

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Havant Borough Council - Environmental Health Department Public Service PLaza, Civic Centre Road, Havant, Hampshire, PO9 2AX	Telephone: 023 9244 6677 Email: env.services@havant.gov.uk Website: www.havant.gov.uk
4	Hampshire County Council - Minerals and Waste Planning Room 130, Ashburton Court West, The Castle, Winchester, Hampshire, SO23 8UD	Telephone: 01962 841841 Fax: 01962 847055 Website: www.hants.gov.uk
5	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
6	Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	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

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

Groundwater Vulnerability

General
☐ Area of Interest
☐ Search Buffer (m)
☒ Showing Inherent Risk
☐ Map ID

Agency and Hydrological

Geological Classes

Major Aquifer
(Highly Permeable)

Minor Aquifer
(Variable Permeable)

Non Aquifer
(Highly Permeable)

Water or Sea

Other Deposit

Soil Classes

High (H) 1, 2, 3, 4

Intermediate (I) 1, 2

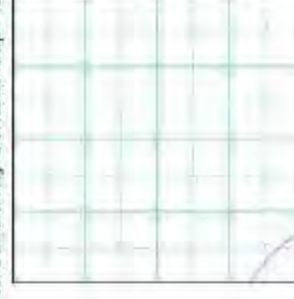
Low

High (H) 1, 2, 3, 4

Intermediate (I) 1, 2

Low

Site Sensitivity Context Map - Slice D



Order Details

Order Number: 92122754_1_1
 Customer Ref: 26/20
 National Grid Reference: 469870, 107850
 Slice: D
 Site Area (Ha): 36.37
 Search Buffer (m): 1000

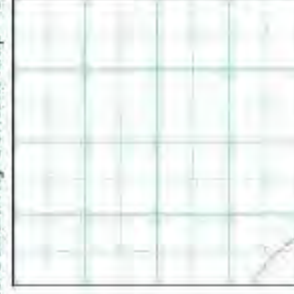
Site Details

Land off College Road, Putbrook, WATERLOOVILLE, Hampshire, PO7
 BMA

Bedrock Aquifer Designation



Site Sensitivity Context Map - Slice D



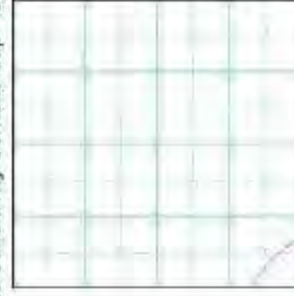
Order Details

Order Number: 92122754_1_1
 Customer Ref: 26/20
 National Grid Reference: 469870, 107850
 Slice: D
 Site Area (Ha): 26.37
 Search Buffer (m): 1000

Site Details

Land off College Road, Putbrook, WATERLOOVILLE, Hampshire, PO7
 BMA

Superficial Aquifer Designation

[illegible]

Order Details

Order Number:	52122754_1_1
Customer Ref:	26720
National Grid Reference:	469870, 107850
Site:	D
Site Area (Ha):	26.37
Search Buffer (m):	1000

Site Details

Site Details
Land off College Road, Putbrook, Waterlooville, Hampshire, PO7
B5A

Source Protection Zones

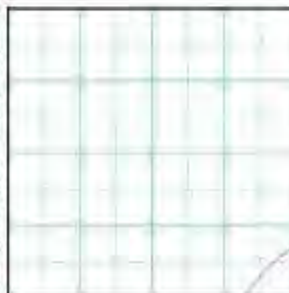
General



Agency and Hydrological



Site Sensitivity Context Map - Slice D



Order Details

Order Number:	52122794_1_1
Customer Ref:	26720
National Gilt Reference:	469870, 107850
Size:	D
Site Area (Ha):	26.37
Search Buffer (m):	1000

