ish Geological Survey Norwest Holster	Soil	Engi	inee	ering	sitish Geological Survey	1	hole No.
Contract No. F7360 LocationBedford Theatre Site	REHO		G	Chart	1of2.	L	
Client London Borough of Camden					e	116	+
Method of Boring Shell and Auger	TQ	283E		Ground	Level	m.,	
Diameter of Borehole150mm					1/4/87		
British Geologic Description of Strata	Binish Geold	Depth Below G.L.(m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring ^{Brit}	"N"/ R.Q.D.%	Daily Progress
MADE GROUND : Soft brown clayey fill with cobble sized fragments of brick		0.30			0,30		
Firm light brown silty CLAY					0.30-0.95		
TIM TIGHT DIOWN SILLY CLAP	-X==				0.95-1.00		
					o 1.30		
Geological Subscoming stiff around 2.50mh Geological Su	irvey				1.50-1.95 British Geological(S4仍)		
	-×				1.95-2.00		
					2.30		
					2.50-2.95 (50)		
					2.95-3.00		
	- <u>x-</u>	3.50			2 50		
British Geological Sulvey Stiff light brown silty CLAY	Smish-eem	gical Survey			3.50 Brit	sh Geologic	i Survey
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					4.45-4.50		Ξ
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Geological Survey British Geological Su					British Geological Survey		
	- * -				5.50-5.95		
					(50) 5,95-6.00		-
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					7.00-7.45		
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					7.45-7.50		
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Geological Survey British Geological Su					3 ms8 0.9 5 9491 90 09		-
some sand lenses around 10.00m							
Remarks (Observations of G Type of Sample	iround Wa	ter etc.)		2.001 200			
Borehole dry cas	sing l.	50 m					
Is S.P. Tritish General Undistury bed Ic. C.P.T. × Vane	British Geolo	gical Survey			Brit	ish Geologic	al Survey
O Jar A Water							
Bulk Piezometer							
Water lovele are subject to sage	nal or tidal	variations	and shoul	d not be ta	ken as constant		

British Geopgical		57000		Holst	
	lient ethod of E	Bedford London Boring. Borehole	Theatre Corough c Shell a	<u>Site</u> <u>of C</u> amden and Auger	REF
	British Geo	logic Descriptic	on of Strata	1	s iven
S	tiff li; ome san	ght brown d lenses	silty (CLAY with	
S	tiff gr	ey silty	CLAY		
British Geological	Survey			British Geological	
	British Geo	ological Survey			×
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	u.				
	British Geo	ological Survey			
British Giological	Survey			British Geological	Sul 18
End	d of Boi	rehole at	20.00 m	1	×
	Type of 1	Sample	Remarks (Observations of	Ground
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Engineering distret. Survey									
HOLE LOG ⊤@285E	Chainage	of2 Level	(16 m.4						
end ic ji Belowey G.L.(m) (m)	Casing Depth at Sampling	Sampling	"N"/ B.Q.D.%	Daily Progress					
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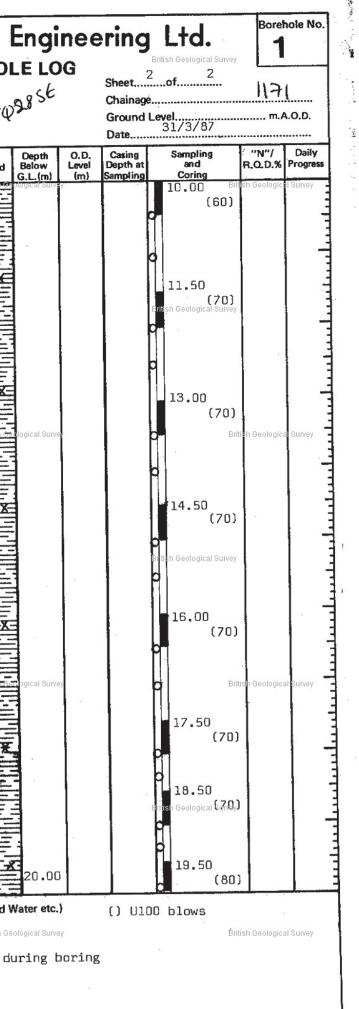
Water etc.)

