

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

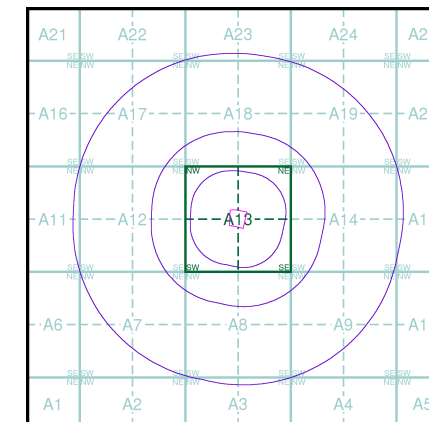
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

Intégral Géotechnique

General

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

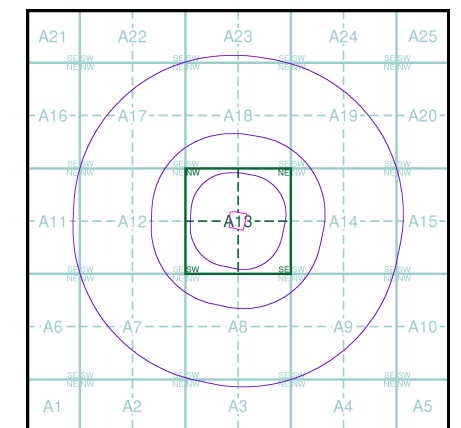
OS Water Network Data

- | | |
|--------------|-------------------------|
| Canal | Drain |
| Reservoir | Other |
| Foreshore | Lake |
| Marsh | Transfer |
| Tidal River | Lock Or Flight Of Locks |
| Inland River | Sea |

Contours (height in meters)

- Standard Contour 105 100 95
- Master Contour
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



Order Details

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Customer Ref: 14043/LP
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Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

Landmark
INFORMATION GROUP

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

Intégral Géotechnique

General

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

Risk of Flooding from Surface Water

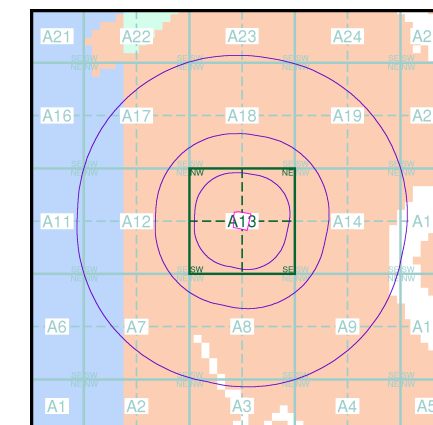
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

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

E/NRW Suitability Map - Slice A



Order Details

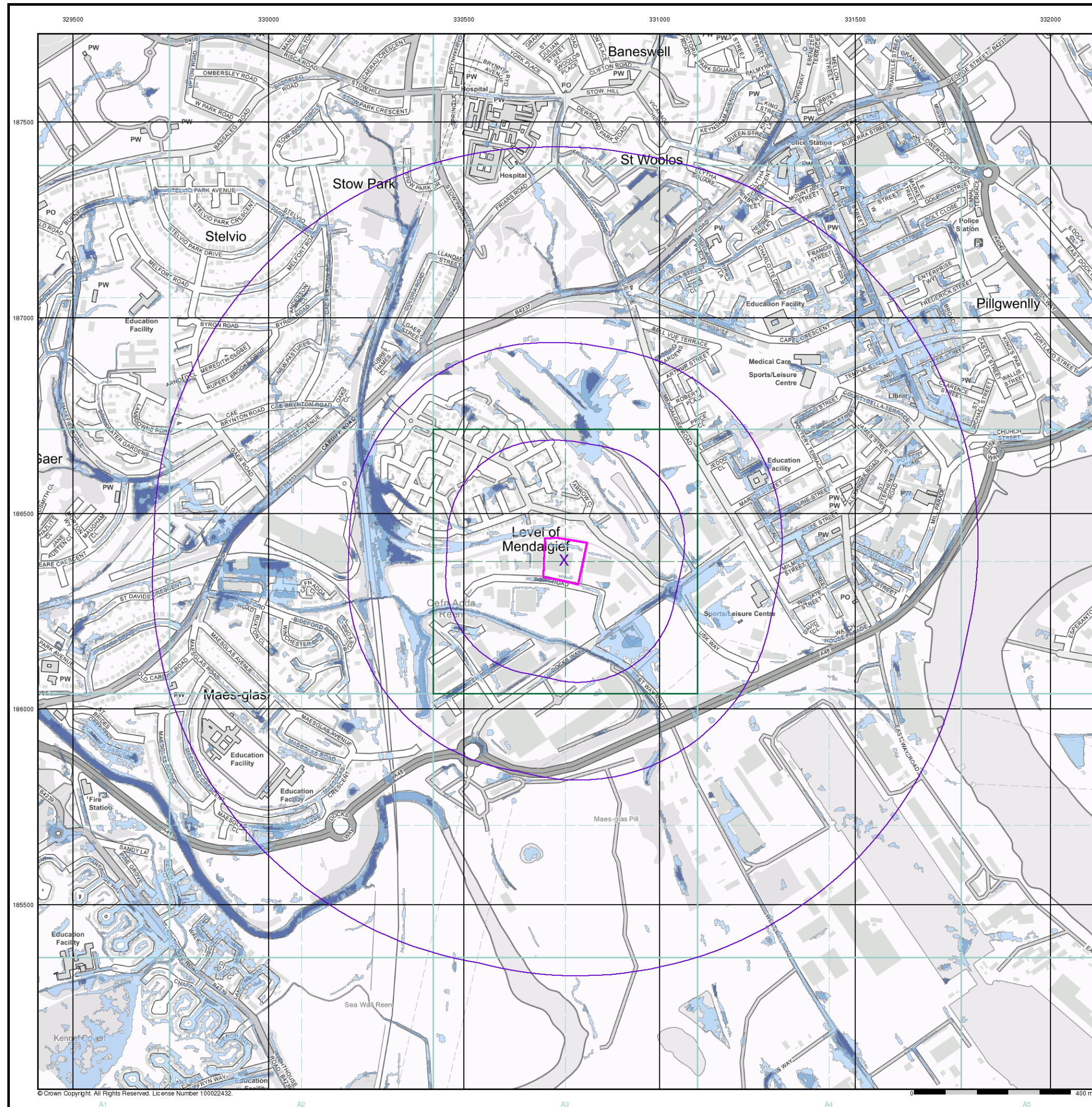
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Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

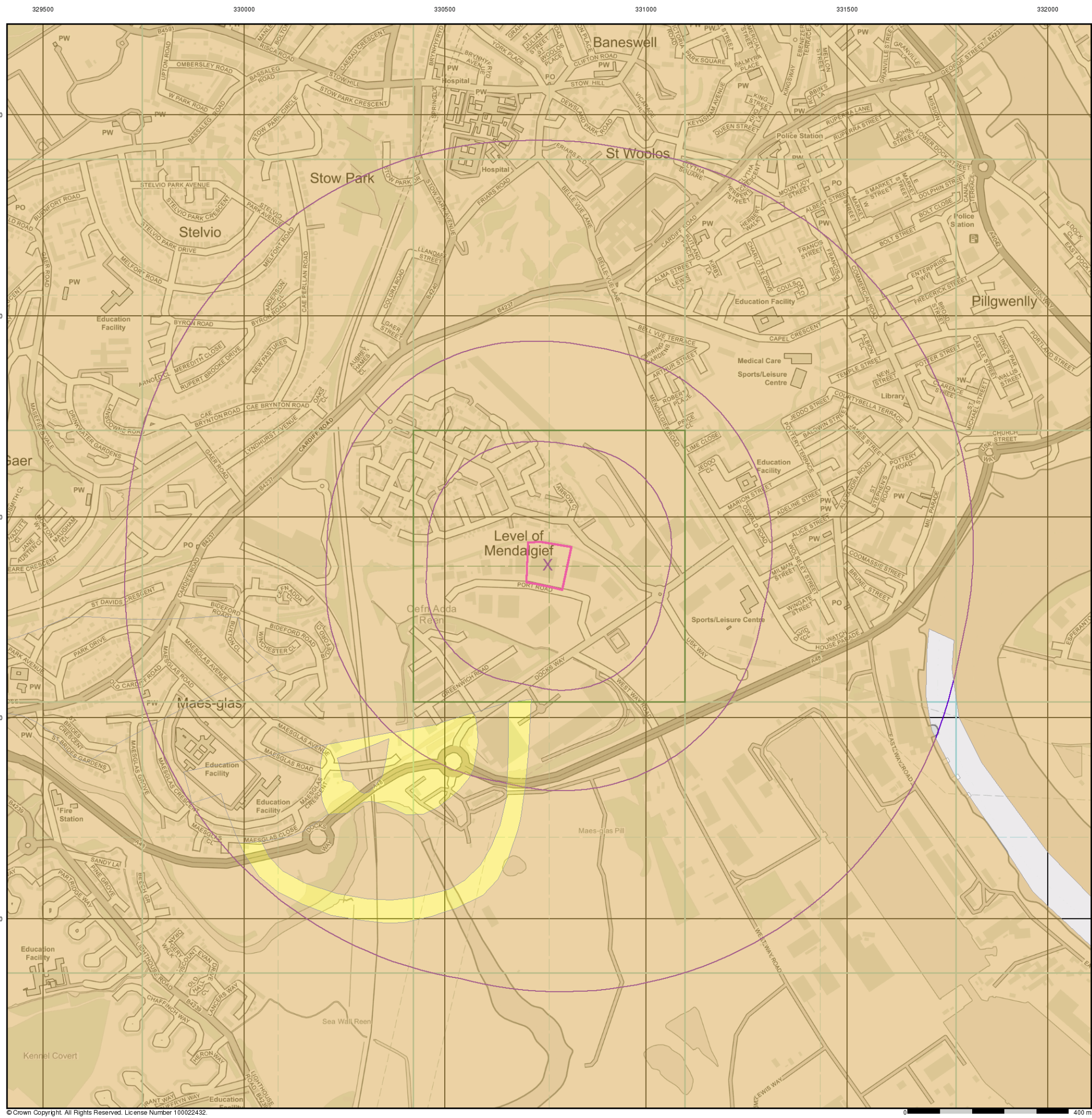
Site Details

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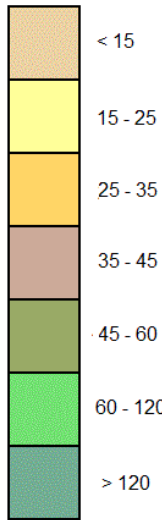
Intégral Géotechnique

General

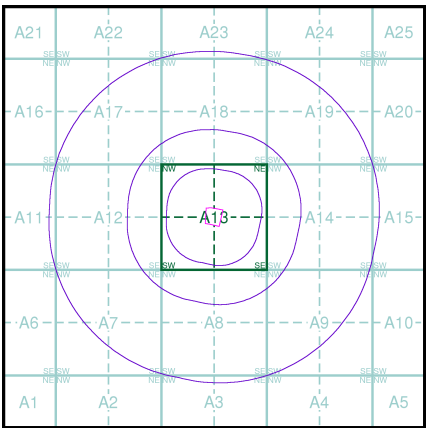
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A



Order Details

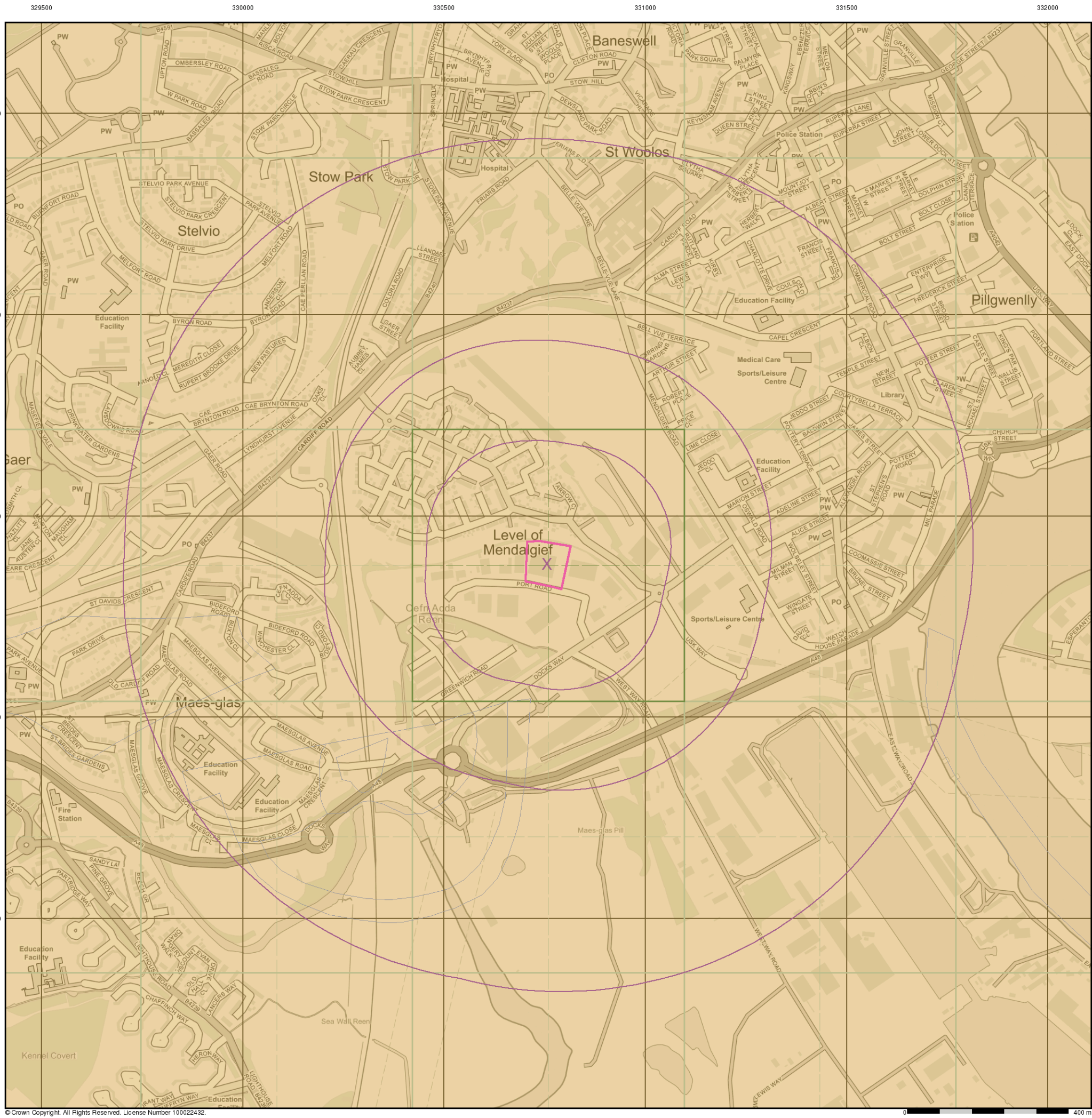
Order Details: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

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INFORMATION GROUP

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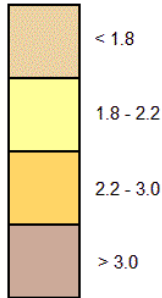
Intégral Géotechnique

General

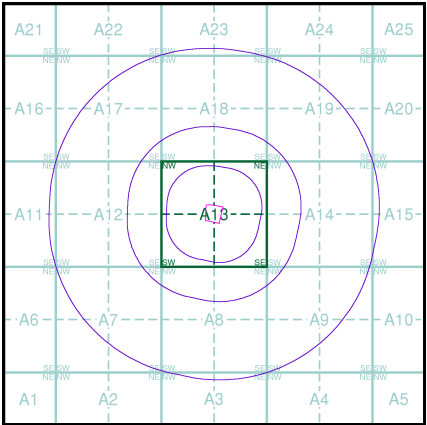
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

Order Details: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

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INFORMATION GROUP

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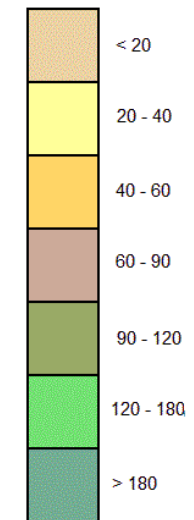
Intégral Géotechnique

General

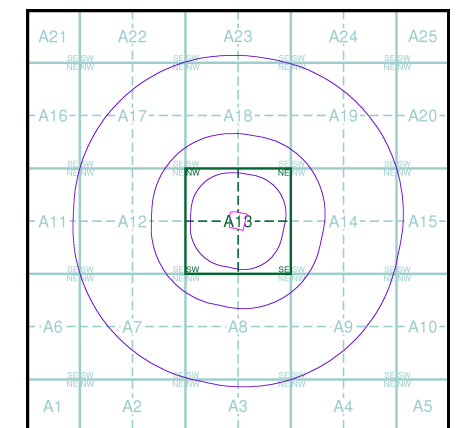
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

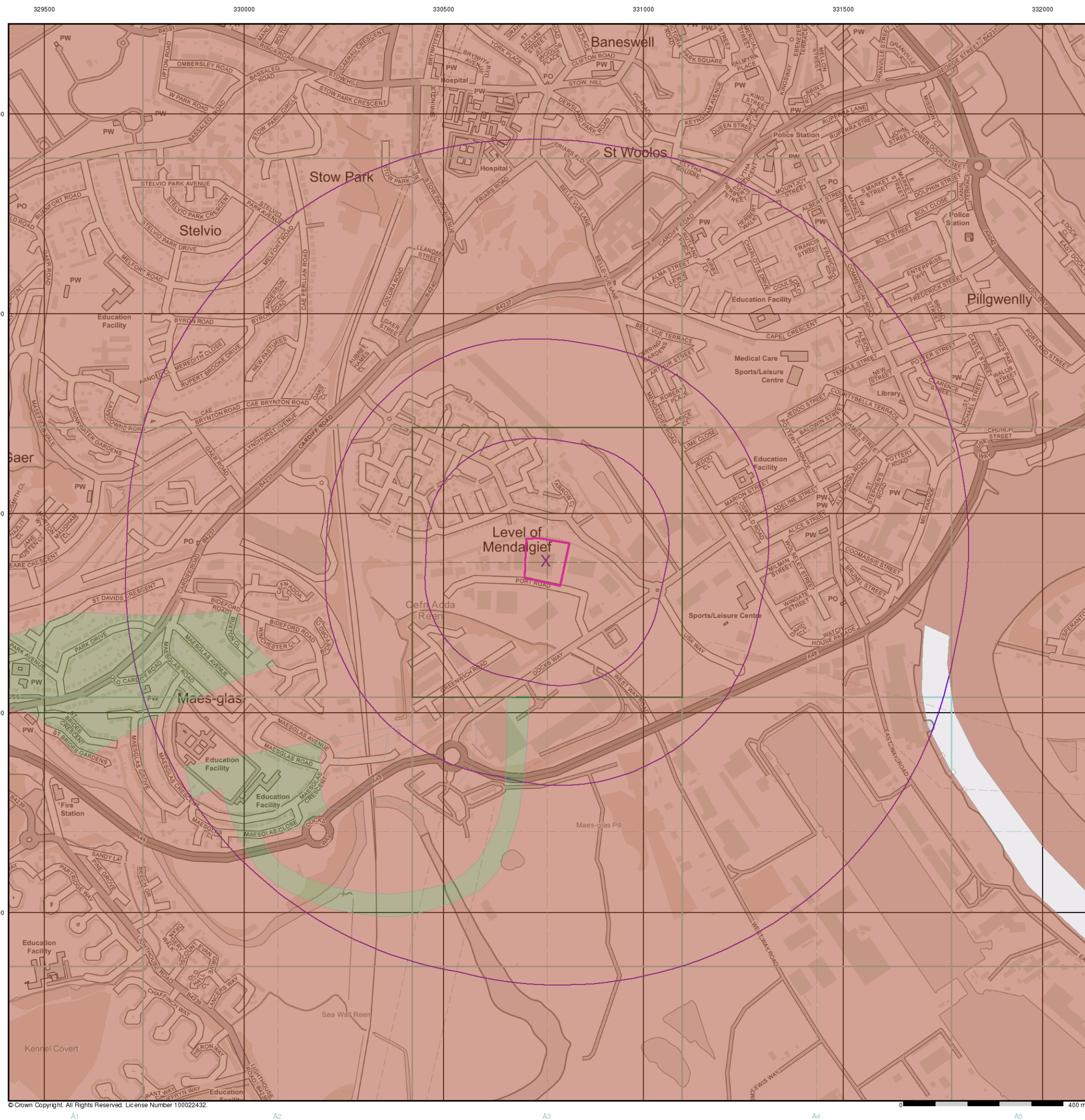
Order Details: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

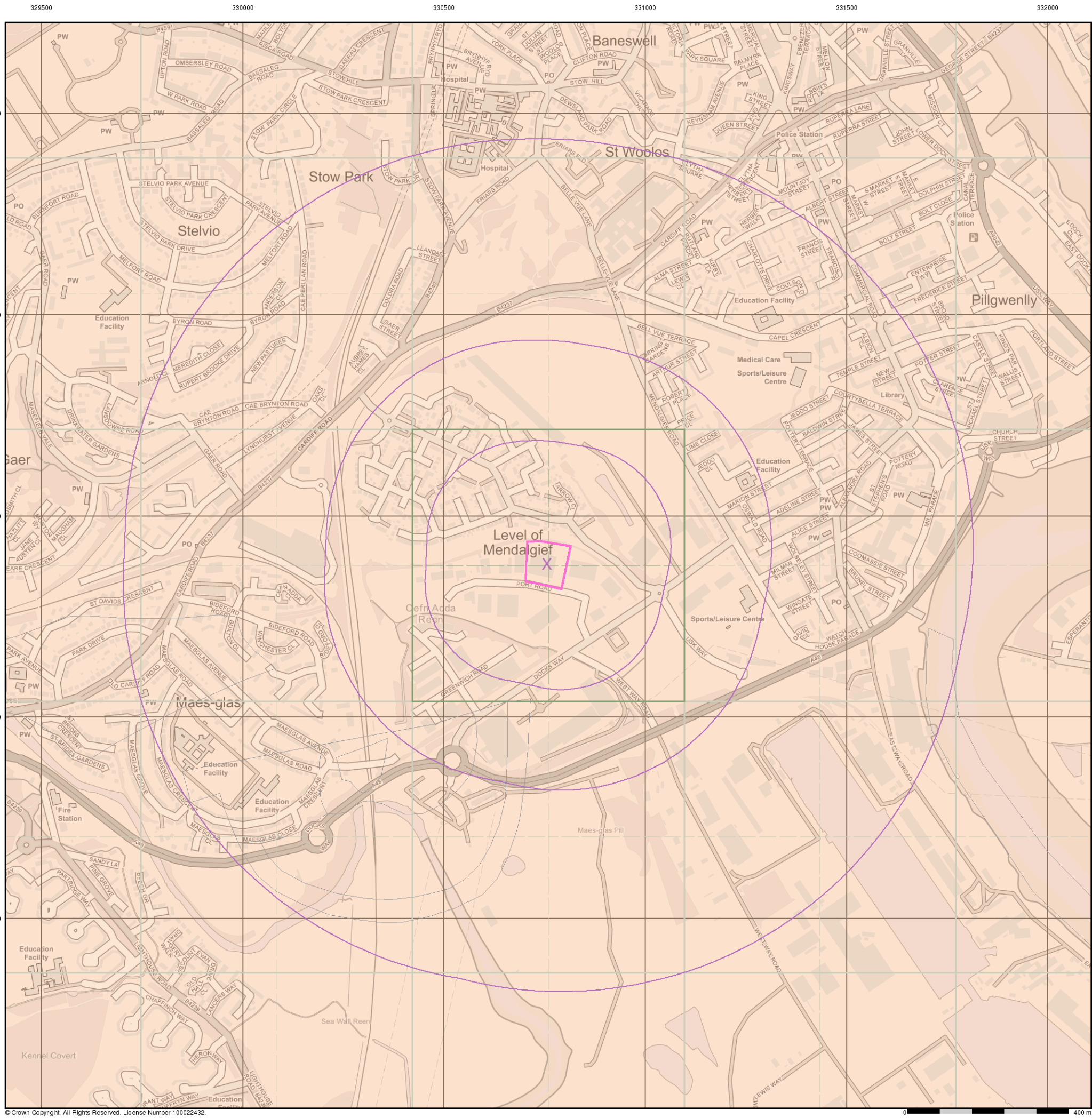
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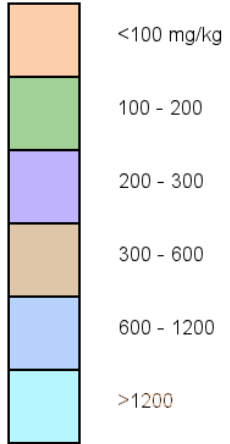
Intégral Géotechnique

General

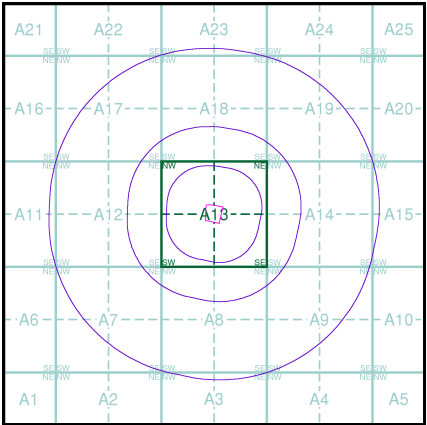
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

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Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

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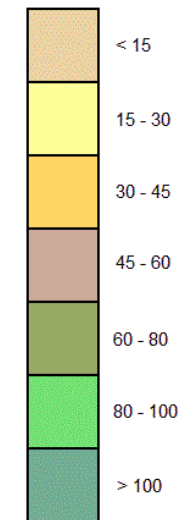
Intégral Géotechnique

General

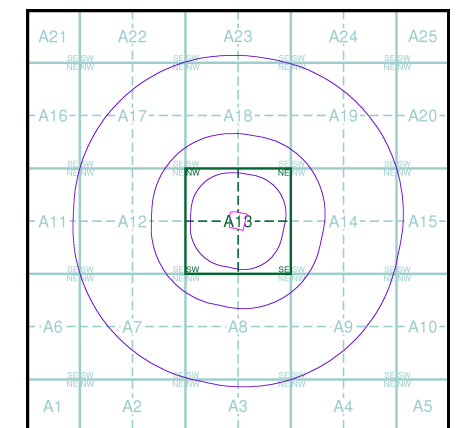
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

Landmark
INFORMATION GROUP

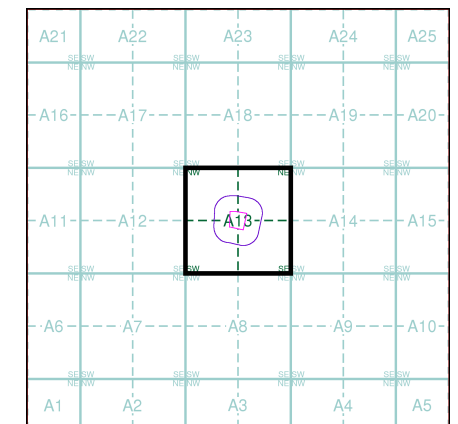
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Intégral Géotechnique

General

- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Types 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 Integrated Pollution Prevention and 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
- ## Hazardous Substances
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
 - BGS Recorded Mineral Site
- ## 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
- ## Geological
- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Plot Buffer (m): 100

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

Landmark
INFORMATION GROUP

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

Geology 1:50,000 Maps Legends

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	TFD	Tidal Flat Deposits	Clay and Silt	Not Supplied - Holocene
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	RTDU	River Terrace Deposits (Undifferentiated)	Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	PNG	Penarth Group	Mudstone	Not Supplied - Rhaetian
	BLI	Blue Lias Formation	Limestone and Mudstone, Interbedded	Not Supplied - Rhaetian
	MMG	Mercia Mudstone Group	Mudstone	Not Supplied - Early Triassic
	SMG	St Maughans Formation	Argillaceous Rocks and [Subequal/Subordinate] Sandstone, Interbedded	Not Supplied - Early Devonian
	SMG	St Maughans Formation	Sandstone	Not Supplied - Early Devonian
	RG	Raglan Mudstone Formation	Mudstone and Sandstone, Interbedded	Not Supplied - Pridoli
	RG	Raglan Mudstone Formation	Sandstone	Not Supplied - Pridoli
		Faults		

Intégral Géotechnique

Geology 1:50,000 Maps

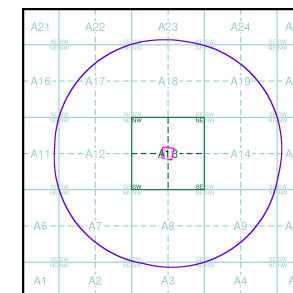
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published 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:	249
Map Name:	Newport
Map Date:	1969
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Available
Faults:	Not Supplied
Landslip:	Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