Site Details

Site Details
Land off College Road, Putbrook, Waterlooville, Hampshire, PO7
BAA

BGS Flood GFS Data

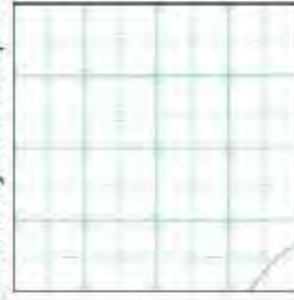
General

- Blue Grid Sta.  Search Buffer (m)  Seating Reference Point 

Agency and Hydrological (Flood)

- United Potable Water (Dunstable Flooding to 100m)
- United Potable Water (Dunstable Flooding to 100m)
- United Potable Water (Dunstable Flooding to 100m)
- United Potable Water (Dunstable Flooding to 100m)
- United Potable Water (Dunstable Flooding to 100m)

Site Sensitivity Context Map - Slice D



Order Details

Order Number: 152122754_1_1
Customer Ref: 26/20
National Grid Reference: 469870, 107850
Sheet: D
Site Area (Ha): 26.37
Search Buffer (m): 1000

Site Details

Land off College Road, Putbrook, WATERLOOVILLE, Hampshire, PO7
BMA

Geology 1:10,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Artificial Deposit	Holocene - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SUPNM	Superficial Theme Not Mapped (For Digital Map Use Only)	Unknown/Unclassified Entry	Not Supplied - Not Supplied
	HEAD	Head	Clay, Silt, Sand and Gravel	Quaternary - Quaternary
	RTDU	River Terrace Deposits (Undifferentiated)	Sand, Silt and Clay	Quaternary - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	LC	London Clay Formation	Clay, Silt and Sand	Eocene - Eocene
	BOSA	Bognor Sand Member	Sand	Eocene - Eocene
	BOSA	Bognor Sand Member	Clay, Silt and Sand	Eocene - Eocene
	LC	London Clay Formation	Sand	Eocene - Eocene
	LMBE	Lambeth Group	Clay, Silt and Sand	Paleocene - Paleocene
	LMBE	Lambeth Group	Clay	Paleocene - Paleocene



Geology 1:10,000 Maps

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

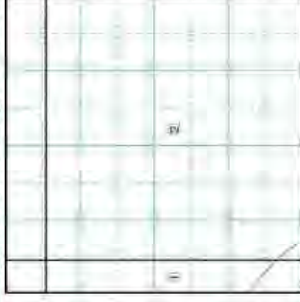
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page.

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

Geology 1:10,000 Maps Coverage

Map ID:	Map Name:	Map ID:	Map Name:
SU6TSE	1986	SU7TSE	1986
Bedrock Geology:	Available	Bedrock Geology:	Available
Superficial Geology:	Available	Superficial Geology:	Available
Artificial Geology:	Available	Artificial Geology:	Available
Faults:	Not Supplied	Faults:	Not Supplied
Landslip:	Not Available	Landslip:	Not Available
Rock Segments:	Not Available	Rock Segments:	Not Available
Map ID:	Map Name:	Map ID:	Map Name:
SU7QNW	1984	SU8QNE	1984
Bedrock Geology:	Available	Bedrock Geology:	Available
Superficial Geology:	Available	Superficial Geology:	Available
Artificial Geology:	Available	Artificial Geology:	Available
Faults:	Not Supplied	Faults:	Not Supplied
Landslip:	Not Available	Landslip:	Not Available
Rock Segments:	Not Supplied	Rock Segments:	Not Supplied

Geology 1:10,000 Maps - Slice D



Order Details

Order Number: 92122794_1_1
Customer Ref: 28720
National Grid Reference: 469870, 107850
Slice: D
Site Area (Ha): 26.37
Search Buffer (m): 1000

Site Details

Land off College Road, Purbrook, WATERLOOVILLE,
Hampshire, PO7 8AA



Tel: 0844 344 9992
Fax: 0844 344 9951
www.landmark.co.uk

Artificial Ground and Landslip

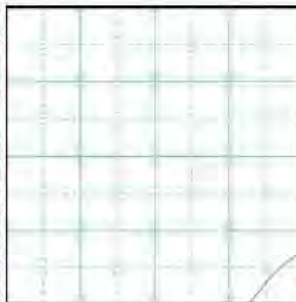
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes;