ing 1.50 m Geological Survey

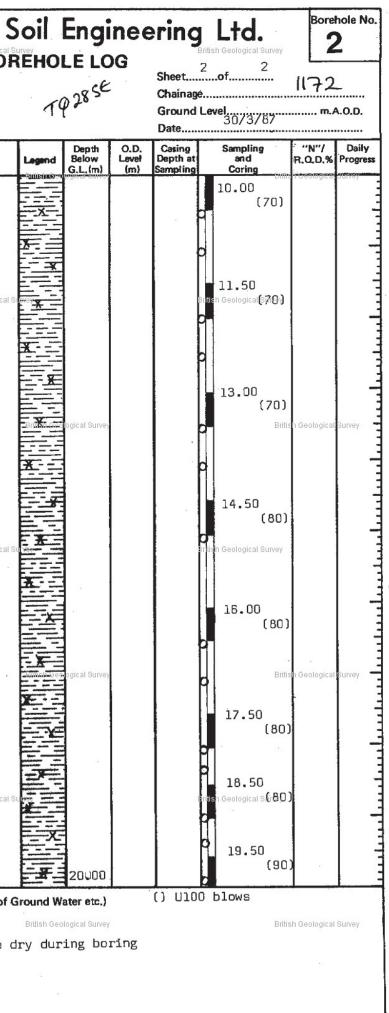
British Geological Survey

Contract No. F7360B British Gamma Contract Location Kings Terrace BOI Location London Borough of Camden Method of Boring Percussion Diameter of Borehole 150mm	REHO)G	Sheet] Chainage			
Description of Strata	Legend	Depth Below G.L.(m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/ R.Q.D.%	Daily Progress
ADE GROUND : Bituminous surfacing		D.10				tish Geologica	Survey
ADE GROUND : Brick, topsoil and clay		0.30			0.50		
irm brown and grey silty CLAY		0.80	· ·	150mm	(20)	1	
Firm grey silty CLAY with peat	¥ X	1.30		150mm to	1		
TIM grey sirey cern with peas	E S			1.50	1 1.50		
eningiral Survey Stiff light brown silty gravelly	僅氢	1		31/3	3 <mark>iti</mark> sh Geological Survey		1
CLAY with roots	×	2.50			1		
		2.50			2.50	8	
Firm brown silty CLAY					. (50)		1
	X				1		
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	X	4.00			4.00	4	
Stiff brown, mottled grey silty CLAY					4.00		
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Type of Sample British Geological Survey				, 0100			
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S.P.T. Undisturbed							
Ic. C.P.T. 🗙 Vane							1

sh Geological Survey	Norwest F7360B		REHOL	_			British Geolog
Contract No	Kings Terrace		REHUL		G	Sheet2	of
Client	London Borougii Ut	f Camden	TQS	8SE		Chainagé.	
Method of Bor	ing Percussic	<u>n</u>	TQ.			Ground L	evel
Diameter of Bo	prehole			50 T () ()		Date	31/3/
	Description of Strata		Legend	Depth Below	O.D. Level	Casing Depth at	Sampl
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British	Geological Survey F7360B British Geological Survey Contract No. Kings Terrace BOR Location London Borough of Camden Camden Method of Boring Percussion Diameter of Borehole 150mm		q2856		Sheet Chainage Ground Date	British Geological Surv of2 Level	יי <u>ר</u> וו־		Britis	Client Method of B	F7360 Kings To London Bo oring	rough of Percussi	Camden	XEH
	Description of Strata	Legend	Depth Below G.L.(m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	R.Q.D.9	6 Progress			Description	of Strata		Lege
	MADE GROUND : Bricks, topsoil and clay		0.40				British Geologic	arouivey		Stiff grey	/ silty CL	AY	· · ·	
	Firm brown silty CLAY	×	0.80		1.50	0,50 (40)								X
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British Geological Sur	ey British Geological Survey BOREHOLE	NO			
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	Client W. Y. Zinn & Associates,		Address	•	
	Address For the Metropolitan	· ···· ··	•••••		
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	Mr. K				
	British Geological Survey Description of Strata British Ge	Thickness	Depth	Disturbed financies	'U' Corre and British G N o Tcallsut vey
			· · · · · ·	B	
	Made ground	1'6"	1*6*	J1832 1'0"	
	Soft blue silty clay	313"	4*9*	J1833 3'0"	
British Geological Sui	vey Light brown clay British Geological Survey	619*	11*6*	British Geological Sur J1835 7*6*	"81834 5*0" 81836 10*0
	Light brown mottled clay with sand layers	5*6"	17*0*	J1837 12"6,"	V1858 15* 04
	Bark brown clay with sand layers	10.0*	27*0*	J1839 17'6"	British Geological Surrey
	• • • • • • •			J1841 22'6"	U1840 201 0
	,			arodt 55.0	U1842 25'0'
British Geological Sur	Lendon Blue elay /ey British Geological Survey	3*0*	30*0*	J1643 2716 British Geological Sur	J1844 28*6*
	British Geological Survey British Ge	ological Survey			British Geological Survey
	TOTALS	30°0#	30+0"		

