

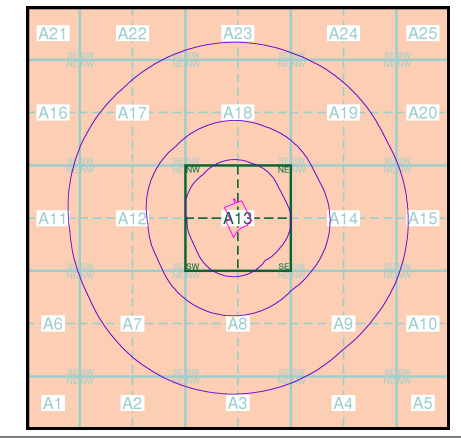
**M M**  
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**MACDONALD**

- General**
- Specified Site
  - Specified Buffer(s)
  - 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

**EANRW Suitability Map - Slice A**



**Order Details**

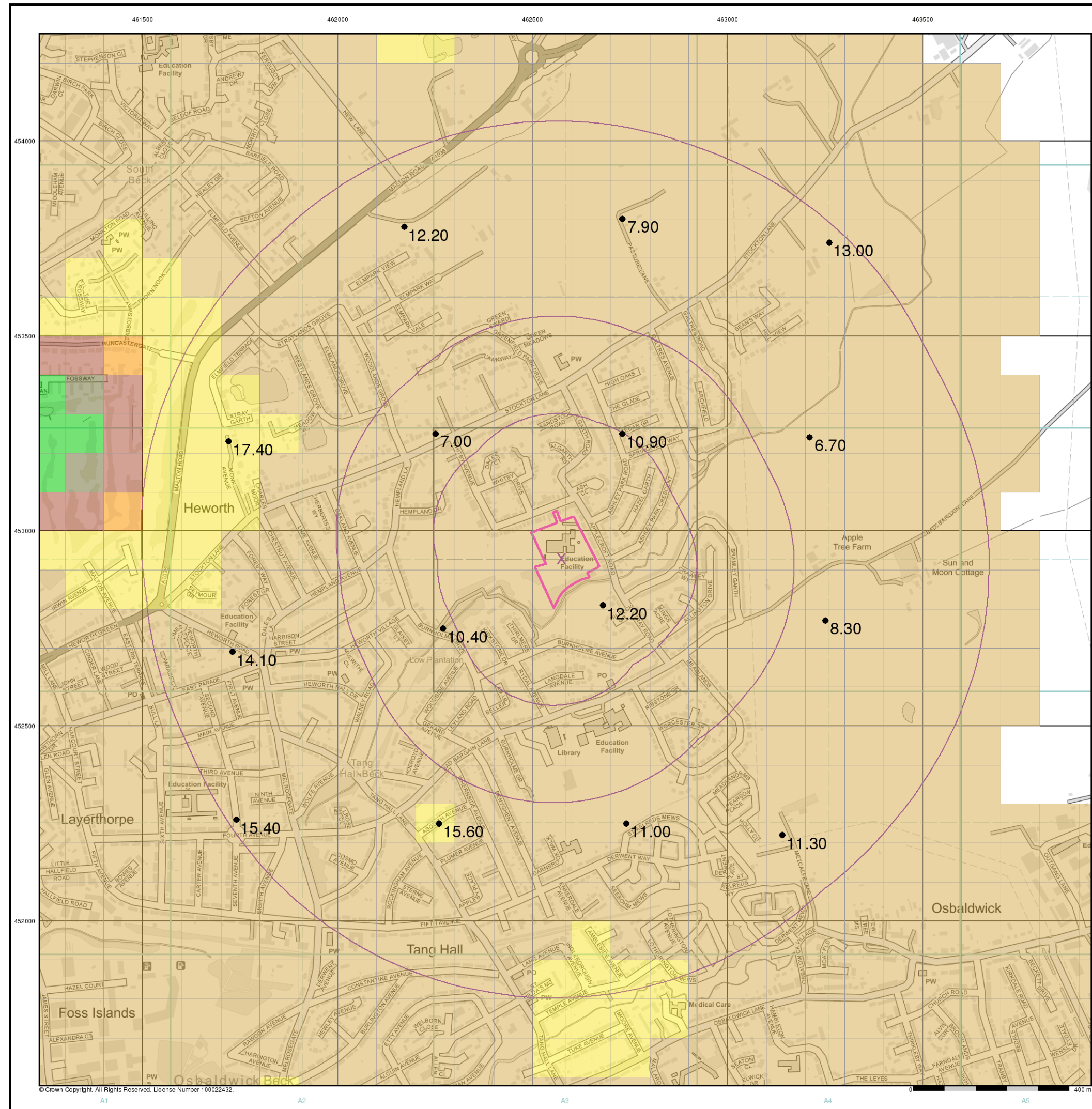
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 Customer Ref: 100418273 (note: to transfer to Hempland)  
 National Grid Reference: 462570, 452930  
 Slice: A  
 Site Area (Ha): 2.22  
 Search Buffer (m): 1000

**Site Details**

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**MACDONALD**

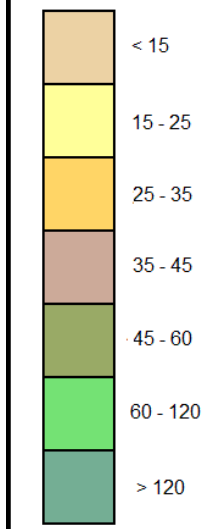
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- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

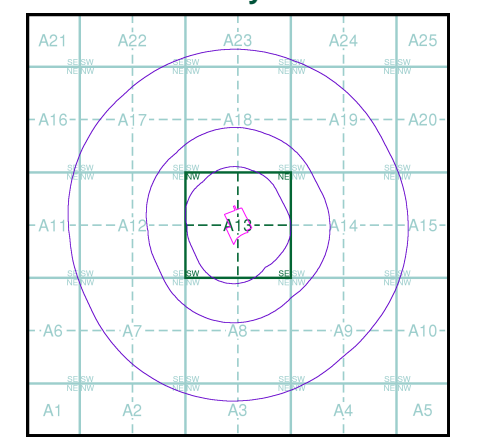
**Urban Soil Chemistry Arsenic**

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Arsenic Concentrations mg/kg



**Urban Soil Chemistry Arsenic - Slice A**



**Order Details**

Order Details: 285631777\_1\_1  
 Customer Ref: 100418273 (note: to transfer to Hempland)  
 National Grid Reference: 462570, 452930  
 Slice: A  
 Site Area (Ha): 2.22  
 Search buffer (m): 1000

**Site Details**

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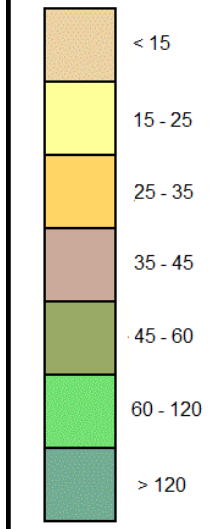
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**MOTT**  
**MACDONALD**

**General**

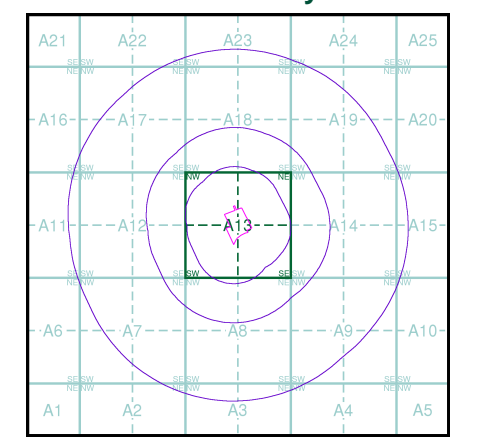
- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

**Estimated Soil Chemistry Arsenic**

Arsenic Concentrations mg/kg



**Estimated Soil Chemistry Arsenic - Slice A**



**Order Details**

Order Details: 285631777\_1\_1  
 Customer Ref: 100418273 (note: to transfer to Hempland)  
 National Grid Reference: 462570, 452930  
 Slice: A  
 Site Area (Ha): 2.22  
 Search buffer (m): 1000

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**MACDONALD**

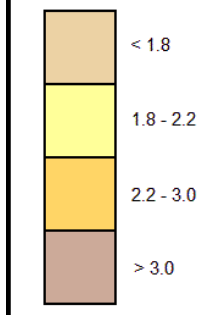
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- Specified Site
- Specified Buffer(s)
- x Bearing Reference Point

