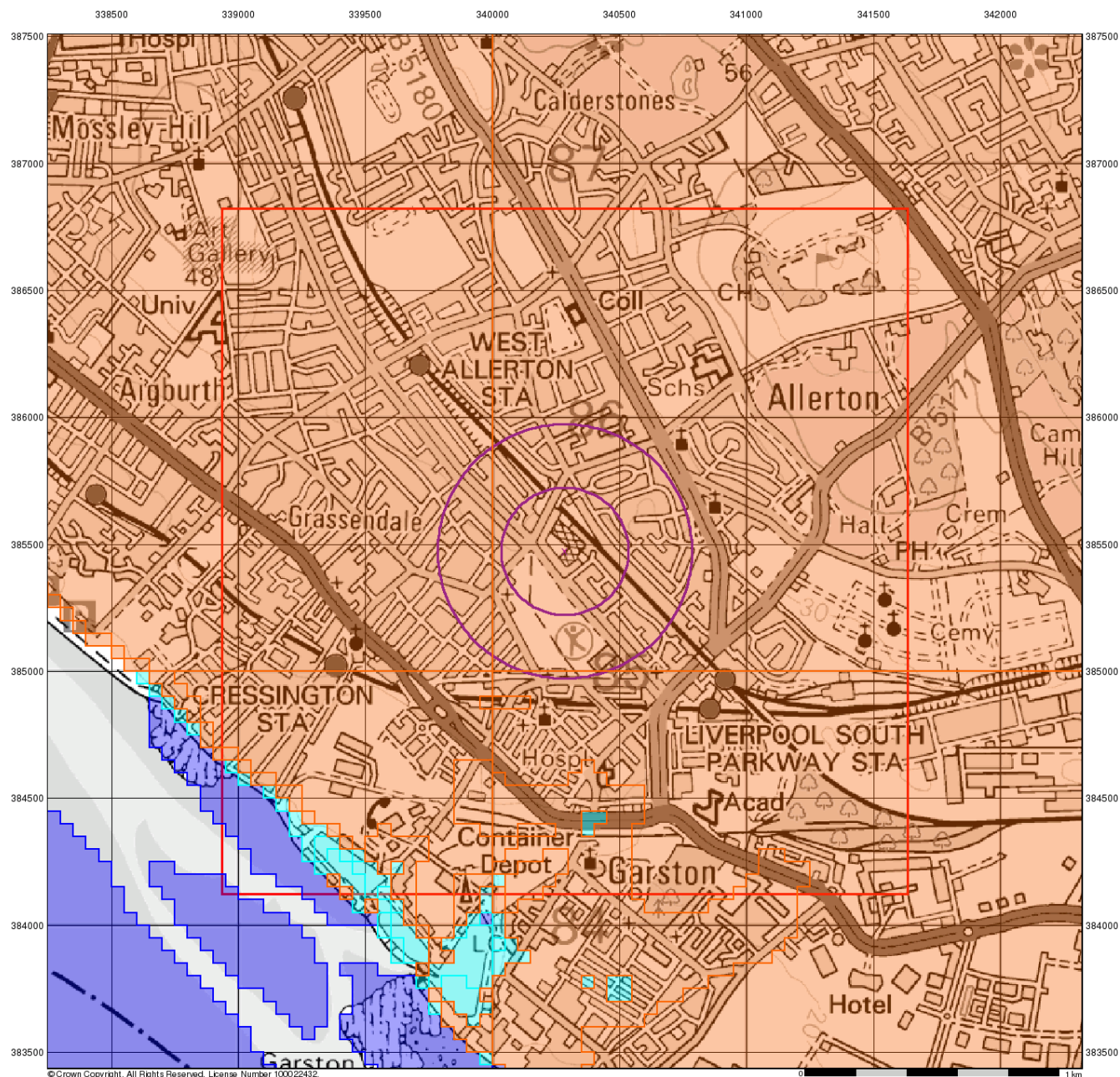


Order Details

Order Number: 57393565_1_1
Customer Ref: 30075
National Grid Reference: 340280, 385470
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 500

Site Details

Site at 340270, 385460



© Crown Copyright. All Rights Reserved. License Number 100022432.

