

Envirocheck[®] Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:

25469094_1_1

Customer Reference:

J-BK093

National Grid Reference:

502770, 101890

Slice:

A

Site Area (Ha):

1.01

Search Buffer (m):

1000

Site Details:

Travis Perkins Trading Co Ltd
Pier Road
LITTLEHAMPTON
West Sussex
BN17 5BB

Client Details:

Mr N Office User
Opus Joynes Pike Ltd
Suite 3, 3800 Park Side
Birmingham Business Park
Solihull
Birmingham
West Midlands
B37 7YG

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. 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)	4
The Ground Stability (1:50,000) section consists of the 6 BGS Geosure data sets, each reporting potential hazards up to 250m and plotted onto the 3 separate maps. Also included in this section are the brine and salt mining data sets, of which Brine Pumping Related Features and Salt Mining Related Features are plotted.	
Historical Map List	5
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	6
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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				2
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Natural and Mining Cavities					
Potential Mining Areas					
Shallow Mining Hazards	pg 1	Yes	Yes	n/a	n/a
Historical Land Use Information (1:2,500)					
Extractive Industries Activity from 1855 - 1909 (100m)				n/a	n/a
Extractive Industries Activity from 1893 - 1915 (100m)				n/a	n/a
Extractive Industries Activity from 1906 - 1937 (100m)				n/a	n/a
Extractive Industries Activity from 1924 - 1949 (100m)				n/a	n/a
Extractive Industries Activity from 1950 - 1980 (100m)	pg 2	1	5	n/a	n/a
Subterranean Features (100m)				n/a	n/a
Historical Land Use Information (1:10,000)					
Air Shafts					
Disturbed Ground					
General Quarrying					
Heap, unknown constituents	pg 3				2
Mineral Railway					
Mining & quarrying general					
Mining of coal & lignite					
Quarrying of sand & clay, operation of sand & gravel pits	pg 3			1	
Former Marshes					
Potentially Infilled Land (Non-Water)	pg 3			2	
Potentially Infilled Land (Water)	pg 3				14
Ground Stability Data (1:50,000)					
Brine Compensation Area			n/a	n/a	n/a
Brine Pumping Related Features					
Potential for Collapsible Ground Stability Hazards	pg 4		Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 4	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 4		Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards		Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards		Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 4	Yes	Yes	n/a	n/a
Salt Mining Related Features					

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Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass)	Estimated Distance From Site	Contact	NGR
1	BGS Recorded Mineral Sites Site Name: Railway Wharf Location: C/O Quayside, Bridge Road, Littlehampton, West Sussex, Bn17 5dn Source: British Geological Survey, National Geoscience Information Service Reference: 10884 Type: Wharf Status: Active Operator: Tarmac Limited - Anglia And South East Operator Location: Bellhouse Quarry, Warren Lane, Stanway, Colchester, Essex, Co3 0nn Periodic Type: Unknown Geology: Crushed Rock Commodity: Crushed Rock Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	745	1	502080 102340
1	BGS Recorded Mineral Sites Site Name: Littlehampton Quay Location: Wharf Road, Littlehampton, West Sussex, Bn17 5dn Source: British Geological Survey, National Geoscience Information Service Reference: 10488 Type: Wharf Status: Ceased Operator: Solent Aggregates Ltd Operator Location: Basin Road South, Portslade, Brighton, Bn41 1wf Periodic Type: Quaternary Geology: Marine Deposits Commodity: Marine Sand And Gravel Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	780	1	502040 102340
	Coal Mining Affected Areas In an area which may not be affected by coal mining				
	Shallow Mining Hazards Risk: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	502601 102186
	Shallow Mining Hazards Risk: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	247	1	502601 102186

Historical Land Use Information (1:2,500)