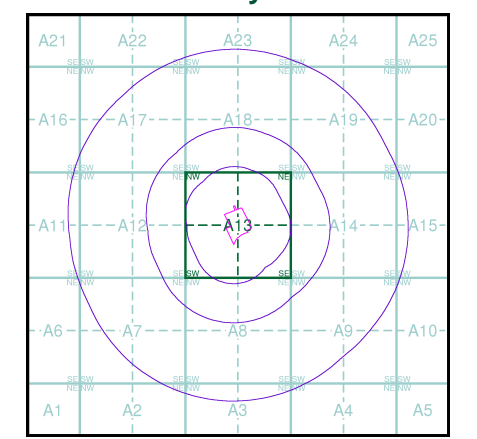
**Urban Soil Chemistry Cadmium**

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Cadmium Concentrations mg/kg



**Urban Soil Chemistry Cadmium - Slice A**



**Order Details**

Order Details: 285631777\_1\_1  
 Customer Ref: 100418273 (note: to transfer to Hempland)  
 National Grid Reference: 462570, 452930  
 Slice: A  
 Site Area (Ha): 2.22  
 Search buffer (m): 1000

**Site Details**

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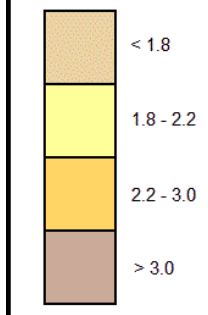
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**General**

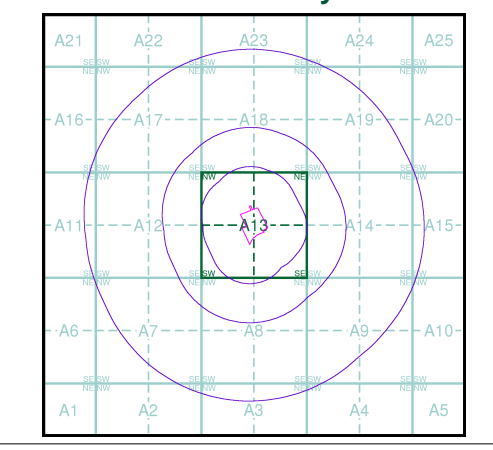
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

**Estimated Soil Chemistry Cadmium**

Cadmium Concentrations mg/kg



**Estimated Soil Chemistry Cadmium - Slice A**



**Order Details**

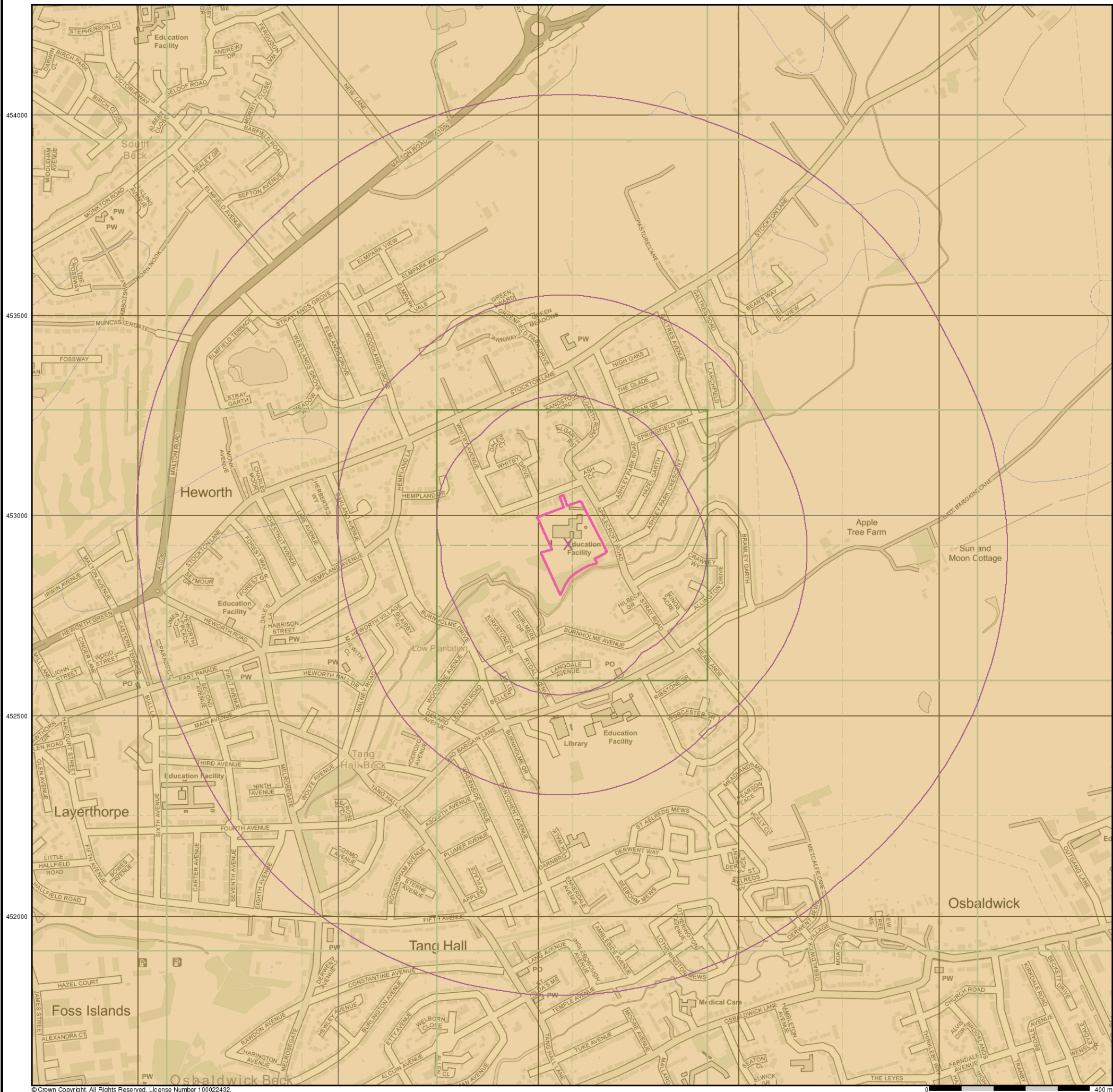
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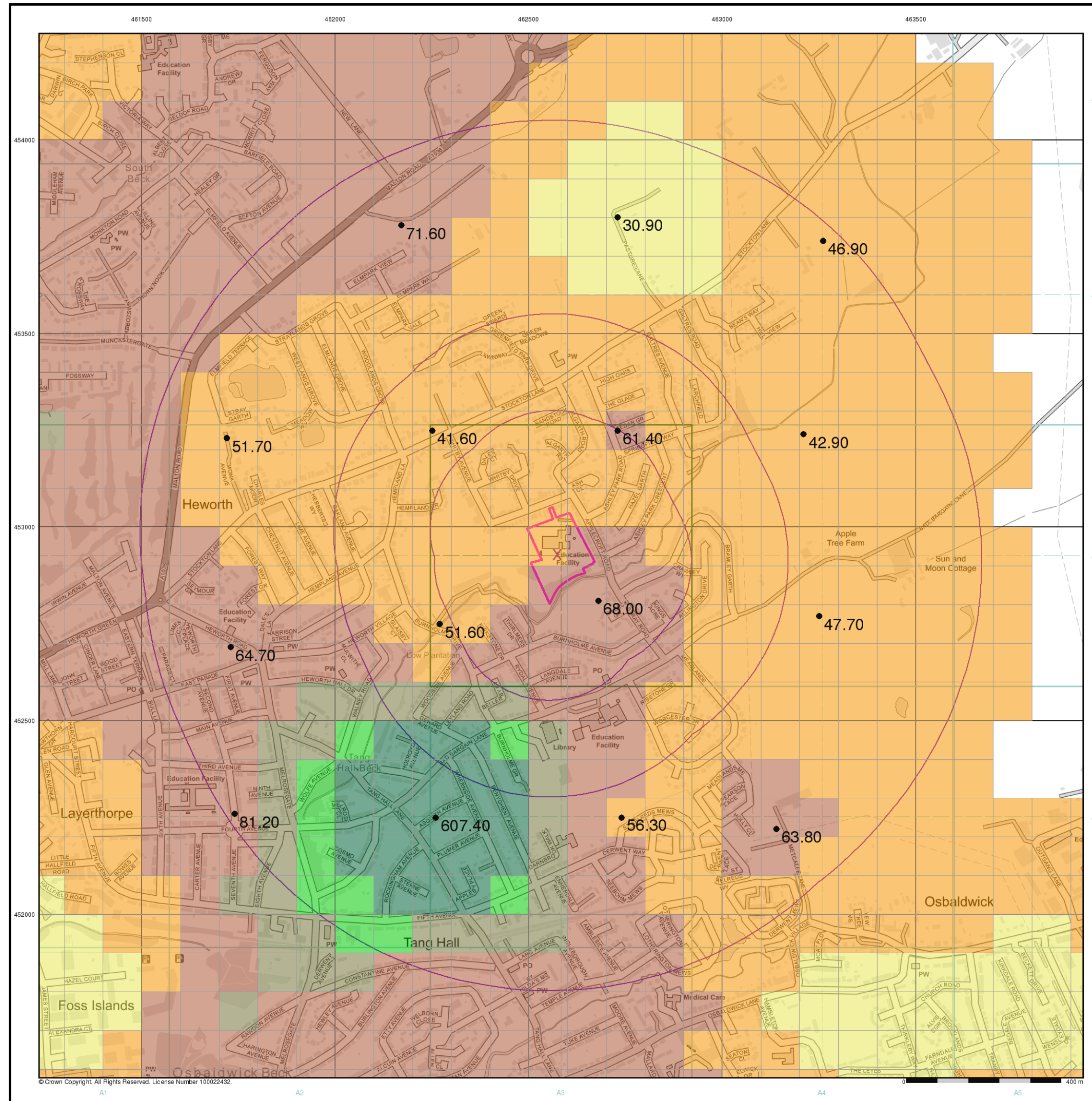
**Site Details**