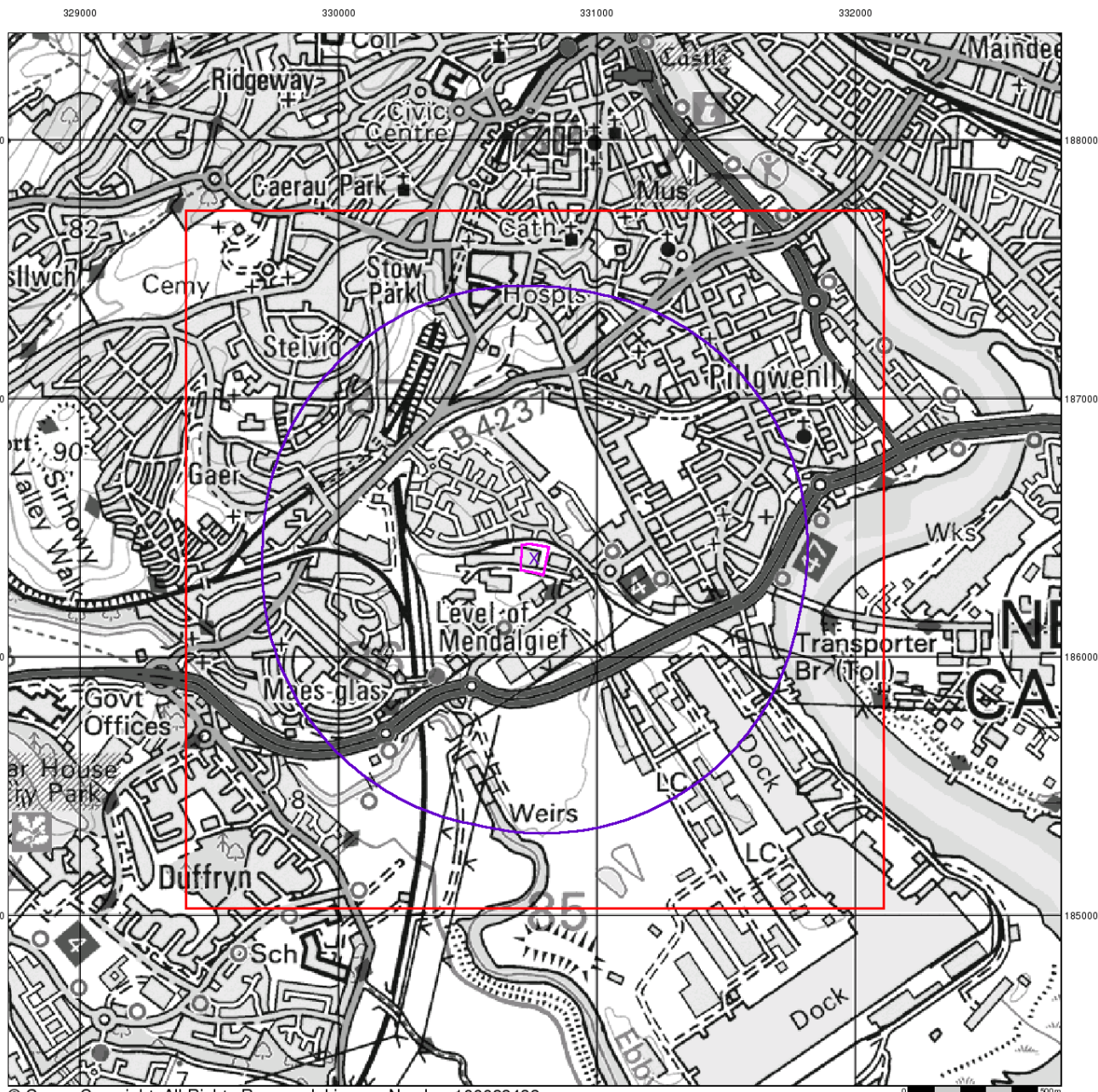
Order Number:	295824796_1_1
Customer Reference:	14043/LP
National Grid Reference:	330760, 186380
Slice:	A
Site Area (Ha):	1.05
Search Buffer (m):	1000

Site Details:

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

Landmark
INFORMATION GROUP

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



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Intégral Géotechnique

Artificial Ground and Landslip

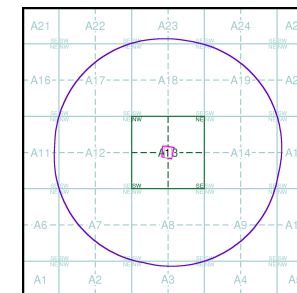
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Order Number:	295824796_1_1
Customer Reference:	14043/LP
National Grid Reference:	330760, 186380
Slice:	A
Site Area (Ha):	1.05
Search Buffer (m):	1000

Site Details:

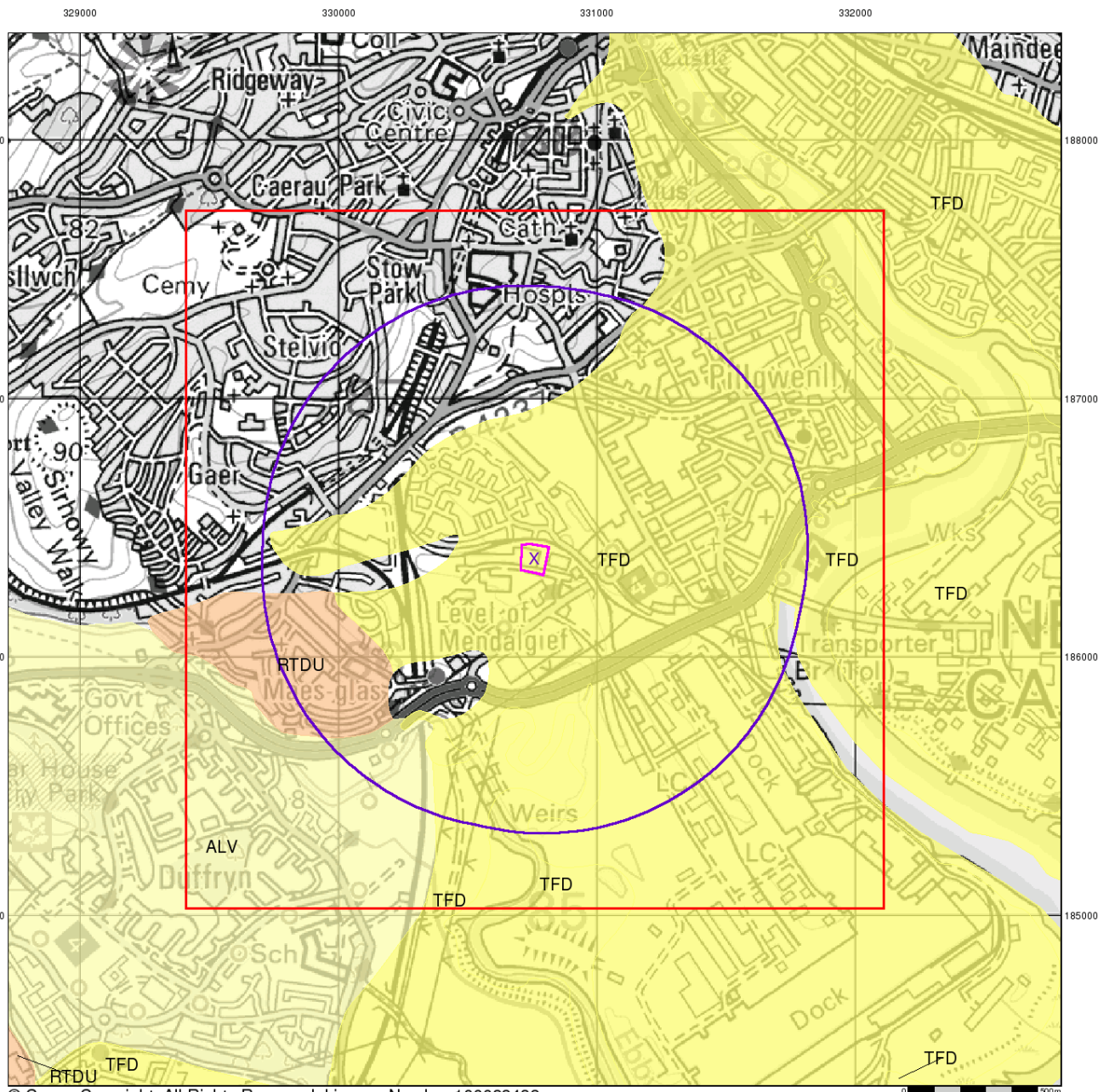
Unit 10, Maesglas Retail Park, Newport, NP20 2NS

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v15.0 20-May-2022

Page 2 of 5



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Intégral Géotechnique

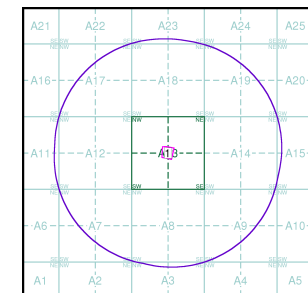
Superficial Geology

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: 295824796_1_1
 Customer Reference: 14043/LP
 National Grid Reference: 330760, 186380
 Slice: A
 Site Area (Ha): 1.05
 Search Buffer (m): 1000

Site Details:

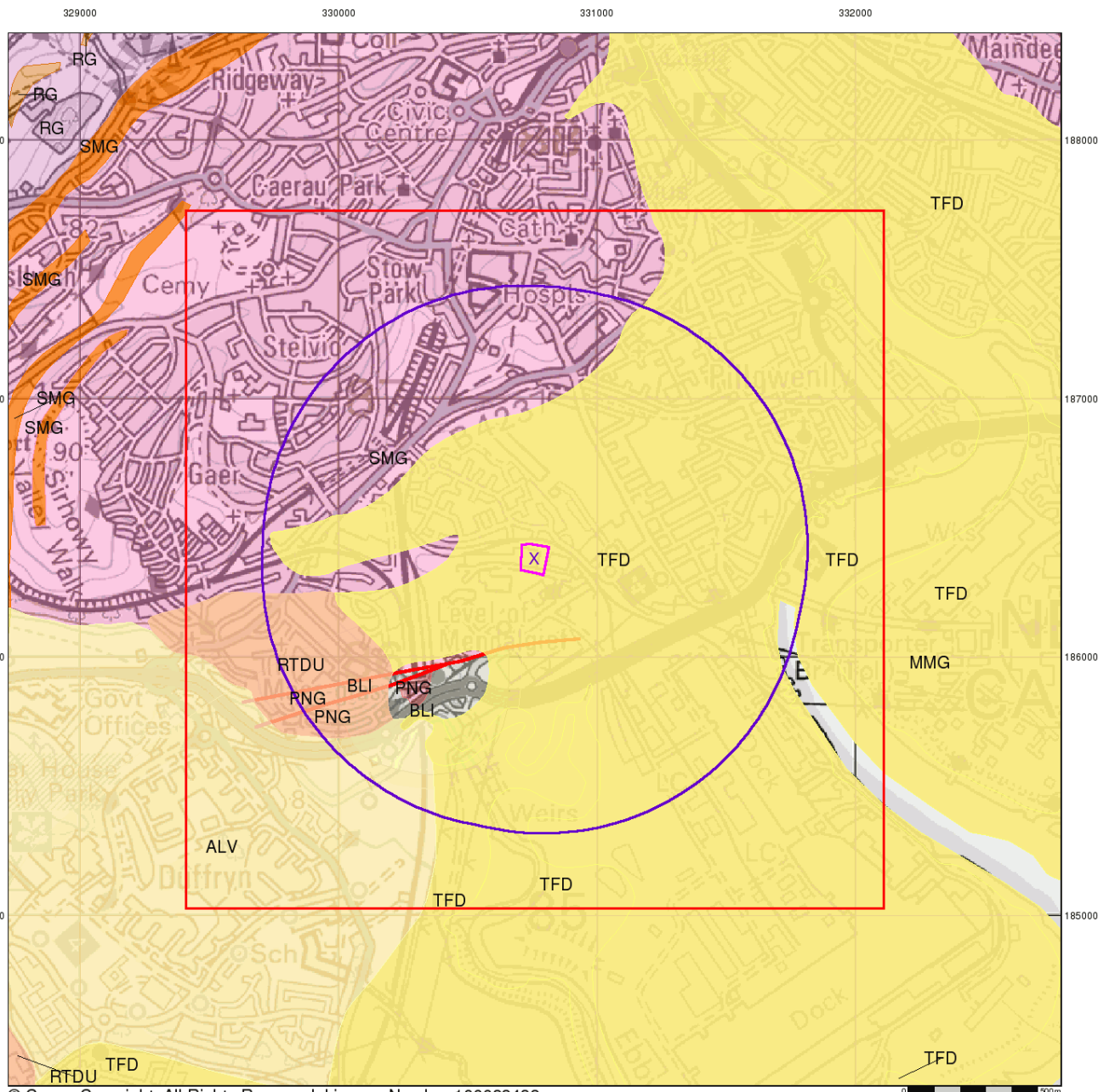
Unit 10, Maesglas Retail Park, Newport, NP20 2NS

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Page 3 of 5



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Intégral Géotechnique

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.

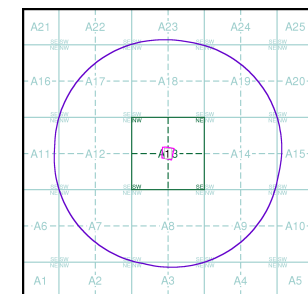
Additional Information

More information on 1:50,000 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
Kingsley Dunham Centre
Keyworth
Nottingham
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



Order Details:

Order Number: 295824796_1_1
Customer Reference: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
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v15.0 20-May-2022

Page 5 of 5

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	•285 Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		Administrative County, County Borough or County of City
	Municipal Borough, Urban or Rural District, Burgh or District Council		Borough, Burgh or County Constituency
	Civil Parish		
	BP, BS Boundary Post or Stone		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

1:10,000 Raster Mapping

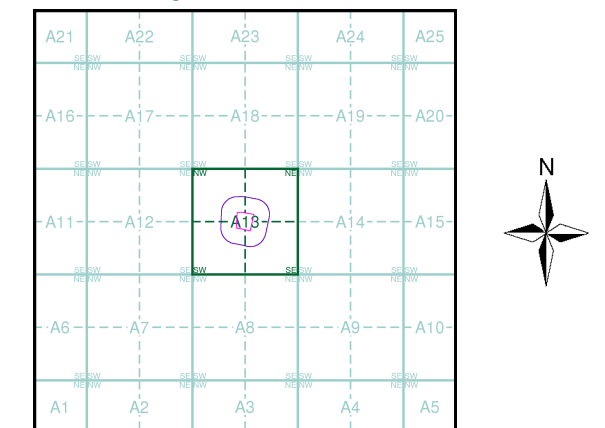
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
	Area of wooded vegetation		Non-coniferous trees
	Non-coniferous trees (scattered)		Coniferous trees
	Coniferous trees (scattered)		Positioned tree
	Orchard		Coppice or Osiers
	Rough Grassland		Heath
	Scrub		Marsh, Salt Marsh or Reeds
	Water feature		Flow arrows
	Mean high water (springs)		Mean low water (springs)
	Telephone line (where shown)		Electricity transmission line (with poles)
	Bench mark (where shown)		Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)		Pylon, flare stack or lighting tower
	Site of (antiquity)		Glasshouse
	General Building		Important Building

Intégral Géotechnique

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:10,560	1887	3
Monmouthshire	1:10,560	1902	4
Monmouthshire	1:10,560	1922	5
Monmouthshire	1:10,560	1938	6
Historical Aerial Photography	1:10,560	1947	7
Historical Aerial Photography	1:10,560	1947	8
Monmouthshire	1:10,560	1954	9
Ordnance Survey Plan	1:10,000	1964 - 1965	10
Ordnance Survey Plan	1:10,000	1972 - 1973	11
Ordnance Survey Plan	1:10,000	1981 - 1982	12
Newport	1:10,000	1983	13
Ordnance Survey Plan	1:10,000	1987	14
Ordnance Survey Plan	1:10,000	1992	15
10K Raster Mapping	1:10,000	1999	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2021	18

Historical Map - Slice A



Order Details

Order Number: 295824796_1_1
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Slice: A
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Search Buffer (m): 1000

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Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings

Military and Industrial Buildings

Military and Communication Areas

Subway Entrance

Fireproof Building

Prominent Fireproof Building

Non-fireproof Building

Non-fireproof Building (non-dwelling)

Factory, mill, and flour mill, with chimneys

Factory, mill, and flour mill, without chimneys

Power Station, drawn to scale

Hydroelectric Power Station

Radio Station, drawn to scale

Telephone Station, drawn to scale

Abandoned Open-pit Mine or Quarry

Open-pit Salt Mine

Pit

Oil Deposit or Well

Oil Seepage

Tailings Pile

Fuel Storage Tanks

Natural Gas Tank

Bench Mark

Drill Hole

Burial Mound

Triangulation Point on Burial Mound

Single-track Railroad

Double-track Railroad

Railroad and Station Building

Coniferous Forest

Deciduous Forest

Mixed Forest

Lawns

Citrus Orchard

Wet Ground

Scattered Vegetation

243.8 Values for prominent elevations
186.0 Numbers for spot elevations, depth soundings, contour lines, etc.
0.2 Velocity of the current, width of river bed, depth of river
180/12 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

Russian Alphabet (For reference and phonetic interpretation of map text)

А а (A)	З з (Z)	П п (P)	Ч ч (CH)
Б б (B)	И и (I)	Р р (R)	Ш ш (SH)
В в (V)	Й й (Y)	С с (S)	Щ щ (SHCH)
Г г (G)	К к (K)	Т т (T)	Ъ (-)
Д д (D)	Л л (L)	У у (U)	Ы (Y)
Е е (E)	М м (M)	Ф ф (F)	Ь (')
Ё ё (YO)	Н н (N)	Х х (KH)	Э э (E)
Ж ж (ZH)	О о (O)	Ц ц (TS)	Ю ю (YU or IU)
			Я я (YA or IA)

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings

Military and Industrial Buildings

Military and Communication Areas

Subway Entrance

Partly Demolished Buildings

Demolished Buildings

Built-Up Area with Fireproof Buildings Predominant

Built-Up Area with Non-Fireproof Buildings Predominant

Individual Fireproof Building

Prominent Industrial Building

Individual Dwelling, Fireproof

Ruins of an Individual Dwelling

Factory or Mill Chimney

Factory or Mill with Chimney

Factory or Mill without Chimney

Mine or Open Pit Mine

Operating Shaft or Mine

Non-Operating Shaft or Mine

Salt Mine

Tailings Pile

Pit

Stone Quarry

Gas Pump or Service Station

Fuel Storage or Natural Gas Tank

Oil or Natural Gas Derrick

Small Hydroelectric Power Station

Power Station

Transformer Station

Cemetery

Burial Mound (height in metres)

Triangulation Point on Burial Mound

Triangulation Point

Bench Mark

Bench Mark (monumented)

Telegraph Office

Telephone Station

Radio Station

Radio Tower

Airfield or Seaplane Base

Landing Strip

Telegraph/Telephone Lines

Main Highway

Highway under Construction

Improved Dirt Road (former truck road)

Double-track Railroad with First Class Station

Railroad Under Construction

Shore Embankment

River or Ditch with Embankment

Water Gauge

Well

Water Reservoir or Rain Water Pit

Spring

Isobath with value

Heavy (Index) Contour Line

Contour Line and Value

Half Contour Line

Spot Elevation Value

Coniferous

Deciduous

Mixed

Scrub

Key to Numbers on Mapping

ST28NE_Newport

No.	Description
57	Post Office

ST38NW_Newport

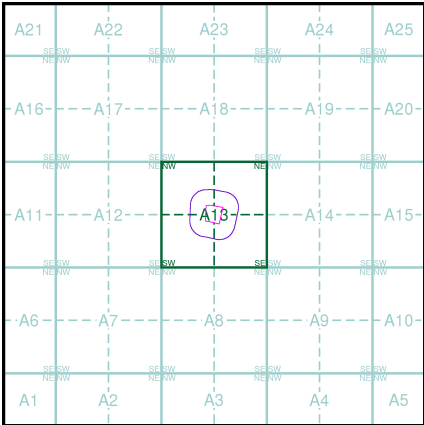
No.	Description
3	Dockyard (Ship Building And Repairs)
5	Factories (Instruments And Metal Works) And Industrial Buildings (Use Unknown)
7	Depot (Railway)
22	Factory (Metal Works) And Mill (Steel)
28	Factories (Cars And Lubricant Oils)
66	Water Pumping Station
67	Railway Station
72	Railway Station
74	Railway Station
77	Railway Station

Intégral Géotechnique

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:10,560	1887	3
Monmouthshire	1:10,560	1902	4
Monmouthshire	1:10,560	1922	5
Monmouthshire	1:10,560	1938	6
Historical Aerial Photography	1:10,560	1947	7
Historical Aerial Photography	1:10,560	1947	8
Monmouthshire	1:10,560	1954	9
Ordnance Survey Plan	1:10,000	1964 - 1965	10
Ordnance Survey Plan	1:10,000	1972 - 1973	11
Ordnance Survey Plan	1:10,000	1981 - 1982	12
Newport	1:10,000	1983	13
Ordnance Survey Plan	1:10,000	1987	14
Ordnance Survey Plan	1:10,000	1992	15
10K Raster Mapping	1:10,000	1999	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2021	18

Russian Map - Slice A



Order Details

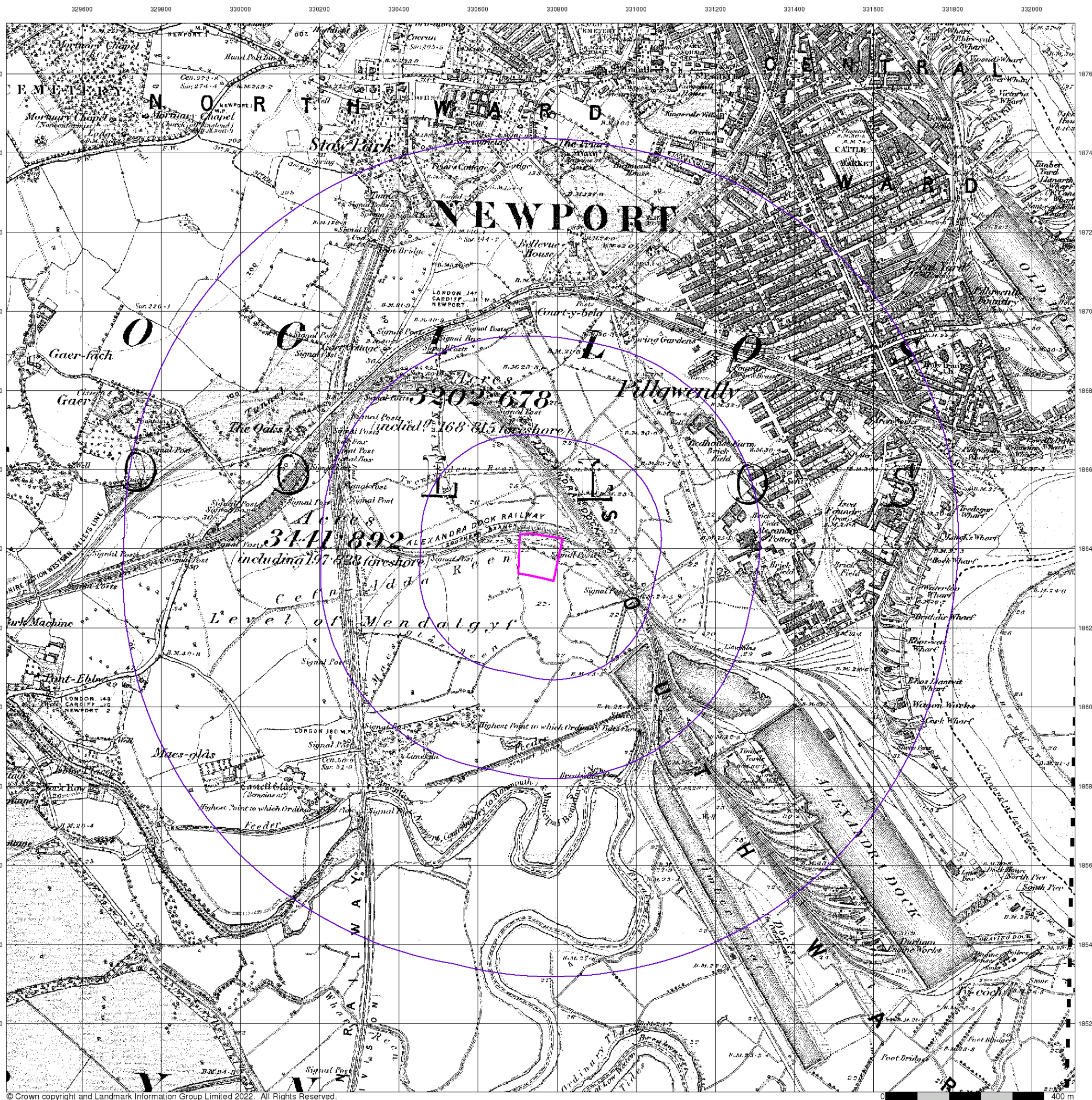
Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS



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Intégral Géotechnique

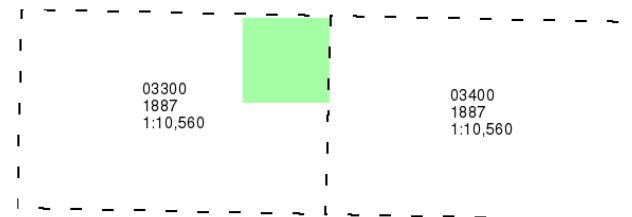
Monmouthshire

Published 1887

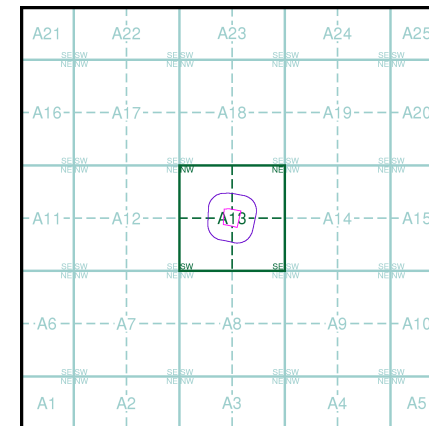
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

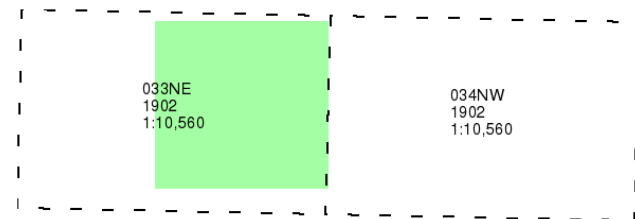
Unit 10, Maesglas Retail Park, Newport, NP20 2NS

Landmark
INFORMATION GROUP

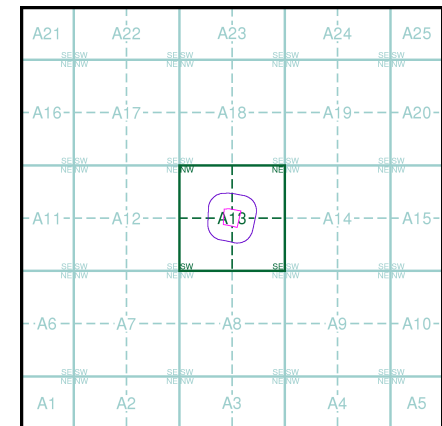
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

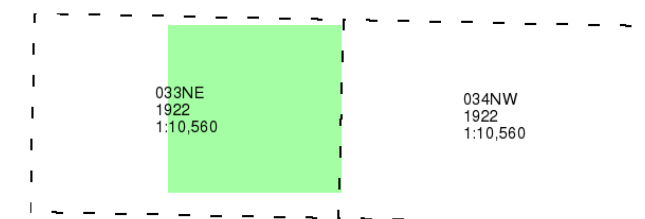
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Search Buffer (m): 1000

Site Details

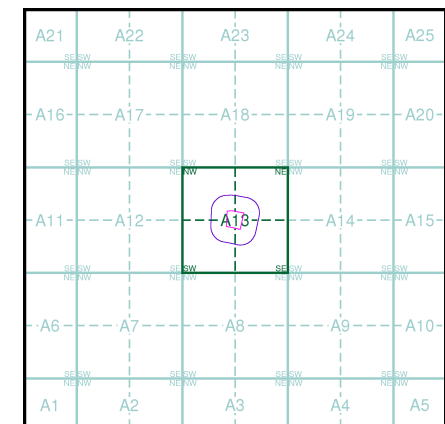
Unit 10, Maesglas Retail Park, Newport, NP20 2NS

