APPENDIX E: ENVIROCHECK HISTORICAL MAPPING

Historical Mapping Legends

Ordnance	Survey County Seri	es 1:10,560	Ord	dnance Surve	y Plan 1	:10,000		1:10,000 Ras	ster Mapp	oing
Grav Pit	vel Sand Pit	۱۳۳۶٬۹۹۹ ۱۳۳۶ Other	Contraction of the second	Chalk Pit, Clay Pit or Quarry		, Gra∨el Pit		Gravel Pit		Refuse tip or slag heap
C Quar	rry Shingle	Orchard		Sand Pit	, 	Disused Pit		Rock		Rock (scattered)
^{**} ***** ******** ********************	ers	Marsh		Refuse or Slag Heap		Lake, Loch or Pond		Boulders	000 000	Boulders (scattered)
		947 1457 स.477 माइन 947 रेकी 147 147 रेकी 148		Dunes	°°°°°	Boulders	(Shingle	Mud	Mud
Mixed Wood	d Deciduous	Brushwood	* * *	Coniferous Trees	$\Diamond \circ \circ \diamond$	Non-Coniferous Trees	Sand	Sand		Sand Pit
		AND	ቀ ቀ ቀ	Drchard በი_	Scrub	אין Coppice	1111111	Slopes General detail	للللللللل	Top of cliff Underground
Fir	Furze	Rough Pasture	ന്ന് ല ന	Bracken MIIII	Heath '	、,,,, Rough Grassland		- Overhead detail		detail Narrow gauge railway
		rigonometrical Station	<u></u> N	/larsh 、、、\////	Reeds	<u>→</u> Saltings		Multi-track railway		Single track railway
•		ench Mark Vell, Spring,	B	Direct Building	ion of Flow of V	vater	_•_•	County boundary (England only) District, Unitary,	•••••	Ci∨il, parish or community boundary
• Si		Boundary Post		Hasshouse	AN A	Sand		Metropolitan, London Borough boundary		Constituency boundary
Sketched Contour	Instrumenta Contour	200	₩₩₩₩ s	loping Masonry	Pylon — —	Electricity Transmission Line	¢* **	Area of wooded ∨egetation	۵۵ ۵۵	Non-coniferou trees
Main Roads	Fenced Minor Road	Fenced S			·	-	C) C)	Non-coniferous trees (scattered)	** **	
MORE SUMMARY MALE	Un-Fenced	Un-Fenced	Cutting		ent 	_ Standard Gauge Multiple Track Standard Gauge	↑ ↑	Coniferous trees (scattered)	$\underline{\hat{\nabla}}$	Positioned tree
The second second second	Road over	Railway o∨er	Road ''' '' Under			Single Track	4 4 4 4	Orchard	ж Ж	Coppice or Osiers
And the second s	Railway Railway over	River	-+++			or Mineral Line + Narrow Gauge	ளர், வர்,	Rough Grassland	aallin aallin	Heath
A CONTRACTOR OF A CONTRACTOR O	Road over	 Level Crossing Road over 		- Geographical Cou	-		00_ 00_	Scrub	ג <u>™ר</u> א <u>י</u> ער	Marsh, Salt Marsh or Reed
	River or Canal)	Stream		Administrative Co or County of City Municipal Boroug Burgh or District (h, Urban or Ru	_	S	Water feature	← ←	Flow arrows
	Road over Stream			Bereven Bureh	or County Cons		MHW(S)	Mean high ' water (springs)	MLW(S)	Mean low water (springs Electricity
	County Boundary (Geographic County & Ci∨il Parish Boundar	,		Shown alternately wh			+-	Telephone line (where shown) Bench mark	-• • -	transmission l (with poles)
 . _ .		Parish Boundary	Ch Cł	oundary Post or Stone nurch	PO F	Police Station Post Office	← BM 123.45 m	(where shown)	Δ	Triangulation station
<u>-</u>	Administrati∨e County & Civil I	I	CH CI	ub House		Public Convenience Public House		Point feature (e.g. Guide Post	\boxtimes	Pylon, flare st
	County Borough Boundary (Er			re Engine Station			in a second second	· •		or lighting tow
+·+·+·+	-		FB Fo Fn Fo GP Gu	re Engine Station oot Bridge ountain uide Post le Post	SB S Spr S TCB 1	ignal Box pring elephone Call Box elephone Call Post	•	or Mile Stone) Site of (antiquity)		or lighting tow Glasshouse