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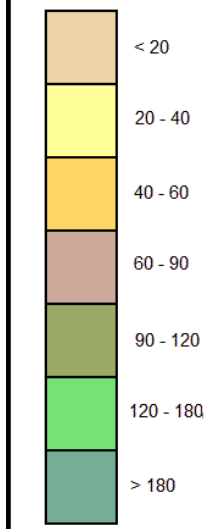
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- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

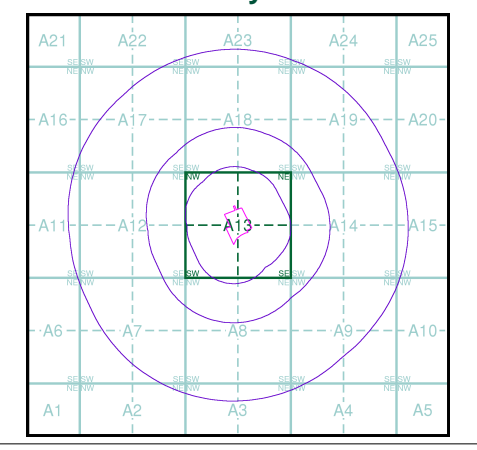
**Urban Soil Chemistry Chromium**

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Chromium Concentrations mg/kg



**Urban Soil Chemistry Chromium - Slice A**



**Order Details**

Order Details: 285631777\_1\_1  
 Customer Ref: 100418273 (note: to transfer to Hempland)  
 National Grid Reference: 462570, 452930  
 Slice: A  
 Site Area (Ha): 2.22  
 Search buffer (m): 1000

**Site Details**

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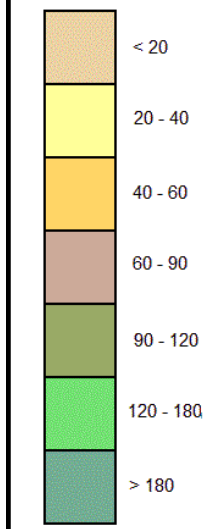
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**MACDONALD**

**General**

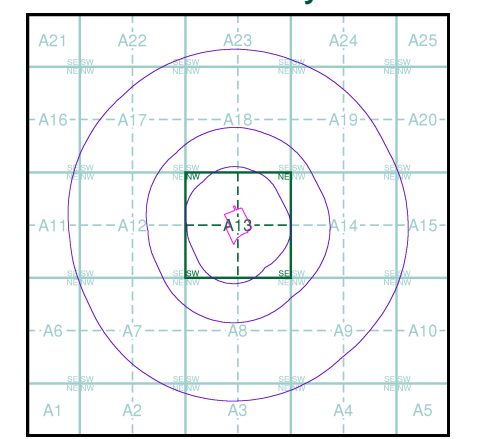
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

**Estimated Soil Chemistry Chromium**

Chromium Concentrations mg/kg



**Estimated Soil Chemistry Chromium - Slice A**



**Order Details**

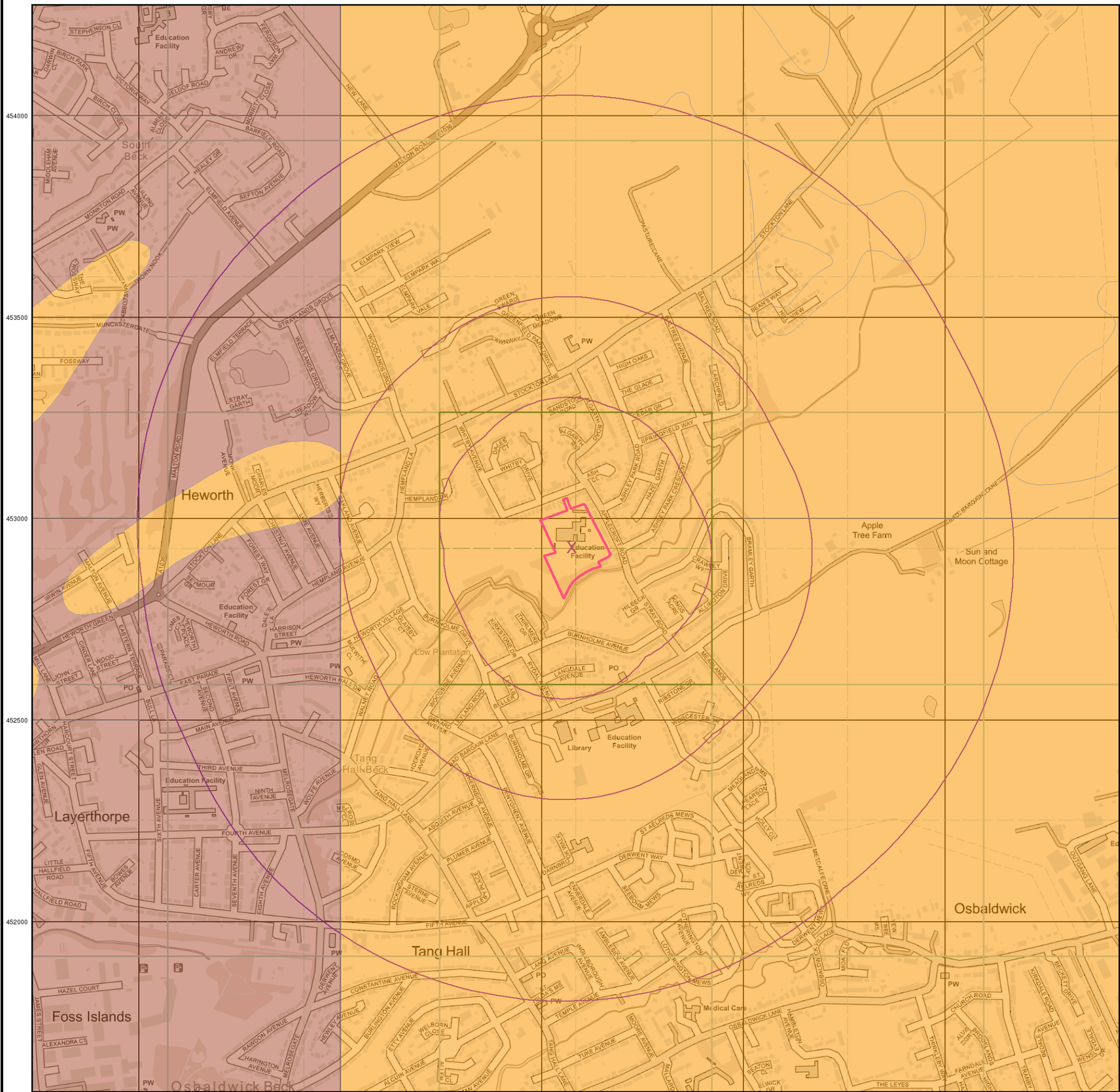
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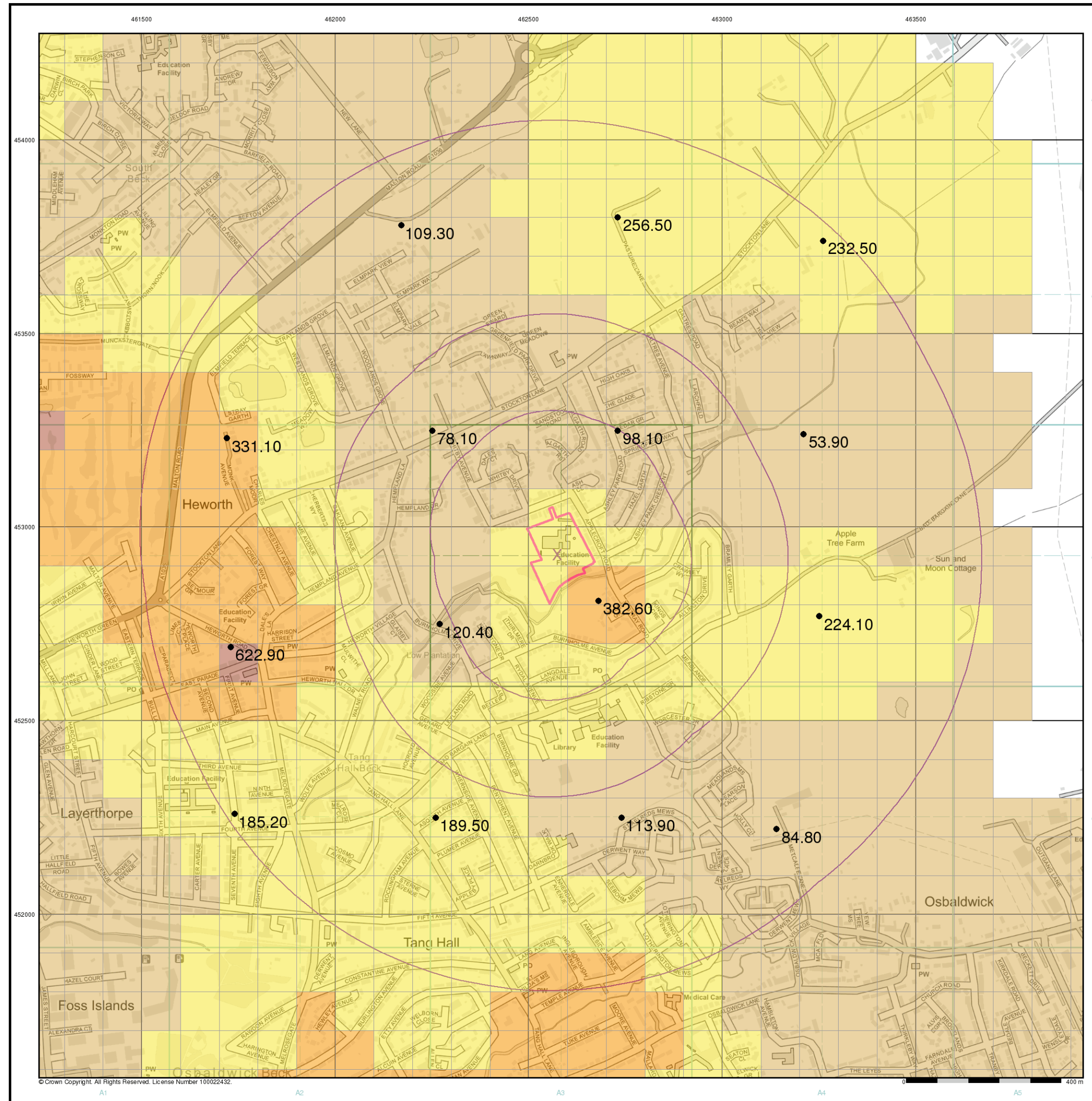
**Site Details**