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

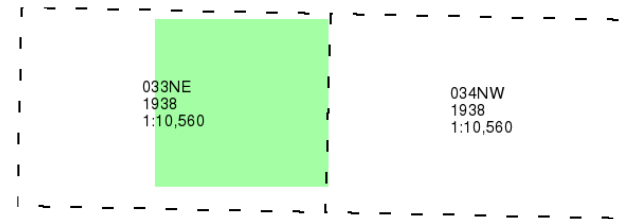
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National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

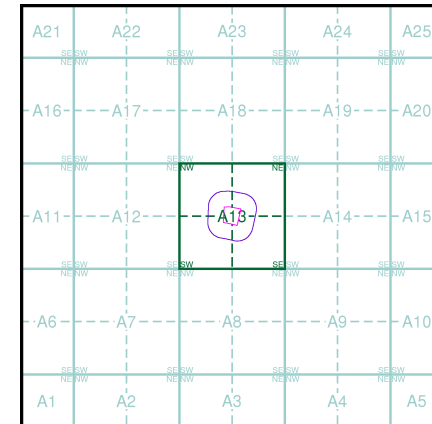
Unit 10, Maesglas Retail Park, Newport, NP20 2NS

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS



Historical Aerial Photography

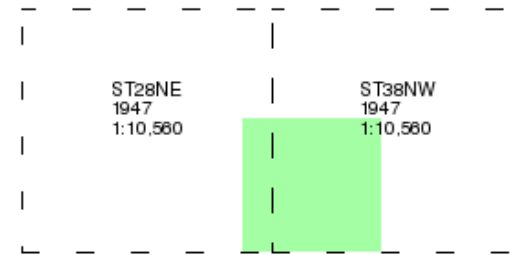
Published 1947

Source map scale - 1:10,560

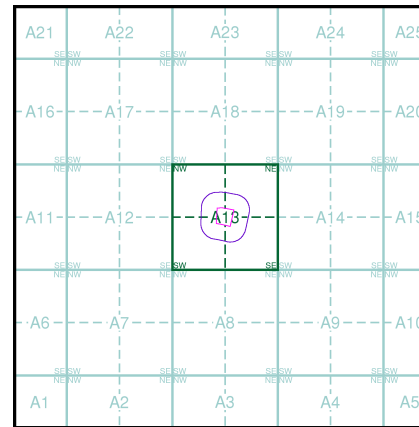
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

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Map Name(s) and Date(s)



Historical Aerial Photography - Slice A



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

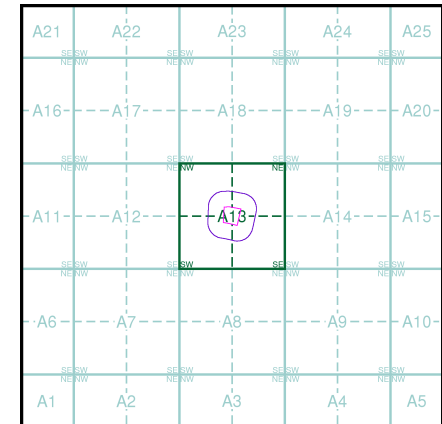
Unit 10, Maesglas Retail Park, Newport, NP20 2NS

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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Historical Map - Slice A



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

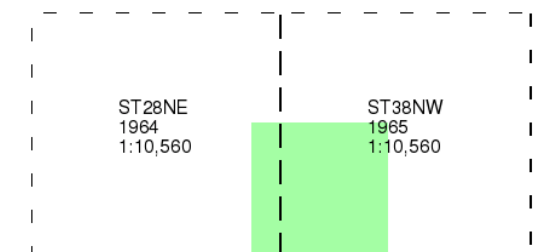
Ordnance Survey Plan

Published 1964 - 1965

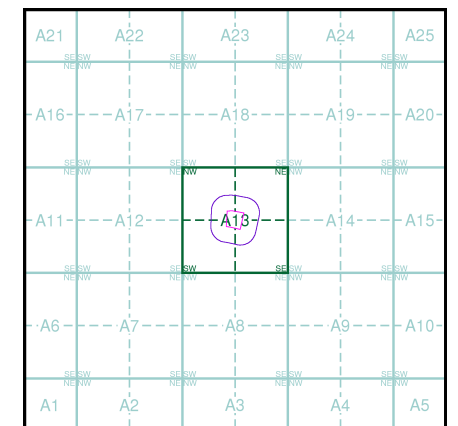
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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Historical Map - Slice A



Order Details

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Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
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Search Buffer (m): 1000

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

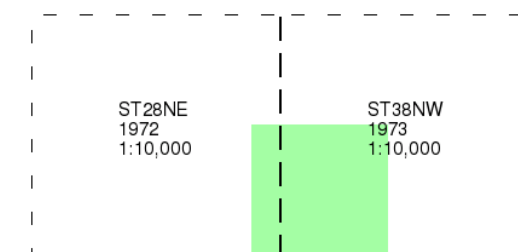
Ordnance Survey Plan

Published 1972 - 1973

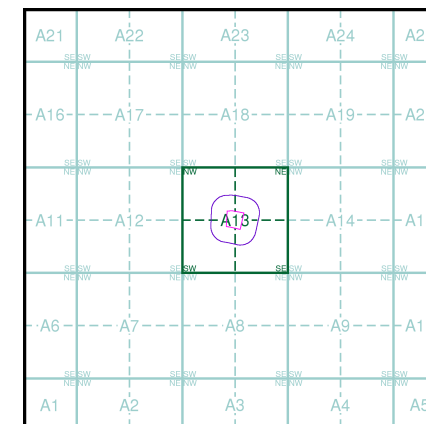
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS



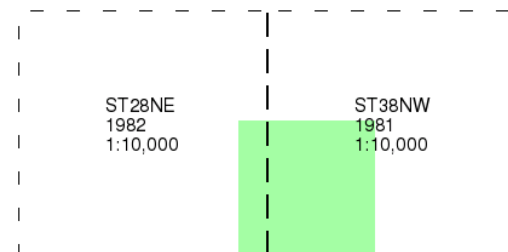
Ordnance Survey Plan

Published 1981 - 1982

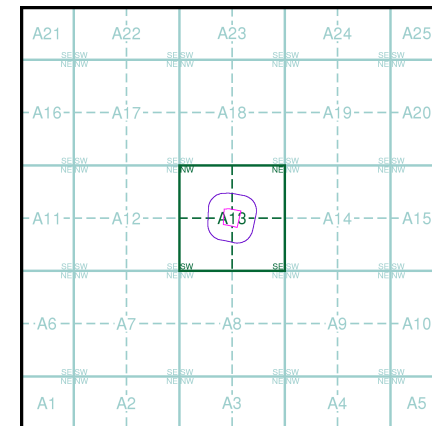
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS



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

Newport

Published 1983

Source map scale - 1:10,000

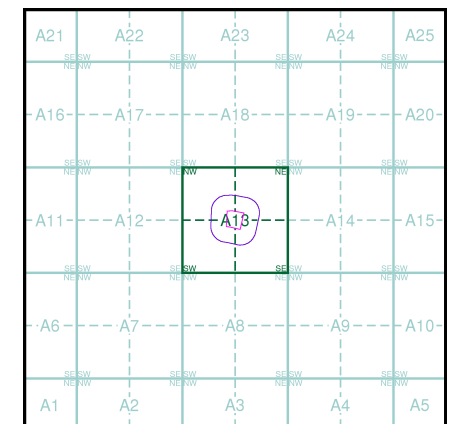
These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use.

They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

Map Name(s) and Date(s)

ST28NE 1983 1:10,000	ST38NW 1983 1:10,000
----------------------------	----------------------------

Russian Map - Slice A



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

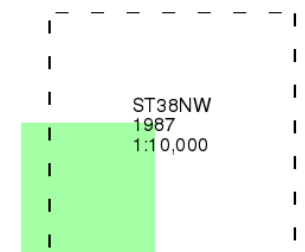
Ordnance Survey Plan

Published 1987

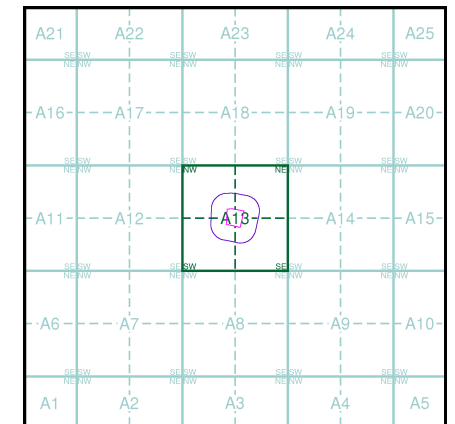
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS



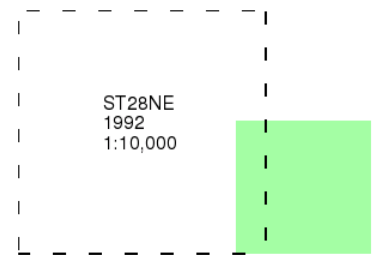
Ordnance Survey Plan

Published 1992

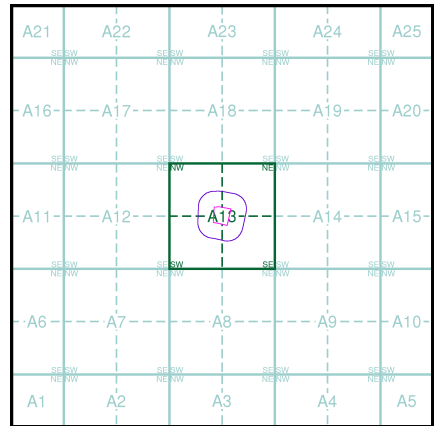
Source map scale - 1:10,000

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

Intégral Géotechnique

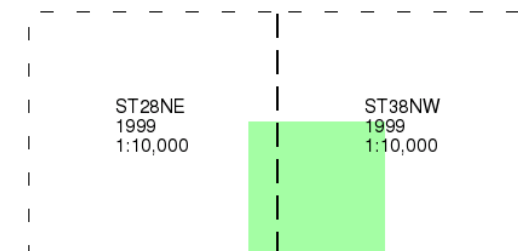
10k Raster Mapping

Published 1999

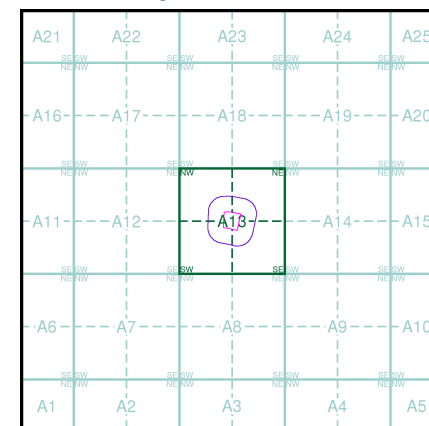
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

Landmark
INFORMATION GROUP

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

Intégral Géotechnique

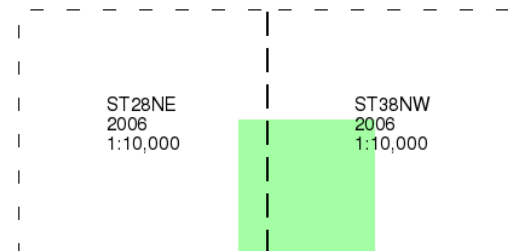
10k Raster Mapping

Published 2006

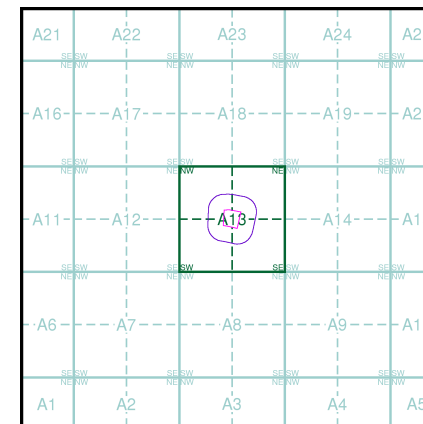
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

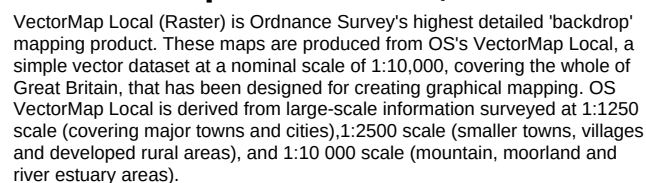
Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

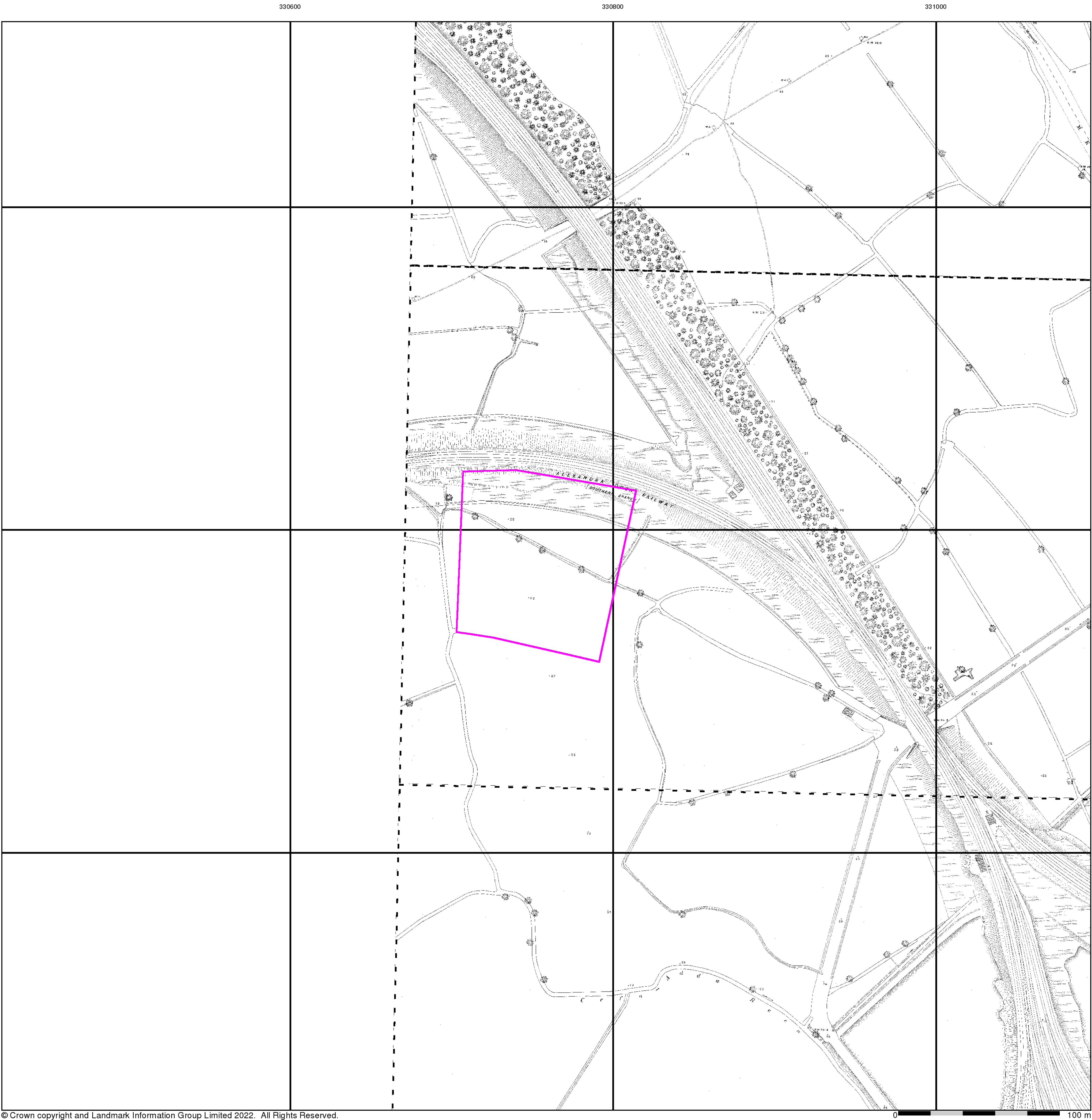
Landmark
INFORMATION GROUP

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Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Unit 10, Maesglas Retail Park, Newport, NP20 2NS



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Monmouthshire

Published 1883 - 1884

Source map scale - 1:500

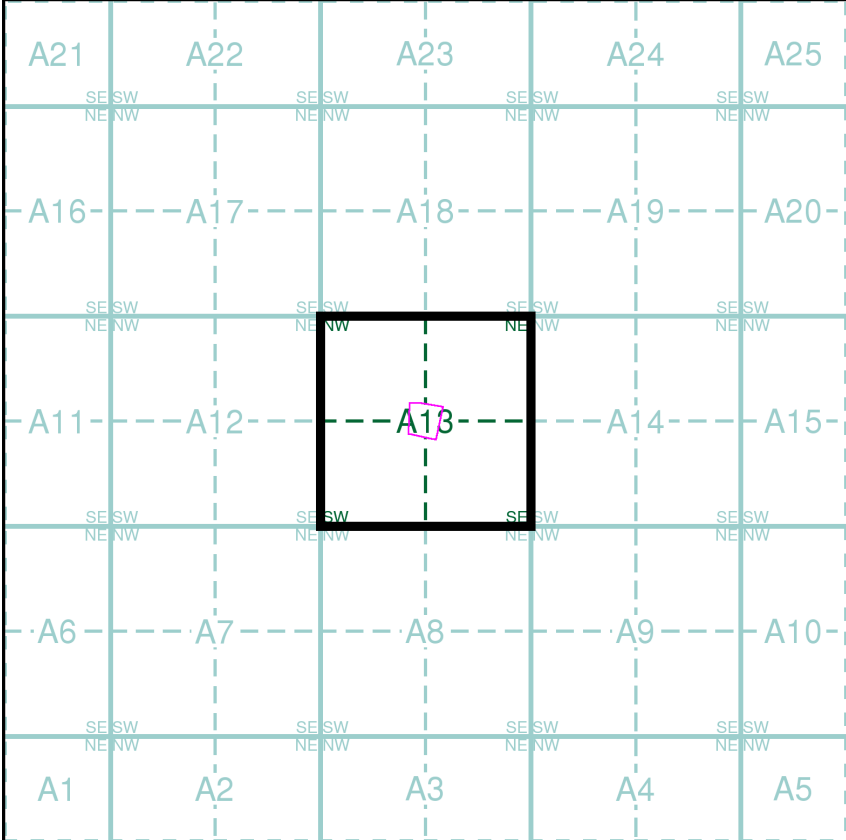
The 1:500 scale Ordnance Survey mapping was introduced in 1855 as a replacement for the 1:528 scale and to compliment the 1:2500 scale that had been implemented in 1853. By 1895, the 1:500 scale covered most towns over a population of about 4000 at the time of survey, although very few towns were mapped more than once at this scale, and none have been since 1910. The 1:500 scale gives particular emphasis to such features as lamp posts, man holes, arched passages and minor building projections. Also often featured are divisions between tenements, interior ground floor layouts of public buildings, and on earlier plans, the functions of the various parts of larger industrial premises are also indicated. Content of the plans does vary however, from one town to the next in terms of, for example, the completeness of railway tracks and the coverage of public buildings.

Please note: Due to the partial coverage of Historical Town Plans, it is possible that not all segments within an order will contain mapping. Only the segments that have Town Plan coverage will be generated.

Map Name(s) and Date(s)

033_04_018	1883	1:500
033_04_023	1884	1:500
033_08_003	1883	1:500

Historical Town Plan - Segment A13



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 0

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS



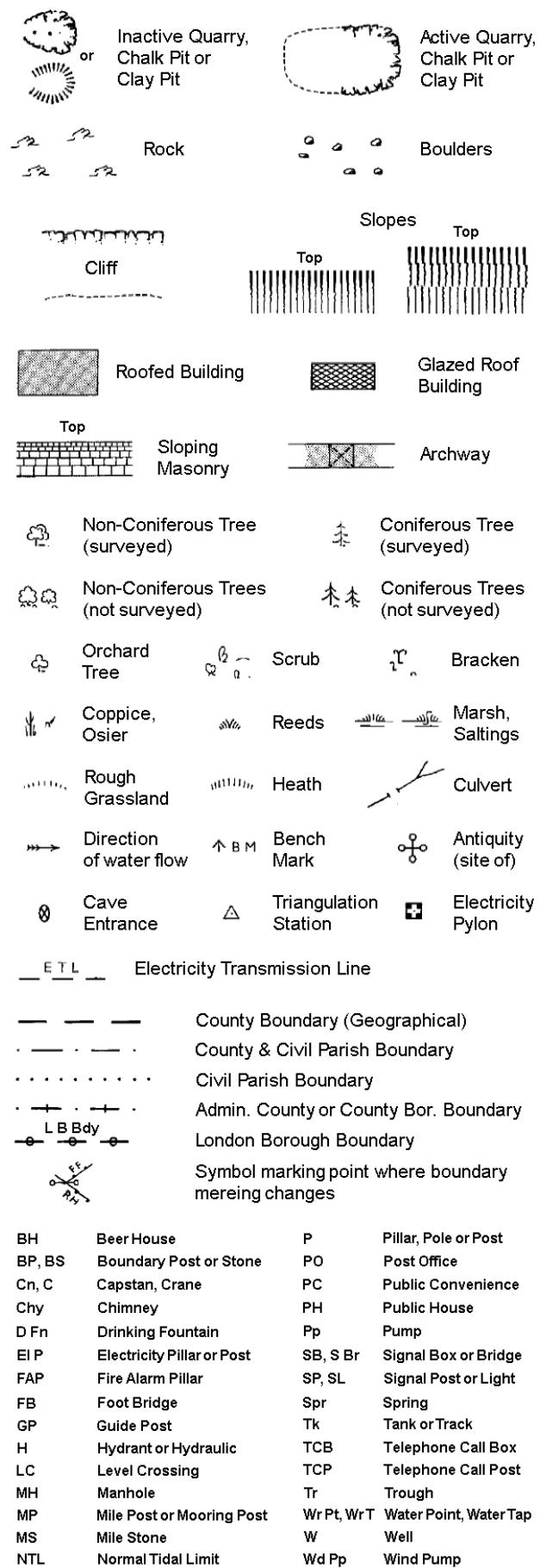
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Historical Mapping Legends

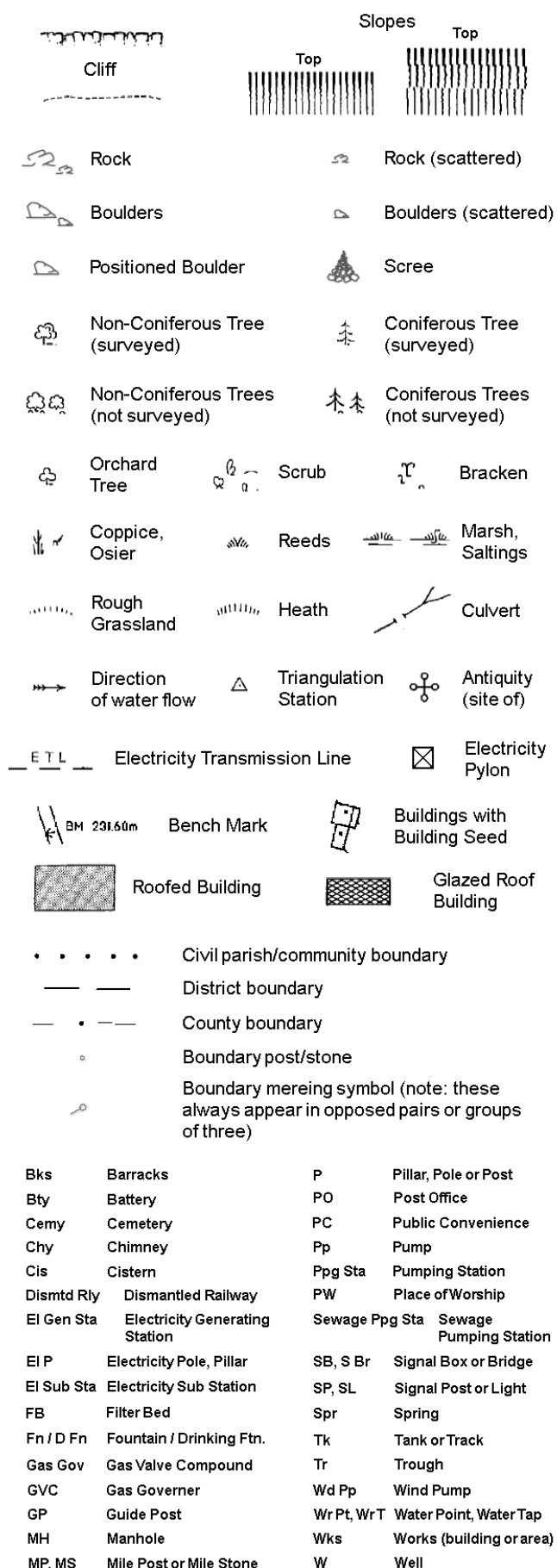
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information



Large-Scale National Grid Data 1:2,500 and 1:1,250

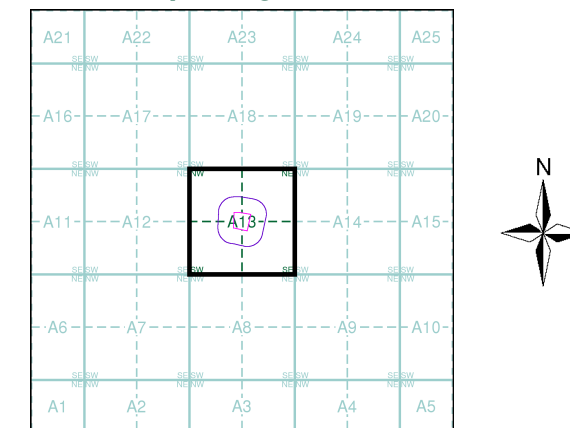


Intégral Géotechnique

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:2,500	1884	2
Monmouthshire	1:2,500	1901 - 1902	3
Monmouthshire	1:2,500	1921	4
Monmouthshire	1:2,500	1937	5
Ordnance Survey Plan	1:2,500	1956 - 1957	6
Ordnance Survey Plan	1:1,250	1956	7
Ordnance Survey Plan	1:1,250	1966 - 1977	8
Supply of Unpublished Survey Information	1:1,250	1974	9
Additional SIMs	1:1,250	1977 - 1989	10
Additional SIMs	1:1,250	1982 - 1987	11
Additional SIMs	1:1,250	1982 - 1989	12
Ordnance Survey Plan	1:1,250	1986 - 1987	13
Additional SIMs	1:1,250	1991	14
Large-Scale National Grid Data	1:1,250	1993	15
Large-Scale National Grid Data	1:1,250	1994	16
Large-Scale National Grid Data	1:1,250	1995	17
Large-Scale National Grid Data	1:1,250	1996	18
Large-Scale National Grid Data	1:1,250	1996	19
Historical Aerial Photography	1:2,500	2000	20

Historical Map - Segment A13



Order Details

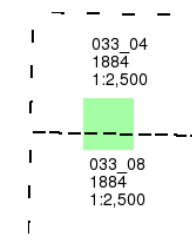
Order Number:	295824796_1_1
Customer Ref:	14043/LP
National Grid Reference:	330760, 186380
Slice:	A
Site Area (Ha):	1.05
Search Buffer (m):	100

Site Details

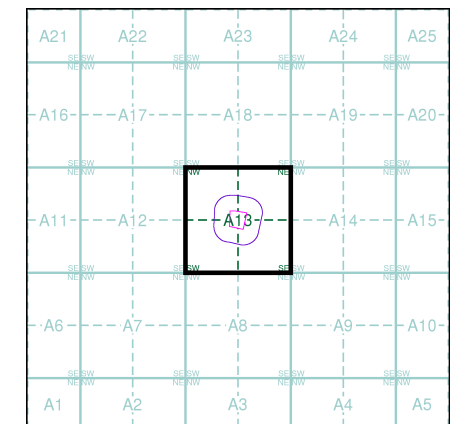
Unit 10, Maesglas Retail Park, Newport, NP20 2NS