IronsideFarrar Environmental Consultants

BGS Flood Data (1:50,000)

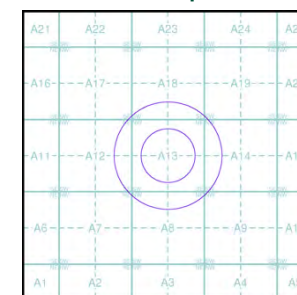
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

BGS Groundwater Flooding Susceptibility

- Potential for Groundwater Flooding to Occur at Surface
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Limited Potential for Groundwater Flooding to Occur

BGS Flood Data Map - Slice A



Order Details

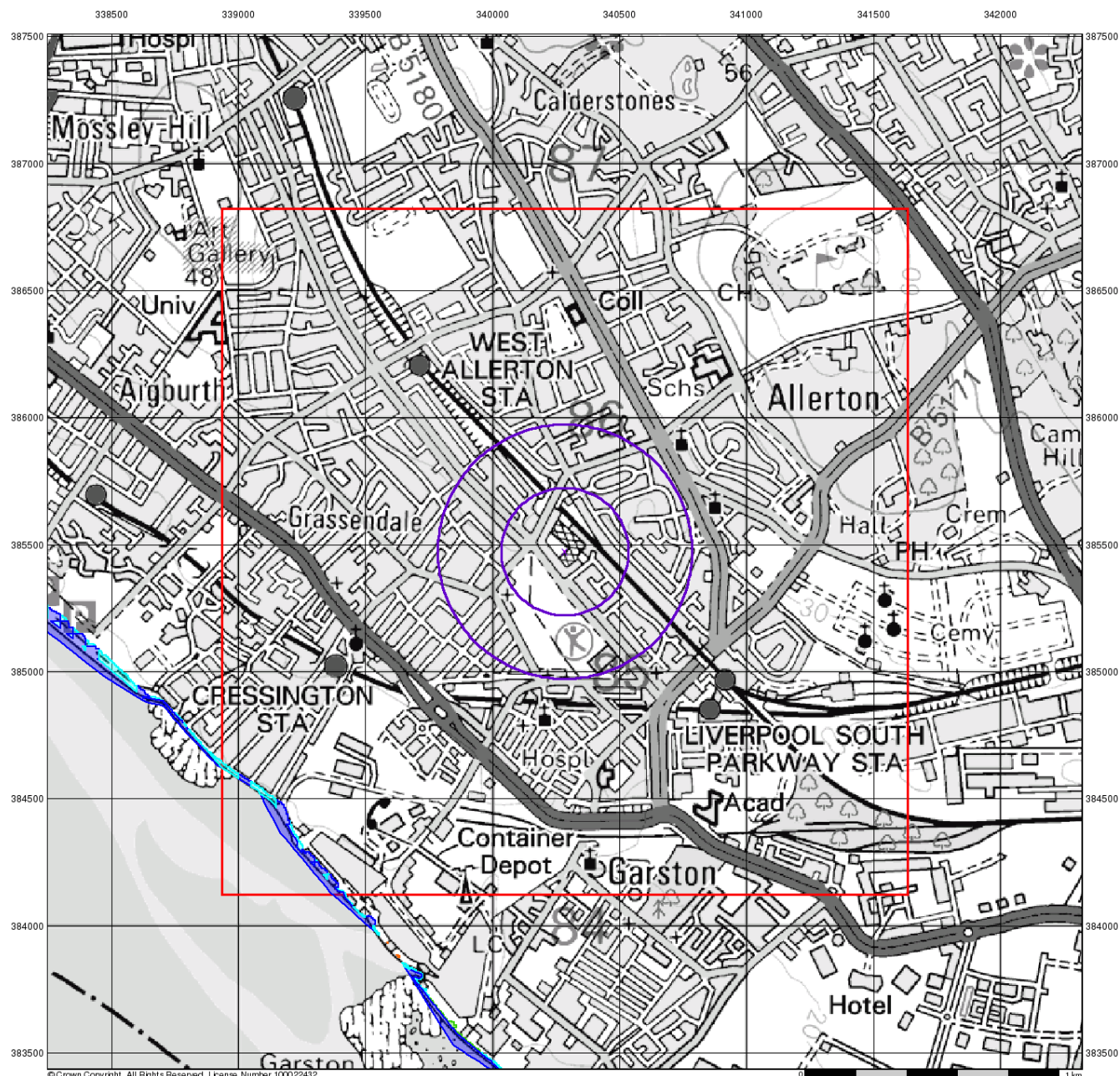
Order Number: 57393565_1_1
Customer Ref: 30075
National Grid Reference: 340280, 385470
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 500

Site Details

Site at 340270, 385460



Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



© Crown Copyright. All Rights Reserved. License Number 100022432.