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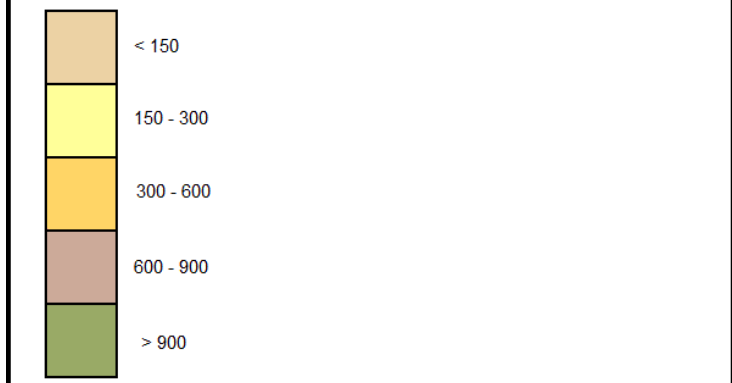




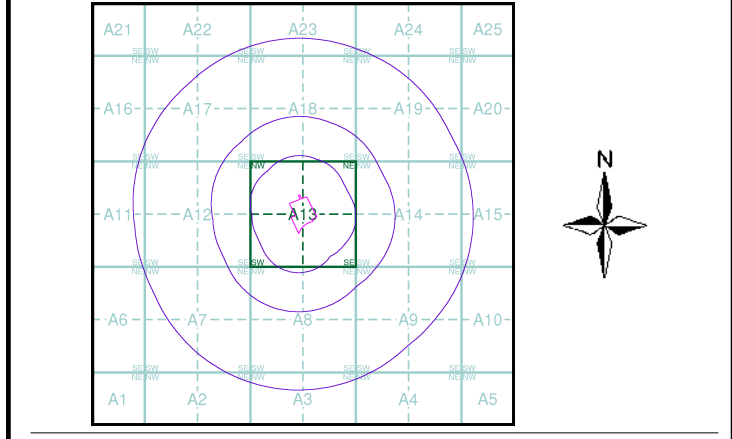
**M M**  
**MOTT MACDONALD**

**General**  
 Specified Site Specified Buffer(s) Bearing Reference Point

**Urban Soil Chemistry Lead**  
 BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)  
 Lead Concentrations mg/kg



**Urban Soil Chemistry Lead - Slice A**



**Order Details**  
 Order Details: 285631777\_1\_1  
 Customer Ref: 100418273 (note: to transfer to Hempland)  
 National Grid Reference: 462570, 452930  
 Slice: A  
 Site Area (Ha): 2.22  
 Search buffer (m): 1000

**Site Details**  
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461500 462000 462500 463000 463500

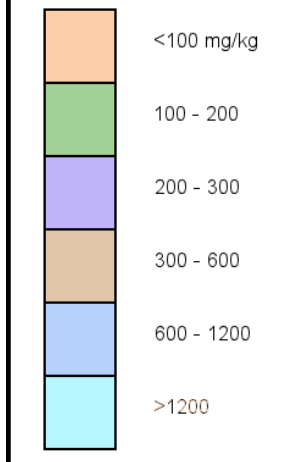
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**MACDONALD**

**General**

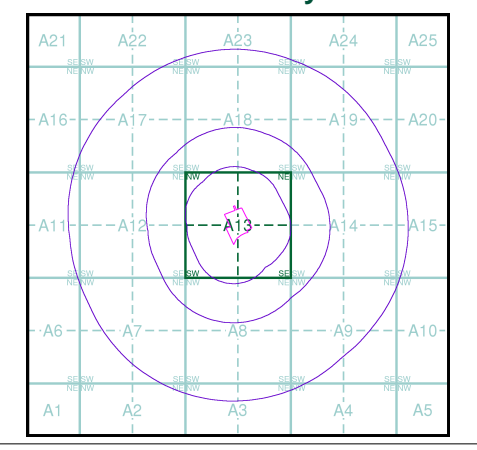
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