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- In-filled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

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

Artificial Ground and Landslip Map - Slice D



Order Details

Order Number: 92122794_1_1
 Customer Ref: 28720
 National Grid Reference: 469870, 107850
 Slice: D
 Site Area (Ha): 26.37
 Search Buffer (m): 1000

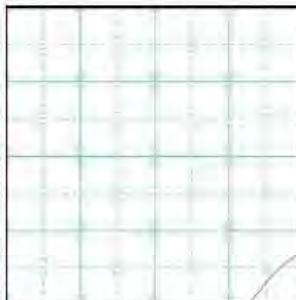
Site Details

Land off College Road, Purbrook, WATERLOOVILLE,
 Hampshire, PO7 8AA



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 D



Order Details

Order Number: 92122794_1_1
Customer Ref: 28720
National Grid Reference: 469870, 107850
Slice: D
Site Area (Ha): 26.37
Search Buffer (m): 1000

Site Details

Land off College Road, Purbrook, WATERLOOVILLE,
Hampshire, PO7 8AA

Bedrock and Faults

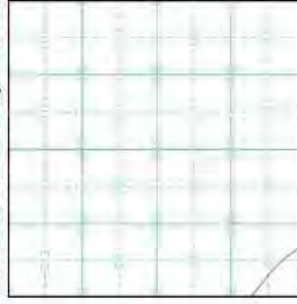
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice D