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13

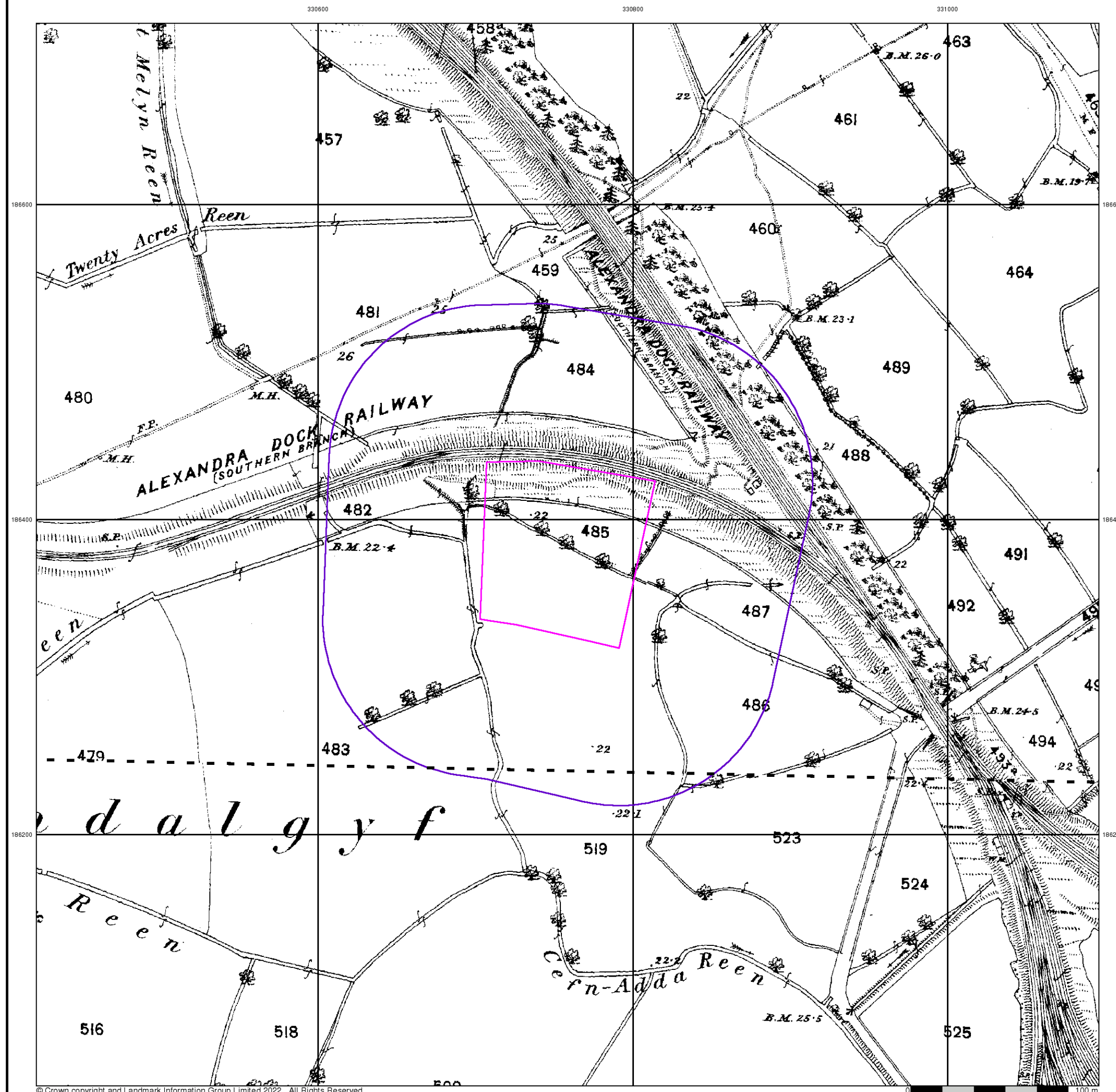


Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

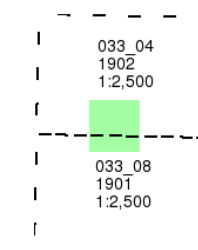
Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

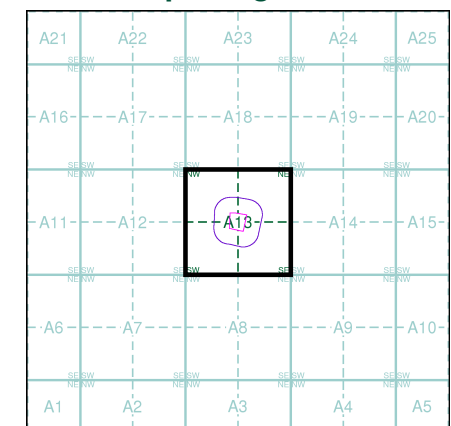


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13

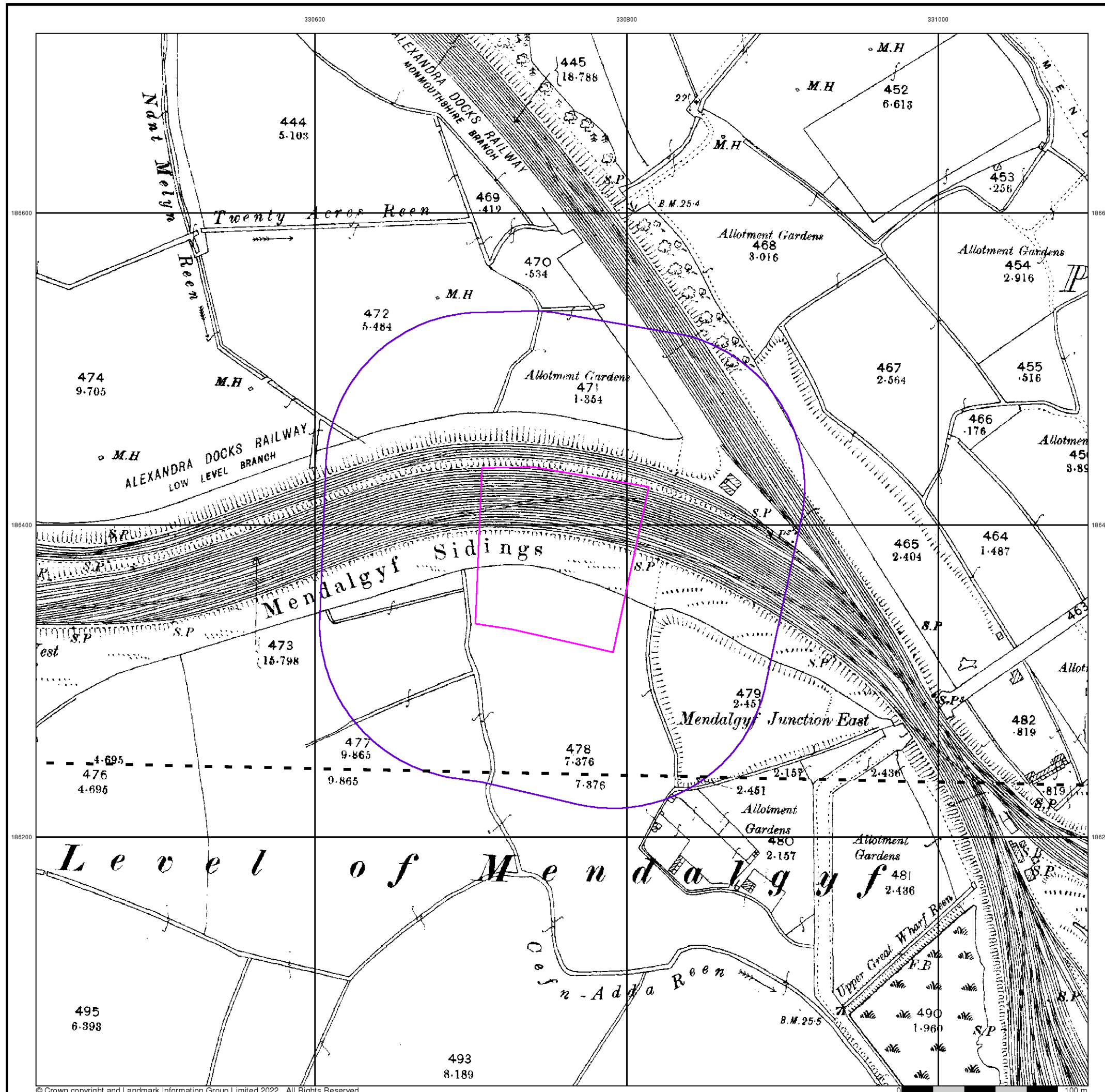


Order Details

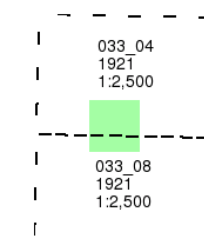
Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS



Map Name(s) and Date(s)



The grid consists of 5 columns (A1 to A5) and 5 rows (A1 to A25). The path is highlighted in red, starting at A1, moving right to A2, then up to A12, and finally right to A13. A13 is the destination and is marked with a red 'X'. A1 is marked with a red 'X'.



Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

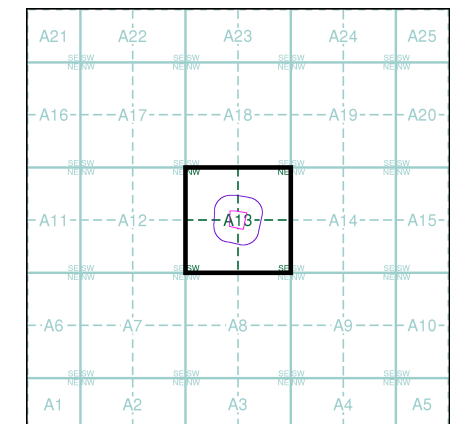
Unit 10, Maesglas Retail Park, Newport, NP20 2NS

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

033_04
1937
1:2,500
033_08
1937
1:2,500

Historical Map - Segment A13

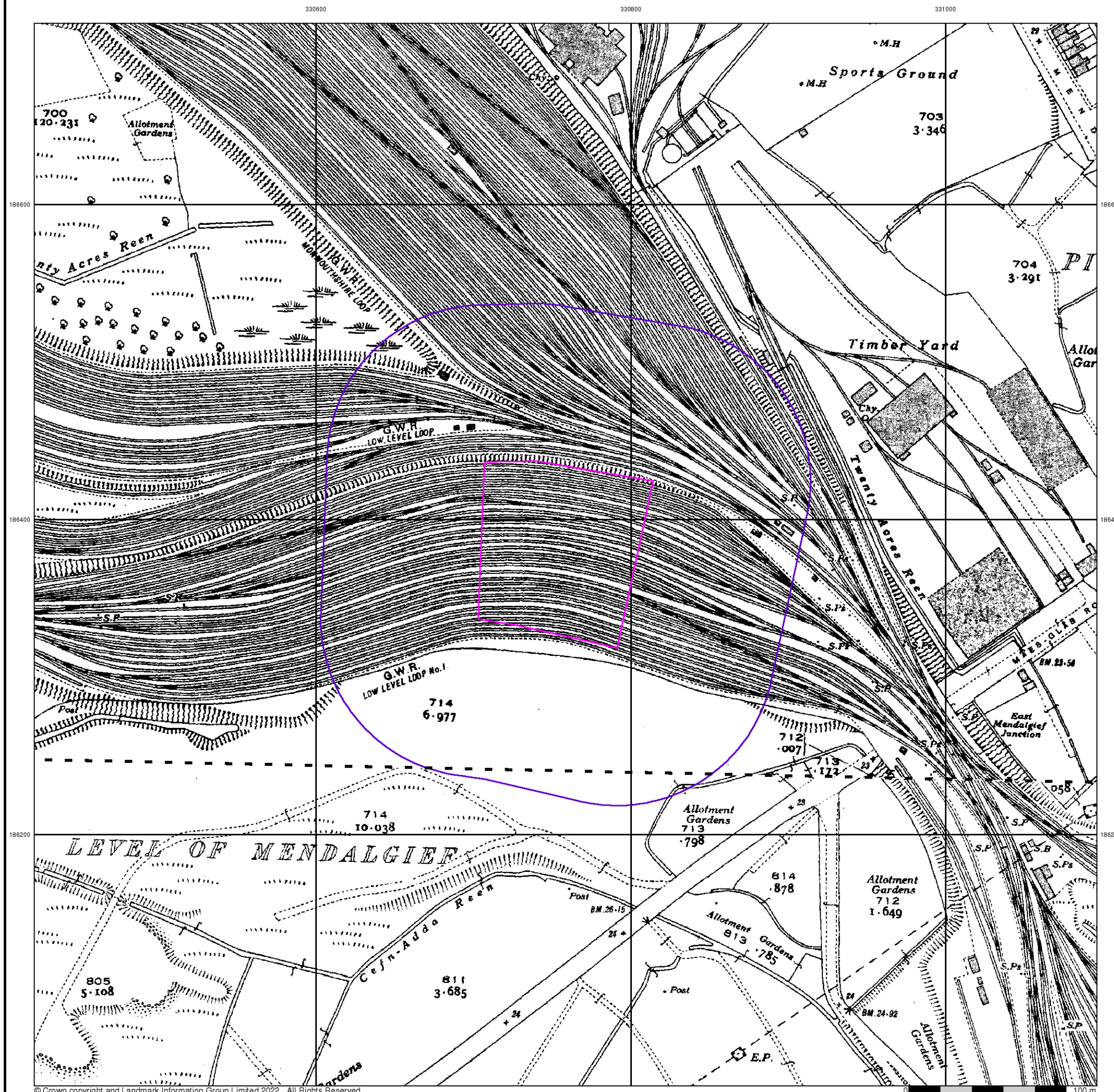


Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS



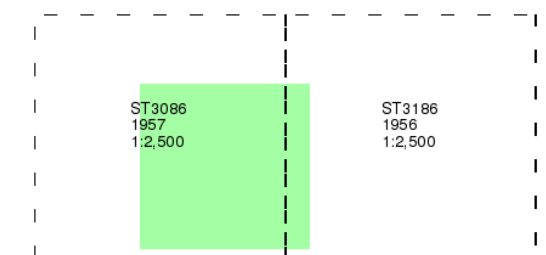
Ordnance Survey Plan

Published 1956 - 1957

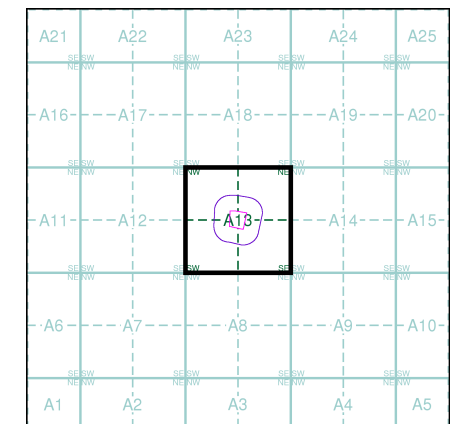
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS



Ordnance Survey Plan

Published 1956

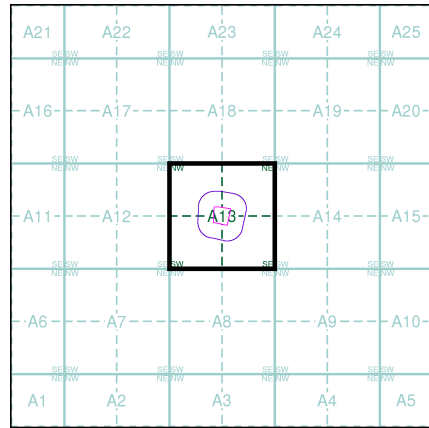
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

ST3086NW 1956 1:1,250	ST3086NE 1956 1:1,250	ST3186NW 1956 1:1,250
ST3086SW 1956 1:1,250	ST3086SE 1956 1:1,250	ST3186SW 1956 1:1,250

Historical Map - Segment A13



Order Details

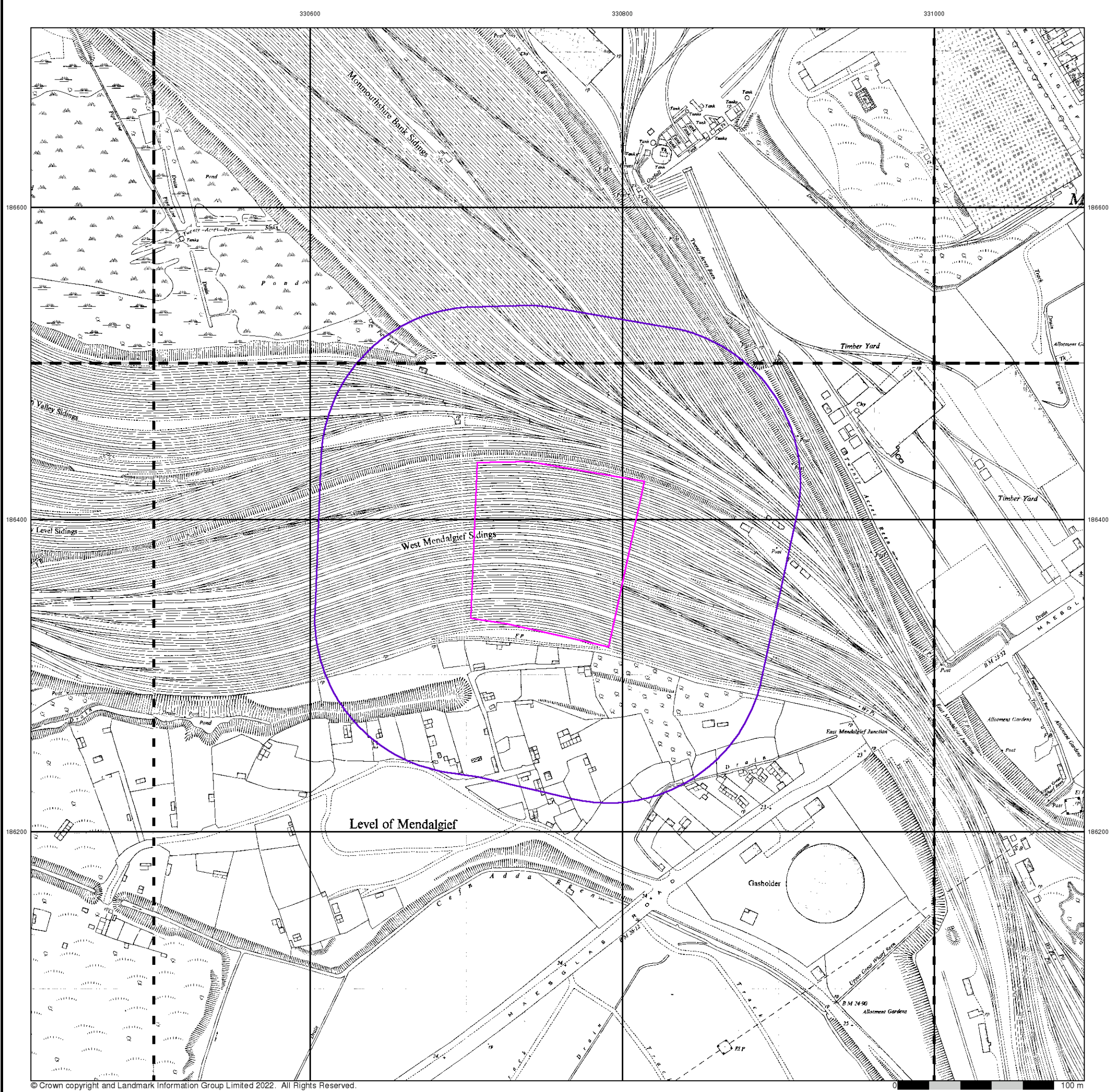
Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

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Ordnance Survey Plan

Published 1966 - 1977

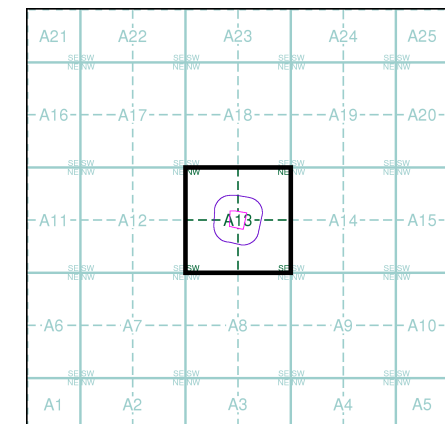
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

ST3086NW 1971 1:1,250	ST3086NE 1966 1:1,250	ST3186NW 1977 1:1,250
ST3086SW 1968 1:1,250	ST3086SE 1971 1:1,250	ST3186SW 1971 1:1,250

Historical Map - Segment A13



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

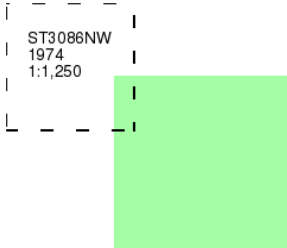
Supply of Unpublished Survey Information

Published 1974

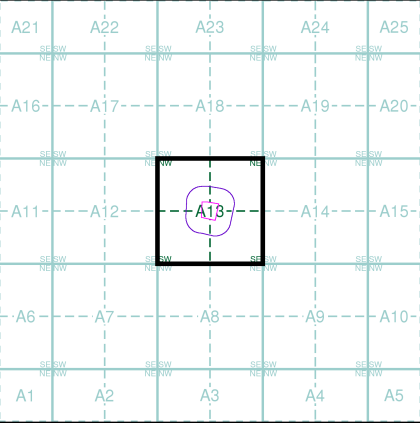
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

Additional SIMs

Published 1977 - 1989

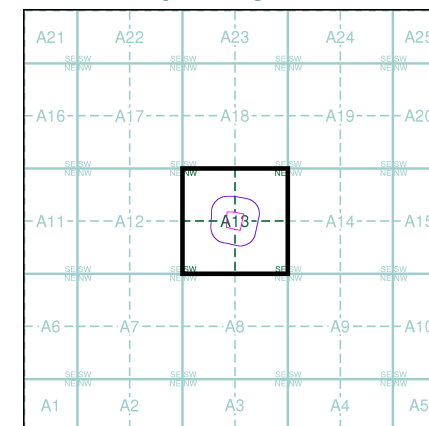
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

ST3086NW 1989 1:1,250	ST3086NE 1978 1:1,250	ST3186NW 1983 1:1,250
ST3086SW 1978 1:1,250	ST3086SE 1977 1:1,250	ST3186SW 1986 1:1,250

Historical Map - Segment A13



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

Additional SIMs

Published 1982 - 1987

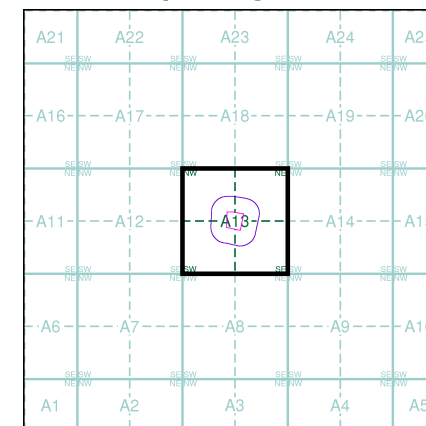
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

		ST3186NW 1986 1:1,250
ST3086SW 1982 1:1,250	ST3086SE 1982 1:1,250	ST3186SW 1987 1:1,250

Historical Map - Segment A13



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

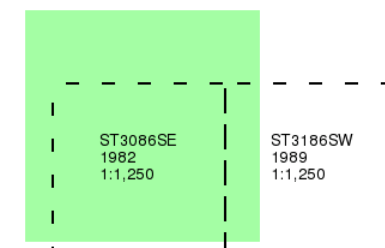
Additional SIMs

Published 1982 - 1989

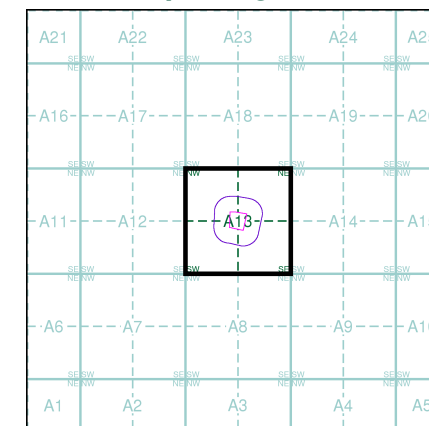
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

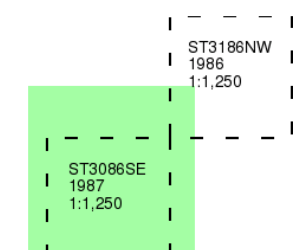
Ordnance Survey Plan

Published 1986 - 1987

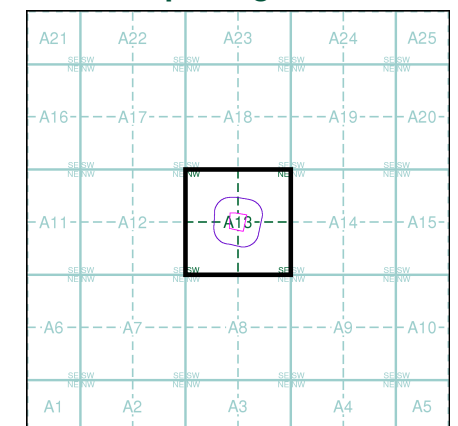
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

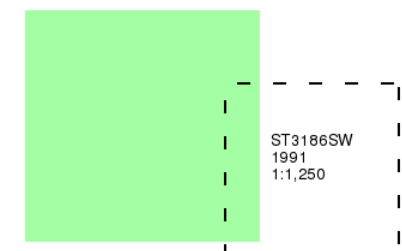
Additional SIMs

Published 1991

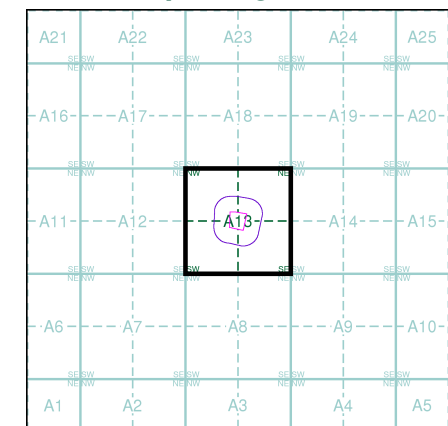
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS



Large-Scale National Grid Data

Published 1993

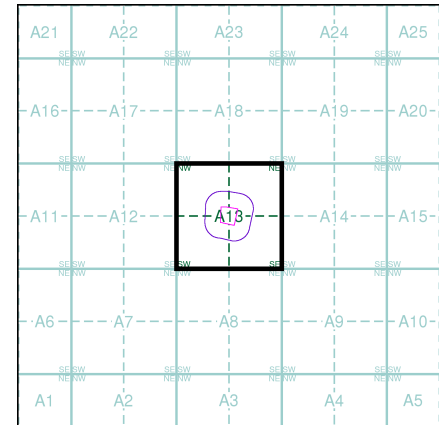
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

ST3086NW	ST3086NE	ST3186NW
1993	1993	1993
1:1,250	1:1,250	1:1,250
ST3086SW	ST3086SE	ST3186SW
1993	1993	1993
1:1,250	1:1,250	1:1,250

Historical Map - Segment A13



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS



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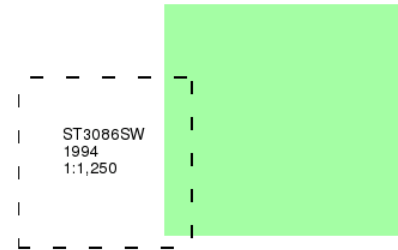
Large-Scale National Grid Data

Published 1994

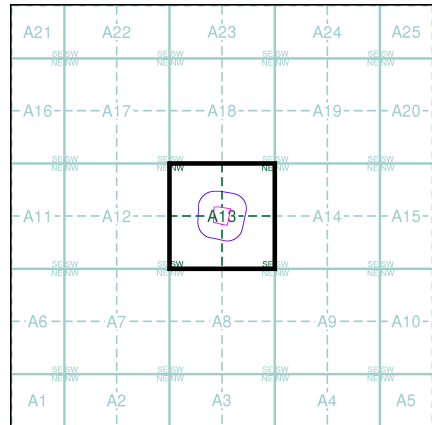
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