**Estimated Soil Chemistry Lead**

Lead Concentrations mg/kg



**Estimated Soil Chemistry Lead - Slice A**



**Order Details**

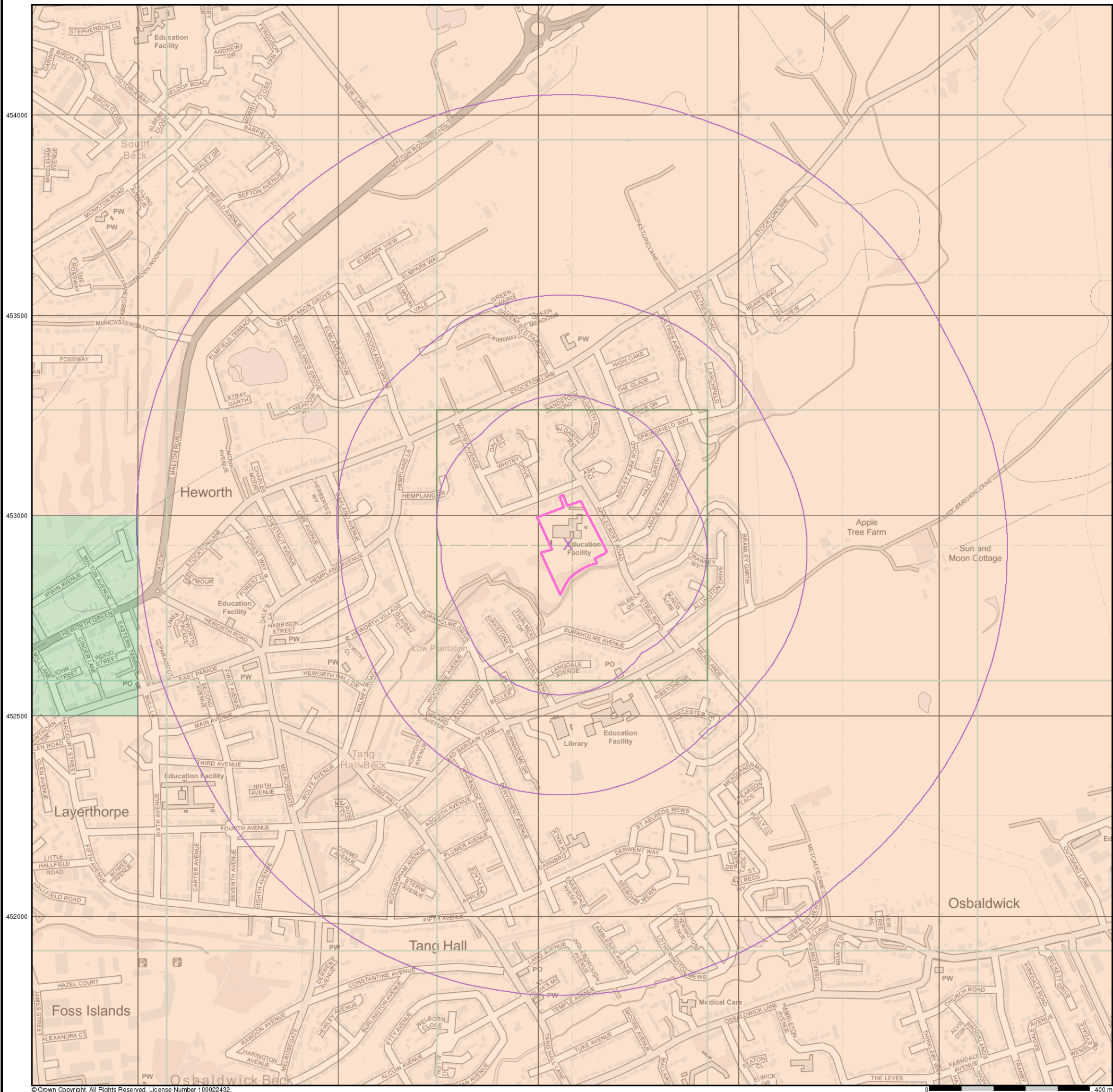
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 Customer Ref: 100418273 (note: to transfer to Hempland)  
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 Search buffer (m): 1000

**Site Details**

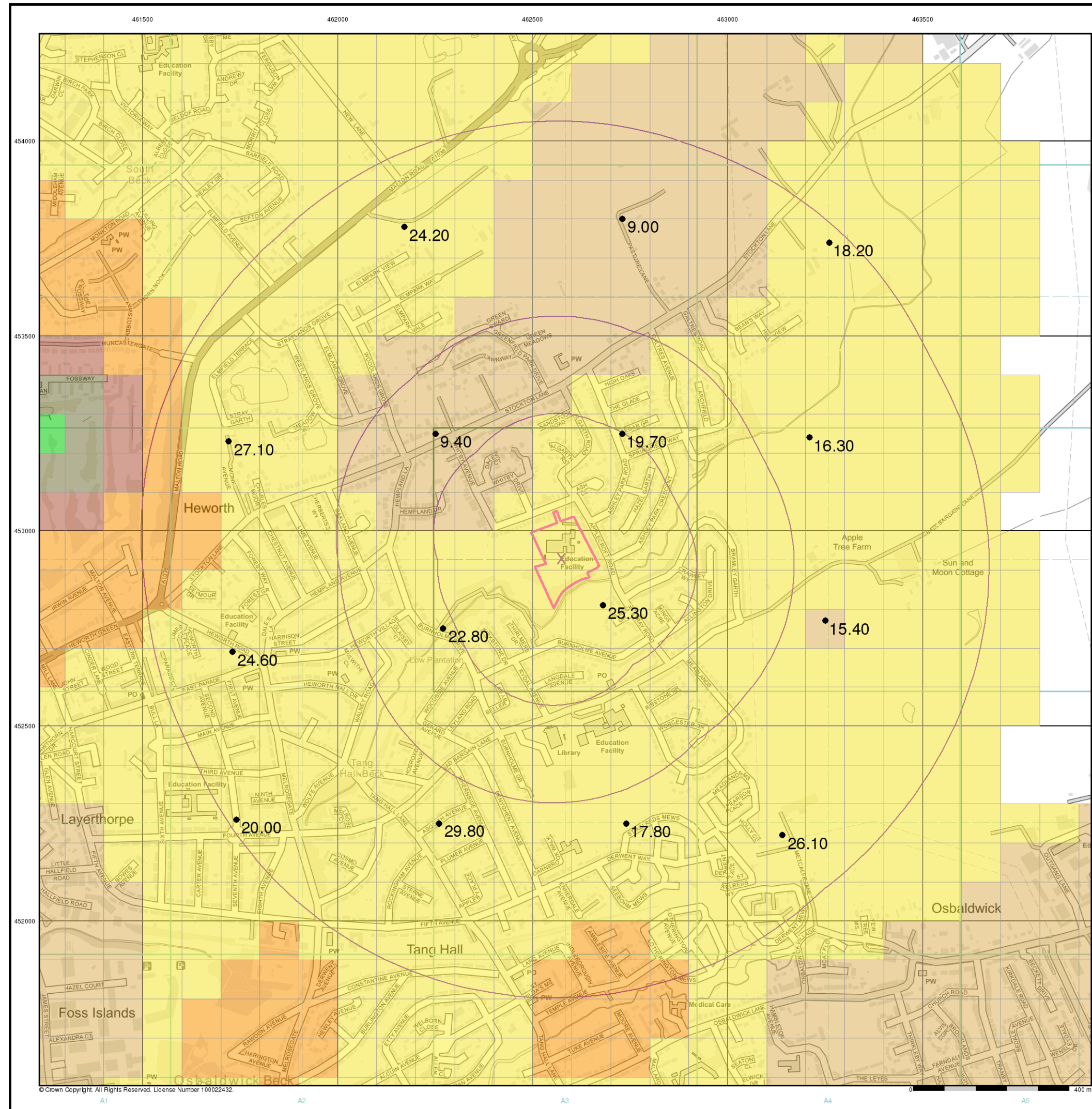
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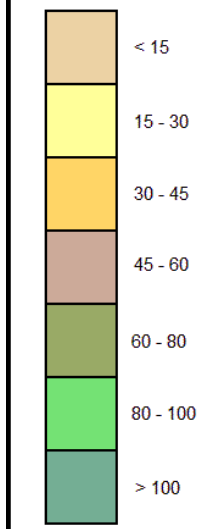
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- Specified Buffer(s)
- X Bearing Reference Point

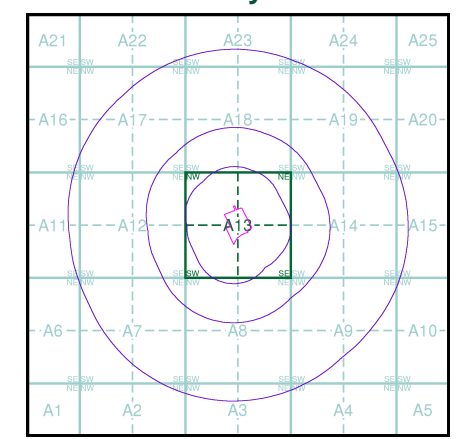
**Urban Soil Chemistry Nickel**

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Nickel Concentrations mg/kg



**Urban Soil Chemistry Nickel - Slice A**



**Order Details**

Order Details: 285631777\_1\_1  
 Customer Ref: 100418273 (note: to transfer to Hempland)  
 National Grid Reference: 462570, 452930  
 Slice: A  
 Site Area (Ha): 2.22  
 Search buffer (m): 1000

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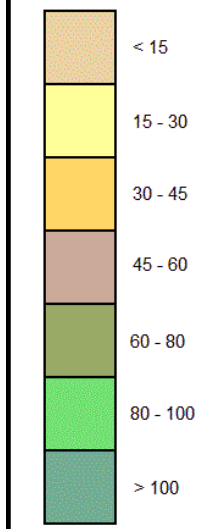
**M**  
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**General**

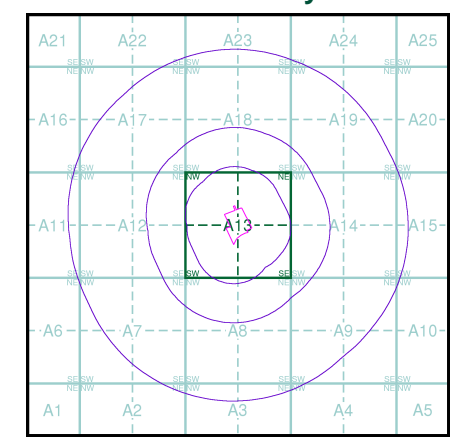
-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point