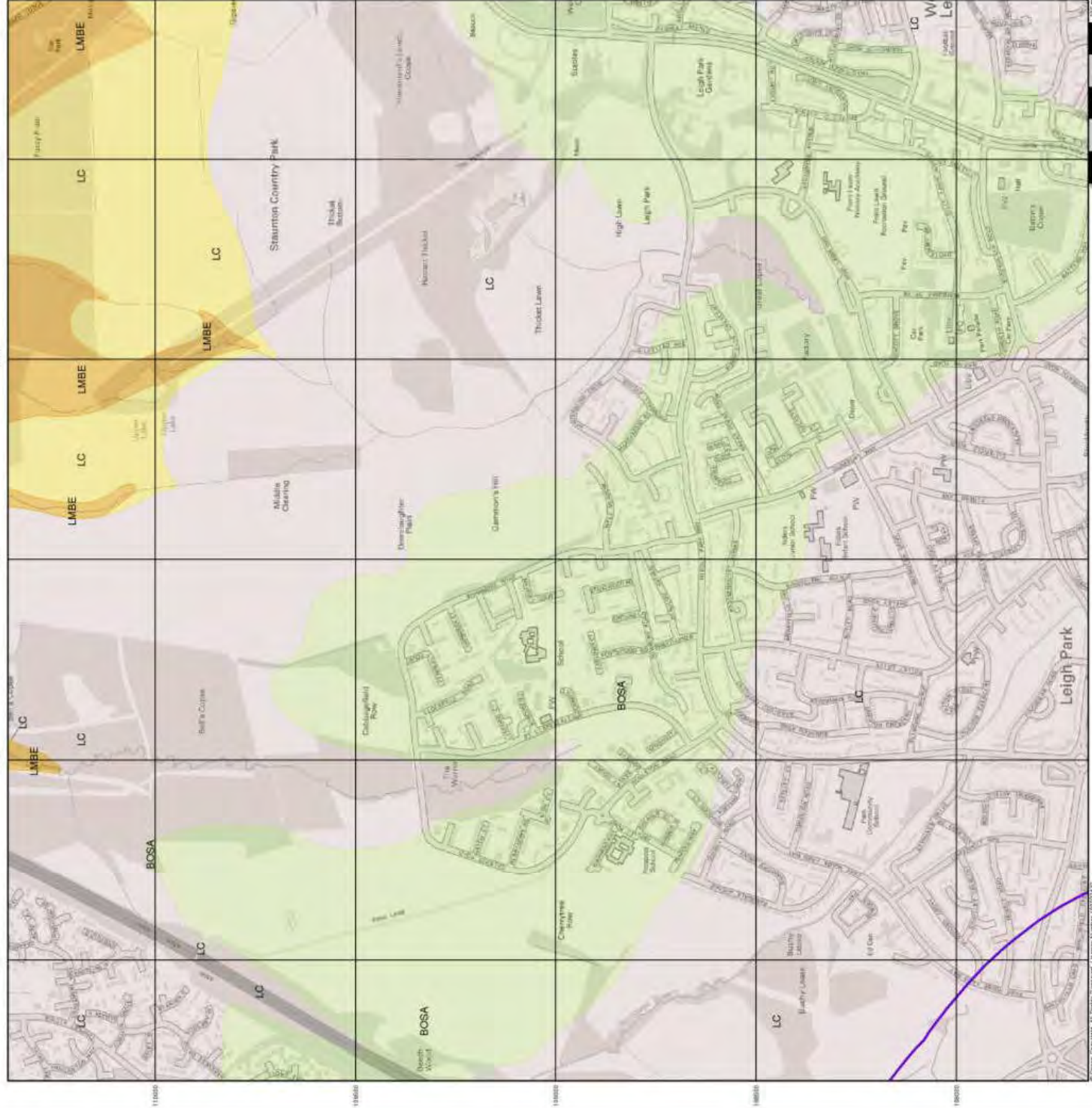


Order Details

Order Number: 92122794_1_1
 Customer Ref: 28720
 National Grid Reference: 469870, 107850
 Slice: D
 Site Area (Ha): 26.37
 Search Buffer (m): 1000

Site Details

Land off College Road, Purbrook, WATERLOOVILLE,
 Hampshire, PO7 8AA



Combined Surface Geology

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

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

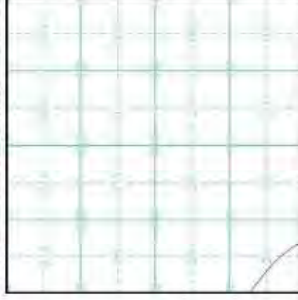
Additional Information

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

Contact

British Geological Survey
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 D