Map ID	Details	Quadrant Reference (Compass)	Estimated Distance From Site	Contact	NGR
2	Extractive Industries Activity from 1950 - 1980 Use: Manufacture - Mill - N/A First Map Published 1959 Date: Last Map Published N/A Date: Status: N	A13SW (SW)	0	-	502757 101886
3	Extractive Industries Activity from 1950 - 1980 Use: Transport - Wharf - N/A First Map Published 1959 Date: Last Map Published N/A Date: Status: N	A13NW (W)	9	-	502720 101891
4	Extractive Industries Activity from 1950 - 1980 Use: Transport - Wharf - N/A First Map Published 1959 Date: Last Map Published N/A Date: Status: N	A13NW (W)	10	-	502720 101900
5	Extractive Industries Activity from 1950 - 1980 Use: Transport - Wharf - N/A First Map Published 1959 Date: Last Map Published N/A Date: Status: N	A13SW (SW)	12	-	502728 101846
6	Extractive Industries Activity from 1950 - 1980 Use: Transport - Wharf - N/A First Map Published 1959 Date: Last Map Published N/A Date: Status: N	A13SW (SW)	14	-	502726 101854
7	Extractive Industries Activity from 1950 - 1980 Use: Manufacture - Manufacture - N/A First Map Published 1959 Date: Last Map Published N/A Date: Status: N	A13SW (S)	85	-	502770 101726

Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass)	Estimated Distance From Site	Contact	NGR
8	Heap, unknown constituents Use: Not Supplied Date of Mapping: 1879	A8SW (S)	652	-	502685 101159
9	Heap, unknown constituents Use: Not Supplied Date of Mapping: 1938	A8NW (SW)	661	-	502459 101227
10	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1879 - 1899	A8NW (S)	410	-	502696 101409
11	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A18SW (N)	369	-	502593 102317
12	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A8NW (S)	410	-	502696 101409
13	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A12NE (W)	578	-	502150 101976
14	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A12NE (W)	622	-	502118 102095
15	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A12NW (W)	643	-	502089 102046
16	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A12NW (W)	667	-	502061 101948
17	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A12SW (W)	702	-	502028 101868
18	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A17SE (NW)	734	-	502283 102557
19	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A17NE (NW)	769	-	502328 102631
20	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A12NW (W)	778	-	501979 102185
21	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A12SW (SW)	800	-	501996 101555
22	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A17SW (NW)	872	-	501985 102431
23	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A12SW (W)	920	-	501809 101872
24	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A14SE (E)	925	-	503698 101581
25	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A9NE (SE)	972	-	503715 101477
26	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A14SE (E)	991	-	503771 101598

Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass)	Estimated Distance From Site	Contact	NGR
	Brine Compensation Area The site does not fall within the brine compensation area.				
27	Potential for Collapsible Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	195	1	503000 101975
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A8NE (S)	0	1	502875 101325
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	47	1	502850 101950
28	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	502650 101850
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	82	1	502650 101850
29	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	502650 101850
30	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	195	1	503000 101975
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	82	1	502650 101850
31	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	195	1	503000 101975
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	503000 101975

Historical Map List

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

1:2,500	Mapsheet	Published Date
Sussex	063_13	1876
Sussex	063_14	1876
Sussex	075_01	1876
Sussex	075_02	1882
Sussex	063_13	1898
Sussex	063_14	1898
Sussex	075_01	1898
Sussex	075_02	1898
Sussex	063_13	1911
Sussex	063_14	1912
Sussex	075_01	1912
Sussex	075_02	1912
Sussex	063_13	1932
Sussex	063_14	1932
Sussex	075_01	1932
Sussex	075_02	1932
Ordnance Survey Plan	TQ0201	1959
Ordnance Survey Plan	TQ0302	1959

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

1:10,560	Mapsheet	Published Date
Sussex	063_00	1879
Sussex	075_00	1879
Sussex	063_SW	1899
Sussex	075_NW	1899
Sussex	063_SW	1913
Sussex	075_NW	1913
Sussex	063_SW	1938
Sussex	075_NW	1938
1:10,000	Mapsheet	Published Date
Ordnance Survey Plan	TQ00SW	1993