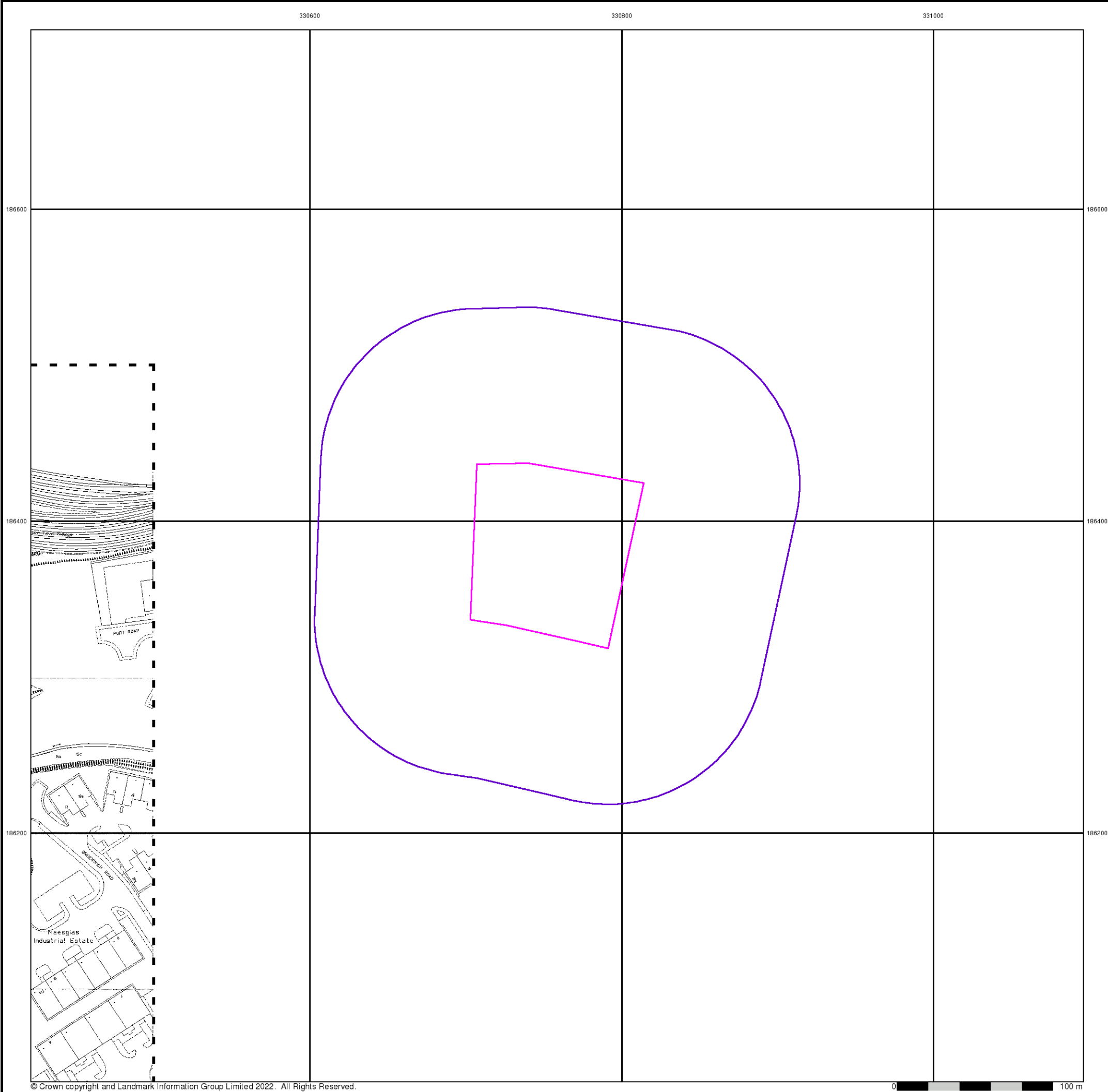
Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS



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Fax: 0844 844 9951
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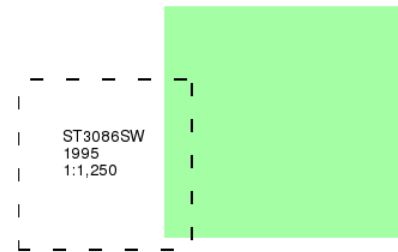
Large-Scale National Grid Data

Published 1995

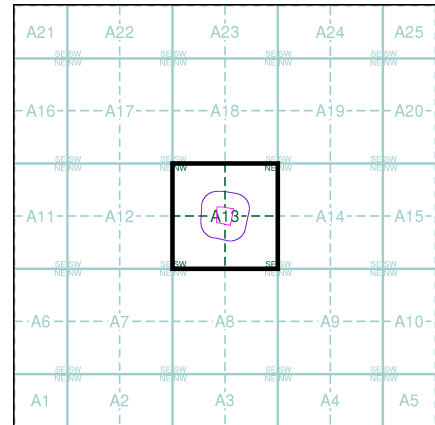
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

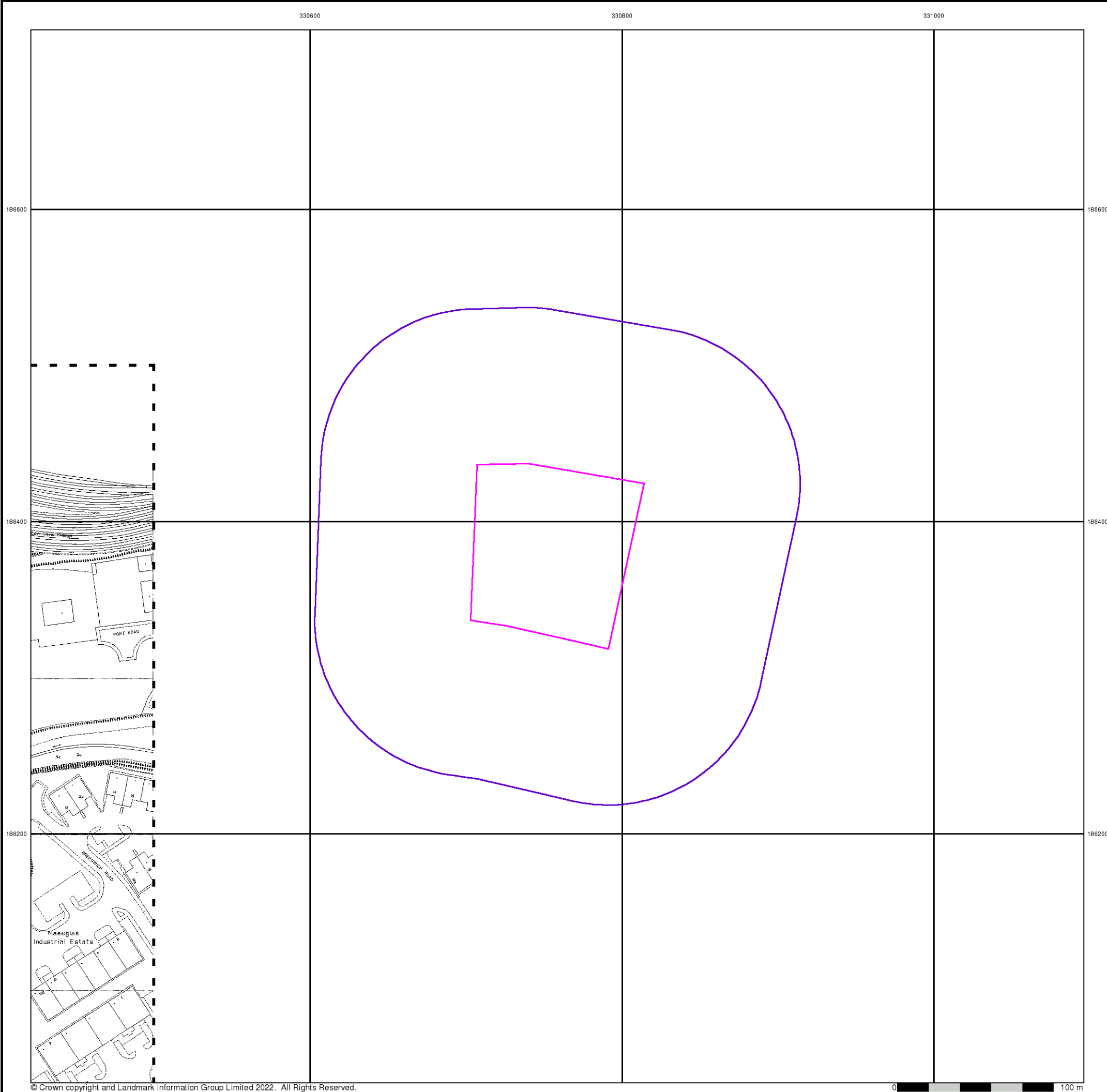
Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS



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



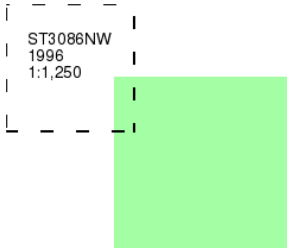
Large-Scale National Grid Data

Published 1996

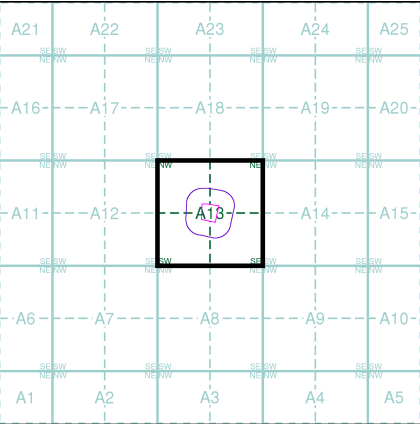
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

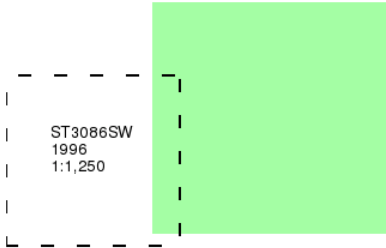
Large-Scale National Grid Data

Published 1996

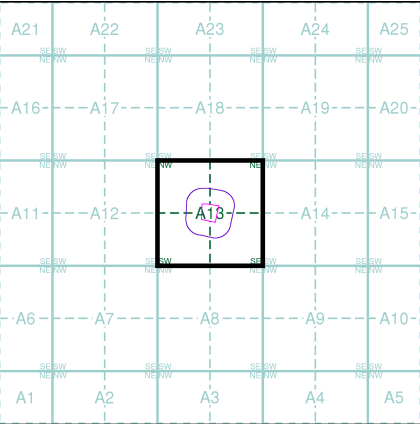
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS



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0 100 m

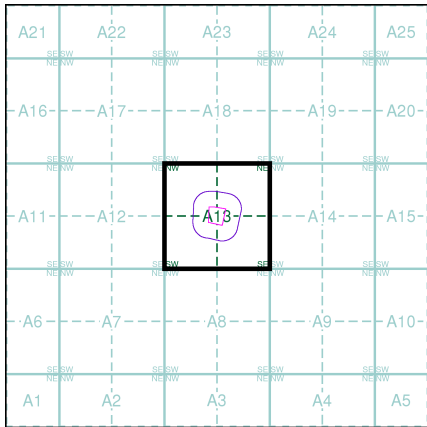
Intégral Géotechnique

Historical Aerial Photography

Published 2000

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

Landmark
INFORMATION GROUP

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

Envirocheck[®] Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:

295824796_1_1

Customer Reference:

14043/LP

National Grid Reference:

330760, 186380

Slice:

A

Site Area (Ha):

1.05

Search Buffer (m):

1000

Site Details:

Unit 10

Maesglas Retail Park

Newport

NP20 2NS

Client Details:

MR H Pritchard

Integral Geotechnique

Integral House

7 Beddau Way

Castlegate Business Park

Caerphilly

CF83 2AX

Report Section and Details	Page Number
Summary	-
The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected. For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).	
Mining and Natural Cavities Data	1
The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities. Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.	
Historical Land Use Information (1:2,500)	2
The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative. For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.	
Historical Land Use Information (1:10,000)	3
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.	
Ground Stability Data (1:50,000)	6
The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.	
Historical Map List	7
The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.	
Data Currency	8
Data Suppliers	9
Useful Contacts	10

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The brine subsidence data relating to the Droitwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquiries@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Mining and Natural Cavities Data					
BGS Recorded Mineral Sites	pg 1		1		1
Coal Mining Affected Areas			n/a	n/a	n/a
Man Made Mining Cavities					
Mining Instability			n/a	n/a	n/a
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 1	Yes		n/a	n/a
Potential Mining Areas					
Historical Land Use Information (1:2,500)					
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)	pg 2		2	n/a	n/a
Subterranean Features (100m)				n/a	n/a
Historical Land Use Information (1:10,000)					
Air Shafts					
Disturbed Ground					
General Quarrying	pg 3			1	
Heap, unknown constituents	pg 3			1	2
Mineral Railway					
Mining & quarrying general					
Mining of coal & lignite					
Quarrying of sand & clay, operation of sand & gravel pits					
Former Marshes					
Potentially Infilled Land (Non-Water)	pg 3			2	2
Potentially Infilled Land (Water)	pg 3	2	17	15	2
Ground Stability Data (1:50,000)					
CBSCB Compensation District			n/a	n/a	n/a
Brine Pumping Related Features					
Brine Subsidence Solution Area					
Potential for Collapsible Ground Stability Hazards	pg 6	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 6	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 6	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 6	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 6	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 6	Yes	Yes	n/a	n/a
Salt Mining Related Features					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	BGS Recorded Mineral Sites Site Name: Mon Bank Sidings Location: Newport, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 3068 Type: Opencast Status: Ceased Operator: Hanson Aggregates, South West Region Operator Location: Not Supplied Periodic Type: Not Available Geology: Quarry (Hard Rock) Commodity: Secondary Positional Accuracy: Unknown	A13NW (NW)	217	1	330500 186500
2	BGS Recorded Mineral Sites Site Name: Castell Glas Location: Newport, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 160572 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: Blue Lias Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	514	1	330478 185875
	Coal Mining Affected Areas In an area which may not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	330748 186398

Historical Land Use Information (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Extractive Industries or Potential Excavations from 1950-1980 Use: Unspecified Pit First Map Published 1956 Date: Last Map Published 1956 Date:	A13NW (NW)	73	-	330682 186504
4	Extractive Industries or Potential Excavations from 1950-1980 Use: Pipe Line First Map Published 1956 Date: Last Map Published N/A Date:	A13NW (NW)	80	-	330668 186505

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	General Quarrying Use: Not Supplied Date of Mapping: 1887 - 1902	A8NW (SW)	430	-	330526 185945
6	Heap, unknown constituents Use: Not Supplied Date of Mapping: 1992	A12NE (W)	475	-	330234 186467
7	Heap, unknown constituents Use: Not Supplied Date of Mapping: 1994	A12SE (W)	514	-	330193 186278
8	Heap, unknown constituents Use: Not Supplied Date of Mapping: 1994	A8NE (S)	525	-	330891 185803
9	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	A14NW (E)	401	-	331214 186458
10	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	A8NW (SW)	441	-	330516 185938
11	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	A14SW (E)	533	-	331339 186323
12	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	A14SE (E)	782	-	331593 186355
13	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1887	A13NE (N)	0	-	330759 186408
14	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1887	A13NE (NE)	0	-	330760 186391
15	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A13SW (SW)	1	-	330703 186352
16	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A13SW (SW)	32	-	330705 186304
17	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1887	A13SE (SE)	39	-	330836 186333
18	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A13SE (SE)	101	-	330838 186229
19	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A13NW (NW)	126	-	330625 186531
20	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A13SW (S)	149	-	330743 186176
21	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A13NE (NE)	151	-	330916 186536
22	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A13SE (SE)	168	-	330862 186166
23	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A13SE (SE)	177	-	330854 186153
24	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A13NE (E)	184	-	330998 186421
25	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A13SW (SW)	190	-	330530 186259

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A13NE (NE)	215	-	330992 186544
27	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A13NE (NE)	216	-	330937 186603
28	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A13NE (NE)	218	-	330964 186583
29	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A13NW (NW)	232	-	330500 186539
30	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A13SW (SW)	243	-	330626 186107
31	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A13NE (N)	244	-	330848 186665
32	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A13NW (NW)	252	-	330529 186614
33	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A13SW (SW)	256	-	330567 186120
34	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A13NE (E)	257	-	331067 186470
35	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A13NE (N)	259	-	330848 186681
36	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A13SW (SW)	292	-	330468 186165
37	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A14NW (E)	333	-	331130 186528
38	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A18SE (NE)	342	-	330918 186749
39	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A18SW (N)	349	-	330685 186784
40	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A8NE (S)	381	-	330921 185961
41	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A18SE (N)	428	-	330765 186863
42	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A18SW (N)	430	-	330630 186859
43	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A18SW (N)	477	-	330600 186900
44	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A18SE (N)	496	-	330860 186919
45	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A18SW (N)	498	-	330654 186931
46	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A8NW (S)	500	-	330707 185818

Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A12NW (W)	794	-	329914 186465
48	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A8SE (S)	929	-	331057 185428

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	CBSCB Compensation District The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
49	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	243	1	330465 186451
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	330756 186382
50	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	330756 186382
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	243	1	330465 186451
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	330756 186382
51	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	330756 186382
52	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	243	1	330465 186451
53	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	330756 186382
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	243	1	330465 186451
54	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	330756 186382
55	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	243	1	330465 186451

The following mapping has been analysed for Historical Land Use Information (1:2,500):

1:2,500	Mapsheet	Published Date
Ordnance Survey Plan	ST3186	1956

The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheet	Published Date
Monmouthshire	033_00	1887
Monmouthshire	034_00	1887
Monmouthshire	033_NE	1902
Monmouthshire	034_NW	1902
Monmouthshire	033_NE	1922
Monmouthshire	034_NW	1922
Monmouthshire	034_NW	1938
Monmouthshire	033_NE	1954
Ordnance Survey Plan	ST28NE	1964
Ordnance Survey Plan	ST38NW	1965
1:10,000	Mapsheet	Published Date
Ordnance Survey Plan	ST28NE	1992
Ordnance Survey Plan	ST38NW	1994

Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2021	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Man Made Mining Cavities Stantec UK Ltd	December 2021	Bi-Annually
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Natural Cavities Stantec UK Ltd	December 2021	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Historical Land Use Information (1:2,500)	Version	Update Cycle
Subterranean Features Landmark Information Group Limited	February 2020	Bi-Annually
Ground Stability Data (1:50,000)	Version	Update Cycle
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Brine Subsidence Solution Area Johnson Poole & Bloomer	December 2020	Annual Rolling Update

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
The Coal Authority	 The Coal Authority
Ove Arup	
Stantec UK Ltd	 Stantec
Wardell Armstrong	 wardell armstrong your earth our world
Johnson Poole & Bloomer	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Historical Land Use Information (1:2,500)

General

- Specified Site Specified Buffer(s) Bearing Reference Point Map ID
Several of Type at Location

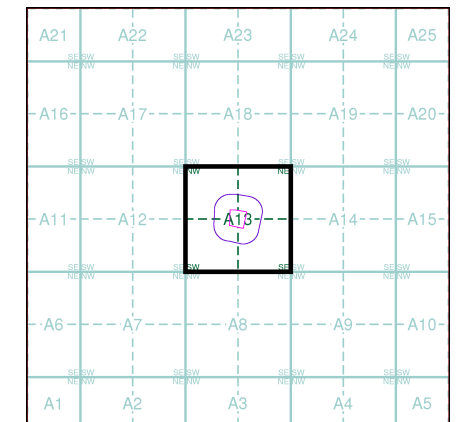
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	■
Extractive Industries Activity from 1893 - 1915	▲	—	■
Extractive Industries Activity from 1906 - 1937	▲	—	■
Extractive Industries Activity from 1924 - 1949	▲	—	■
Extractive Industries Activity from 1950 - 1980	▲	—	■

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	---	■

Mining and Ground Stability - Segment A13

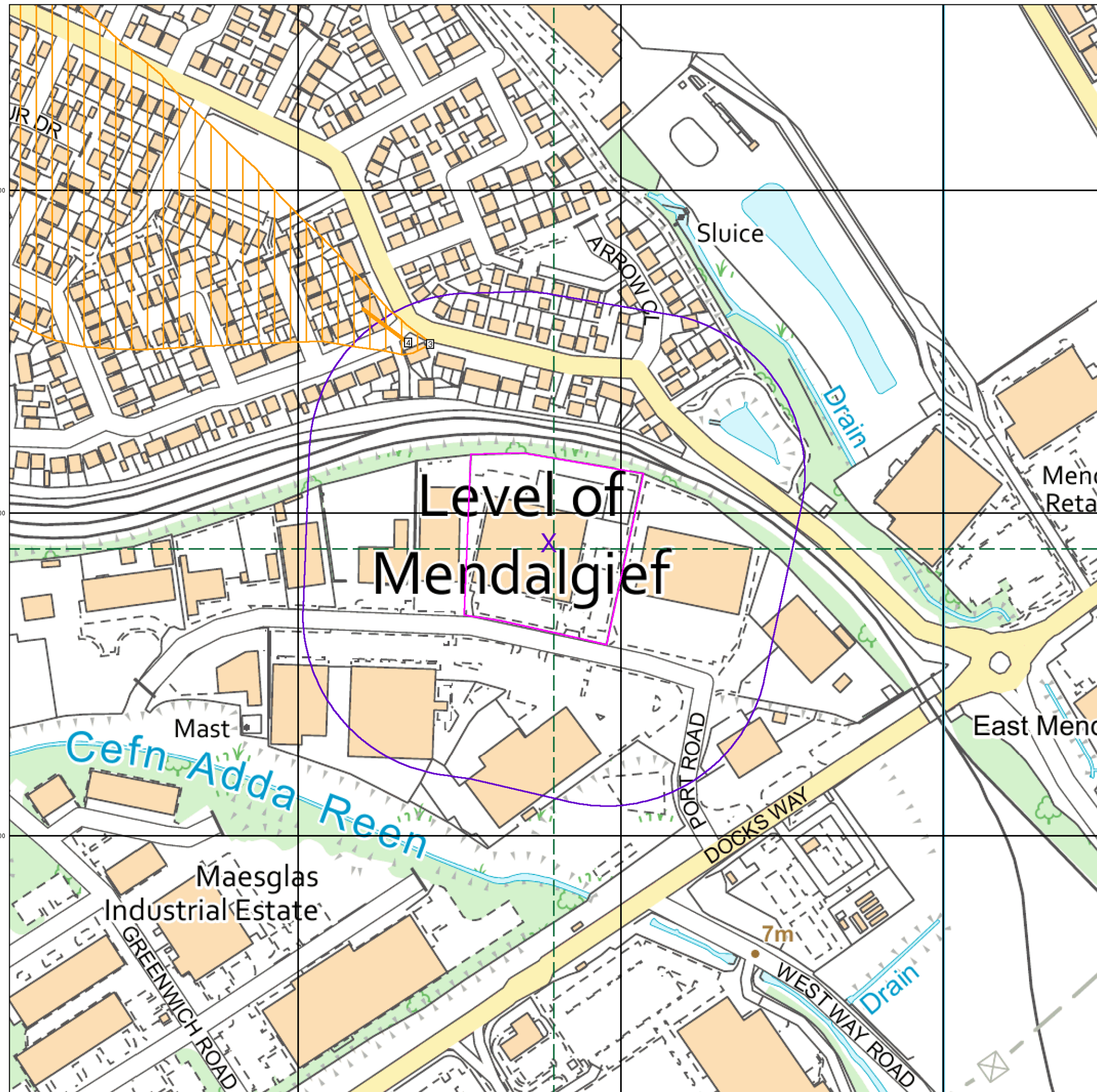


Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Plot Buffer (m): 100

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS



Historical Land Use Information (1:10,000)

General

- Specified Site Specified Buffer(s) Bearing Reference Point Map ID
Several of Type at Location

Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

	Point	Line	Polygon
Air Shafts			
Disturbed Ground			
General Quarrying			
Heap, unknown constituents			
Mineral Railway			
Mining and Quarrying General			
Mining of Coal & Lignite			
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits			

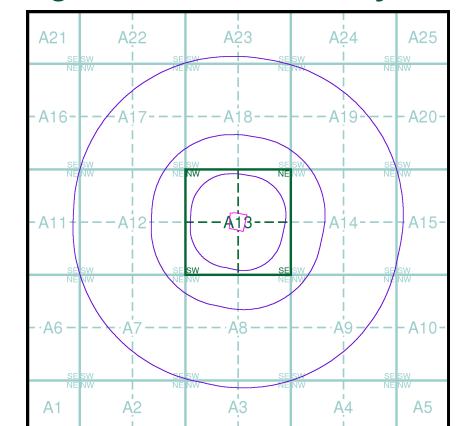
Historical Land Use

	Point	Line	Polygon
Potentially Infilled Land (Non-Water)			
Potentially Infilled Land (Water)			
Former Marsh			

Mining Data

- Potential Mining Area
BGS Recorded Mineral Site

Mining and Ground Stability - Slice A

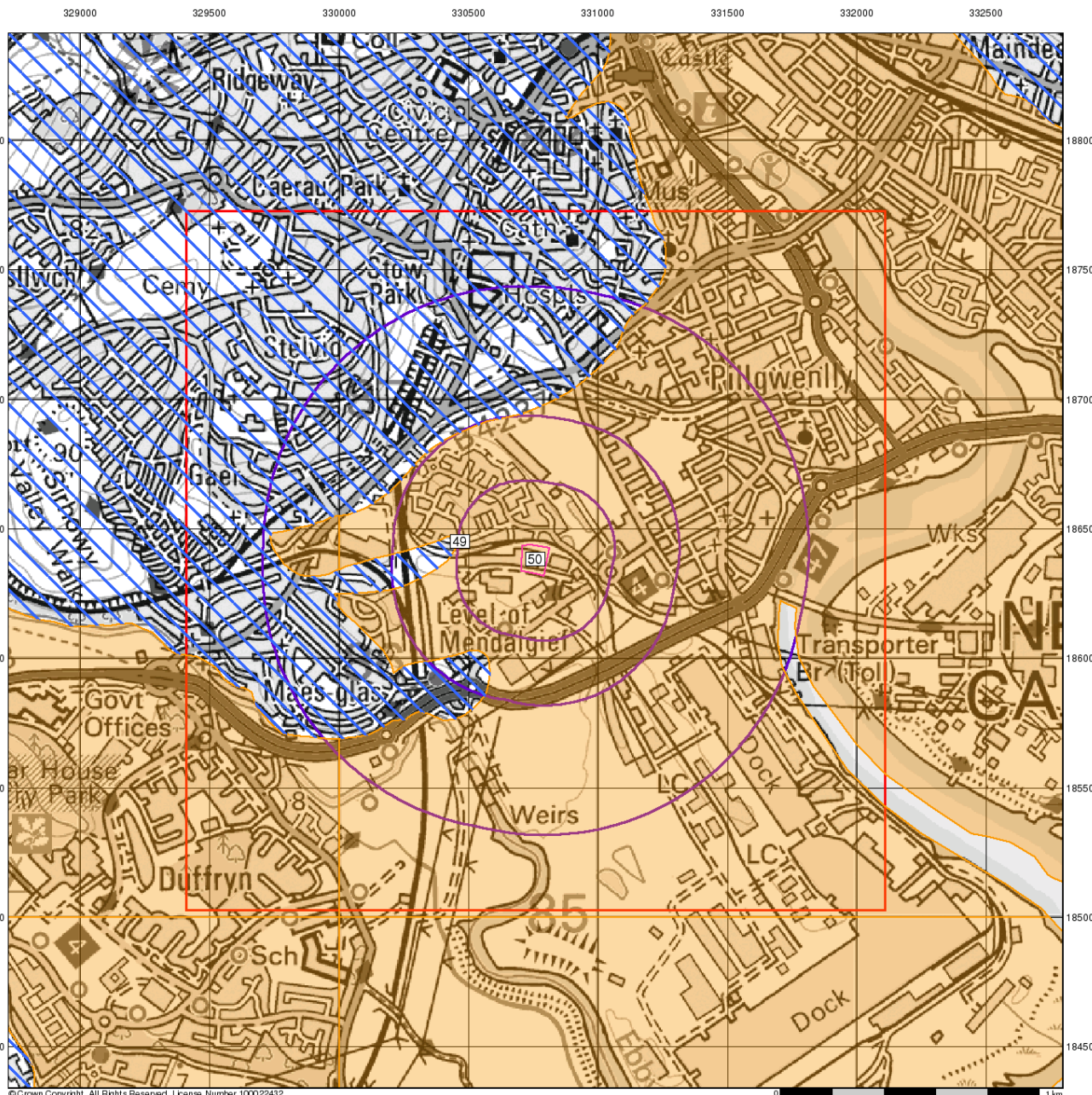


Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS



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0 1 km

Intégral Géotechnique

Ground Stability Data (1:50,000)