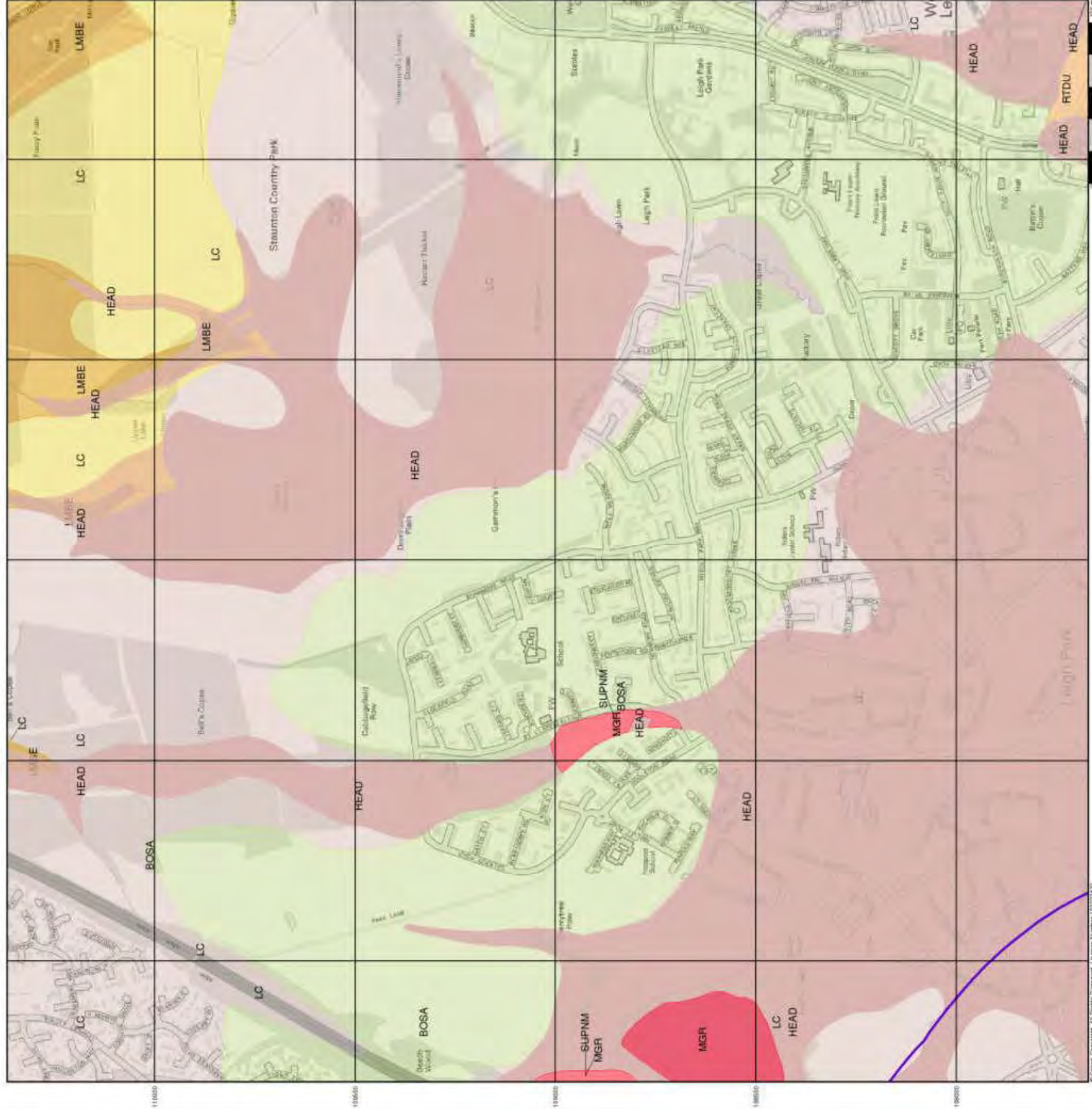


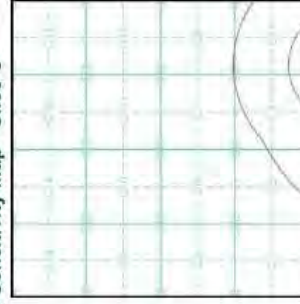
Order Details

Order Number: 92122794_1_1
Customer Ref: 28720
National Grid Reference: 469870, 107850
Site: D
Site Area (Ha): 26.37
Search Buffer (m): 1000

Site Details

Land off College Road, Purbrook, WATERLOOVILLE,
Hampshire, PO7 8AA





Site Sensitivity Map - Slice C

Order Details

Order Details

Order Number:	92122794_1_1
Customer Ref:	28720
National Grid Reference:	468960, 107960
Slice:	C
Site Area (Ha):	26.37
Search Buffer (m):	1000

Site Details
Land off College Road, Purbrook, WATERLOOVILLE,
Hampshire, PO7 8AA

Industrial Land Use Map

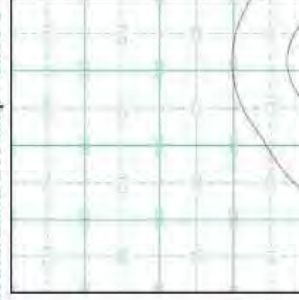
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Post Station Entry
- Gas Pipeline
- Underground Electrical Cables

Industrial Land Use Map - Slice C



Order Details

Order Number: 92122794_1_1
 Customer Ref: 28720
 National Grid Reference: 468960, 107960
 Site: C
 Site Area (Ha): 26.37
 Search Buffer (m): 1000