APPENDIX F GROUNDSURE REPORT

The Hope Lease Ltd Geo-environmental site assessment: The Hope Project, Camden 371475-01 (05)



Report Referenc	e: EMS-359708_482803	Addre	ess: The Hope Project,Came
Vour Deference:	EMS_359708_482803	Date:	3 May 2016
four Reference.	EM3_333700_462603	Refer	ence: EMS-359708_482803
Report Date	3 May 2016	Client	t: EmapSite
Report Delivery	Email - pdf	NW	Ν

Groundsure Geoinsight

Address: The Hope Project, Camden, NW1 7JE,

Dear Sir/ Madam,

EmapSite

Masdar House, Eversley, RG27 ORP

Thank you for placing your order with Groundsure. Please find enclosed the Groundsure Geoinsight as requested.

Method:

If you would like further assistance regarding this report then please contact the emapsite customer services team on 0118 9736883 quoting the above report reference number.

Yours faithfully,

emapsite customer services team

Enc. Groundsure Geoinsight



SW

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Groundsure LOCATION INTELLIGENCE

Aerial Photograph Capture date: 04-May-2014 Grid Reference: 529242,183411 Site Size: 0.16ha

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Groundsure Geoinsight

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Groundsure

4.4 Compressible Deposits
4.5 Collapsible Deposits
4.6 Running Sands
5 Borehole Records Map
5 Borehole Records
6 Estimated Background Soil Chemistry
7 Railways and Tunnels Map
7 Railways and Tunnels
7.1 Tunnels
7.2 Historical Railway and Tunnel Features
7.3 Historical Railways
7.4 Active Railways
7.5 Railway Projects

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 31
 34
 35
 37
 37



Overview of Findings

The Groundsure Geoinsight provides high quality geo-environmental information that allows geoenvironmental professionals and their clients to make informed decisions and be forewarned of potential ground instability problems that may affect the ground investigation, foundation design and possibly remediation options that could lead to possible additional costs.

The report is based on the BGS 1:50,000 Digital Geological Map of Great Britain, BGS Geosure data; BRITPITS database; Shallow Mining data and Borehole Records, Coal Authority data including brine extraction areas, PBA non-coal mining and natural cavities database, Johnson Poole and Bloomer mining data and Groundsure's unique database including historical surface ground and underground workings.

For further details on each dataset, please refer to each individual section in the report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Section 1:Geology

Section 1.deology								
1.1 Artificial Ground	1.1.1 Is there any Artificial Ground/ Made beneath the study site?	Ground pres	ent	Yes				
	1.1.2 Are there any records relating to pe ground within the study site* boundary?	rmeability of	artificial	No				
1.2 Superficial Geology and Landslips	1.2.1 Is there any Superficial Ground/Drift beneath the study site?	t Geology pre	esent	No				
Landsups	1.2.2 Are there any records relating to pe superficial geology within the study site b			No				
	1.2.3 Are there any records of landslip wit site boundary?	No						
	1.2.4 Are there any records relating to pe within the study site boundary?	landslips	No					
1.3 Bedrock, Solid Geology & Faults	1.3.1 For records of Bedrock and Solid Ge study site* see the detailed findings section							
	1.3.2 Are there any records relating to pe within the study site boundary?	rmeability of	bedrock	Yes				
	1.3.3 Are there any records of faults withi site boundary?	in 500m of th	e study	No				
1.4 Radon data	1.4.1 Is the property in a Radon Affected . Health Protection Agency (HPA) and if so homes are above the Action Level?			The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level				
	1.4.2 Is the property in an area where Rac Measures are required for new properties existing ones as described in publication B Research Establishment?	or extension	s to	No radon prot necessary	tective measu	ires are		
Section 2:Ground \	Norkings	On-site	0-50m	51-250	251-500	501-1000		
2.1 Historical Surface (Mapping	Ground Working Features from Small Scale	0	0	0	Not Searched	Not Searched		
2.2 Historical Undergro	ound Workings from Small Scale Mapping	0	0	0	0	26		
2.3 Current Ground Wo	orkings	0	0	0	0	3		