Jubb

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Oxfordshire	1:10,560	1887	2
Warwickshire	1:10,560	1889	3
Oxfordshire	1:10,560	1900	4
Oxfordshire	1:10,560	1923	5
Oxfordshire	1:10,560	1938	6
Ordnance Survey Plan	1:10,000	1955	7
Ordnance Survey Plan	1:10,000	1968	8
Ordnance Survey Plan	1:10,000	1980	9
Ordnance Survey Plan	1:10,000	1995	10
10K Raster Mapping	1:10,000	1999	11
Street View	Variable		12

Historical Map - Slice A



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 1000

Tel: Fax: Web:

Site Details

Warwick Road, BANBURY







Warwickshire

Published 1889

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.

















Ordnance Survey Plan Published 1995

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 until recently, with new editions appearing every 10 years or so for urban areas.





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: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 1000

Site Details

Warwick Road, BANBURY



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Street View

Published 2018

Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)

Street View Map - Slice A



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 1000

Site Details

Warwick Road, BANBURY



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Tel: Fax: Web:

Historical Mapping Legends

Ordnance Survey	County Series 1:10,5	60 Ore	dnance Surve	y Plan 1	:10,000		1:10,000 Ras	ster Mapp	ping
Gravel Pit	Sand Pit Pits	r Europe	Chalk Pit, Clay Pit or Quarry	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ç Gravel Pit		Gravel Pit		Refuse tip or slag heap
C Quarry	Shingle	ard	Sand Pit	,\. 	 Disused Pit or Quarry 		Rock		Rock (scattered)
م	Reeds	irsh	Refuse or Slag Heap		Lake, Loch or Pond		Boulders	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Boulders (scattered)
4 2 5 4 5 4 5 4 5 4 5 5 4 5 5 6 5 6 5 6 5 6			Dunes	°°°°	Boulders	, , , , , , , , , , , , , , , , , , ,	Shingle	Mud	Mud
Mixed Wood D	eciduous Brushwood	* * *	Coniferous Trees	$\varphi \circ \varphi \phi$	Non-Coniferous Trees	Sand	Sand		Sand Pit
		ې م م	Drchard 00_	Scrub	אן Coppice	1111111	Slopes	لالدلدلدل	Top of cliff Underground
Fir	Furze Rough Pasture	iî îî e	Bracken SMU	Heath '	、」,,,Rough Grassland		General detail Overhead detail		detail Narrow gauge railway
Arrow denotes	م Trigonometrica Station	<u>_</u> ۴	Marsh 、、、V///	Reeds	<u>ے ب</u> ے Saltings		Multi-track railway		Single track railway
🕂 Site of Antiquiti	es 🔹 🛧 Bench Mark	E	Direct	tion of Flow of V	Nater		County boundary (England only) District, Unitary,	•••••	Ci∨il, parish o community boundary
Pump, Guide P Signal Post • 285 Surface Level	ost, Well, Spring, Boundary Post		Əlasshouse		Sand		Metropolitan, London Borough boundary		Constituency boundary
Sketched Contour	Instrumental Contour		Sloping Masonry	Pylon — — — · Pole	Electricity Transmission Line	۵ ^۵ **	Area of wooded vegetation Non-coniferous	۵۵ ۵۵	Non-conifero trees Coniferous
Main Roads	Minor Roads		Embankme		- Standard Gauge	© ♠	trees (scattered)		
Sunken Roa		ad⊔.	//	·····		* ج ج	trees (scattered)	<u>A</u>	tree Coppice
Road over Railway	Railway ov River	Road''' ' Under er	'' Road // Leve Over Crossi	el \\ Foot ing Bridge		ት	Orchard Rough		or Osiers
Railway over	er	sing	-+ + + +	 	→ Narrow Gauge	ູນາໄມ 	Grassland		Heath Marsh, Salt
Road over	Road over		 Geographical Cou Administrative Co or County of City 	ounty, County B	Borough	00-	Water feature	-3 <u>V</u> i∠ ←	Marsh or Re
Road over			Municipal Boroug Burgh or District	gh, Urban or Ru Council	·	MHW(S)	Mean high	< MLW(S)	Mean low
// Stream	ndary (Geographical)		Civil Parish Shown alternately w	ot coincident with a	other boundaries		water (springs) Telephone line	-••-	water (spring Electricity transmission
_	i∨il Parish Boundary	BP, BS B	oundary Post or Stone	Pol Sta I	Police Station	~	(where shown) Bench mark	٨	(with poles) Triangulatior
	ve County & Civil Parish Bounda	y ch ci	hurch lub House	PO F	Post Office Public Convenience	BM 123.45 m	(where shown) Point feature	Δ	station Pylon, flare s
Co. Boro. Bdy.	ough Boundary (England) gh Boundary (Scotland)	FB FC	re Engine Station oot Bridge	SB S	Public House Signal Box	•	(e.g. Guide Post or Mile Stone)	\boxtimes	or lighting to
County Bur		Fn Fo	ountain	Spr S	Spring	•	Site of (antiquity)	******	0
Co. Burgh Bdy. ^y	t Boundary	GP G	uide Post ile Post	тсв	Telephone Call Box Telephone Call Post	•	Site of (antiquity)		Glasshouse