**Estimated Soil Chemistry Nickel**

Nickel Concentrations mg/kg



**Estimated Soil Chemistry Nickel - Slice A**



**Order Details**

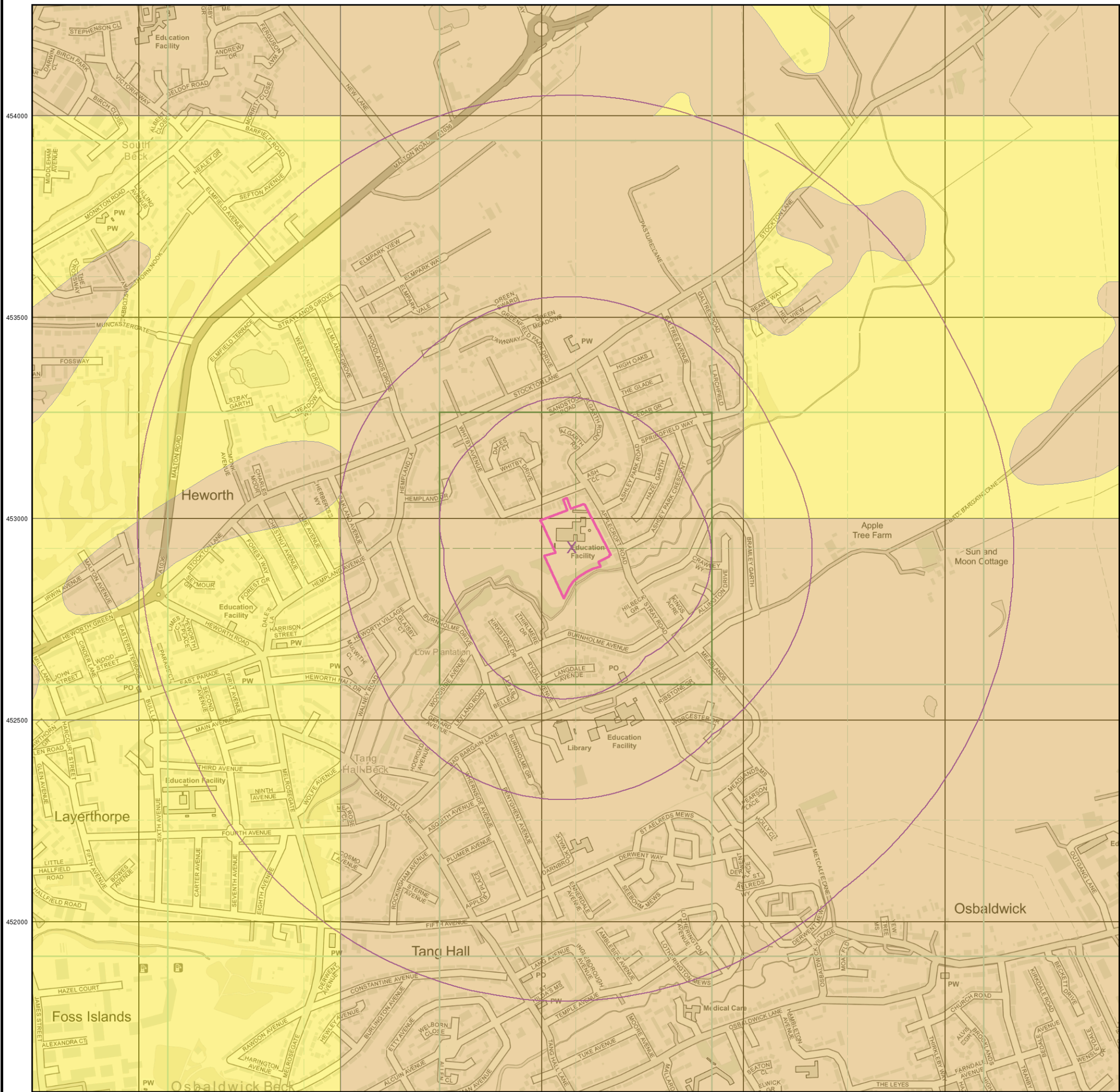
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 Customer Ref: 100418273 (note: to transfer to Hempland)  
 National Grid Reference: 462570, 452930  
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 Site Area (Ha): 2.22  
 Search buffer (m): 1000

**Site Details**

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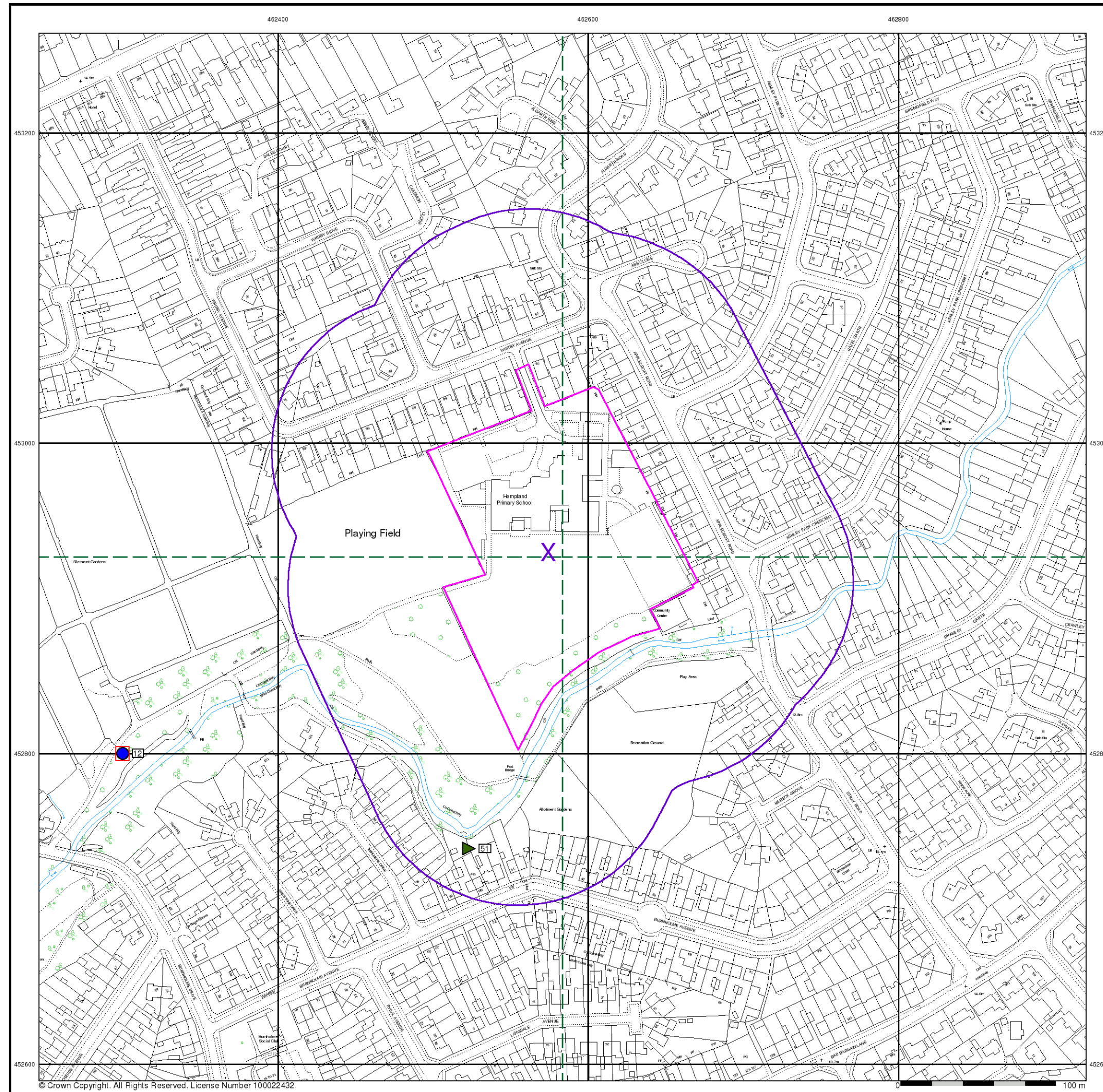


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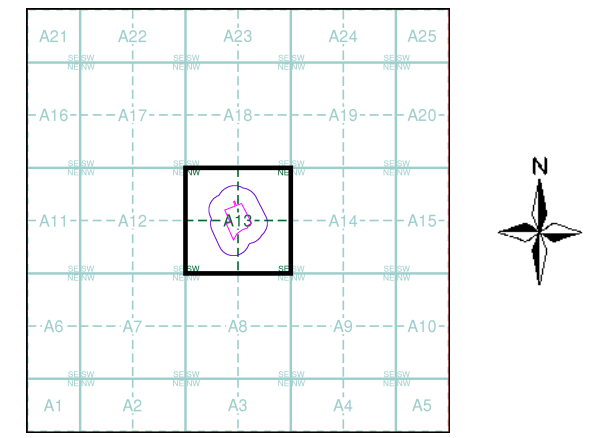
A1 A2 A3 A4 A5