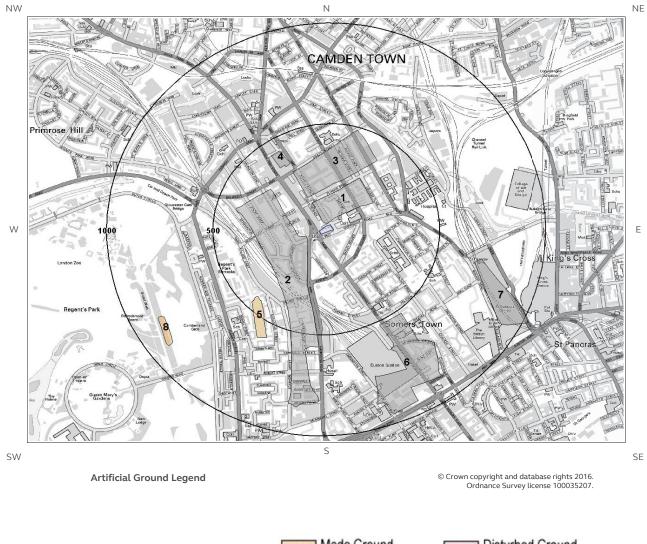
Section 3:Mining, Extraction & Natural Cavities	On-site	0-50m	51-250	251-500	501-10
3.1 Historical Mining	0	0	0	0	0
3.2 Coal Mining	0	0	0	0	0
3.3 Johnson Poole and Bloomer Mining Area	0	0	0	0	3
3.4 Non-Coal Mining	0	0	0	0	0
3.5 Non-Coal Mining Cavities	0	0	0	0	0
3.6 Natural Cavities	0	0	0	0	0
3.7 Brine Extraction	0	0	0	0	0
3.8 Gypsum Extraction	0	0	0	0	0
3.9 Tin Mining	0	0	0	0	0
3.10 Clay Mining	0	0	0	0	0
Section 4:Natural Ground Subsidence	On-si	te			
4.1 Shrink Swell Clay	Moder	ate			
4.2 Landslides	Very L	OW			
4.3 Ground Dissolution of Soluble Rocks	Neglig	ible			
4.4 Compressible Deposits	Neglig	ible			
4.5 Collapsible Deposits	Very L	OW			
4.6 Running Sand	Neglig	ible			
Section 5:Borehole Records	On-site	0-50m	51-250		
5 BGS Recorded Boreholes	0	2	33		
Section 6:Estimated Background Soil Chemistry	On-site	0-50m	51-250		
6 Records of Background Soil Chemistry	1	0	7		
Section 7:Railways and Tunnels	On-site	0-50m	51-250	251-500	
7.1 Tunnels	0	1	0	Not Searched	
7.2 Historical Railway and Tunnel Features	0	0	0	Not Searched	
· · · · · · · · · · · · · · · · · · ·		0	0	Not Searched	
7.3 Historical Railways	0	0			

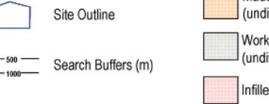


Section 7:Railways and Tunnels	On-site	0-50m	51-250	251-500
7.5 Railway Projects	0	0	0	6



1 Geology **1.1 Artificial Ground Map**



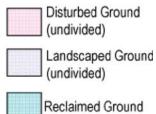


emapsite™

Made Ground (undivided)

Worked Ground (undivided)

Infilled Ground





Yes

1 Geology **1.1 Artificial Ground**

1.1.1Artificial/ Made Ground

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No:256

Are there any records of Artificial/Made Ground within 500m of the study site boundary?