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Northamptonshire	1:10,560	1884	2
Oxfordshire	1:10,560	1885 - 1887	3
Warwickshire	1:10,560	1889	4
Oxfordshire	1:10,560	1900	5
Northamptonshire	1:10,560	1923	6
Oxfordshire	1:10,560	1923	7
Oxfordshire	1:10,560	1938	8
Northamptonshire	1:10,560	1938	9
Ordnance Survey Plan	1:10,000	1955	10
Ordnance Survey Plan	1:10,000	1968	11
Ordnance Survey Plan	1:10,000	1978	12
Ordnance Survey Plan	1:10,000	1980	13
Ordnance Survey Plan	1:10,000	1994 - 1995	14
10K Raster Mapping	1:10,000	1999	15
Street View	Variable		16

Historical Map - Slice B



Order Details

 Order Number:
 175097433_1_1

 Customer Ref:
 17279

 National Grid Reference:
 444600, 242980

 Slice:
 B

 Site Area (Ha):
 22.38

 Search Buffer (m):
 1000

Site Details

Warwick Road, BANBURY



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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 B



Order Details

Order Number:	175097433_1_1
Customer Ref:	17279
National Grid Reference:	444600, 242980
Slice:	В
Site Area (Ha):	22.38
Search Buffer (m):	1000

Site Details

Warwick Road, BANBURY



Tel: 0 Fax: 0 Web: v



Street View

Published 2018

Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)

Street View Map - Slice B



Order Details

Order Number: Customer Ref: National Grid Reference: 444600, 242980 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 В 22.38 1000

Site Details

Warwick Road, BANBURY



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Juhh

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Warwickshire	1:2,500	1882	2
Oxfordshire	1:2,500	1882	3
Oxfordshire	1:2,500	1900 - 1905	4
Oxfordshire	1:2,500	1922	5
Ordnance Survey Plan	1:2,500	1972	6
Ordnance Survey Plan	1:1,250	1985	7
Additional SIMs	1:1,250	1985	8
Additional SIMs	1:1,250	1985	9
Additional SIMs	1:2,500	1986 - 1990	10
Additional SIMs	1:1,250	1986	11
Additional SIMs	1:1,250	1986	12
Additional SIMs	1:2,500	1990	13
Large-Scale National Grid Data	1:1,250	1993	14
Large-Scale National Grid Data	1:2,500	1993	15

Historical Map - Segment A7



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 Α 22.38 100

Tel:

Fax:

Web:

Site Details

Warwick Road, BANBURY





Warwickshire

Published 1882

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)

, L	
055.02	
055_03 1882 1:2,500	
I I	
1 L	

Historical Map - Segment A7



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

Site Details

Warwick Road, BANBURY



Fax: Web:

Tel:



Oxfordshire

Published 1882

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 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)

-	005_03	005_04	ו-
-	1882	1882	ו
-	1:2,500	1:2,500	ו
 1 1	005_07 1882 1:2,500	005_08 1882 1:2,500	· י

Historical Map - Segment A7



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Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

Site Details

Warwick Road, BANBURY



Tel: Fax: Web:



Oxfordshire

Published 1900 - 1905

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)

, –	005_03 1905 1:2,500	005_04 1900 1:2,500
۱ 		
1	005_07	005_08
١	1900 1:2,500	1900 1:2,500
		1

_ L

Historical Map - Segment A7



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Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

Tel: Fax: Web:

Site Details

Warwick Road, BANBURY





Oxfordshire

Published 1922

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)

- 	005_03 1922 1:2,500	005_04 1922 1:2,500	-
	005_07	005_08	۰
I	1922	1922	۱
I	1:2,500	1:2,500	۱

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Historical Map - Segment A7



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Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

Site Details

Warwick Road, BANBURY



Tel: Fax: Web:



Ordnance Survey Plan Published 1972

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)

 	SP4243 1972 1:2,500	- 	SP 43 1972 1:2,5		
 		- 1		-	ł
I	SP 4242 1972	I.	SP43 1972		ı
I	1:2,500	I.	1:2,5	00	I

Historical Map - Segment A7



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

Site Details

Warwick Road, BANBURY



Fax: Web:

Tel:

	443000	443200	443400	
243000				243000
242800				242800
242500				21/200
242600				242600
242400	© Crown copyright and Landmark Information Group Limited 2018. All Rights Reserved.			0 100 m

Ordnance Survey Plan Published 1985

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 A7



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

Tel:

Fax: Web:

Site Details

Warwick Road, BANBURY



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	443000 443	3200 44	3400
243000			243000
242800			
242600			
© Crown copyright and Landmar	k Information Group Limited 2018. All Rights Reserved.		242400 0 0 100 m

Additional SIMs Published 1985

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.



	443000 443	3200 44	3400
243000			243000
242800			
242600			
© Crown copyright and Landma	rk Information Group Limited 2018. All Rights Reserved.		242400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Additional SIMs Published 1985

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.





Additional SIMs

Published 1986 - 1990

Source map scale - 1:2,500

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)

_				_
I.	SP 42 43	1	SP4343	Т
I	1990 1:2,500	Т	1986 1:2,500	I
I.		1		Т
—				—
-	 SP4242	ī	SP 4342	-
- 	SP4242 1990 1:2,500	 	SP4342 1986 1:2,500	- 1 1

Historical Map - Segment A7



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

Site Details

Warwick Road, BANBURY



Tel: Fax: Web:

	443000	443200	443400	
243000				243000
242800	0			242800
242600	0			242600
242400	© Crown copyright and Landmark Information Group Limited 2018. All Rights Re	served.		242400 0 0 100 m

Additional SIMs Published 1986

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.



	443000	443;	200 44	3400
243000				243000
242800				242800
242600				
242400		ation Group Limited 2018. All Rights Reserved.		242400 0 100 m

Additional SIMs Published 1986

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.