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**MACDONALD**

- General**
- Specified Site
  - Specified Buffer(s)
  - Bearing Reference Point
  - Map ID
  - Several of Type at Location
  - Pylon
  - Overhead Transmission Line
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
  - Contaminated Land Register Entry or Notice
  - Discharge Consent
  - Enforcement or Prohibition Notice
  - Integrated Pollution Control
  - Integrated Pollution Prevention Control
  - Local Authority Pollution Prevention and Control
  - Local Authority Pollution Prevention and Control Enforcement
  - Pollution Incident to Controlled Waters
  - Prosecution Relating to Authorised Processes
  - Prosecution Relating to Controlled Waters
  - Registered Radioactive Substance
  - River Network or Water Feature
  - River Quality Sampling Point
  - Substantiated Pollution Incident Register
  - Water Abstraction
  - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
  - BGS Recorded Landfill Site
  - EA Historic Landfill (Buffered Point)
  - EA Historic Landfill (Polygon)
  - Integrated Pollution Control Registered Waste Site
  - Licensed Waste Management Facility (Landfill Boundary)
  - Licensed Waste Management Facility (Location)
  - Local Authority Recorded Landfill Site (Location)
  - Local Authority Recorded Landfill Site
  - Potentially Infilled Land (Non-water)
  - Potentially Infilled Land (Non-water)
  - Potentially Infilled Land (Water)
  - Potentially Infilled Land (Water)
  - Potentially Infilled Land (Water)
  - Registered Landfill Site
  - Registered Landfill Site (Location)
  - Registered Landfill Site (Point Buffered to 100m)
  - Registered Landfill Site (Point Buffered to 250m)
  - Registered Waste Transfer Site (Location)
  - Registered Waste Transfer Site
  - Registered Waste Treatment or Disposal Site (Location)
  - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
  - Explosive Site
  - NIHHS Site
  - Planning Hazardous Substance Consent
  - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site

**Site Sensitivity Map - Segment A13**



**Order Details**

Order Number: 285631777\_1\_1  
 Customer Ref: 100418273 (note: to transfer to Hempland)  
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 Site Area (Ha): 2.22  
 Plot Buffer (m): 100



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**Landmark**  
 INFORMATION GROUP











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# Geology 1:50,000 Maps Legends



## Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WGR	Worked Ground (Undivided)	Void	Not Supplied - Holocene
	LSGR	Landscaped Ground (Undivided)	Artificially Modified Ground	Not Supplied - Holocene

## Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	ALNE	Aine Glaciolacustrine Formation	Clay, Silty	Not Supplied - Devensian
	SUTN	Sutton Sand Formation	Sand	Not Supplied - Devensian
	YORKM	York Moraine Member	Sand, Gravelly	Not Supplied - Devensian
	YORKM	York Moraine Member	Clay, Sandy, Gravelly	Not Supplied - Devensian
	YORKM	York Moraine Member	Sand, Clayey, Gravelly	Not Supplied - Devensian
	VYORK	Vale of York Formation	Clay, Sandy, Gravelly	Not Supplied - Devensian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	NABS	Naburn Sand Member	Sand, Silty, Gravelly	Not Supplied - Devensian
	PEAT	Peat	Peat	Not Supplied - Quaternary

## Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SSG	Sherwood Sandstone Group	Sandstone	Not Supplied - GUADALUPIAN
		Faults		

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## Geology 1:50,000 Maps

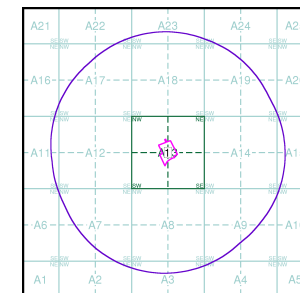
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published 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:	063
Map Name:	York
Map Date:	1959
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Not Available
Faults:	Not Supplied
Landslip:	Not Available
Rock Segments:	Not Supplied

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



## Order Details:

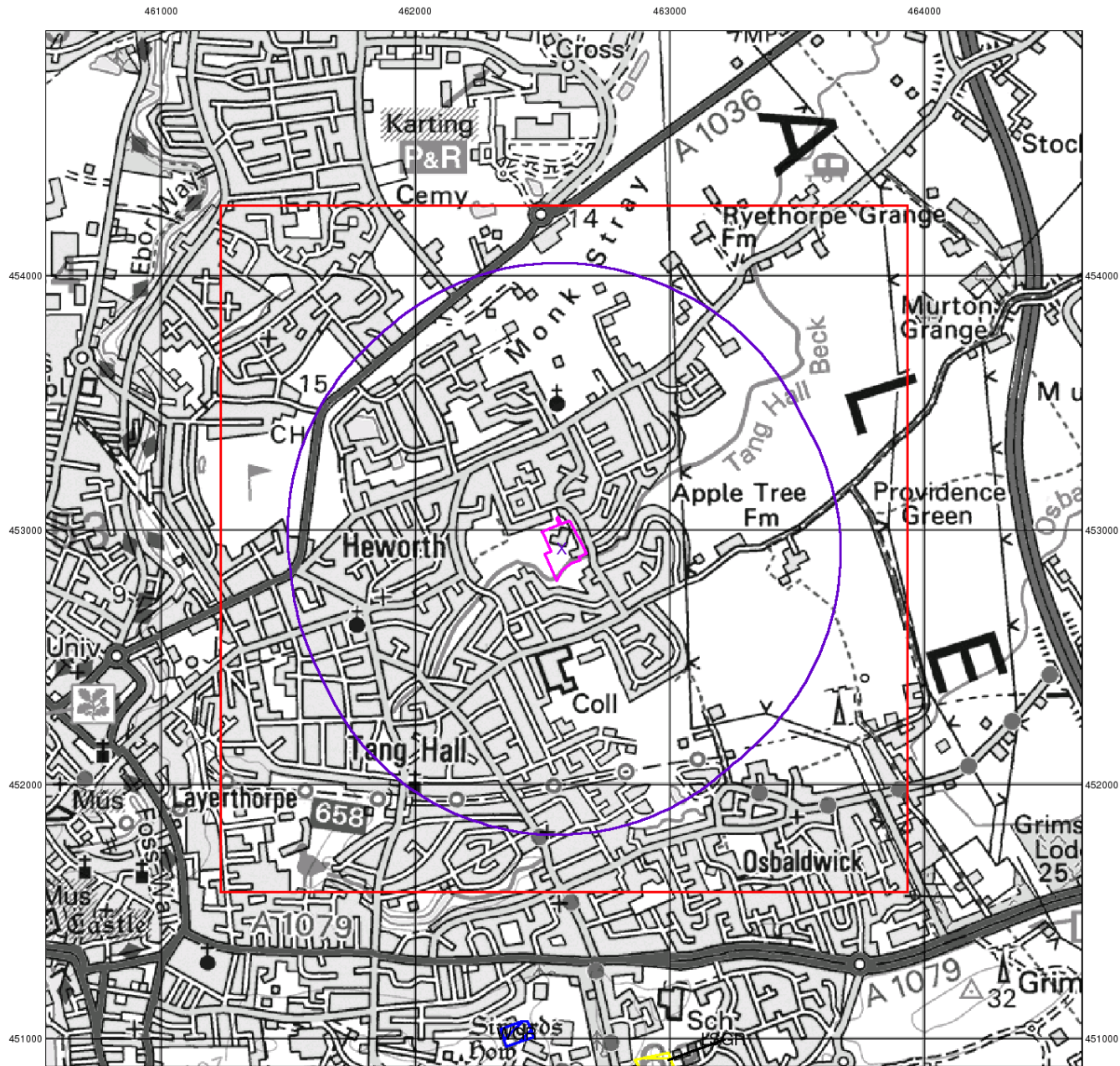
Order Number:	285631777_1_1
Customer Reference:	100418273 (note: to transfer to Hempland)
National Grid Reference:	462570, 452930
Slice:	A
Site Area (Ha):	2.22
Search Buffer (m):	1000

## Site Details:

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### Artificial Ground and Landslip

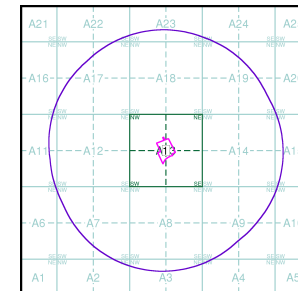
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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