IronsidesFarrar

Environmental Consultants

EA NaFRA Data (1:50,000)

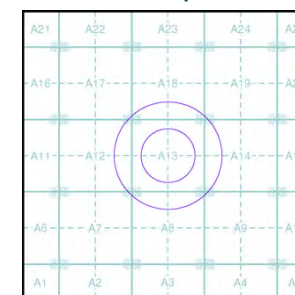
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

National Flood Risk Assessment (NaFRA)

- Significant Risk
- Moderate Risk
- Low Risk
- No Result

EA NaFRA Data Map - Slice A



Order Details

Order Number: 57393565_1_1
Customer Ref: 30075
National Grid Reference: 340280, 385470
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 500

Site Details

Site at 340270, 385460



Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

APPENDIX K

Liverpool CC Flood Data

Simon Gough

From: Eastaff, Robert [Robert.Eastaff@liverpool.gov.uk]
Sent: 23 January 2013 12:59
To: Irvine, Malcolm
Cc: Gilmore, Laura
Subject: RE: Greenhill Nursery Site, Nursery Lane, Liverpool L19 6PR
Attachments: data disclaimer Greenhill Nursery.doc; Greenhill Nursery SW 1in200.pdf; Greenhill Nursery astgwf.pdf; Greenhill Nursery historic 1843.pdf

Malcolm,

Please find attached three plans regarding the flood risk of the Greenhill Nursery site.

- Surface water flood model for a 1 in 200 year event (Greenhill Nursery SW 1in200)
- Areas susceptible to groundwater flooding (Greenhill Nursery astgwf)
- Historical plan 1843 to 1893 (Greenhill Nursery historic 1843)

I have also attached a data disclaimer with a few written descriptions from the attached plans.

I would suggest Laura Gilmore would be the best contact for your development brief. She has consented to you adding her details to the brief.

Regards,

Rob

Robert Eastaff | Student Engineer | Highways and Transportation

Liverpool City Council | Municipal Buildings | Dale Street | Liverpool | L2 2DH

T: 0151 233 8140 | E: robert.eastaff@liverpool.gov.uk

Online: www.liverpool.gov.uk



From: Irvine, Malcolm
Sent: 23 January 2013 09:07
To: Eastaff, Robert
Cc: Gilmore, Laura
Subject: RE: Greenhill Nursery Site, Nursery Lane, Liverpool L19 6PR

Rob

Thanks, this is useful.

Can you provide a copy of the flood risk plan and a plan showing the location of the old ponds.

I am already in contact with Anna Wong (LCC Highways) and Jenny Barnes (LCC Planning Services) who have consented to their contact details being printed in the development brief. Could I also add your name and contact details to the same?

Regards

Enquiries to: Robert Eastaff
Direct Line: 233 8140
Email: robert.eastaff@liverpool.gov.uk

Our Ref: GreenhillNursery/RE/01

Malcolm Irvine,
First Floor Station House,
Mercury Court,
Tithebarn Street,
Liverpool,
L2 2QP



23rd January 2013

Dear Malcolm,

Please see below a copy of Liverpool City Council's data disclaimer and drainage information regarding Greenhill Nursery, L19. Please bear in mind this is limited drainage information and therefore we recommend any potential developers contact all Statutory Undertakers for further detailed information.

Yours sincerely,

Robert Eastaff
Highways & Transportation
Liverpool City Council



Liverpool City Council Data Disclaimer

The data is provided to you on the basis of the terms and conditions listed below and in receiving and/or using the data you are deemed to have agreed as follows;

Liverpool City Council supplies the data on the basis that it will not be altered or manipulated in any way by the recipient and that the Information will not be distributed to any other person or third party.

Whilst the data is provided freely, the user assumes the entire risk related to its use. Data and information is provided for informational purposes only, and is not intended for trading or other business purposes. The recipient indemnifies the Council against any claims, losses, damages or costs whatsoever and howsoever caused arising directly or indirectly from the provision to the recipient of the data. We do not guarantee the accuracy, timeliness, reliability or completeness of any of the data. Neither Liverpool City Council nor any of its data or content providers shall be liable for any errors or inaccuracies in the content, or for any actions taken in reliance thereon.

Location:

Greenhill Nursery, Nursery Lane, L19

Details of data provided:**Ordinary Watercourses (Culverted and Open)**

There are stretches of open watercourse and culverted watercourse bounding the site of Greenhill Nursery. The watercourse is known as Stamfordham Drain. The condition of the stretches of watercourse bounding Greenhill Nursery is unknown.

Historical Watercourses

The watercourse in the area dates back to at least the 1840s when the

watercourse followed a similar line but was more extensive in length. Historical plans (1843 to 1893) also show two large ponds on the site of Greenhill Nursery and the adjacent piece of land.

Drainage Infrastructure

There may be drainage infrastructure such as gullies, gully connections and historical drainage Infrastructure which are not identified on our plans. Gullies in particular have not been mapped but are likely to be present on site.

Sewer Infrastructure

We advise you to contact United Utilities if you require a full picture of the sewer network.

Surface Water and Groundwater Flooding

Surface water flood modelling for a 1 in 200 year event shows a significant area of surface water to the North of Greenhill Road. The site itself shows fewer problems but dealing with surface water should still be considered important in future proposals.