General

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

Potential for Compressible Ground Stability Hazards

- High
- Moderate
- Low
- Very Low

Potential for Collapsible Ground Stability Hazards

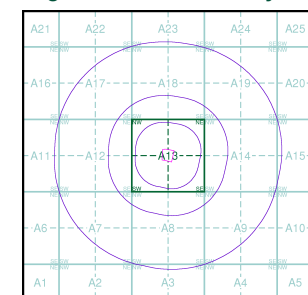
- High
- Moderate
- Low
- Very Low

Brine Pumping and Salt Mining

- Brine Pumping Related Feature
- Salt Mining Related Feature

- Point
- Polygon

Mining and Ground Stability - Slice A



Order Details

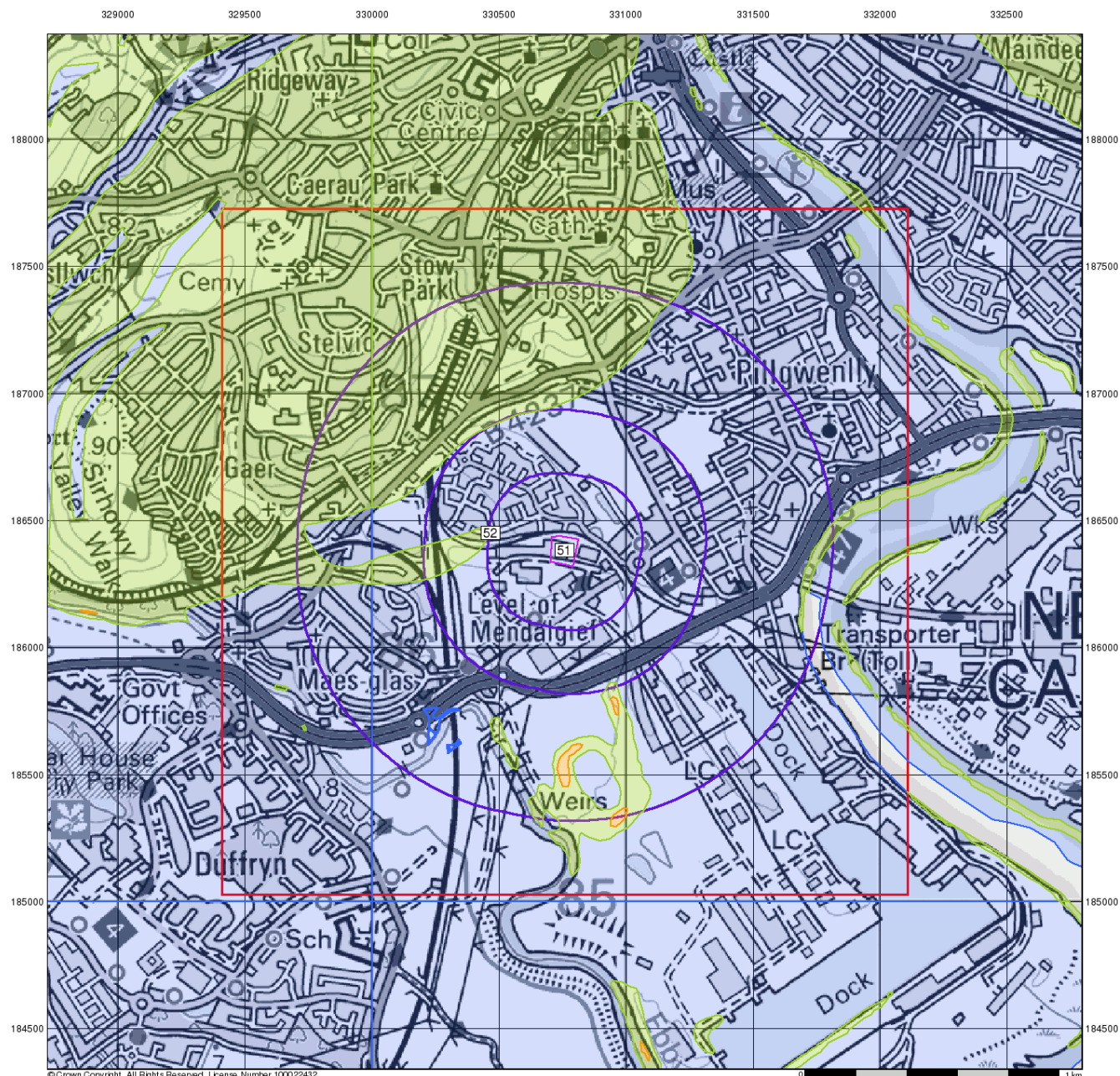
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- Customer Ref: 14043/LP
- National Grid Reference: 330760, 186380
- Slice: A
- Site Area (Ha): 1.05
- Search Buffer (m): 1000

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

Landmark
INFORMATION GROUP

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



Intégral Géotechnique

Ground Stability Data (1:50,000)

General

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

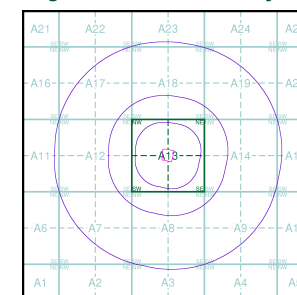
Potential for Landslide Ground Stability Hazards

- High
- Moderate
- Low
- Very Low

Potential for Ground Dissolution Stability Hazards

- ▨ High
- ▨ Moderate
- ▨ Low
- ▨ Very Low

Mining and Ground Stability - Slice A



Order Details

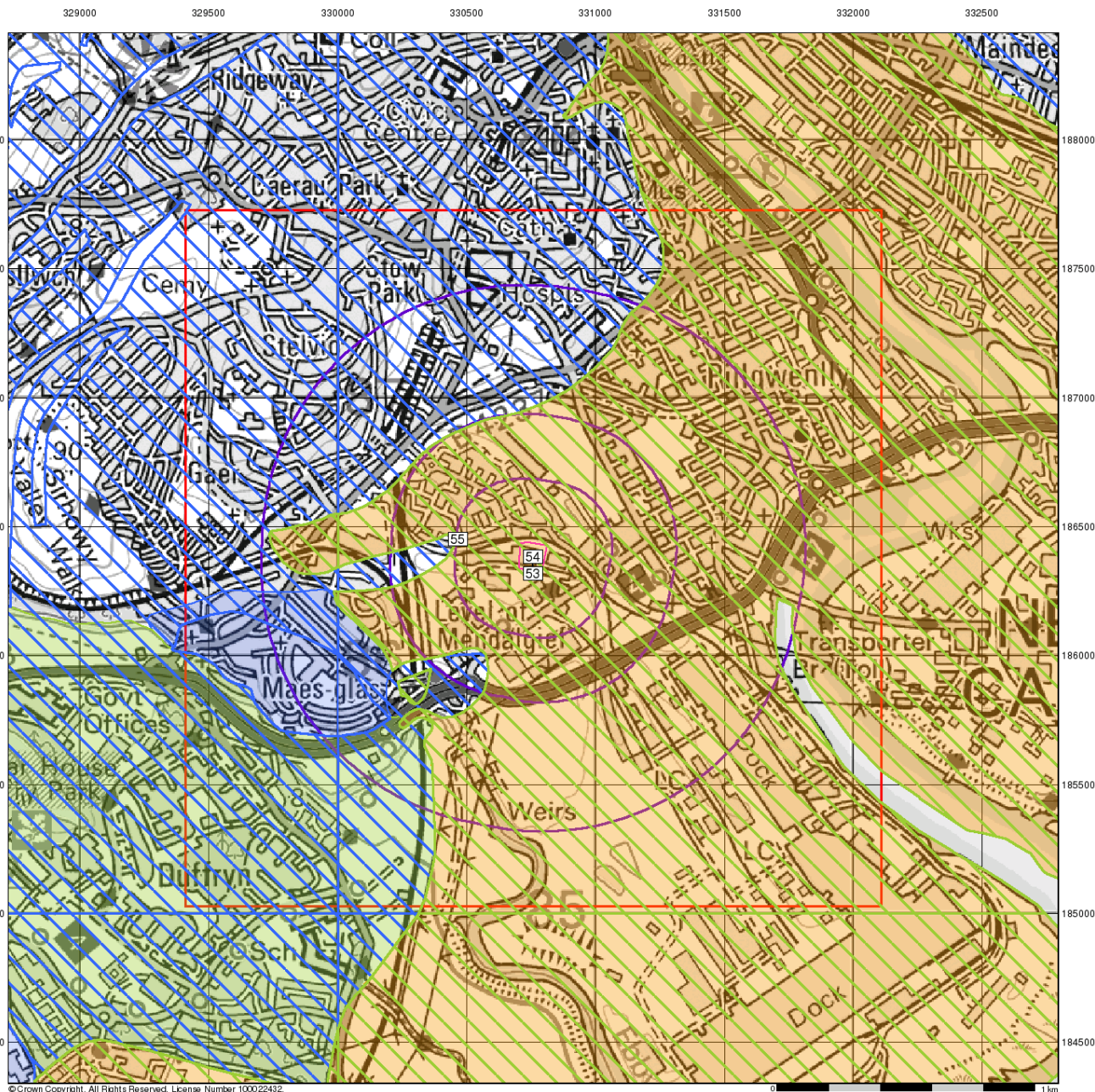
Order Number: 295824796_1_1
 Customer Ref: 14043/LP
 National Grid Reference: 330760, 186380
 Slice: A
 Site Area (Ha): 1.05
 Search Buffer (m): 1000

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

Landmark
 INFORMATION GROUP

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



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Intégral Géotechnique

Ground Stability Data (1:50,000)

General

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

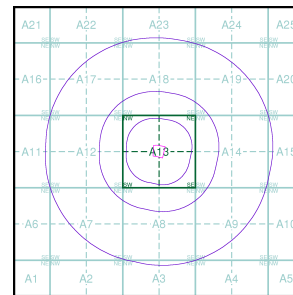
Potential for Running Sand Ground Stability Hazards

- High
- Moderate
- Low
- Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

- High
- Moderate
- Low
- Very Low

Mining and Ground Stability - Slice A



Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330760, 186380
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

Unit 10, Maesglas Retail Park, Newport, NP20 2NS

Landmark
INFORMATION GROUP

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

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:



Envirocheck reports are compiled from 136 different sources of data.

Client Details

MR H Pritchard, Integral Geotechnique, Integral House, 7 Beddau Way, Castlegate Business Park, Caerphilly, CF83 2AX

Order Details

Order Number: 295824796_1_1
Customer Ref: 14043/LP
National Grid Reference: 330750, 186380
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

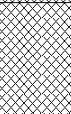
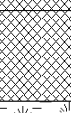
Unit 10, Maesglas Retail Park, Newport, NP20 2NS

Full Terms and Conditions can be found on the following link:
<http://www.landmarkinfo.co.uk/Terms/Show/515>

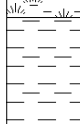
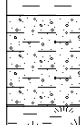
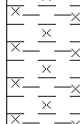
APPENDIX B

WINDOWLESS SAMPLE BOREHOLE LOGS

		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Unit 10, Maesglas Retail Park		Project No.: 14043		Borehole No.: WS01 Sheet 1 of 1	
Location: Newport				Client: Gervas Consulting Limited		Coordinates:		Hole Type: WLS	
Equipment: DART 540				Diameter of Casing:		Level:		Scale 1:25	
Diameter of Boring: 101mm				Depth of Casing:		Dates 26/05/2022 -		Logged By: OTJ	

Well	Water Strikes	Samples & In situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.40	ES		0.20			Tarmac	
								MADE GROUND: Dense greyish brown very sandy fine to coarse GRAVEL of angular limestone, tabular mudstone, and very angular yellow sandstone (SUBBASE).	
					0.60			MADE GROUND: Firm grey mottled brown very gravelly CLAY. Gravel is fine to coarse angular to well rounded sandstone, limestone and brick fragments.	
		1.00	C	N=3 (1,1/0,1,1,1)	0.90			Very soft bluish grey organic CLAY.	1
		1.50	D		1.60			Very soft brownish grey silty organic CLAY with pockets of pseudo-fibrous peat.	2
		2.00	C	N=4 (1,1/1,1,1,1)	3.20			Very soft becoming soft bluish grey mottled brown organic CLAY.	3
		3.00	C	N=2 (1,1/0,1,0,1)	4.00				4
4.00	C	N=3 (1,0/1,0,1,1)	5.00				5		
		5.00	C	N=8 (1,2/2,2,2,2)	5.00		End of Borehole at 5.00 m		

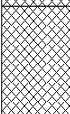
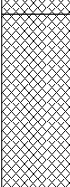
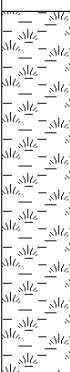
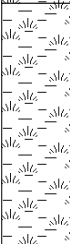
Remarks: 1. No groundwater encountered.		Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation			
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Intégral Géotechnique		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Unit 10, Maesglas Retail Park			Project No.: 14043		Borehole No.: WS02 Sheet 1 of 1		
Location: Newport				Client: Gervas Consulting Limited			Coordinates:		Hole Type: WLS		
Equipment: DART 540				Diameter of Casing:			Level:		Scale 1:25		
Diameter of Boring: 101mm				Depth of Casing:			Dates 26/05/2022 -		Logged By: OTJ		
Well	Water Strikes	Samples & In situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description			
		Depth (m)	Type	Results							
		0.50	ES		0.20			TOPSOIL: Grass onto soft dark brown gravelly SILT/CLAY with frequent rootlets at the surface. Gravel is fine to medium angular sandstone and limestone.			
					0.40			MADE GROUND: Medium dense dark brown silty sandy GRAVEL of fine to coarse angular mudstone, sandstone and limestone.			
					0.60			MADE GROUND: Medium dense yellow gravelly fine to coarse SAND. Gravel is fine to medium sandstone and limestone.			
		1.00	C	N=7 (1,0/1,2,1,3)	1.00			Soft light brown mottled orange and brown slightly organic CLAY.		1	
					1.40			Soft bluish grey mottled orange brown CLAY.			
					1.70			Soft yellowish brown sandy gravelly CLAY. Gravel is fine to medium rounded sandstone and quartz.			
		2.00	C	N=5 (2,2/1,1,1,2)	2.60			Very soft bluish grey organic CLAY.		2	
					3.00			Soft brownish grey silty CLAY.			
					3.40			Soft bluish grey slightly mottled orange brown organic CLAY.			
		4.00	C	N=5 (1,1/1,2,1,1)	4.10			Soft brownish grey silty CLAY.		4	
		5.00	C	N=7 (1,1/2,1,2,2)							5
								-----End of Borehole at 5.00 m-----			
Remarks: 1. No groundwater encountered.							Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation				
											

		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Unit 10, Maesglas Retail Park			Project No.: 14043		Borehole No.: WS03 Sheet 1 of 1	
Location: Newport				Client: Gervas Consulting Limited			Coordinates:		Hole Type: WLS	
Equipment: DART 540				Diameter of Casing:			Level:		Scale 1:25	
Diameter of Boring: 101mm				Depth of Casing:			Dates 26/05/2022 -		Logged By: OTJ	

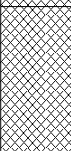
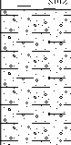
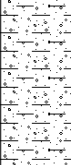
Well	Water Strikes	Samples & In situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.30	ES		0.20			TOPSOIL: Grass onto dark brown gravelly SILT with frequent rootlets at the surface. Gravel is fine to medium angular sandstone and limestone.	1	
		1.00	C	N=6 (1,1/1,2,1,2)	1.10			MADE GROUND: Loose dark grey and brown silty sandy GRAVEL of fine to coarse rounded to angular limestone, tabular mudstone, sandstone, quartz-rich sandstone with frequent brick, ash, and slag.		
		1.20	D		1.40			Soft brown mottled orange brown organic CLAY.		
					1.70			Soft bluish grey organic CLAY with occasional pockets of pseudo-fibrous peat.		
					1.80			Soft brownish grey slightly silty fine SAND.		
		2.00	C	N=4 (2,2/1,1,1,1)				Very soft to soft bluish grey mottled orange organic CLAY with pockets of amorphous peat.		2
								No recovery.		
								No recovery.		
								No recovery.		
								No recovery.		
									3	
									4	
									5	

Remarks: 1. Terminated at 4m bgl due to sides of hole collapsing. 2. No groundwater encountered.		Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		
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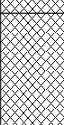
Intégral Géotechnique		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Unit 10, Maesglas Retail Park			Project No.: 14043		Borehole No.: WS04 Sheet 1 of 1			
Location: Newport				Client: Gervas Consulting Limited			Coordinates:		Hole Type: WLS			
Equipment: DART 540				Diameter of Casing:			Level:		Scale 1:25			
Diameter of Boring: 101mm				Depth of Casing:			Dates 26/05/2022 -		Logged By: OTJ			
Well	Water Strikes	Samples & In situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description				
		Depth (m)	Type	Results								
	 1.16				0.20			Reinforced concrete.				
									MADE GROUND: Dense brown silty sandy GRAVEL. Gravel is fine to coarse angular limestone (SUBBASE).			
		0.50	ES		0.50				MADE GROUND: Medium dense dark grey black silty sandy GRAVEL of fine to coarse angular and sub-angular limestone, sandstone, brick and slag.			
					0.90				MADE GROUND: Loose yellowish brown gravelly SAND. Gravel is fine to medium angular mudstone and limestone.			1
		1.00	C	N=5 (1,0/1,1,1,2)								
					1.50				Soft bluish grey organic CLAY.			
					1.70				Loose grey slightly clayey gravelly SAND. Gravel is fine to coarse angular and sub-angular mudstone and fine to medium rounded sandstone.			
		2.00	C	N=3 (1,1/1,0,1,1)	2.00				No recovery.			2
		3.00	C	N=2 (2,1/1,0,1,0)	3.00				Very soft bluish grey organic CLAY with pockets of pseudo-fibrous peat.			3
		4.00	C	N=4 (1,0/1,1,1,1)	4.20				Very soft brown grey slightly silty organic CLAY.			4
		5.00	C	N=4 (1,1/1,0,1,2)	5.00				End of Borehole at 5.00 m			5
Remarks: 1. No groundwater encountered.							Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation 					



Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com				Project Name: Unit 10, Maesglas Retail Park				Project No.: 14043		Borehole No.: WS05 Sheet 1 of 1	
Location: Newport				Client: Gervas Consulting Limited				Coordinates:		Hole Type: WLS	
Equipment: DART 540				Diameter of Casing:				Level:		Scale 1:25	
Diameter of Boring: 101mm				Depth of Casing:				Dates 26/05/2022 -		Logged By: OTJ	
Well	Water Strikes	Samples & In situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description			
		Depth (m)	Type	Results							
	3.70				0.15			Reinforced concrete.			
								MADE GROUND: Dense brown silty sandy GRAVEL. Gravel is fine to coarse angular limestone (SUBBASE).			
		0.40	ES		0.40			MADE GROUND: Medium dense to dense dark grey black silty sandy GRAVEL of fine to coarse angular and sub-angular limestone, sandstone, brick and slag.			
		0.60	D		0.60			Very soft bluish grey mottled brown organic CLAY with pockets of amorphous peat.			
									Very soft bluish grey mottled brown organic CLAY.		
					1.90						
					2.10			Very soft bluish grey organic CLAY with pockets of amorphous peat.			
					2.60			Very soft light brown organic CLAY with abundant pockets of amorphous peat.			
					2.80			Very soft bluish grey organic CLAY with pockets of plastic peat.			

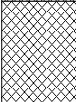
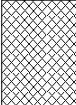
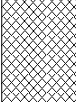
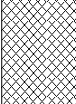
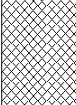
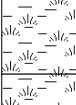
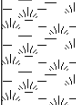
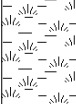
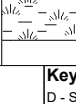
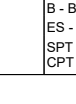
Intégral Géotechnique		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Unit 10, Maesglas Retail Park			Project No.: 14043		Borehole No.: WS06 Sheet 1 of 1		
Location: Newport				Client: Gervas Consulting Limited			Coordinates:		Hole Type: WLS		
Equipment: DART 540				Diameter of Casing:			Level:		Scale 1:25		
Diameter of Boring: 101mm				Depth of Casing:			Dates 26/05/2022 -		Logged By: OTJ		
Well	Water Strikes	Samples & In situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description			
		Depth (m)	Type	Results							
	 1.10				0.20			Reinforced concrete.			
					0.35			MADE GROUND: Dense reddish brown very sandy GRAVEL of angular and sub-angular limestone (SUBBASE).			
								MADE GROUND: Medium dense dark grey/black sandy GRAVEL of fine to medium sandstone and fragments of brick and ceramic.			
		0.60	ES		0.60			MADE GROUND: Loose dark brown slightly silty sandy GRAVEL. Gravel is fine to coarse sub-angular and angular limestone and fragments of tarmac.			
		1.00	C	N=6 (1,0/1,1,2,2)	1.10			Soft bluish grey mottled orange brown organic CLAY.			
					1.50			Very soft bluish grey slightly sandy slightly gravelly CLAY. Gravel is fine to medium rounded sandstone.			
		2.00	C	N=3 (1,0/1,0,1,1)							
					2.50			Very soft brown grey organic CLAY.			
					2.70			Very loose grey fine SAND.			
					2.80			Very soft brown grey organic CLAY.			
		3.00	C	N=3 (1,0/1,1,0,1)							
		4.00	C	N=3 (1,1/0,1,1,1)							
		5.00	C	N=3 (1,0/1,1,0,1)	5.00			End of Borehole at 5.00 m			
Remarks:							Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation				



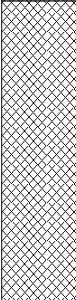
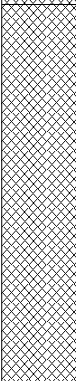
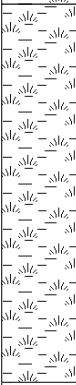
Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Unit 10, Maesglas Retail Park		Project No.: 14043		Borehole No.: WS07 Sheet 1 of 1			
Location: Newport		Client: Gervas Consulting Limited		Coordinates:		Hole Type: WLS			
Equipment: DART 540		Diameter of Casing:		Level:		Scale 1:25			
Diameter of Boring: 101mm		Depth of Casing:		Dates 27/05/2022 -		Logged By: OTJ			
Well	Water Strikes	Samples & In situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
		Depth (m)	Type	Results					
	 2.40	0.70	D	N=5 (1,1/1,1,1,2)	0.10			Tarmac	1
								MADE GROUND: Dense orange brown silty sandy GRAVEL of fine to coarse sub-angular and angular limestone (SUBBASE).	
					0.50			MADE GROUND: Medium dense dark brown and black slightly gravelly fine to coarse SAND. Gravel is fine to coarse sub-angular limestone, ash and slag.	
					0.90			MADE GROUND: Loose yellow black and orange slightly silty sandy GRAVEL. Gravel is fine to coarse sub-angular and angular limestone, brick, slag, tarmac.	
		2.00	C	N=3 (1,1/0,1,1,1)	1.20			Soft brown grey clayey organic SILT with rare pockets of fine sand.	2
		2.70	D	N=3 (1,0/1,0,1,1)	2.40			Loose brown grey slightly clayey fine SAND	3
								Very soft brown grey clayey organic SILT with rare pockets of fine sand.	
								Very soft bluish grey organic CLAY with pseudo-fibrous peat.	
								Very loose brownish grey fine to medium SAND with occasional shelly fragments.	
	C	N=2 (1,0/1,0,1,0)	3.90			Very soft becoming soft bluish grey organic CLAY with pseudo-fibrous peat.	4		
			3.95						
		5.00	C	N=6 (0,1/2,1,2,1)	5.00			End of Borehole at 5.00 m	5
Remarks:						Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation			
									



Intégral Géotechnique		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Unit 10, Maesglas Retail Park			Project No.: 14043		Borehole No.: WS08 Sheet 1 of 1		
Location: Newport				Client: Gervas Consulting Limited			Coordinates:		Hole Type: WLS		
Equipment: DART 540				Diameter of Casing:			Level:		Scale 1:25		
Diameter of Boring: 101mm				Depth of Casing:			Dates 27/05/2022 -		Logged By: OTJ		
Well	Water Strikes	Samples & In situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description			
		Depth (m)	Type	Results							
	 1.27							Reinforced concrete			
					0.22			MADE GROUND: Dense light brown slightly silty sandy GRAVEL of fine to coarse angular and sub-angular limestone (SUBBASE).			
					0.40			MADE GROUND: Medium dense to dense dark brown and black slightly gravelly fine to coarse SAND. Gravel is fine to coarse sub-angular limestone.			
					0.65			MADE GROUND: Firm brown grey mottled orange brown gravelly CLAY. Gravel is fine to coarse angular and sub-angular limestone with fragments of brick and tarmac.			
		0.90	ES		0.85			MADE GROUND: Medium dense brown and black slightly clayey sandy GRAVEL of fine to coarse angular and sub-angular limestone and tarmac.			
		1.00	C	N=5 (1,1/1,2,1,1)	1.00			Soft orange brown very sandy CLAY.			
					1.40			Loose dark grey slightly silty slightly gravelly fine SAND. Gravel is fine to medium rounded and well-rounded sandstone.			
					1.75			Very loose yellowish brown medium SAND.			
		2.00	C	N=3 (1,0/1,0,1,1)							
					2.45			Very soft bluish grey organic CLAY.			
		3.00	C	N=3 (1,1/0,1,1,1)	3.00			Very loose yellowish brown slightly clayey gravelly medium to coarse SAND. Gravel is fine to coarse rounded and sub-rounded limestone, quartz-rich sandstone and quartz.			
					3.85			Very soft brownish grey slightly silty organic CLAY			
		4.00	C	N=2 (1,0/0,1,0,1)							
					4.30			Very loose brown grey fine SAND (poor recovery).			
					5.00			End of Borehole at 5.00 m			
Remarks:							Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation				
											

Intégral Géotechnique		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Unit 10, Maesglas Retail Park			Project No.: 14043		Borehole No.: WS09 Sheet 1 of 1		
Location: Newport				Client: Gervas Consulting Limited			Coordinates:		Hole Type: WLS		
Equipment: DART 540				Diameter of Casing:			Level:		Scale 1:25		
Diameter of Boring: 101mm				Depth of Casing:			Dates 27/05/2022 -		Logged By: OTJ		
Well	Water Strikes	Samples & In situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description			
		Depth (m)	Type	Results							
					0.09			Tarmac			
									MADE GROUND: Dense light brown slightly silty sandy GRAVEL of fine to coarse angular and sub-angular limestone (SUBBASE).		
		0.50	ES		0.45				MADE GROUND: Loose becoming very loose dense dark brown and black slightly gravelly fine to coarse SAND. Gravel is fine to coarse sub-angular limestone, tabular mudstone with crushed brick, ash, tarmac.		
		1.00	C	N=3 (2,1/1,1,0,1)							
		2.00	C	N=4 (1,1/0,1,1,2)	2.10						
					2.60						
		3.00	C	N=4 (1,1/1,1,1,1)	2.90						
		4.00	C	N=2 (1,1/0,1,0,1)							
											
											
											
											
											
											
											
											
											



Intégral Géotechnique		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Unit 10, Maesglas Retail Park			Project No.: 14043		Borehole No.: WS10 Sheet 1 of 1		
Location: Newport				Client: Gervas Consulting Limited			Coordinates:		Hole Type: WLS		
Equipment: DART 540				Diameter of Casing:			Level:		Scale 1:25		
Diameter of Boring: 101mm				Depth of Casing:			Dates 27/05/2022 -		Logged By: OTJ		
Well	Water Strikes	Samples & In situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description			
		Depth (m)	Type	Results							
					0.15			Reinforced concrete.			
					0.40			MADE GROUND: Dense light brown sandy GRAVEL of fine to coarse angular and sub-angular limestone and sandstone (SUBBASE).			
					1.40			MADE GROUND: Loose becoming very loose dark grey very sandy GRAVEL of fine to coarse angular to sub-rounded limestone mudstone, tarmac, brick and slag.			
		1.00	C	N=2 (1,1/1,0,1,0)							1
		1.20	D								
					2.65			MADE GROUND: Very loose black locally orange and brown slightly clayey slightly gravelly fine SAND/SILT. Gravel is fine to coarse angular to sub-rounded limestone, tarmac, brick, slag, clinker, ceramic.			
		2.00	C	N=2 (1,1/0,1,1,0)							2
		2.70	D					Soft brown mottled orange brown silty slightly organic CLAY.			
		3.00	C	N=5 (1,1/2,1,1,1)							3
					3.75			Very soft bluish grey mottled brown organic CLAY with pockets of plastic amorphous peat.			
		4.00	C	N=3 (1,0/1,1,1,0)							4
		5.00	C	N=5 (2,1/2,1,1,1)	5.00			----- End of Borehole at 5.00 m -----			5
		Remarks: 1. No groundwater encountered.						Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation			



		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Unit 10, Maesglas Retail Park		Project No.: 14043		Borehole No.: WS11 Sheet 1 of 1	
Location: Newport				Client: Gervas Consulting Limited		Coordinates:		Hole Type: WLS	
Equipment: DART 540				Diameter of Casing:		Level:		Scale 1:25	
Diameter of Boring: 101mm				Depth of Casing:		Dates 27/05/2022 -		Logged By: OTJ	

Well	Water Strikes	Samples & In situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.07			Tarmac	
					0.20			MADE GROUND: Medium dense light brown sandy GRAVEL of fine to coarse angular and sub-angular limestone and sandstone (SUBBASE). MADE GROUND: Very loose dark grey very sandy GRAVEL of fine to coarse angular to sub-rounded limestone, tarmac, brick and slag.	
		1.00	C	N=2 (1,0/1,0,1,0)					1
		1.70	D		1.55			MADE GROUND: Very loose locally loose black locally orange and brown slightly clayey slightly gravelly fine SAND/SILT. Gravel is fine to coarse angular to sub-rounded limestone, tarmac, brick, slag, clinker, ceramic.	
		2.00	C	N=2 (1,0/0,1,0,1)					2
		3.00	C	N=7 (1,1/2,2,2,1)					3
		4.00	C	N=2 (1,0/1,0,1,0)					4
		5.00	C	N=2 (1,0/1,0,1,0)	5.00			End of Borehole at 5.00 m	5