_	ID	Distance (m)	Direction	LEX Code	Description	Rock Description
	1	12.0	NW	WGR-OPEN	WORKED GROUND (UNDIVIDED)	VOID
	2	65.0	SW	WGR-OPEN	WORKED GROUND (UNDIVIDED)	VOID
_	3	166.0	NW	WGR-OPEN	WORKED GROUND (UNDIVIDED)	VOID
_	4	350.0	NW	WGR-OPEN	WORKED GROUND (UNDIVIDED)	VOID
	5	428.0	SW	MGR-MGRD	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

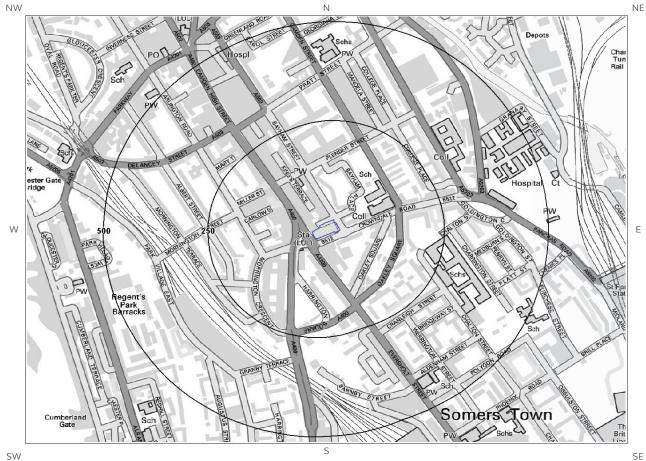
1.1.2 Permeability of Artificial Ground

Are there any records relating to permeability of artificial ground within the study site boundary? No

Database searched and no data found.



1.2 Superficial Deposits and Landslips Map









SE

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1.2 Superficial Deposits and Landslips

1.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary? No

Database searched and no data found.

1.2.2 Permeability of Superficial Ground

Are there any records relating to permeability of superficial ground within the study site boundary? No

Database searched and no data found.

1.2.3 Landslip

Are there any records of Landslip within 500m of the study site boundary?

Database searched and no data found.

This Geology shows the main components as discrete layers, these are: Artificial / Made Ground, Superficial / Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

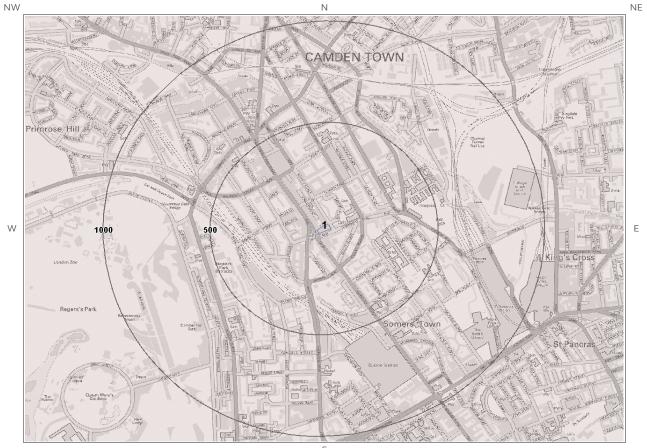
1.2.4 Landslip Permeability

Are there any records relating to permeability of landslips within the study site** boundary? No

Database searched and no data found.



1.3 Bedrock and Faults Map



SW

Bedrock and Faults Legend



* This includes an automatically generated 50m buffer zone around the site

No



SE

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1.3 Bedrock, Solid Geology & Faults

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No:256

1.3.1 Bedrock/ Solid Geology

Records of Bedrock/ Solid Geology within 500m of the study site boundary:

ID	Distance (m)	Direction	LEX Code	Description	Rock Age
1	0.0	On Site	LC-CLSISA	London Clay Formation - Clay, Silt And Sand	No Details

1.3.2 Permeability of Bedrock Ground

Are there any records relating to permeability of bedrock ground within the study site^{*} boundary? Yes

Distance (m)	Direction	Flow Type	Maximum Permeability	Minimum Permeability
0.0	On Site	Mixed	Moderate	Very Low
0.0	On Site	Plixed	Piblelate	Very LOW

1.3.3 Faults

Are there any records of Faults within 500m of the study site boundary?

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/ Solid Geology and linear features such as Faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.



