APPENDIX III GEOLOGICAL MAPS

# Geology 1:50,000 Maps Legends

## **Artificial Ground and Landslip**

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WMGR	Infilled Ground	Artificial Deposit	Cenozoic - Cenozoic
$\mathbb{N}$	WGR	Worked Ground (Undivided)	Void	Holocene - Holocene
$\mathbb{Z}$	MGR	Made Ground (Undivided)	Artificial Deposit	Holocene - Holocene

## **Superficial Geology**

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	TFD	Tidal Flat Deposits	Clay, Silty, Sandy [Unlithified Deposits Coding Scheme]	Holocene - Holocene
	TILLD	Till, Devensian	Clay, Sandy, Gravelly, Cobbly [Unlithified Deposits Coding Scheme]	Devensian - Devensian

## **Bedrock and Faults**

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	TPSF	Tarporley Siltstone Formation	Siltstone, Mudstone and Sandstone	Anisian - Olenekian
	HEY	Helsby Sandstone Formation	Sandstone	Anisian - Early Triassic
	WLSF	Wilmslow Sandstone Formation	Sandstone	Early Triassic - Early Triassic
	CPB	Chester Pebble Beds Formation	Sandstone, Pebbly (Gravelly)	Early Triassic - Early Triassic
		Faults		



## Geology 1:50,000 Maps

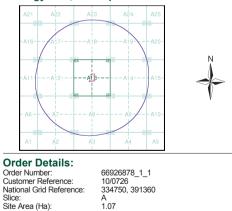
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published 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

1
096
Liverpool
2006
Available
Available
Available
Not Supplied
Available
Not Supplied

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



1000

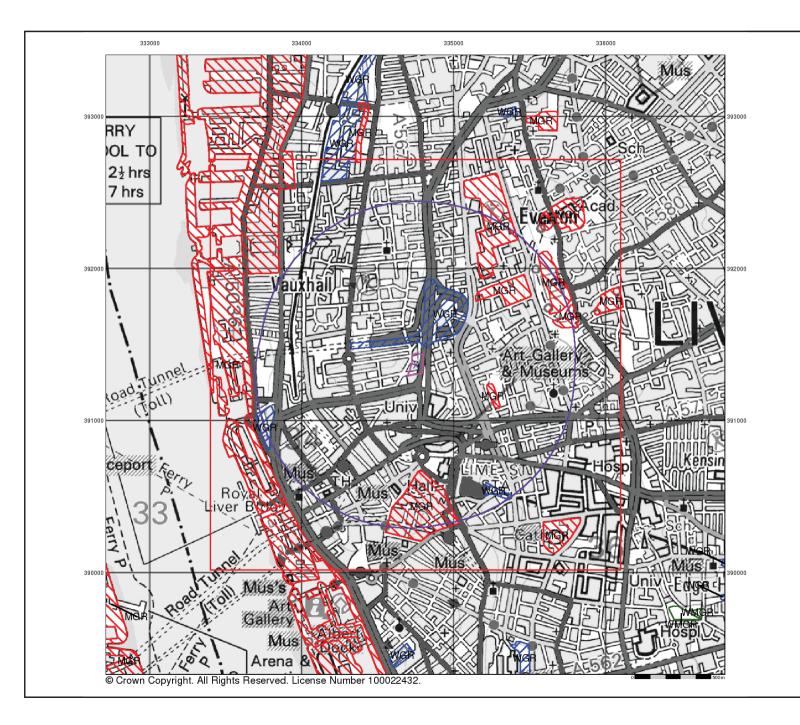
## Site Details:

Search Buffer (m):

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## Artificial Ground and Landslip

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

#### Artificial ground includes:

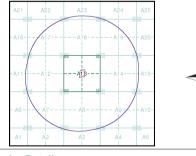
- Made ground man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground areas where the ground has been cut away such as quarries and road cuttings.

- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.