The site is not within the Environment Agency's areas susceptible to groundwater flooding. There is however an area susceptible to groundwater flooding approximately 500 metres away from the site, which in terms of groundwater is not far. Groundwater levels are also known to be rising in Liverpool partly due to the wet weather and partly due to the decrease in industry and the water they once pumped. This has seen locations outside the areas susceptible to groundwater flooding becoming active and experiencing groundwater problems.

Data to: Malcolm Irvine, 2020 Liverpool Ltd

Email: malcolm.irvine@2020liverpool.co.uk

Tel: 0151 237 4146

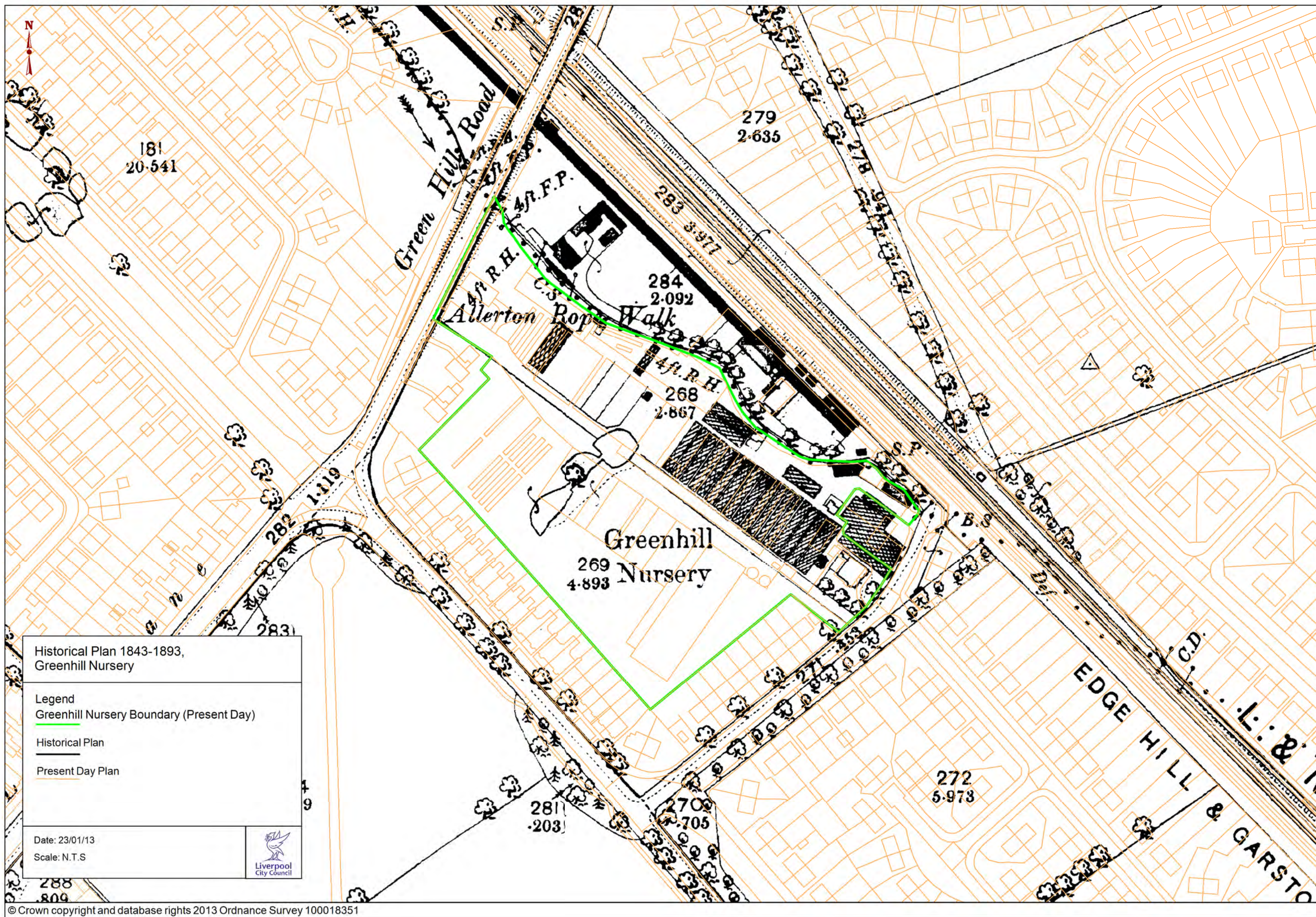
Data from: Robert Eastaff, Highways and Transportation

Liverpool City Council, Municipal Buildings, Dale Street, Liverpool, L2 2DH

Email: robert.eastaff@liverpool.gov.uk

Tel: 0151 233 8140

Date data issued: 23/01/13




Historical Plan 1843-1893,
Greenhill Nursery

Legend
Greenhill Nursery Boundary (Present Day)

Historical Plan

Present Day Plan

Date: 23/01/13
Scale: N.T.S



Liverpool
City Council