1.4 Radon Data

1.4.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level

1.4.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary

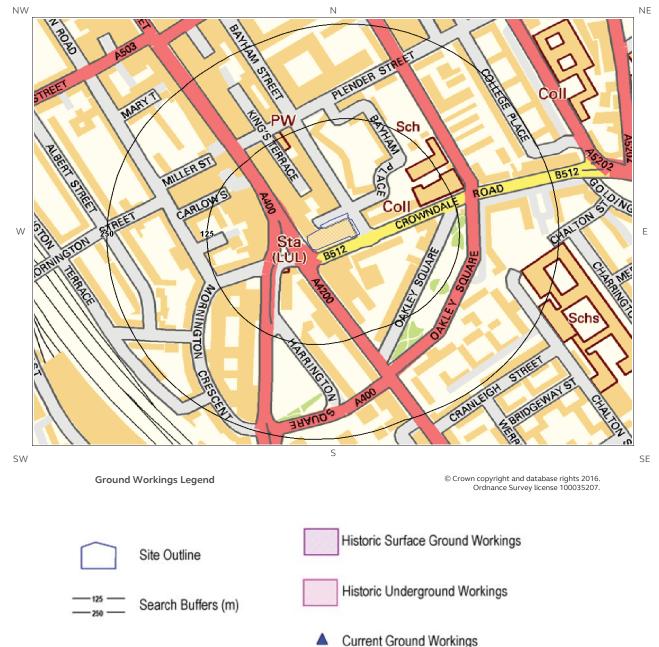
No



^{*} This includes an automatically generated 50m buffer zone around the site



2 Ground Workings Map





2 Ground Workings

2.1 Historical Surface Ground Working Features derived from Historical Mapping

This dataset is based on Groundsure's unique Historical Land Use Database derived from 1:10,560 and 1:10,000 scale historical mapping.

Are there any Historical Surface Ground Working Features within 250m of the study site boundary? No

Database searched and no data found.

2.2 Historical Underground Working Features derived from Historical Mapping

This data is derived from the Groundsure unique Historical Land Use Database. It contains data derived from 1:10,000 and 1:10,560 historical Ordnance Survey Mapping and includes some natural topographical features (Shake Holes for example) as well as manmade features that may have implications for ground stability. Underground and mining features have been identified from surface features such as shafts. The distance that these extend underground is not shown.

Are there any Historical Underground Working Features within 1000m of the study site boundary? Yes

The following Historical Underground Working Features are provided by Groundsure:

ID	Distance (m)	Direction	NGR	Use
Not shown	510.0	W	528675 183621	Tunnel
Not shown	510.0	W	528675 183621	Tunnel
Not shown	521.0	W	528658 183631	Tunnel
Not shown	521.0	W	528658 183631	Tunnel
Not shown	548.0	W	528651 183636	Tunnel
Not shown	548.0	W	528651 183636	Tunnel
Not shown	548.0	W	528651 183636	Tunnel
Not shown	560.0	W	528642 183634	Tunnel
Not shown	560.0	W	528642 183634	Tunnel
Not shown	607.0	E	529866 183609	Tunnel
Not shown	668.0	E	529982 183101	Tunnel
Not shown	925.0	E	530174 183067	Tunnel

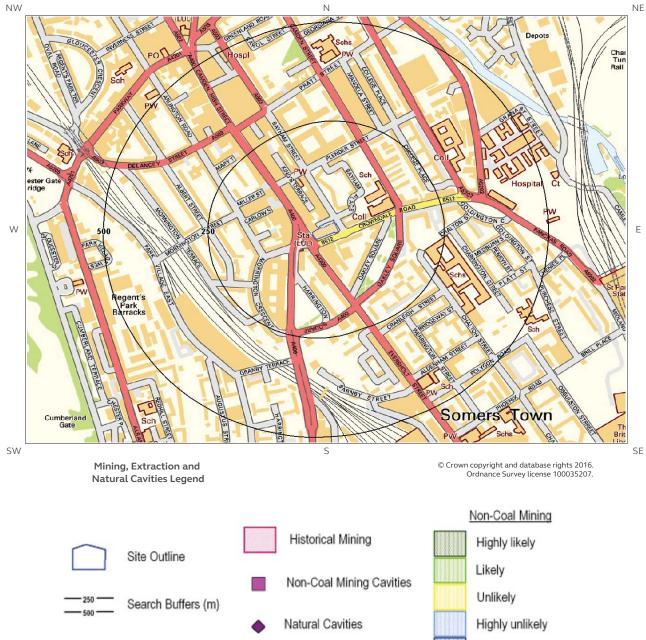
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3 Mining, Extraction & Natural **Cavities Map**