 Landscaped ground - areas where the surface has been reshaped.
 Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

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

## Artificial Ground and Landslip Map - Slice A



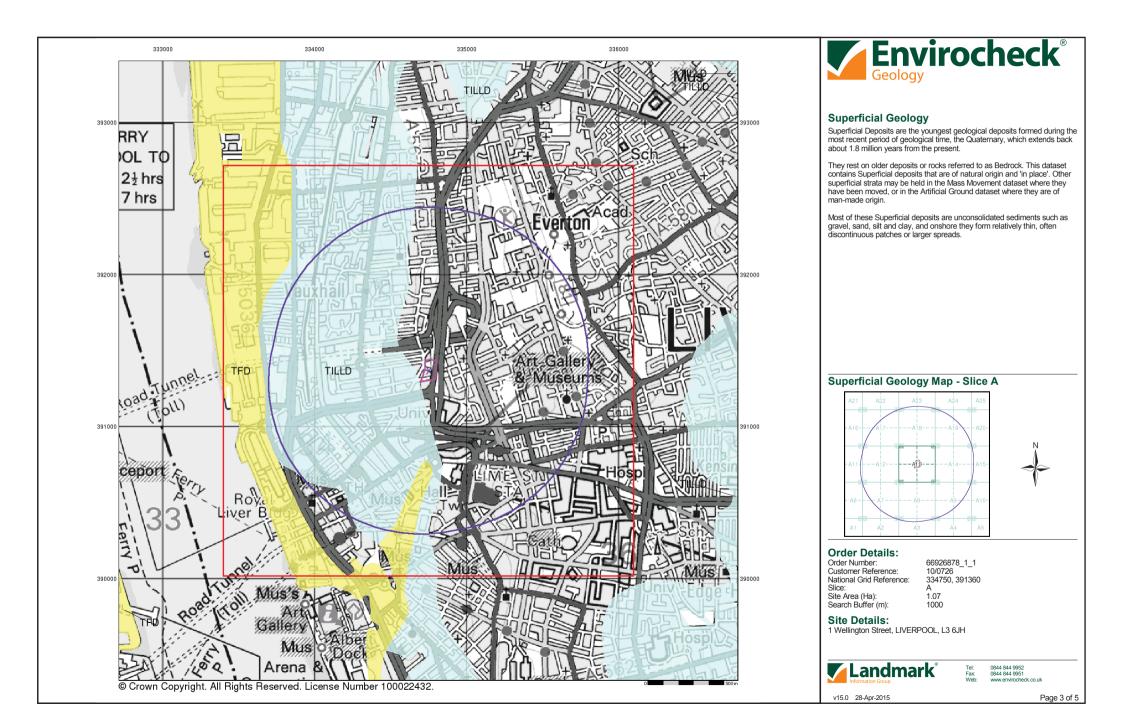
**Order Details:** Order Number: 66926878 1 1 Customer Reference: National Grid Reference: Slice Site Area (Ha): Search Buffer (m):