Data Currency

Mining Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2008	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Mining Report Service	January 2006	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Natural and Mining Cavities Peter Brett Associates	December 2005	Variable
Shallow Mining Hazards British Geological Survey - National Geoscience Information Service	August 2002	Not Applicable
Historical Land Use Information (1:2,500)	Version	Update Cycle
Subterranean Features Landmark Information Group Limited	April 2008	Bi-Annually
Ground Stability Data	Version	Update Cycle
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	November 2002	As notified
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2008	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2008	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2008	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2008	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2008	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2008	Annually

Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	 Licensed Partner
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
The Coal Authority	THE COAL AUTHORITY
Ove Arup	ARUP
Peter Brett Associates	pba
Wardell Armstrong	 Wardell Armstrong Engineering & Environmental Solutions

Useful Contacts

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
-	Landmark Information Group Limited The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0870 850 6670 Fax: 0870 850 6671 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk



Envirocheck®
Mining & Ground Stability

A Landmark service

Historical Land Use Information (1:2,500)

General

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

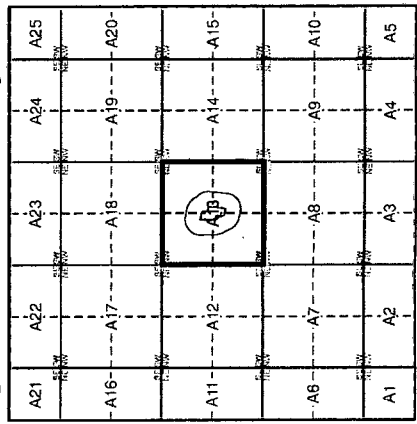
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

- 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: 25469094_1_1
Customer Ref: J-BK093
National Grid Reference: 502770, 101890
Slice: A
Site Area (Ha): 1.01
Plot Buffer (m): 100

Site Details

Travis Perkins Trading Co Ltd, Pier Road, LITTLEHAMPTON,
West Sussex, BN17 5BB



LANDMARK®

Information Group

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- General**

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

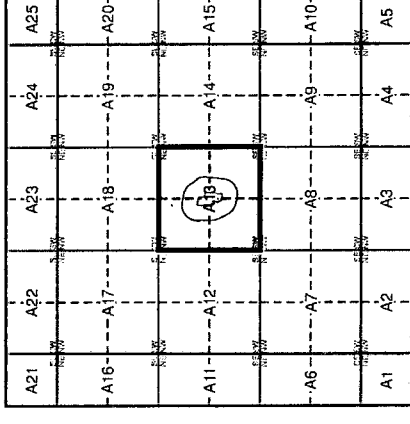
 - ▲ BOS Recorded Mineral Site
- Industrial Land Use**

 - ★ Contemporary Trade Directory Entry
 - ★ Fuel Station Entry
- Waste**

 - ▲ BOS Recorded Landfill Site (Location)
 - ▲ BOS Recorded Landfill Site
 - EA Historic Landfill (Buried Refill)
 - ▲ EA Historic Landfill (Refill)
 - ▲ Integrated Pollution Control Registered Waste Site
 - ▲ Landfill Management Facility (Landfill Boundary)
 - ▲ Licensed Waste Management Facility (Location)
 - ▲ Local Authority Recorded Landfill Site (Location)
 - ▲ Local Authority Recorded Landfill Site
 - ▲ Registered Landfill Site
 - ▲ Registered Landfill Site (Location)
 - ▲ Registered Landfill Site (Point Buried to 10m)
 - ▲ Registered Landfill Site (Point Buried to 20m)
 - ▲ Registered Waste Transfer Site (Location)
 - ▲ Registered Waste Transfer Site
 - ▲ Registered Waste Treatment or Disposal Site (Location)
 - ▲ Registered Waste Treatment or Disposal Site
- Hazardous Substances**

 - ★ COMAH Site
 - ★ Explosive Site
 - ★ NHHS Site
 - ★ Planning Hazardous Substance Consent
 - ★ Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A13



Order Details

Order Number: 25469094_1_1
Customer Ref: J-BK093
National Grid Reference: 502770, 101890

Site: A
Site Area (Ha): 1.01
Plot Buffer (m): 100

Site Details

Travis Perkins Trading Co Ltd, Pier Road, LITTLEHAMPTON,
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