ID	Distance (m)	Direction	NGR	Use	Date
Not shown	925.0	E	530177 183066	Tunnel	1873
Not shown	925.0	Е	530177 183066	Tunnel	1873
Not shown	965.0	Е	530261 183691	Tunnel	1938
Not shown	965.0	E	530261 183691	Tunnel	1914
Not shown	967.0	NE	529602 184492	Tunnel	1973
Not shown	967.0	NE	529602 184492	Tunnel	1989
Not shown	967.0	NE	529602 184492	Tunnel	1968
Not shown	969.0	E	530264 183690	Railway Tunnel	1976
Not shown	969.0	E	530264 183690	Railway Tunnel	1971
Not shown	969.0	Е	530264 183690	Railway Tunnel	1957
Not shown	969.0	E	530264 183690	Railway Tunnel	1940
Not shown	969.0	E	530264 183690	Railway Tunnel	1966
Not shown	969.0	E	530264 183690	Railway Tunnel	1994
Not shown	996.0	NW	528256 184173	Tunnel	1989

2.3 Current Ground Workings

This dataset is derived from the BGS BRITPITS database covering active; inactive mines; quarries; oil wells; gas wells and mineral wharves; and rail deposits throughout the British Isles.

Are there any BGS Current Ground Workings within 1000m of the study site boundary?

The following Current Ground Workings information is provided by British Geological Survey:

ID	Distanc e (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
Not shown	903.0	NE	530085 183810	Crushed Rock	Kings Cross Rail Depot	A site where mineral commodities are unloaded from rail trucks and stored	Active
Not shown	904.0	NE	530090 183800	Marine Sand & Gravel	Kings Cross Rail Depot	A site where mineral commodities are unloaded from rail trucks and stored	Active
Not shown	904.0	NE	530090 183800	Crushed Rock	Kings Cross Rail Depot	A site where mineral commodities are unloaded from rail trucks and stored	Active

Report Reference: EMS-359708_482803 Client Reference: EMS_359708_482803

Yes

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Rare

18



3 Mining, Extraction & Natural Cavities

3.1 Historical Mining

This dataset is derived from Groundsure unique Historical Land-use Database that are indicative of mining or extraction activities.

Are there any Historical Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

3.2 Coal Mining

This dataset provides information as to whether the study site lies within a known coal mining affected area as defined by the coal authority.

Are there any Coal Mining areas within 1000m of the study site boundary?

Database searched and no data found.

3.3 Johnson Poole and Bloomer

This dataset provides information as to whether the study site lies within an area where JPB hold information relating to mining.

Are there any JPB Mining areas within 1000m of the study site boundary?

The following information provided by JPB is not represented on mapping: Whilst outside of an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property. Further details and a quote for services can be obtained by emailing this report to enquiries.gs@jpb.co.uk.

3.4 Non-Coal Mining

This dataset provides information as to whether the study site lies within an area which may have been subject to non-coal historic mining.

Are there any Non-Coal Mining areas within 1000m of the study site boundary?

Database searched and no data found.



3.5 Non-Coal Mining Cavities

This dataset provides information from the Peter Bret (compiled for the national study entitled "Review of mining continued adding to this database) on mineral extraction b

Are there any Non-Coal Mining cavities within 1000m of the

Database searched and n

3.6 Natural Cavities

This dataset provides information based on Peter Brett Ass

Are there any Natural Cavities within 1000m of the study si

Database searched and n

3.7 Brine Extraction

This data provides information from the Coal Authority issu Compensation Board.

Are there any Brine Extraction areas within 1000m of the s

Database searched and n

3.8 Gypsum Extraction

This dataset provides information on Gypsum extraction from

Are there any Gypsum Extraction areas within 1000m of th

Database searched and n

3.9 Tin Mining

This dataset provides information on tin mining areas and based upon postcode information to a sector level.

Are there any Tin Mining areas within 1000m of the study s

Database searched and no data found.