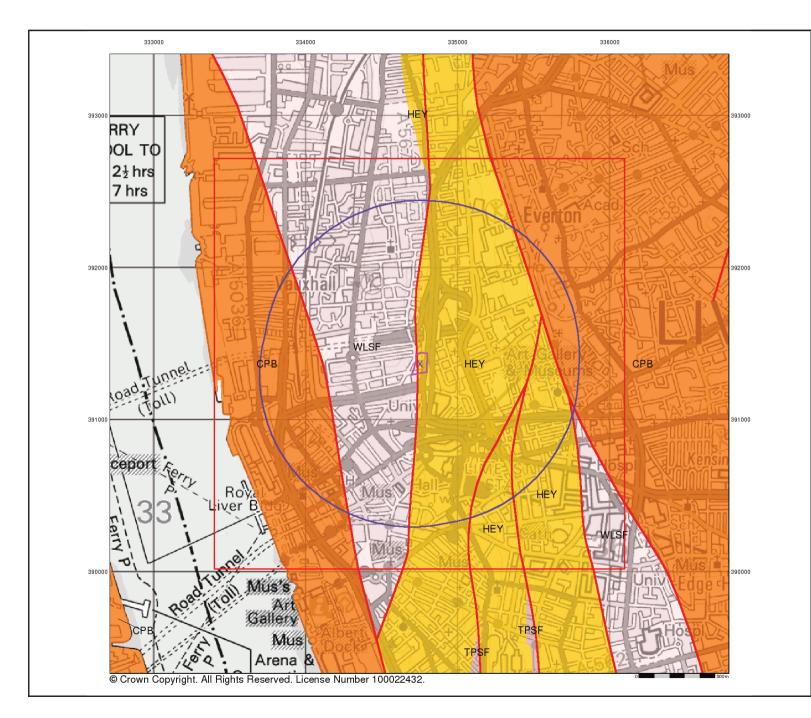
10/0726 334750, 391360 A 1.07 1000

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## Bedrock and Faults

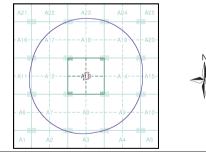
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

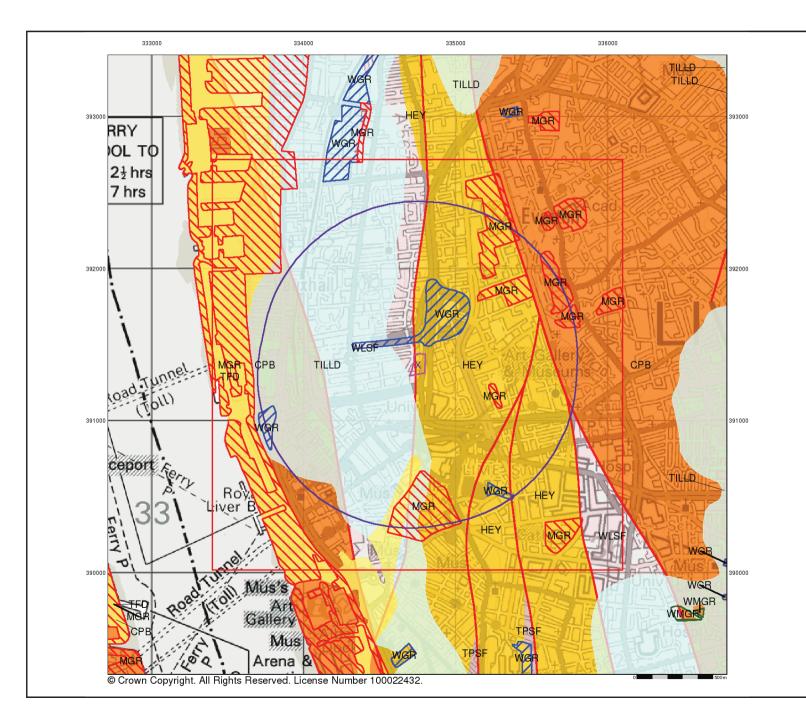
The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

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





Order Details: Order Number: Customer Reference: National Grid Reference: Site: Site Area (Ha): Search Buffer (m):	66926878_1_1 10/0726 334750, 391360 A 1.07 1000	
Site Details: 1 Wellington Street, LIVER	POOL, L3 6JH	
	rk <sup>®</sup> <sup>Tel:</sup> Fax Web:	0844 844 9952 0844 844 9951 www.envirocheck.co.uk
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## **Combined Surface Geology**

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

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

## Additional Information

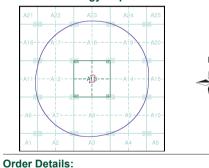
More information on 1:50,000 Geological mapping and explanations of rock dassifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

## Contact

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### **Combined Geology Map - Slice A**



#### Order Number: 66926878 1 1 Customer Reference: 10/0726 National Grid Reference: 334750, 391360 Slice: A 1.07 Site Area (Ha): Search Buffer (m): 1000 Site Details: 1 Wellington Street, LIVERPOOL, L3 6JH Tel: Fax: Web: 0844 844 9952 0844 844 9951 www.envirocheck.co.uk

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