Remarks: 1. No groundwater encountered.		Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation			
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		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Unit 10, Maesglas Retail Park		Project No.: 14043		Borehole No.: WS12 Sheet 1 of 1	
Location: Newport				Client: Gervas Consulting Limited		Coordinates:		Hole Type: WLS	
Equipment: DART 540				Diameter of Casing:		Level:		Scale 1:25	
Diameter of Boring: 101mm				Depth of Casing:		Dates 27/05/2022 -		Logged By: OTJ	

Well	Water Strikes	Samples & In situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.09			Tarmac	
					0.20			MADE GROUND: Dense light brown sandy GRAVEL of fine to coarse angular and sub-angular limestone and sandstone (SUBBASE).	
								MADE GROUND: Loose to very loose dark grey very sandy GRAVEL of fine to coarse angular to sub-rounded limestone mudstone, tarmac, brick and slag.	
		0.50	ES						
		1.00	C	N=3 (1,0/1,1,0,1)					1
					1.40			MADE GROUND: Loose becoming very loose black locally orange and brown slightly clayey gravelly fine SAND/SILT. Gravel is fine to coarse angular to sub-rounded limestone, tarmac, brick, slag, clinker, ceramic, glass and wood.	
		2.00	C	N=5 (2,1/1,2,1,1)					2
		3.00	C	N=2 (1,0/1,0,1,0)					3
		4.00	C	N=3 (1,0/0,1,1,1)					4
		5.00	C	N=3 (1,0/1,0,1,1)	5.00			End of Borehole at 5.00 m	5

Remarks: 1. No groundwater encountered.		Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation			
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APPENDIX C

LABORATORY CHEMICAL TEST RESULTS (SOILS)

Owain Thomas-Jenkins
Integral Geotechnique
Integral House
7 Beddau Way
Castlegate Business Park
CF83 2AX

t: 02920807991
f: 02920862176
e: owain@integralgeotec.com

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 22-61662

Project / Site name:	Maesglas	Samples received on:	30/05/2022
Your job number:	14043	Samples instructed on/ Analysis started on:	30/05/2022
Your order number:	14043 OTJ	Analysis completed by:	09/06/2022
Report Issue Number:	1	Report issued on:	09/06/2022
Samples Analysed:	10 soil samples		

Izabela Wójcik
Signed:

Izabela Wójcik
Reporting Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 22-61662
Project / Site name: Maesglas
Your Order No: 14043 OTJ

Lab Sample Number				2294890	2294891	2294892	2294893	2294894
Sample Reference				WS1	WS3	WS4	WS5	WS7
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.40	0.30	0.50	0.40	0.70
Date Sampled				26/05/2022	26/05/2022	26/05/2022	26/05/2022	27/05/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	51	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	5.3	14	17	5.7
Total mass of sample received	kg	0.001	NONE	0.4	0.4	0.4	0.4	1.3

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SFS	SFS	SFS	SFS	SFS

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	9	8.6	8.1	8.3	7.8
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	3.3	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	2000	1800	1300	2200	1000
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.21	0.11	0.2	0.32	0.21
Sulphide	mg/kg	1	MCERTS	190	U/S*	77	160	2.6
Total Sulphur	mg/kg	50	MCERTS	1000	3100	630	2000	540
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.6	3.6	2.6	4.1	0.7
Total Organic Carbon (TOC) - Manual	%	0.1	MCERTS	-	-	-	-	-
Loss on Ignition @ 450oC	%	0.2	MCERTS	3.6	13.3	6.9	26.2	3.2

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.89	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	10	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	7.6	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	1.3	66	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.2	8.5	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.81	54	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.71	69	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.5	15	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.61	17	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.62	12	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.22	6	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.35	12	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	5.4	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.9	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	8.3	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	6.2	292	< 0.80	< 0.80
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Analytical Report Number: 22-61662
 Project / Site name: Maesglas
 Your Order No: 14043 OTJ

Lab Sample Number				2294890	2294891	2294892	2294893	2294894
Sample Reference				WS1	WS3	WS4	WS5	WS7
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.40	0.30	0.50	0.40	0.70
Date Sampled				26/05/2022	26/05/2022	26/05/2022	26/05/2022	27/05/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	48	64	21	130	38
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.75	3.2	2.8	2.2	0.34
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4	0.3	1.4	4.3	0.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	4.1	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	9.6	26	38	15	38
Copper (aqua regia extractable)	mg/kg	1	MCERTS	210	120	140	40	56
Lead (aqua regia extractable)	mg/kg	1	MCERTS	240	52	280	27	26
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	0.7	1	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	13	33	59	37	20
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	14	54	79	26	99
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	1200	120	180	67	23

U/S = Unsuitable Sample I/S = Insufficient Sample
 * U/S - despite dilutions the result is out of calibration

Analytical Report Number: 22-61662
Project / Site name: Maesglas
Your Order No: 14043 OTJ

Lab Sample Number				2294895	2294896	2294897	2294898	2294899
Sample Reference				WS8	WS9	WS10	WS11	WS12
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.90	0.50	1.20	1.70	0.50
Date Sampled				27/05/2022	27/05/2022	27/05/2022	27/05/2022	27/05/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	18	8.6	14	31	12
Total mass of sample received	kg	0.001	NONE	0.4	0.4	1.3	0.4	0.4

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SFS	SFS	SFS	SFS	SFS

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.2	8.5	7.6	6	7.6
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1100	890	1200	1700	1100
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.079	0.051	0.083	0.17	0.18
Sulphide	mg/kg	1	MCERTS	18	21	4.4	5.1	15
Total Sulphur	mg/kg	50	MCERTS	570	620	920	1700	620
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	1.3	3.8	5.6	-	4.8
Total Organic Carbon (TOC) - Manual	%	0.1	MCERTS	-	-	-	8.7	-
Loss on Ignition @ 450oC	%	0.2	MCERTS	4.9	19.5	19.6	35.1	11.1

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.37	0.69	0.6	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	1.8	0.6	0.88	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	1.6	0.54	0.89	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.2	< 0.05	0.69	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	1.2	< 0.05	0.9	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1	< 0.05	0.55	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.43	< 0.05	0.39	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.67	< 0.05	0.36	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	8.2	1.83	5.26	< 0.80	< 0.80
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Analytical Report Number: 22-61662
Project / Site name: Maesglas
Your Order No: 14043 OTJ

Lab Sample Number				2294895	2294896	2294897	2294898	2294899
Sample Reference				WS8	WS9	WS10	WS11	WS12
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.90	0.50	1.20	1.70	0.50
Date Sampled				27/05/2022	27/05/2022	27/05/2022	27/05/2022	27/05/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	18	82	55	210	29
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.98	0.73	2.3	5.4	1.8
Boron (water soluble)	mg/kg	0.2	MCERTS	< 0.2	0.6	0.6	1.5	0.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	17	13	17	31	21
Copper (aqua regia extractable)	mg/kg	1	MCERTS	59	240	92	780	240
Lead (aqua regia extractable)	mg/kg	1	MCERTS	83	290	160	490	61
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	28	24	66	120	66
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	27	24	47	84	50
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	120	170	160	640	100

U/S = Unsuitable Sample I/S = Insufficient Sample

* U/S - despite dilutions the result is out of calibration

Analytical Report Number : 22-61662

Project / Site name: Maesglas

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2294890	WS1	None Supplied	0.4	Brown sand with gravel and coal.
2294891	WS3	None Supplied	0.3	Brown sandy loam with gravel and stones.
2294892	WS4	None Supplied	0.5	Brown clay and sand with gravel.
2294893	WS5	None Supplied	0.4	Black clay and sand with gravel.
2294894	WS7	None Supplied	0.7	Brown sandy loam with gravel.
2294895	WS8	None Supplied	0.9	Grey clay and sand with gravel.
2294896	WS9	None Supplied	0.5	Black sandy loam with gravel.
2294897	WS10	None Supplied	1.2	Black sand with gravel and clinker
2294898	WS11	None Supplied	1.7	Brown sand with gravel and clinker
2294899	WS12	None Supplied	0.5	Black sand with gravel and clinker

Analytical Report Number : 22-61662

Project / Site name: Maesglas

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In house method.	L047-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS

Analytical Report Number : 22-61662

Project / Site name: Maesglas

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L023-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

APPENDIX D

LABORATORY CHEMICAL TEST RESULTS (WAC)

Owain Thomas-Jenkins

Integral Geotechnique
Integral House
7 Beddau Way
Castlegate Business Park
CF83 2AX

t: 02920807991
f: 02920862176
e: owain@integralgeotec.com

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 22-61666

Project / Site name:	Maesglas	Samples received on:	30/05/2022
Your job number:	14043	Samples instructed on/ Analysis started on:	30/05/2022
Your order number:	14043 OTJ	Analysis completed by:	09/06/2022
Report Issue Number:	1	Report issued on:	09/06/2022
Samples Analysed:	2 10:1 WAC samples		


Signed:

Adam Fenwick
Technical Reviewer
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.



i2 Analytical

7 Woodshots Meadow
Croxley Green Business Park
Watford, WD18 8YS

Telephone: 01923 225404
Fax: 01923 237404
email: reception@i2analytical.com

Waste Acceptance Criteria Analytical Results							
Report No:	22-61666						
				Client: INTEGCEO			
Location	Maesglas						
Lab Reference (Sample Number)	2294911 / 2294912			Landfill Waste Acceptance Criteria			
Sampling Date	27/05/2022			Limits			
Sample ID	WS7			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Depth (m)	0.70						
Solid Waste Analysis							
TOC (%)**	0.7			3%	5%	6%	
Loss on Ignition (%) **	3.3			--	--	10%	
BTEX (µg/kg) **	< 10			6000	--	--	
Sum of PCBs (mg/kg) **	< 0.007			1	--	--	
Mineral Oil (mg/kg) EH, ID, CU, AL	< 10			500	--	--	
Total PAH (WAC-17) (mg/kg)	< 0.85			100	--	--	
pH (units)**	8.3			--	>6	--	
Acid Neutralisation Capacity (mmol / kg)	2.4			--	To be evaluated	To be evaluated	
Eluate Analysis							
	10:1		10:1	Limit values for compliance leaching test			
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	mg/l		mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)			
Arsenic *	< 0.0010		< 0.0100	0.5	2	25	
Barium *	0.0070		0.0665	20	100	300	
Cadmium *	< 0.0001		< 0.0008	0.04	1	5	
Chromium *	0.0009		0.0090	0.5	10	70	
Copper *	0.0085		0.081	2	50	100	
Mercury *	< 0.0005		< 0.0050	0.01	0.2	2	
Molybdenum *	0.0015		0.0145	0.5	10	30	
Nickel *	0.0030		0.028	0.4	10	40	
Lead *	0.0035		0.033	0.5	10	50	
Antimony *	0.0029		0.028	0.06	0.7	5	
Selenium *	0.0068		0.064	0.1	0.5	7	
Zinc *	0.010		0.095	4	50	200	
Chloride *	2.4		22	800	15000	25000	
Fluoride	< 0.050		< 0.50	10	150	500	
Sulphate *	7.4		70	1000	20000	50000	
TDS*	57		540	4000	60000	100000	
Phenol Index (Monohydric Phenols) *	< 0.010		< 0.10	1	-	-	
DOC	2.63		24.9	500	800	1000	
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.3						
Dry Matter (%)	94						
Moisture (%)	5.7						
Results are expressed on a dry weight basis, after correction for moisture content where applicable. * = UKAS accredited (liquid eluate analysis only)							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation ** = MCERTS accredited							
Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.							



i2 Analytical

7 Woodshots Meadow
Croxley Green Business Park
Watford, WD18 8YS

Telephone: 01923 225404
Fax: 01923 237404
email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results							
Report No:	22-61666						
				Client: INTEGCEO			
Location	Maesglas						
Lab Reference (Sample Number)	2294913 / 2294914			Landfill Waste Acceptance Criteria			
Sampling Date	27/05/2022			Limits			
Sample ID	WS10			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Depth (m)	1.20						
Solid Waste Analysis							
TOC (%)**	5.6			3%	5%	6%	
Loss on Ignition (%) **	18.5			--	--	10%	
BTEX (µg/kg) **	< 10			6000	--	--	
Sum of PCBs (mg/kg) **	< 0.007			1	--	--	
Mineral Oil (mg/kg) EH, ID, CU, AL	< 10			500	--	--	
Total PAH (WAC-17) (mg/kg)	5.26			100	--	--	
pH (units)**	7.9			--	>6	--	
Acid Neutralisation Capacity (mmol / kg)	2.2			--	To be evaluated	To be evaluated	
Eluate Analysis							
	10:1		10:1	Limit values for compliance leaching test			
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	mg/l		mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)			
Arsenic *	< 0.0010		< 0.0100	0.5	2	25	
Barium *	0.0082		0.0732	20	100	300	
Cadmium *	< 0.0001		< 0.0008	0.04	1	5	
Chromium *	0.0004		< 0.0040	0.5	10	70	
Copper *	0.0068		0.060	2	50	100	
Mercury *	< 0.0005		< 0.0050	0.01	0.2	2	
Molybdenum *	0.0009		0.0082	0.5	10	30	
Nickel *	0.0036		0.032	0.4	10	40	
Lead *	0.0010		< 0.010	0.5	10	50	
Antimony *	< 0.0017		< 0.017	0.06	0.7	5	
Selenium *	0.0057		0.051	0.1	0.5	7	
Zinc *	0.0066		0.059	4	50	200	
Chloride *	0.51		4.5	800	15000	25000	
Fluoride	0.091		0.81	10	150	500	
Sulphate *	2.2		20	1000	20000	50000	
TDS*	21		190	4000	60000	100000	
Phenol Index (Monohydric Phenols) *	< 0.010		< 0.10	1	-	-	
DOC	3.15		28.0	500	800	1000	
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.3						
Dry Matter (%)	86						
Moisture (%)	14						
Results are expressed on a dry weight basis, after correction for moisture content where applicable. * = UKAS accredited (liquid eluate analysis only)							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation ** = MCERTS accredited							
Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.							

Analytical Report Number : 22-61666

Project / Site name: Maesglas

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2294911	WS7	None Supplied	0.7	Brown sandy loam with gravel.
2294913	WS10	None Supplied	1.2	Black sand with gravel and clinker

Analytical Report Number : 22-61666

Project / Site name: Maesglas

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-2 (10:1) Leachate Prep	10:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-2.	L043-PL	W	NONE
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance""	L046-PL	W	NONE
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In house method.	L047-PL	D	MCERTS
Mineral Oil (Soil) C10 - C40	Determination of mineral oil fraction extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L076-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	MCERTS
PCB's By GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
pH at 20oC in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In house method.	L005-PL	W	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
BTEX in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Total BTEX in soil (Poland)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073-PL	W	MCERTS
Metals in leachate by ICP-OES	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination"	L033B-PL	W	ISO 17025
Sulphate 10:1 WAC	Determination of sulphate in leachate by ICP-OES	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by EC probe using a factor of 0.6.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L004-PL	W	ISO 17025

Analytical Report Number : 22-61666

Project / Site name: Maesglas

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Monohydric phenols 10:1 WAC	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved inorganic carbon in leachate by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
-	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

APPENDIX E

LABORATORY GEOTECHNICAL TEST RESULTS (SOILS)



Laboratory Report



Contract Number: 59836

Client Ref: **14043**

Client PO: **14043/otj**

Date Received: **01-06-2022**

Date Completed: **21-06-2022**

Report Date: **21-06-2022**

Client: **Integral Geotechnique (Wales) Limited**

7 Beddau Way

Castlegate Business Park

Caerphilly

Cardiff

CF83 2AX

This report has been checked and approved by:

Wayne Honey

Health and Safety Coordinator/ Quality Assistant

Contract Title: **Maesglas**

For the attention of: **Owain Thomas-Jenkins**

Test Description	Qty
Moisture Content BS 1377:1990 - Part 2 : 3.2 - * UKAS	4
4 Point Liquid & Plastic Limit BS 1377:1990 - Part 2 : 4.3 & 5.3 - * UKAS	4
Water Soluble Sulphate 2:1 extract Sub-contracted Test - @ Non Accredited Test	4
pH value of soil Sub-contracted Test - @ Non Accredited Test	4
Disposal of samples for job	1

Notes: **Observations and Interpretations are outside the UKAS Accreditation**

* - denotes test included in laboratory scope of accreditation

- denotes test carried out by approved contractor

@ - denotes non accredited tests

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved Signatories:

Brendan Evans (Office Administrator) - Emma Sharp (Business Support Manager) - Paul Evans (Director)

Richard John (Quality/Technical Manager) - Shaun Jones (Laboratory manager) - Shaun Thomas (Site Manager)

Wayne Honey (Health and Safety Coordinator/ Quality Assistant)

GEO Site & Testing Services Ltd

Units 3-4, Heol Aur, Dafen, Llanelli, Carmarthenshire, Wales SA14 8QN

Tel: 01554 784040 Fax: 01554 784041 info@gstl.co.uk gstl.co.uk



ANALYTICAL TEST REPORT

Contract no: 110234

Contract name: Maesglas

Client reference: 14043

Clients name: Geo Site & Testing Services

Clients address: Unit 3 and 4 Heol Aur
Dafen Industrial Estate, Dafen
Llanelli, Carmarthenshire
SA14 8QN

Samples received: 10 June 2022

Analysis started: 10 June 2022

Analysis completed: 17 June 2022

Report issued: 17 June 2022

Key

U	UKAS accredited test
M	MCERTS & UKAS accredited test
\$	Test carried out by an approved subcontractor
I/S	Insufficient sample to carry out test
N/S	Sample not suitable for testing

Approved by:

Megan Harris

Senior Reporting Administrator

Chemtech Environmental Limited

SOILS

Lab number			110234-1	110234-2	110234-3	110234-4
Sample id			WS1	WS3	WS5	WS10
Depth (m)			1.50	1.20	0.50	2.70
Sample Type			S	S	S	S
Date sampled			-	-	-	-
Test	Method	Units				
pH	CE004 ^U	units	8.0	7.9	8.2	8.2
Sulphate (2:1 water soluble)	CE061 ^U	mg/l SO ₄	83	88	93	35

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE004	pH	Based on BS 1377, pH Meter	As received	U	-	units
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	U	10	mg/l SO ₄

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
110234-1	WS1	1.50	Y	All (NSD)
110234-2	WS3	1.20	Y	All (NSD)
110234-3	WS5	0.50	Y	All (NSD)
110234-4	WS10	2.70	Y	All (NSD)

Chemtech Environmental Limited

ADDITIONAL INFORMATION

Notes

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.

Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.

All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.

Methods, procedures and performance data are available on request.

Results reported herein relate only to the material supplied to the laboratory.

This report shall not be reproduced except in full, without prior written approval.

Samples will be disposed of 4 weeks from initial receipt unless otherwise instructed.

For soils and solids, all results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

Analytical results are inclusive of stones, where applicable.

APPENDIX F

SUMMARY OF CHEMICAL TEST RESULTS (SOILS)

SUMMARY OF LABORATORY SOIL TEST RESULTS

METALS AND SEMI-METALS

Job No.: 14043
 Site: Unit 10 - Maesglas Retail Park
 Soil Type: Made Ground
 Soil Organic Matter: 1%

No.	Location	Depth (m)	Arsenic (mg/kg)	Boron (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (Elemental) (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
1	WS1	0.40	48	0.4	0.75	4.1	9.6	< 1.8	210	240	< 0.3	13	< 1.0	14	1200
2	WS3	0.30	64	0.3	3.2	< 0.2	26	< 1.8	120	52	0.7	33	< 1.0	54	120
3	WS4	0.50	21	1.4	2.8	< 0.2	38	< 1.8	140	280	1	59	< 1.0	79	180
4	WS5	0.40	130	4.3	2.2	< 0.2	15	< 1.8	40	27	< 0.3	37	< 1.0	26	67
5	WS7	0.70	38	0.8	0.34	< 0.2	38	< 1.8	56	26	< 0.3	20	< 1.0	99	23
6	WS8	0.90	18	< 0.2	0.98	< 0.2	17	< 1.8	59	83	< 0.3	28	< 1.0	27	120
7	WS9	0.50	82	0.6	0.73	< 0.2	13	< 1.8	240	290	< 0.3	24	< 1.0	24	170
8	WS10	1.20	55	0.6	2.3	< 0.2	17	< 1.8	92	160	< 0.3	66	< 1.0	47	160
9	WS11	1.70	210	1.5	5.4	< 0.2	31	< 1.8	780	490	< 0.3	120	< 1.0	84	640
10	WS12	0.50	29	0.6	1.8	< 0.2	21	< 1.8	240	61	< 0.3	66	< 1.0	50	100
Screening Criteria Value			640.0	240000.0	12.0	190.0	-	33.0	68000.0	2330.0	58.0	980.0	12000.0	9000.0	730000.0
Source of Screening Criteria Value			S4UL	S4UL	S4UL	S4UL	-	S4UL	S4UL	C4SL	S4UL	S4UL	S4UL	S4UL	S4UL

SUMMARY OF LABORATORY SOIL TEST RESULTS

INORGANIC CHEMICALS & OTHERS

Job No.: 14043
 Site: Unit 10 - Maesglas Retail Park
 Soil Type: Made Ground
 Soil Organic Matter: 1%

No.	Location	Depth (m)	Cyanide (mg/kg)	Loss on ignition, dried solids (%)	Moisture content at 30 C (%)	Phenol (mg/kg)	pH (pH units)	Water Soluble Sulphate (g/l)	Sulphate Total as SO4 (mg/kg)	Sulphide (mg/kg)	Total Sulphur (mg/kg)	TOC by Ignition in O2 (%)	Equivalent SOM (%)	Asbestos in Soil	Asbestos Quantification (%)
1	WS1	0.40	< 1.0	3.60	13.00	< 1.0	9.00	0.21	2000.00	190.00	1000.00	0.60	1.03	Not-detected	#N/A
2	WS3	0.30	< 1.0	13.30	5.30	< 1.0	8.60	0.11	1800.00	U/S*	3100.00	3.60	6.19	Not-detected	#N/A
3	WS4	0.50	3.30	6.90	14.00	< 1.0	8.10	0.20	1300.00	77.00	630.00	2.60	4.47	Not-detected	#N/A
4	WS5	0.40	< 1.0	26.20	17.00	< 1.0	8.30	0.32	2200.00	160.00	2000.00	4.10	7.05	Not-detected	#N/A
5	WS7	0.70	< 1.0	3.20	5.70	< 1.0	7.80	0.21	1000.00	2.60	540.00	0.70	1.20	Not-detected	#N/A
6	WS8	0.90	< 1.0	4.90	18.00	< 1.0	8.20	0.08	1100.00	18.00	570.00	1.30	2.24	Not-detected	#N/A
7	WS9	0.50	< 1.0	19.50	8.60	< 1.0	8.50	0.05	890.00	21.00	620.00	3.80	6.54	Not-detected	#N/A
8	WS10	1.20	< 1.0	19.60	14.00	< 1.0	7.60	0.08	1200.00	4.40	920.00	5.60	9.63	Not-detected	#N/A
9	WS11	1.70	< 1.0	35.10	31.00	< 1.0	6.00	0.17	1700.00	5.10	1700.00	-	<0.1	Not-detected	#N/A
10	WS12	0.50	< 1.0	11.10	12.00	< 1.0	7.60	0.18	1100.00	15.00	620.00	4.80	8.26	Not-detected	#N/A
Screening Criteria Value			34.0	-	-	440.0	-	-	-	-	-	-	-	-	0.001
Source of Screening Criteria Value			ATRISK	-	-	S4UL	-	-	-	-	-	-	-	-	IOM

SUMMARY OF LABORATORY SOIL TEST RESULTS

POLYAROMATIC HYDROCARBONS (PAH)

Job No.: 14043
Site: Unit 10 - Maesglas Retail Park
Soil Type: Made Ground
Soil Organic Matter: 1%

No.	Location	Depth (m)	Acenaphthene (mg/kg)	Acenaphthylene (mg/kg)	Anthracene (mg/kg)	Benzo(a)anthracene (mg/kg)	Benzo(a)pyrene (mg/kg)	Benzo(b)fluoranthene (mg/kg)	Benzo(ghi)perylene (mg/kg)	Benzo(k)fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(ah)anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(123cd)pyrene (mg/kg)	Naphthalene (mg/kg)	Phenanthrene (mg/kg)	Pyrene (mg/kg)
1	WS1	0.40	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2	WS3	0.30	< 0.05	< 0.05	0.2	0.5	0.35	0.62	< 0.05	0.22	0.61	< 0.05	0.81	< 0.05	< 0.05	0.89	1.3	0.71
3	WS4	0.50	10	< 0.05	8.5	15	12	12	8.3	6	17	1.9	54	7.6	5.4	< 0.05	66	69
4	WS5	0.40	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
5	WS7	0.70	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
6	WS8	0.90	< 0.05	< 0.05	< 0.05	1.2	0.67	1	< 0.05	0.43	1.2	< 0.05	1.8	< 0.05	< 0.05	< 0.05	0.37	1.6
7	WS9	0.50	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.6	< 0.05	< 0.05	< 0.05	0.69	0.54
8	WS10	1.20	< 0.05	< 0.05	< 0.05	0.69	0.36	0.55	< 0.05	0.39	0.9	< 0.05	0.88	< 0.05	< 0.05	< 0.05	0.6	0.89
9	WS11	1.70	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
10	WS12	0.50	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Screening Criteria Value			84000.0	83000.0	520000.0	170.0	35.0	44.0	3900.0	1200.0	350.0	3.50	23000.0	63000.0	500.0	190.0	22000.0	54000.0
Source of Screening Criteria Value			S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL

APPENDIX G

HAZWASTEONLINE PRELIMINARY WASTE CLASSIFICATION REPORT – MADE GROUND

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

- understand the origin of the waste
- select the correct List of Waste code(s)
- confirm that the list of determinands, results and sampling plan are fit for purpose
- select and justify the chosen metal species (Appendix B)
- correctly apply moisture correction and other available corrections
- add the meta data for their user-defined substances (Appendix A)
- check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)



Q209H-4Q16V-D601Y

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in **pale yellow**.