No

Yes

No

tt Associates (PBA) mining cavities o g instability in Great Britain, 1990" PBA y mining.	
e study site boundary?	No
no data found.	
sociates natural cavities database.	
ite boundary?	No
no data found.	
ued on behalf of the Cheshire Brine Sul	bsidence
tudy site boundary?	No
no data found.	
om British Gypsum records.	
e study site boundary?	No
no data found.	
s derived from tin mining records. This	search is
s derived from tin mining records. This tite boundary?	search is No



No

3.10 Clay Mining

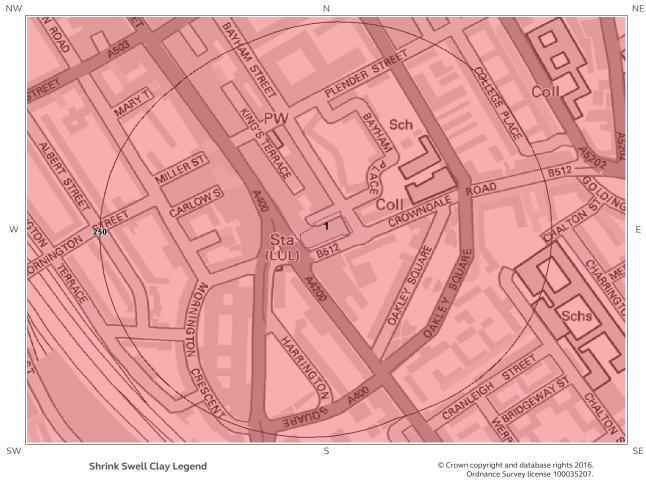
This dataset provides information on Kaolin and Ball Clay mining from relevant mining records.

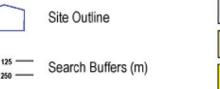
Are there any Clay Mining areas within 1000m of the study site boundary?

Database searched and no data found.



4 Natural Ground Subsidence 4.1 Shrink-Swell Clay Map



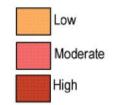


Report Reference: EMS-359708_482803

Client Reference: EMS_359708_482803

21

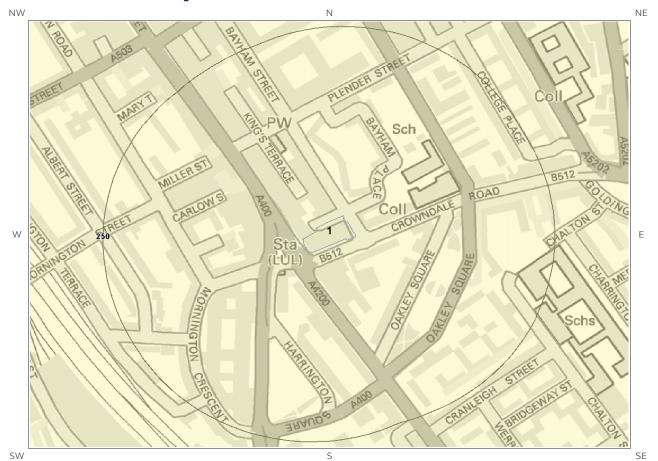








4.3 Ground Dissolution Soluble Rocks Map

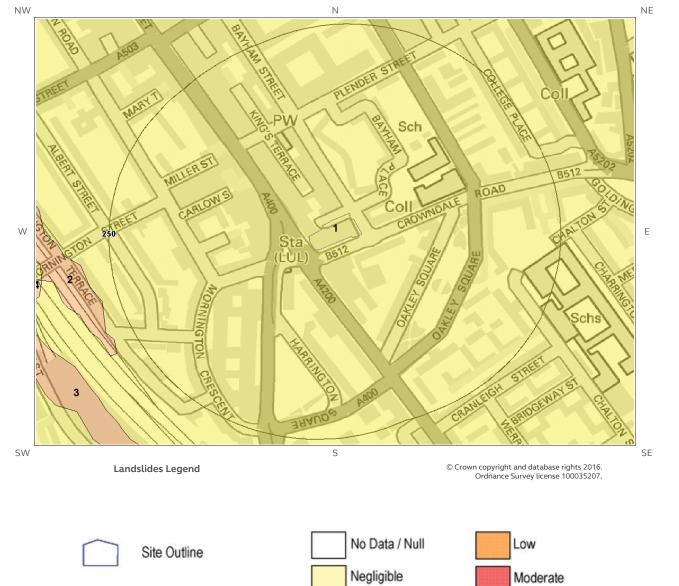


Ground Dissolution Soluble Rocks Legend





4.2 Landslides Map



Very Low

Search Buffers (m)

High

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Very Low