Site Details

Land off College Road, Purbrook, WATERLOOVILLE,
 Hampshire, PO7 8AA



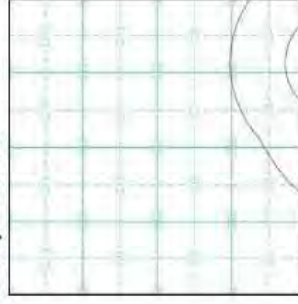
General

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- Specified (Buffer 100)

Agency and Hydrological (Flood)

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

Flood Map - Slice C



Order Details

Order Number: 92122794_1_1
 Customer Ref: 28720
 National Grid Reference: 468960, 107960
 Site: C
 Site Area (Ha): 26.37
 Search Buffer (m): 1000

Site Details

Land off College Road, Purbrook, WATERLOOVILLE,
 Hampshire, PO7 8AA



- General**
- Specified Site
 - Specified Borehole
 - Borehole Reference Point
 - Map ID
 - General of Type of Location

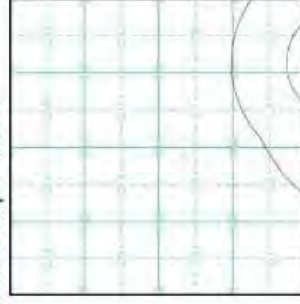
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 20m
- BGS Borehole Depth 20m +
- Contaminated
- 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 C



Order Details

Order Number: 92122794_1_1
 Customer Ref: 28720
 National Grid Reference: 468960, 107960
 Site: C
 Site Area (Ha): 26.37
 Search Buffer (m): 1000

Site Details

Land off College Road, Purbrook, WATERLOOVILLE,
 Hampshire, PO7 8AA



General

-  Specified Site
-  Specified Feature
-  Bearing Reference Point
-  Map ID

Detailed River Network Data

-  Primary River
-  Secondary River
-  Tertiary River
-  Canal
-  Canal Tunnel
-  Undertaken River
-  Lake/Reservoir
-  Off-line Drainage Feature
-  Extended Culvert (greater than 50m)
-  Underground River (inland)
-  Underground River (local knowledge)
-  Downstream of High Water Mark
-  Downstream of Seaward Extension
-  Not assigned River feature

EANRW Detailed River Network Map - Slice C



Order Details

Order Number: 92122794_1_1
 Customer Ref: 28720
 National Grid Reference: 468960, 107960
 Site: C
 Site Area (Ha): 26.37
 Search Buffer (m): 1000

Site Details

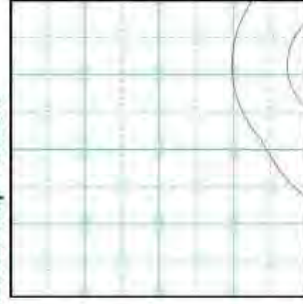
Land off College Road, Purbrook, WATERLOOVILLE,
 Hampshire, PO7 8AA



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Hamphshire & Isle Of Wight	1:10,560	1970	2
Hamphshire & Isle Of Wight	1:10,560	1977 - 1898	3
Hamphshire & Isle Of Wight	1:10,560	1900 - 1910	4
Hamphshire & Isle Of Wight	1:10,560	1933	5
Hamphshire & Isle Of Wight	1:10,560	1933	6
Hamphshire & Isle Of Wight	1:10,560	1938 - 1942	7
Ordnance Survey Plan	1:10,000	1962 - 1963	8
Ordnance Survey Plan	1:10,000	1980 - 1982	9
Ordnance Survey Plan	1:10,000	1991 - 1992	10
10K Raster Mapping	1:10,000	2000	11
Street View	1:10,000	2016	12

Historical Map - Slice C



Order Details

Order Number: 92122794_1_1
Customer Ref: 28720
National Grid Reference: 468960, 107960
Slice: C
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Site Details

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Hampshire, PO7 8AA