Job name

14043 Maesglas

Description/Comments

Project

14043 Maesglas

Site

14043 Maesglas

Classified by

Name: **Jack Jones**
 Date: **28 Jun 2022 10:24 GMT**
 Telephone: **02920 807991**
 Company: **Intégral Géotechnique (Wales) Limited**
Intégral House, 7 Beddau Way, Castlegate
Business Park
Caerphilly
CF83 2AX

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification:

Course
 Hazardous Waste Classification

Date
 50% complete

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	WS1	0.40	Non Hazardous		2
2	WS3	0.30	Non Hazardous		4
3	WS4	0.50	Non Hazardous		6
4	WS5	0.40	Non Hazardous		8
5	WS7	0.70	Non Hazardous		10
6	WS8	0.90	Non Hazardous		12
7	WS9	0.50	Non Hazardous		14
8	WS10	1.20	Non Hazardous		16
9	WS11	1.70	Non Hazardous		18
10	WS12	0.50	Non Hazardous		20

Related documents

#	Name	Description
1	Made Ground	waste stream template used to create this Job

Report

Created by: Jack Jones

Created date: 28 Jun 2022 10:24 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	22
Appendix B: Rationale for selection of metal species	23
Appendix C: Version	23

Classification of sample: WS1

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS1	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.40 m	
Moisture content:	
13%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **13% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	48 mg/kg	1.32	63.376 mg/kg	0.00634 %			
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
8	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.75 mg/kg	2.775	2.082 mg/kg	0.000208 %			
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.4 mg/kg	13.43	5.372 mg/kg	0.000537 %			
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	4.1 mg/kg	1.285	5.27 mg/kg	0.00041 %			
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		9.6 mg/kg	1.462	14.031 mg/kg	0.0014 %			
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.8 mg/kg	1.923	<3.462 mg/kg	<0.000346 %			<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	copper { dicopper oxide; copper (I) oxide }				210 mg/kg	1.126	236.437 mg/kg	0.0236 %			
	029-002-00-X	215-270-7	1317-39-1								
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
18	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
19	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-912-4	206-44-0								
20	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
21	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
22	lead { lead chromate }			1	240 mg/kg	1.56	374.356 mg/kg	0.024 %			
	082-004-00-2	231-846-0	7758-97-6								
23	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
25	nickel { nickel dihydroxide }				13 mg/kg	1.579	20.533 mg/kg	0.00205 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
26	pH				9 pH		9 pH	9pH			
			PH								
27	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-581-5	85-01-8								
28	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
29	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-927-3	129-00-0								
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
31	zinc { zinc oxide }				1200 mg/kg	1.245	1493.657 mg/kg	0.149 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									0.209 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS3

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS3	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.30 m	
Moisture content:	
5.3%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 5.3% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		0.2 mg/kg		0.2 mg/kg		0.00002 %		
4	arsenic { arsenic trioxide }	215-481-4	1327-53-3		64 mg/kg	1.32	84.501 mg/kg		0.00845 %		
5	benzo[a]anthracene	200-280-6	56-55-3		0.5 mg/kg		0.5 mg/kg		0.00005 %		
6	benzo[a]pyrene; benzo[def]chrysene	200-028-5	50-32-8		0.35 mg/kg		0.35 mg/kg		0.000035 %		
7	benzo[b]fluoranthene	205-911-9	205-99-2		0.62 mg/kg		0.62 mg/kg		0.000062 %		
8	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
9	benzo[k]fluoranthene	205-916-6	207-08-9		0.22 mg/kg		0.22 mg/kg		0.000022 %		
10	beryllium { beryllium oxide }	215-133-1	1304-56-9		3.2 mg/kg	2.775	8.881 mg/kg		0.000888 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.3 mg/kg	13.43	4.029 mg/kg		0.000403 %		
12	cadmium { cadmium sulfide }	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg		<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		26 mg/kg	1.462	38 mg/kg		0.0038 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	215-607-8	1333-82-0		<1.8 mg/kg	1.923	<3.462 mg/kg		<0.000346 %		<LOD
15	chrysene	205-923-4	218-01-9		0.61 mg/kg		0.61 mg/kg		0.000061 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	copper { dicopper oxide; copper (I) oxide }				120 mg/kg	1.126	135.107 mg/kg	0.0135 %			
	029-002-00-X	215-270-7	1317-39-1								
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
18	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
19	fluoranthene				0.81 mg/kg		0.81 mg/kg	0.000081 %			
		205-912-4	206-44-0								
20	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
21	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
22	lead { lead chromate }			1	52 mg/kg	1.56	81.11 mg/kg	0.0052 %			
	082-004-00-2	231-846-0	7758-97-6								
23	mercury { mercury dichloride }				0.7 mg/kg	1.353	0.947 mg/kg	0.0000947 %			
	080-010-00-X	231-299-8	7487-94-7								
24	naphthalene				0.89 mg/kg		0.89 mg/kg	0.000089 %			
	601-052-00-2	202-049-5	91-20-3								
25	nickel { nickel dihydroxide }				33 mg/kg	1.579	52.123 mg/kg	0.00521 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
26	pH				8.6 pH		8.6 pH	8.6 pH			
			PH								
27	phenanthrene				1.3 mg/kg		1.3 mg/kg	0.00013 %			
		201-581-5	85-01-8								
28	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
29	pyrene				0.71 mg/kg		0.71 mg/kg	0.000071 %			
		204-927-3	129-00-0								
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
31	zinc { zinc oxide }				120 mg/kg	1.245	149.366 mg/kg	0.0149 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									0.0539 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS4

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS4	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.50 m	
Moisture content:	
14%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 14% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	acenaphthene	201-469-6	83-32-9		10 mg/kg		10	mg/kg	0.001 %		
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		8.5 mg/kg		8.5	mg/kg	0.00085 %		
4	arsenic { arsenic trioxide }	215-481-4	1327-53-3		21 mg/kg	1.32	27.727	mg/kg	0.00277 %		
5	benzo[a]anthracene	200-280-6	56-55-3		15 mg/kg		15	mg/kg	0.0015 %		
6	benzo[a]pyrene; benzo[def]chrysene	200-028-5	50-32-8		12 mg/kg		12	mg/kg	0.0012 %		
7	benzo[b]fluoranthene	205-911-9	205-99-2		12 mg/kg		12	mg/kg	0.0012 %		
8	benzo[ghi]perylene	205-883-8	191-24-2		8.3 mg/kg		8.3	mg/kg	0.00083 %		
9	benzo[k]fluoranthene	205-916-6	207-08-9		6 mg/kg		6	mg/kg	0.0006 %		
10	beryllium { beryllium oxide }	215-133-1	1304-56-9		2.8 mg/kg	2.775	7.771	mg/kg	0.000777 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		1.4 mg/kg	13.43	18.802	mg/kg	0.00188 %		
12	cadmium { cadmium sulfide }	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		38 mg/kg	1.462	55.539	mg/kg	0.00555 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	215-607-8	1333-82-0		<1.8 mg/kg	1.923	<3.462	mg/kg	<0.000346 %		<LOD
15	chrysene	205-923-4	218-01-9		17 mg/kg		17	mg/kg	0.0017 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	copper { dicopper oxide; copper (I) oxide }				140 mg/kg	1.126	157.624 mg/kg	0.0158 %			
	029-002-00-X	215-270-7	1317-39-1								
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				3.3 mg/kg	1.884	6.217 mg/kg	0.000622 %			
	006-007-00-5										
18	dibenz[a,h]anthracene				1.9 mg/kg		1.9 mg/kg	0.00019 %			
	601-041-00-2	200-181-8	53-70-3								
19	fluoranthene				54 mg/kg		54 mg/kg	0.0054 %			
		205-912-4	206-44-0								
20	fluorene				7.6 mg/kg		7.6 mg/kg	0.00076 %			
		201-695-5	86-73-7								
21	indeno[123-cd]pyrene				5.4 mg/kg		5.4 mg/kg	0.00054 %			
		205-893-2	193-39-5								
22	lead { lead chromate }			1	280 mg/kg	1.56	436.748 mg/kg	0.028 %			
	082-004-00-2	231-846-0	7758-97-6								
23	mercury { mercury dichloride }				1 mg/kg	1.353	1.353 mg/kg	0.000135 %			
	080-010-00-X	231-299-8	7487-94-7								
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
25	nickel { nickel dihydroxide }				59 mg/kg	1.579	93.19 mg/kg	0.00932 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
26	pH				8.1 pH		8.1 pH	8.1 pH			
			PH								
27	phenanthrene				66 mg/kg		66 mg/kg	0.0066 %			
		201-581-5	85-01-8								
28	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
29	pyrene				69 mg/kg		69 mg/kg	0.0069 %			
		204-927-3	129-00-0								
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
31	zinc { zinc oxide }				180 mg/kg	1.245	224.049 mg/kg	0.0224 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									0.117 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS5

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS5	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.40 m	
Moisture content:	
17%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 17% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
4	arsenic { arsenic trioxide }	215-481-4	1327-53-3		130 mg/kg	1.32	171.642 mg/kg	0.0172 %			
5	benzo[a]anthracene	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
6	benzo[a]pyrene; benzo[def]chrysene	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
7	benzo[b]fluoranthene	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
8	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
9	benzo[k]fluoranthene	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
10	beryllium { beryllium oxide }	215-133-1	1304-56-9		2.2 mg/kg	2.775	6.106 mg/kg	0.000611 %			
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		4.3 mg/kg	13.43	57.749 mg/kg	0.00577 %			
12	cadmium { cadmium sulfide }	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %			<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		15 mg/kg	1.462	21.923 mg/kg	0.00219 %			
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	215-607-8	1333-82-0		<1.8 mg/kg	1.923	<3.462 mg/kg	<0.000346 %			<LOD
15	chrysene	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	copper { dicopper oxide; copper (I) oxide }				40 mg/kg	1.126	45.036 mg/kg	0.0045 %			
	029-002-00-X	215-270-7	1317-39-1								
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
18	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
19	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-912-4	206-44-0								
20	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
21	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
22	lead { lead chromate }			1	27 mg/kg	1.56	42.115 mg/kg	0.0027 %			
	082-004-00-2	231-846-0	7758-97-6								
23	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
25	nickel { nickel dihydroxide }				37 mg/kg	1.579	58.441 mg/kg	0.00584 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
26	pH				8.3 pH		8.3 pH	8.3 pH			
			PH								
27	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-581-5	85-01-8								
28	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
29	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-927-3	129-00-0								
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
31	zinc { zinc oxide }				67 mg/kg	1.245	83.396 mg/kg	0.00834 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									0.048 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS7

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS7	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.70 m	
Moisture content:	
5.7%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 5.7% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	38 mg/kg	1.32	50.172 mg/kg	0.00502 %			
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
8	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.34 mg/kg	2.775	0.944 mg/kg	0.0000944 %			
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.8 mg/kg	13.43	10.744 mg/kg	0.00107 %			
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %			<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		38 mg/kg	1.462	55.539 mg/kg	0.00555 %			
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.8 mg/kg	1.923	<3.462 mg/kg	<0.000346 %			<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	copper { dicopper oxide; copper (I) oxide }				56 mg/kg	1.126	63.05 mg/kg	0.0063 %			
	029-002-00-X	215-270-7	1317-39-1								
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
18	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
19	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-912-4	206-44-0								
20	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
21	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
22	lead { lead chromate }			1	26 mg/kg	1.56	40.555 mg/kg	0.0026 %			
	082-004-00-2	231-846-0	7758-97-6								
23	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
25	nickel { nickel dihydroxide }				20 mg/kg	1.579	31.59 mg/kg	0.00316 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
26	pH				7.8 pH		7.8 pH	7.8 pH			
			PH								
27	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-581-5	85-01-8								
28	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
29	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-927-3	129-00-0								
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
31	zinc { zinc oxide }				23 mg/kg	1.245	28.628 mg/kg	0.00286 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									0.0276 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS8



Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS8	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.90 m	
Moisture content:	
18%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 18% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	18 mg/kg	1.32	23.766 mg/kg		0.00238 %		
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	1.2 mg/kg		1.2 mg/kg		0.00012 %		
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.67 mg/kg		0.67 mg/kg		0.000067 %		
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	1 mg/kg		1 mg/kg		0.0001 %		
8	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.43 mg/kg		0.43 mg/kg		0.000043 %		
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.98 mg/kg	2.775	2.72 mg/kg		0.000272 %		
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		<0.2 mg/kg	13.43	<2.686 mg/kg		<0.000269 %		<LOD
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg		<0.00002 %		<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		17 mg/kg	1.462	24.846 mg/kg		0.00248 %		
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.8 mg/kg	1.923	<3.462 mg/kg		<0.000346 %		<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9	1.2 mg/kg		1.2 mg/kg		0.00012 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	copper { dicopper oxide; copper (I) oxide }				59 mg/kg	1.126	66.427 mg/kg	0.00664 %			
	029-002-00-X	215-270-7	1317-39-1								
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
18	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
19	fluoranthene				1.8 mg/kg		1.8 mg/kg	0.00018 %			
		205-912-4	206-44-0								
20	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
21	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
22	lead { lead chromate }			1	83 mg/kg	1.56	129.465 mg/kg	0.0083 %			
	082-004-00-2	231-846-0	7758-97-6								
23	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
25	nickel { nickel dihydroxide }				28 mg/kg	1.579	44.226 mg/kg	0.00442 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
26	pH				8.2 pH		8.2 pH	8.2 pH			
			PH								
27	phenanthrene				0.37 mg/kg		0.37 mg/kg	0.000037 %			
		201-581-5	85-01-8								
28	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
29	pyrene				1.6 mg/kg		1.6 mg/kg	0.00016 %			
		204-927-3	129-00-0								
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
31	zinc { zinc oxide }				120 mg/kg	1.245	149.366 mg/kg	0.0149 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									0.0414 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS9

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS9	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.50 m	
Moisture content:	
8.6%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 8.6% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	82 mg/kg	1.32	108.267 mg/kg	0.0108 %			
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
8	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.73 mg/kg	2.775	2.026 mg/kg	0.000203 %			
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.6 mg/kg	13.43	8.058 mg/kg	0.000806 %			
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %			<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		13 mg/kg	1.462	19 mg/kg	0.0019 %			
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.8 mg/kg	1.923	<3.462 mg/kg	<0.000346 %			<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	copper { dicopper oxide; copper (I) oxide }				240 mg/kg	1.126	270.213 mg/kg	0.027 %			
	029-002-00-X	215-270-7	1317-39-1								
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
18	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
19	fluoranthene				0.6 mg/kg		0.6 mg/kg	0.00006 %			
		205-912-4	206-44-0								
20	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
21	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
22	lead { lead chromate }			1	290 mg/kg	1.56	452.346 mg/kg	0.029 %			
	082-004-00-2	231-846-0	7758-97-6								
23	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
25	nickel { nickel dihydroxide }				24 mg/kg	1.579	37.908 mg/kg	0.00379 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
26	pH				8.5 pH		8.5 pH	8.5 pH			
			PH								
27	phenanthrene				0.69 mg/kg		0.69 mg/kg	0.000069 %			
		201-581-5	85-01-8								
28	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
29	pyrene				0.54 mg/kg		0.54 mg/kg	0.000054 %			
		204-927-3	129-00-0								
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
31	zinc { zinc oxide }				170 mg/kg	1.245	211.601 mg/kg	0.0212 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									0.0958 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS10

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS10	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.20 m	
Moisture content:	
14%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 14% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	55 mg/kg	1.32	72.618 mg/kg	0.00726 %			
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.69 mg/kg		0.69 mg/kg	0.000069 %			
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.36 mg/kg		0.36 mg/kg	0.000036 %			
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.55 mg/kg		0.55 mg/kg	0.000055 %			
8	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.39 mg/kg		0.39 mg/kg	0.000039 %			
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	2.3 mg/kg	2.775	6.383 mg/kg	0.000638 %			
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.6 mg/kg	13.43	8.058 mg/kg	0.000806 %			
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %			<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		17 mg/kg	1.462	24.846 mg/kg	0.00248 %			
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.8 mg/kg	1.923	<3.462 mg/kg	<0.000346 %			<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9	0.9 mg/kg		0.9 mg/kg	0.00009 %			

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	copper { dicopper oxide; copper (I) oxide }				92 mg/kg	1.126	103.582 mg/kg	0.0104 %			
	029-002-00-X	215-270-7	1317-39-1								
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
18	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
19	fluoranthene				0.88 mg/kg		0.88 mg/kg	0.000088 %			
		205-912-4	206-44-0								
20	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
21	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
22	lead { lead chromate }			1	160 mg/kg	1.56	249.57 mg/kg	0.016 %			
	082-004-00-2	231-846-0	7758-97-6								
23	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
25	nickel { nickel dihydroxide }				66 mg/kg	1.579	104.247 mg/kg	0.0104 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
26	pH				7.6 pH		7.6 pH	7.6 pH			
			PH								
27	phenanthrene				0.6 mg/kg		0.6 mg/kg	0.00006 %			
		201-581-5	85-01-8								
28	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
29	pyrene				0.89 mg/kg		0.89 mg/kg	0.000089 %			
		204-927-3	129-00-0								
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
31	zinc { zinc oxide }				160 mg/kg	1.245	199.154 mg/kg	0.0199 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									0.0693 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS11

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS11	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.70 m	
Moisture content:	
31%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 31% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	210 mg/kg	1.32	277.268 mg/kg	0.0277 %			
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
8	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	5.4 mg/kg	2.775	14.987 mg/kg	0.0015 %			
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		1.5 mg/kg	13.43	20.145 mg/kg	0.00201 %			
12	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %			<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		31 mg/kg	1.462	45.308 mg/kg	0.00453 %			
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1.8 mg/kg	1.923	<3.462 mg/kg	<0.000346 %			<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	 copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1							
					780 mg/kg	1.126	878.193 mg/kg	0.0878 %			
17	 cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5									
					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
18	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3							
					<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
19	fluoranthene		205-912-4	206-44-0							
					<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
20	fluorene		201-695-5	86-73-7							
					<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
21	indeno[123-cd]pyrene		205-893-2	193-39-5							
					<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
22	 lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1						
					490 mg/kg	1.56	764.309 mg/kg	0.049 %			
23	 mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7							
					<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
24	naphthalene	601-052-00-2	202-049-5	91-20-3							
					<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
25	 nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]							
					120 mg/kg	1.579	189.54 mg/kg	0.019 %			
26	pH			PH							
					6 pH		6 pH	6pH			
27	phenanthrene		201-581-5	85-01-8							
					<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
28	phenol	604-001-00-2	203-632-7	108-95-2							
					<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
29	pyrene		204-927-3	129-00-0							
					<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
30	 selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8									
					<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
31	 zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2							
					640 mg/kg	1.245	796.617 mg/kg	0.0797 %			
Total:									0.272 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS12

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS12	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.50 m	
Moisture content:	
12%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **12% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
3	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
4	arsenic { arsenic trioxide }	215-481-4	1327-53-3		29 mg/kg	1.32	38.289 mg/kg	0.00383 %			
5	benzo[a]anthracene	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
6	benzo[a]pyrene; benzo[def]chrysene	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
7	benzo[b]fluoranthene	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
8	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
9	benzo[k]fluoranthene	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
10	beryllium { beryllium oxide }	215-133-1	1304-56-9		1.8 mg/kg	2.775	4.996 mg/kg	0.0005 %			
11	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.6 mg/kg	13.43	8.058 mg/kg	0.000806 %			
12	cadmium { cadmium sulfide }	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %			<LOD
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		21 mg/kg	1.462	30.693 mg/kg	0.00307 %			
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	215-607-8	1333-82-0		<1.8 mg/kg	1.923	<3.462 mg/kg	<0.000346 %			<LOD
15	chrysene	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	copper { dicopper oxide; copper (I) oxide }				240 mg/kg	1.126	270.213 mg/kg	0.027 %			
	029-002-00-X	215-270-7	1317-39-1								
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
18	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
19	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-912-4	206-44-0								
20	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
21	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
22	lead { lead chromate }			1	61 mg/kg	1.56	95.149 mg/kg	0.0061 %			
	082-004-00-2	231-846-0	7758-97-6								
23	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
24	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
25	nickel { nickel dihydroxide }				66 mg/kg	1.579	104.247 mg/kg	0.0104 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
26	pH				7.6 pH		7.6 pH	7.6 pH			
			PH								
27	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-581-5	85-01-8								
28	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
29	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-927-3	129-00-0								
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
31	zinc { zinc oxide }				100 mg/kg	1.245	124.471 mg/kg	0.0124 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									0.0651 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Appendix A: Classifier defined and non GB MCL determinands

■ **acenaphthene** (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315, Aquatic Acute 1; H400, Aquatic Chronic 1; H410, Aquatic Chronic 2; H411

■ **acenaphthylene** (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H302, Acute Tox. 1; H330, Acute Tox. 1; H310, Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315

■ **anthracene** (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315, Skin Sens. 1; H317, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

■ **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 23 Jul 2015

Hazard Statements: Aquatic Acute 1; H400, Aquatic Chronic 1; H410

■ **boron tribromide/trichloride/trifluoride (combined)** (CAS Number: 10294-33-4, 10294-34-5, 7637-07-2)

Description/Comments: Combines the hazard statements and the average of the conversion factors for boron tribromide, boron trichloride and boron trifluoride

Data source: N/A

Data source date: 06 Aug 2015

Hazard Statements: EUH014, Acute Tox. 2; H330, Acute Tox. 2; H300, Skin Corr. 1A; H314, Skin Corr. 1B; H314

■ **chromium(III) oxide (worst case)** (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database

Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H332, Acute Tox. 4; H302, Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315, Resp. Sens. 1; H334, Skin Sens. 1; H317, Repr. 1B; H360FD, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

■ **salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex**

GB MCL index number: 006-007-00-5

Description/Comments: Conversion factor based on a worst case compound: sodium cyanide

Additional Hazard Statement(s): EUH032 >= 0.2 %

Reason for additional Hazard(s) Statement(s):

20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

■ **fluoranthene** (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Acute Tox. 4; H302, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

■ **fluorene** (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Aquatic Acute 1; H400, Aquatic Chronic 1; H410

■ **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Carc. 2; H351

▪ **pH** (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

▪ **phenanthrene** (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

▪ **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Worst case species based on hazard statements

beryllium {beryllium oxide}

Worst case species based on hazard statements

boron {boron tribromide/trichloride/trifluoride (combined)}

Worst case species based on hazard statements

cadmium {cadmium sulfide}

Worst case species based on hazard statements

chromium in chromium(III) compounds {chromium(III) oxide (worst case)}

Worst case species based on hazard statements

chromium in chromium(VI) compounds {chromium(VI) oxide}

Worst case species based on hazard statements

copper {dicopper oxide; copper (I) oxide}

Most likely common species

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Worst case species

lead {lead chromate}

Worst case species based on hazard statements

mercury {mercury dichloride}

Worst case species based on hazard statements

nickel {nickel dihydroxide}

Worst case species based on hazard statements

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Worst case species based on hazard statements

zinc {zinc oxide}

There isn't enough Cr(VI) to make hazardous levels of the Metal chromate

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.2.GB - Oct 2021**
HazWasteOnline Classification Engine Version: 2022.176.5209.9795 (25 Jun 2022)
HazWasteOnline Database: 2022.176.5209.9795 (25 Jun 2022)

This classification utilises the following guidance and legislation:

WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

14th ATP - Regulation (EU) 2020/217 of 4 October 2019

15th ATP - Regulation (EU) 2020/1182 of 19 May 2020

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK:

2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021

FIGURES

Site Location

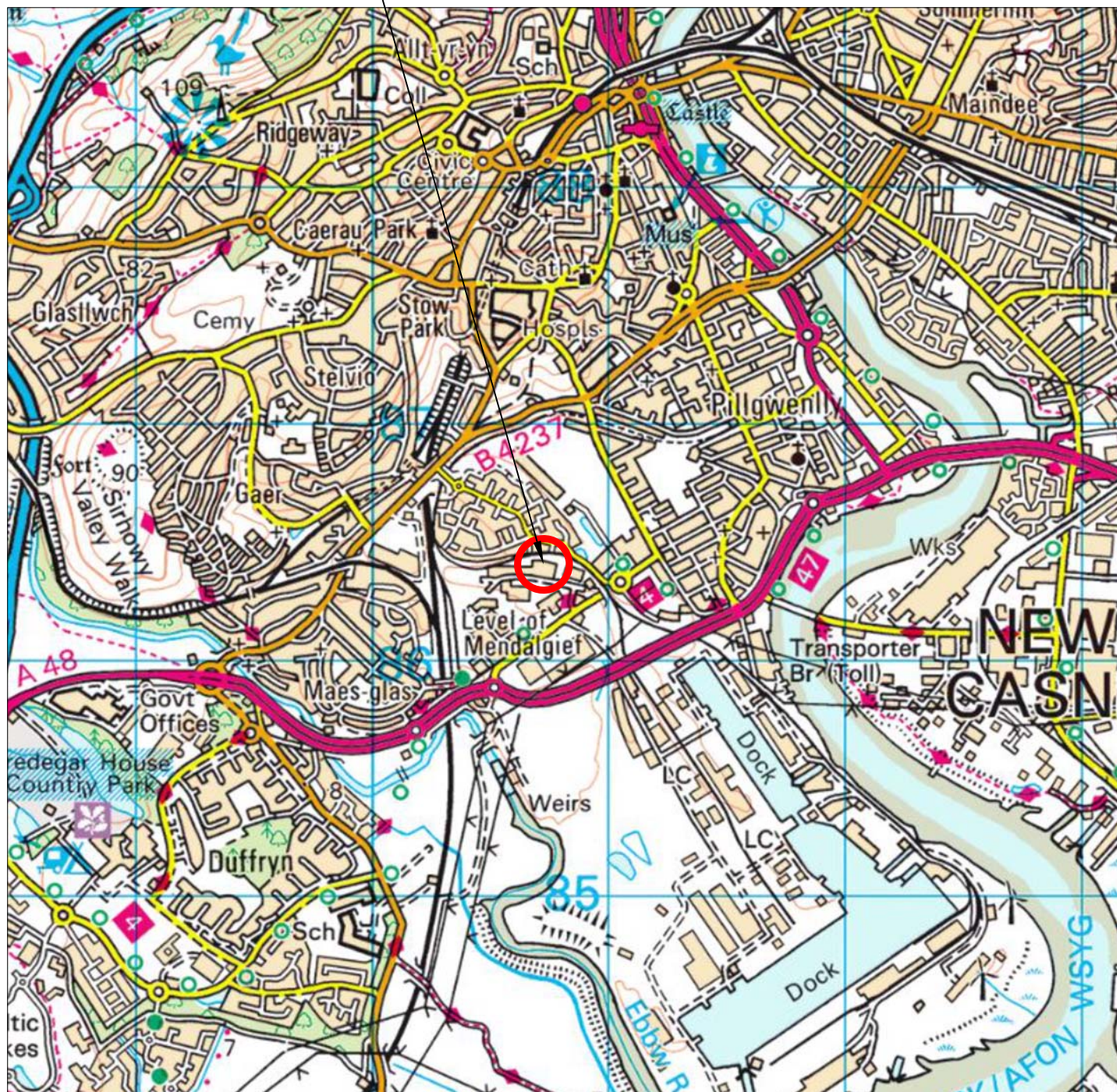


Figure 1: Site Location Map

Project: Unit 10, Maesglas Retail Park

Job no.: 14043

Client: Valley Wholesale Carpets Ltd

Scale: 1:25,000 at A4

Intégral
Géotechnique

Integral House,
7 Beddau Way,
Castlegate Business Park,
Caerphilly,
CF83 2AX.
Tel: 029 2080 7991

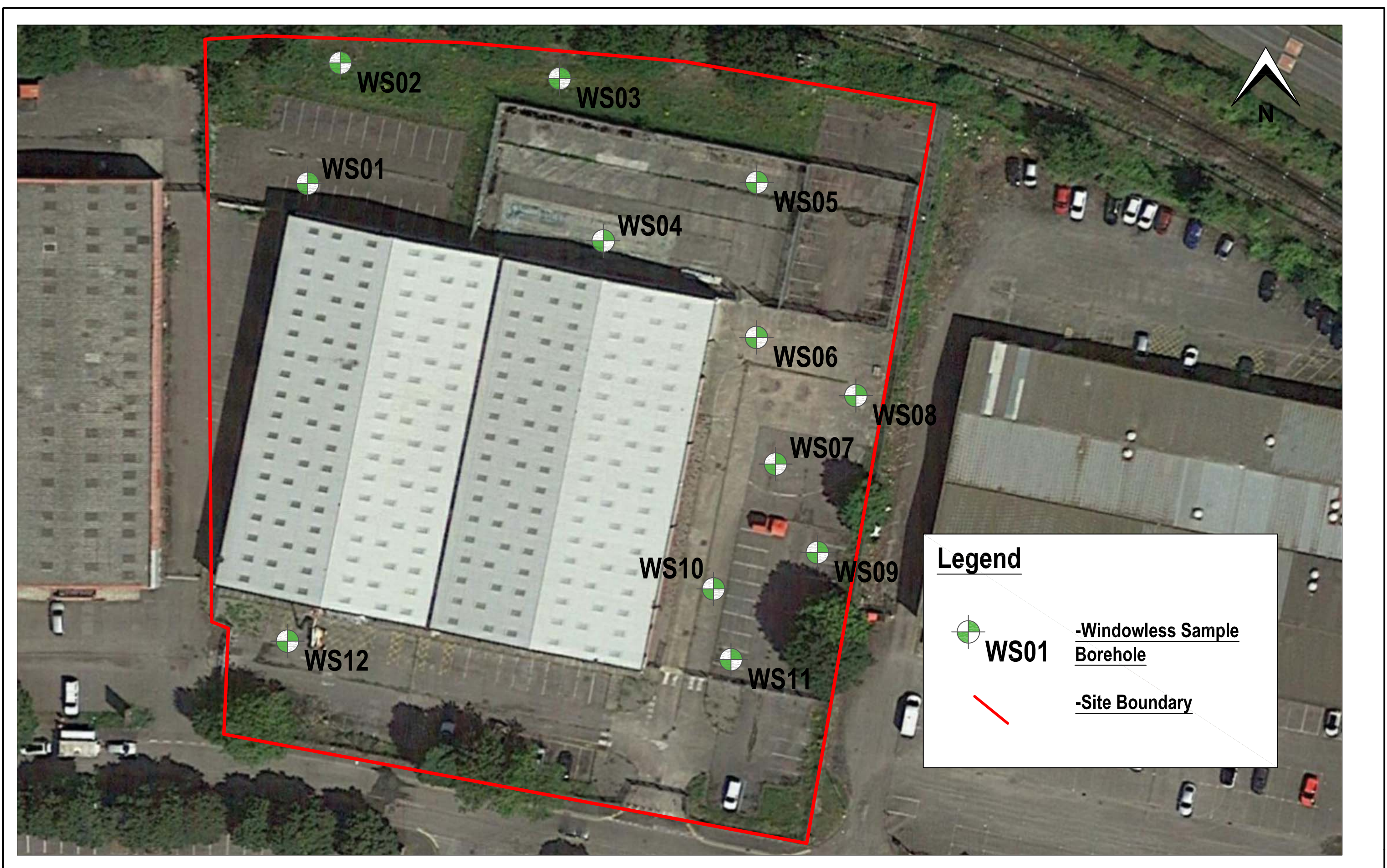


Figure 2: Exploratory Hole Location Plan