Additional SIMs Published 1990

Source map scale - 1:2,500

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 A7



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

Site Details

Warwick Road, BANBURY



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Tel: Fax: Web:



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)

SP4342NW	SP4342NE
1993	1993
1:1,250	1:1,250
SP4342SW	SP4342SE
1 1993	1993
1:1,250	1:1,250
L	L

Historical Map - Segment A7



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

Site Details

Warwick Road, BANBURY



0844 844 9952

Tel: Fax: Web:

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Large-Scale National Grid Data

Published 1993

Source map scale - 1:2,500

'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)

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Ι	1993 1:2,500	1			
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Historical Map - Segment A7



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

Site Details

Warwick Road, BANBURY



Tel: Fax: Web:



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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Oxfordshire	1:2,500	1882	2
Oxfordshire	1:2,500	1900	3
Oxfordshire	1:2,500	1922	4
Ordnance Survey Plan	1:2,500	1967 - 1973	5
Ordnance Survey Plan	1:2,500	1977	6
Ordnance Survey Plan	1:1,250	1985	7
Additional SIMs	1:1,250	1985 - 1987	8
Additional SIMs	1:1,250	1985 - 1987	9
Additional SIMs	1:2,500	1986 - 1990	10
Additional SIMs	1:1,250	1986	11
Additional SIMs	1:1,250	1986	12
Ordnance Survey Plan	1:1,250	1989	13
Additional SIMs	1:2,500	1990	14
Large-Scale National Grid Data	1:1,250	1993	15
Large-Scale National Grid Data	1:2,500	1993	16

Historical Map - Segment A8



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 Α 22.38 100

Tel

Fax: Web

Site Details

Warwick Road, BANBURY



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Oxfordshire

Published 1882

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 A8



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

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Site Details

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Oxfordshire

Published 1900

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 A8



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

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Site Details

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Tel: Fax: Web:



Oxfordshire

Published 1922

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 A8



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

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Ordnance Survey Plan Published 1967 - 1973 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 A8



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

Tel: Fax: Web:

Site Details

Warwick Road, BANBURY





Ordnance Survey Plan Published 1977

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 A8



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

Tel: Fax: Web:

Site Details

Warwick Road, BANBURY





Ordnance Survey Plan Published 1985

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 A8



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

Tel: Fax: Web:

Site Details

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Additional SIMs Published 1985 - 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)



Historical Map - Segment A8



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: А Site Area (Ha): Search Buffer (m): 100

175097433_1_1 17279 22.38

Tel: Fax: Web:

Site Details

Warwick Road, BANBURY





Additional SIMs Published 1985 - 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)



Historical Map - Segment A8



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: А Site Area (Ha): Search Buffer (m): 100

175097433_1_1 17279 22.38

Tel: Fax: Web:

Site Details

Warwick Road, BANBURY





Additional SIMs

Published 1986 - 1990

Source map scale - 1:2,500

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)

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I	1986 1:2,500	Т	1990 1:2,500	Т
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- I	 SP4342	 		-
 	SP 4342 1986 1:2,500	 		-

Historical Map - Segment A8



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

Site Details

Warwick Road, BANBURY



Tel: Fax: Web:



Additional SIMs

Published 1986

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 A8



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

Site Details

Warwick Road, BANBURY



Tel: Fax: Web:



Additional SIMs

Published 1986

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 A8



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

Site Details

Warwick Road, BANBURY



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Ordnance Survey Plan Published 1989

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 A8



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

Site Details

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Additional SIMs Published 1990

Source map scale - 1:2,500

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)

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Historical Map - Segment A8



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

Site Details

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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)



Historical Map - Segment A8



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

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Site Details

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Large-Scale National Grid Data

Published 1993

Source map scale - 1:2,500

'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)

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Historical Map - Segment A8



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

Site Details

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Warwickshire	1:2,500	1882	2
Oxfordshire	1:2,500	1882	3
Oxfordshire	1:2,500	1900 - 1905	4
Oxfordshire	1:2,500	1922	5
Ordnance Survey Plan	1:2,500	1972	6
Additional SIMs	1:2,500	1986 - 1990	7
Additional SIMs	1:2,500	1990	8
Large-Scale National Grid Data	1:2,500	1993	9

Historical Map - Segment A11



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

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Tel

Fax: Web

Site Details

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Page 1 of 9



Warwickshire

Published 1882

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 A11



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

Tel: Fax: Web:

Site Details

Warwick Road, BANBURY





Oxfordshire

Published 1882

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 mapping urban areas and by rose 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)

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Historical Map - Segment A11



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

175097433_1_1 17279 А 22.38 100

Tel: Fax: Web:

Site Details

Warwick Road, BANBURY





Oxfordshire

Published 1900 - 1905

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)

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Historical Map - Segment A11



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

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Site Details

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Oxfordshire

Published 1922

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)

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005_03 1922	005_04 1922
1:2,500	1:2,500
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Historical Map - Segment A11



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

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Tel: Fax: Web:

Site Details

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Ordnance Survey Plan Published 1972

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 A11



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

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Tel: Fax: Web:

Site Details

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Additional SIMs

Published 1986 - 1990

Source map scale - 1:2,500

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 A11



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

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Additional SIMs Published 1990

Source map scale - 1:2,500

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 A11



Order Details

Order Number: Customer Ref: National Grid Reference: 443300, 243060 Slice: Site Area (Ha): Search Buffer (m):

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Site Details

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Large-Scale National Grid Data

Published 1993

Source map scale - 1:2,500

'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.



APPENDIX F: GEOTECHNICAL RISK REGISTER

				le de la
Title	Hanwell Fields	Date	29/08/2018	Jubb
Job no.	17279	Revision	А	

Section	Applicable	Details	Risk Rating	Constraints	Opportunities
1. Scoping					
1.1 Proposed Development	✓	Resdiential development	Low		
1.2 Client/Developer					
1.3 Principal Contractor					
1.4 Principal Designer					
1.5 Appraisal objectives					
2. Data Sources		Publically available information			
2.1 Phase 1 Desk Study (PSSR)		Envirocheck Report			
2.2 Phase 2 Ground Investigation Report (GIR)					
2.3 Additional GIR					
2.4 Geotechnical Design Report (GDR)					
2.5 Detailed Design					
2.5.1 Analysis					
2.5.2 Drawings					
2.5.3 Specification					
2.5.4 Design Risk Assessment					
3. Published Geology					
3.1 Solid Geology		Marlstone Formation, Dyrham Formation, Charmouth Mudstone Formation	Low		Likely suitable for shallow foundations
3.2 Drift					

Title	Hanwell Fields	Date	29/08/2018	Jubb
Job no.	17279	Revision	А	

Section	Applicable	Details	Risk Rating	Constraints	Opportunities
3.3 Made Ground		Minimal agricultural made ground likely present	Low	Potential source of contamination	
4. Geomorphology					
4.1 Geomorphological Setting					
4.1.1 Mountains					
4.1.2 Hill Side					
4.1.3 Valley Side					
4.1.4 Fluvial					
4.1.5 Low Lying/flood plain					
4.1.6 Estuarine					
4.1.7 Coastal/Littoral					
4.1.8 Marine					
4.1.9 Plateau					
4.1.10 Karstic/Halite					
4.2 Slopes					
4.2.1 Aspect					
4.2.2 Average Slope Angle					
4.2.3 Slope Profile					
4.2.4 Terraced/Stepped Profile					
4.3 Groundwater					
4.3.1 Catchment					
4.3.2 Aquifer Status	v	Bedrock Secondary A and Secondary Undifferentiated Aquifers	Low	Potential shallow, artesian groundwater where Marlstone is present	Soakaways drainage potentially viable where Marlstone present
Title	Hanwell Fields	Date	29/08/2018	Jubb	
----------	----------------	----------	------------	------	
Job no.	17279	Revision	,,	JUUU	
JUD 110.	17275	Revision	A		

Section	Applicable	Details	Risk Rating	Constraints	Opportunities
4.3.3 Surface Water	✓	Small unnamed channel near			
		north east corner	Low		
4.4 Geohazards					
4.4.1 Rock Mass Stability					
4.4.2 Rockfall					
4.4.3 Landslide					
4.4.4 Cambering					
4.4.5 Gullying					
4.4.6 Debris and earth flow					
4.4.7 Rotational Slips					
4.4.8 Translational Slips					
4.4.9 Slope Creep					
4.4.10 Seismic					
4.4.11 Faulting					
4.4.12 Flooding					
4.4.13 Subsidence					
4.4.14 Heave					
4.4.15 Collapsible Ground					
4.4.16 Springs					
4.4.17 Artesian Water					
4.4.18 Scour/washout					
4.5 Anthropogenic hazards					
4.5.1 Mine Workings					
4.5.2 Shafts					
4.5.3 Adits/Level/issues					
4.5.4 Mineral extraction					