### Order Details:

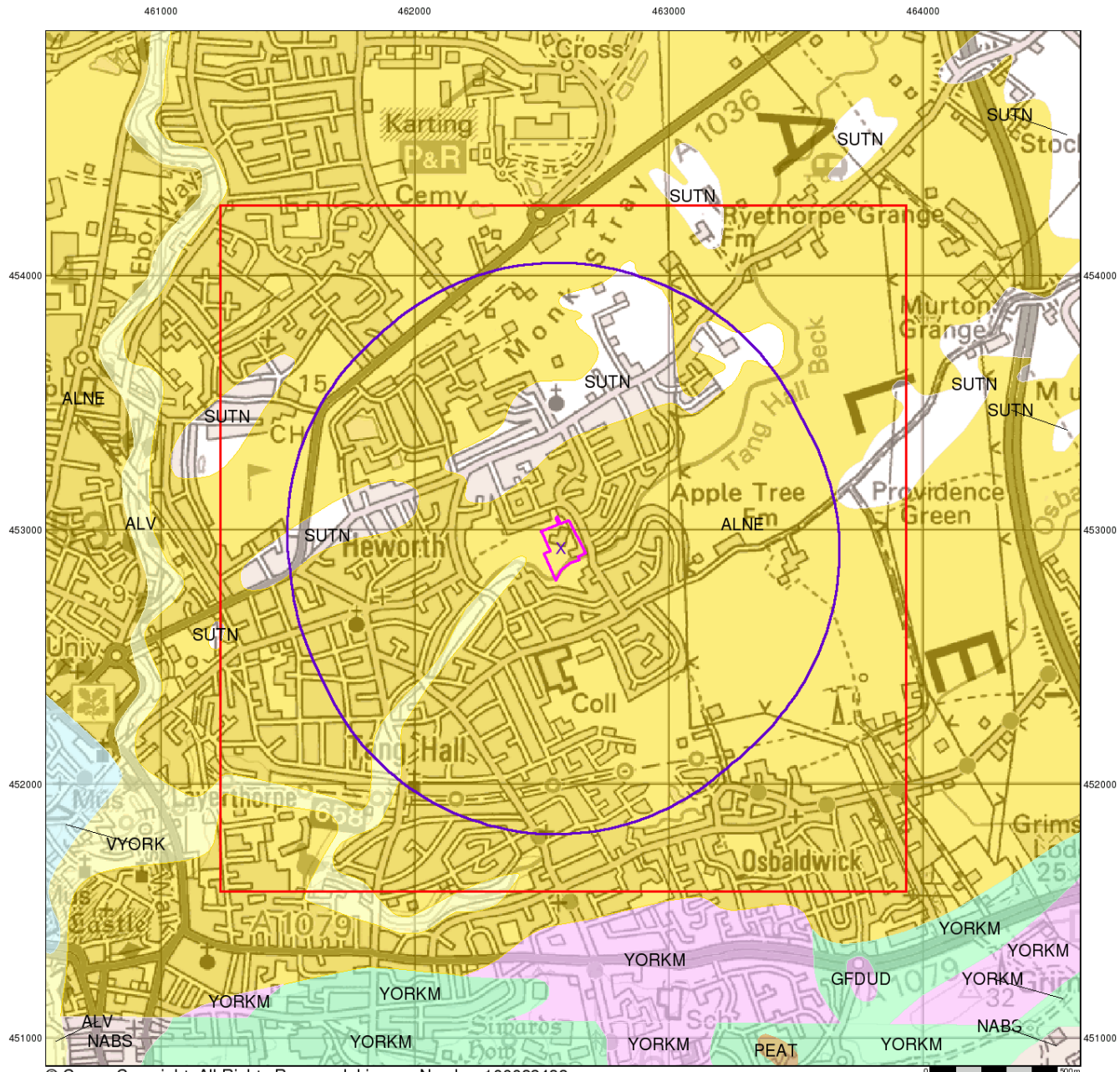
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 Customer Reference: 100418273 (note: to transfer to Hempland)  
 National Grid Reference: 462570, 452930  
 Slice: A  
 Site Area (Ha): 2.22  
 Search Buffer (m): 1000

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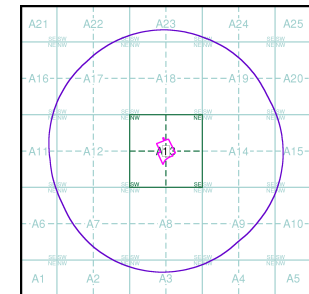
**Superficial Geology**

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: 285631777\_1\_1  
 Customer Reference: 100418273 (note: to transfer to Hempland)  
 National Grid Reference: 462570, 452930  
 Slice: A  
 Site Area (Ha): 2.22  
 Search Buffer (m): 1000

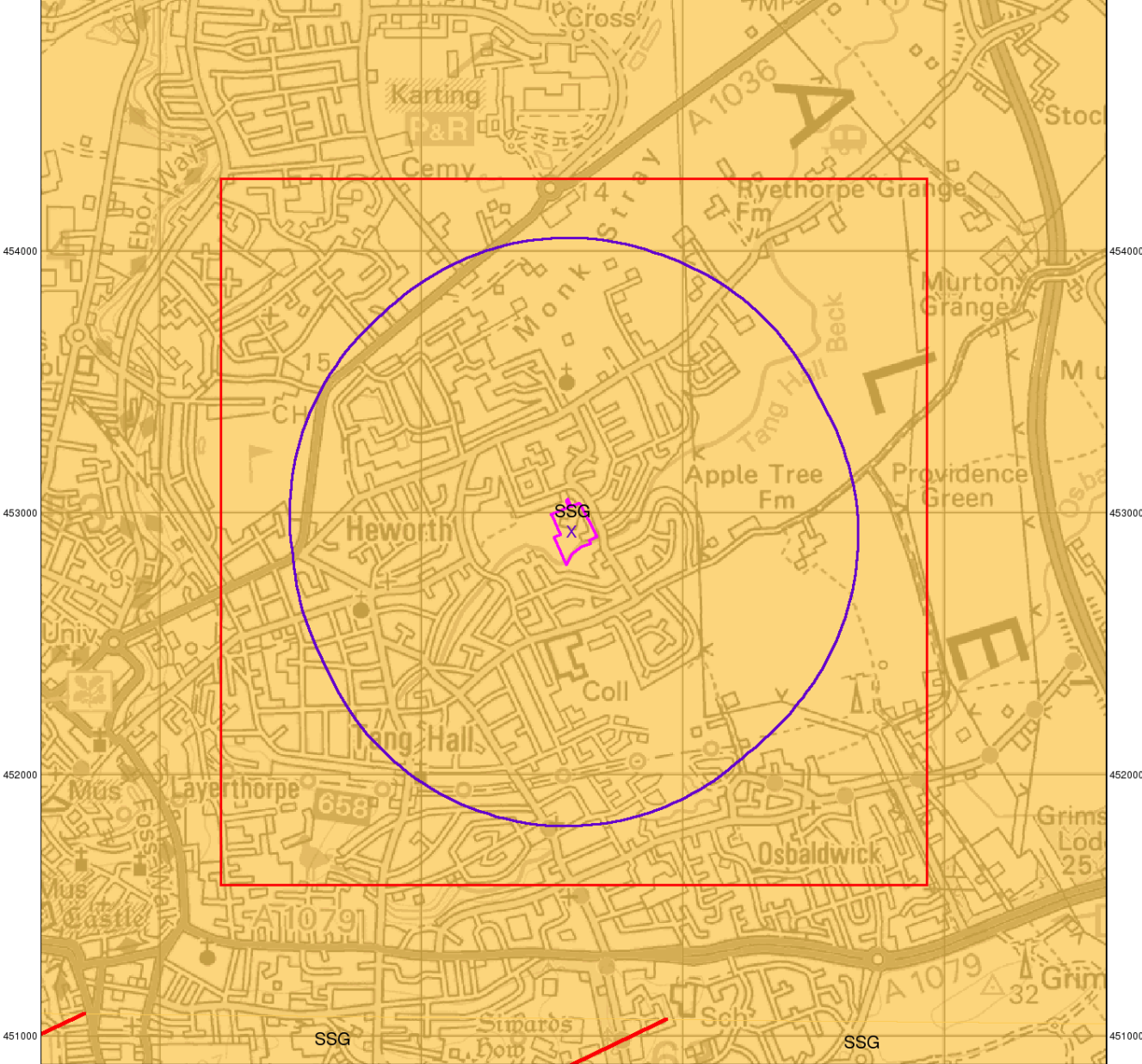
**Site Details:**

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**MOTT**  
**MACDONALD**

**Bedrock and Faults**

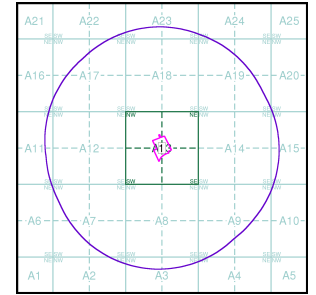
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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 (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

**Bedrock and Faults Map - Slice A**



**Order Details:**

Order Number:	285631777_1_1
Customer Reference:	100418273 (note: to transfer to Hempland)
National Grid Reference:	462570, 452930
Slice:	A
Site Area (Ha):	2.22
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