Title	Hanwell Fields	Date	29/08/2018	Jubb
Job no.	17279	Revision	A	0000

Section	Applicable	Details	Risk Rating	Constraints	Opportunities
4.5.5 Contaminated land					
		Potential for contamiantion from	Low		
		agricultural site use			
4.5.6 Climate Change					
4.6 Vegetation					
4.6.1 Woodland					
4.6.2 Scrub					
4.6.3 Grassed/pasture					
4.6.4 Arable					
4.6.5 Hydrophyllic					
5. Land Use					
5.1 Classification					
5.1.1 Greenfield					
5.1.2 Brownfield					
5.1.3 Contaminated					
5.2 Category					
5.2.1 Urban					
5.2.2 Suburban	✓	Site is on periphery of Banbury in			
		area undergoing extensive			
		residential development	Low		
5.2.3 Rural					
5.2.4 Wilderness					
5.3 Historic and Current Land use					
5.3.1 Industrial					
5.3.2 Residential					

		- .		Jubb
Title	Hanwell Fields	Date	29/08/2018	
Job no.	17279	Revision	А	

Section	Applicable	Details	Risk Rating	Constraints	Opportunities
5.3.3 Commercial					
5.3.4 Agricultural	✓		Low		
5.3.5 Public Utility					
5.3.6 Other					
5.4 Proposed Development					
5.4.1 Heavy/Industrial					
5.4.2 Light/Commercial					
5.4.3 Residential	Image: A state of the state		Low		
5.4.4 Civil Engineering Structures					
5.4.5 Roads/Pavements					
5.4.6 Reclamation					
6. Ground Investigation Findings					
6.1 Superficial (drift) soils					
Granular					
Cohesive					
Mixed (e.g. Till)					
Plasticity					
Undrained Shear Strength					
Effective Stress Parameters					
Elastic Modulus					
Compressive Strength					
Settlement					
6.2 Rock					
Unit/Formation					
Compressive Strength					
Elastic Modulus					

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Section	Applicable	Details	Risk Rating	Constraints	Opportunities
Angle of Internal Friction					
Settlement					
RMR/Q/Geological Strength Index					
6.3 Groundwater					
6.4 Report Recommendations					
6.4.1 Shallow Foundations		Shallow foundations anticipated to be viable	Low		Ground ivnestigation to confirm depth and strength of suitable founding stratum
6.4.2 Deep Foundations					
6.4.2.1 Floor Slabs					
6.4.3 Frost Action					
6.4.4 Temporary excavation stability					
6.4.5 Rippability					
6.4.6 Permanent slope angle of repose					
6.4.7 Groundwater		Potential shallow artesian groundwater	Medium		Groundwater standpipes to be installed
6.4.8 Earthworks					
6.4.9 Ground Improvement					
6.4.10 Geotechnical process works					
6.4.11 Retaining Walls					
6.4.12 Pavements					
6.4.13 Other Structures					
6.4.14 Basements					
6.4.15 SUDS Infiltration testing					

Title Job no.	Hanwell Fields 17279		Date Revision	29/08/ A	2018	ງບຸ່ງບ
Section		Applicable	Details	Risk Rating	Constraints	Opportunities
	6.4.16 Concrete Durability					
			Natural strata not anticipated to be			
			high sulphate	Low		BRE SD1 testing
	6.4.17 NHBC Trees					

APPENDIX G: CONTAMINATION RISK ASSESSMENT METHODOLOGY AND DEFINITIONS

CONTAMINATION ASSESSMENT METHODOLOGY

The DEFRA and Environment Agency Contaminated Land Report 11 (CLR11) 'Model Procedures for the Management of Land Contamination' provides a technical framework for structured decision making about land contamination.

A1. Definition of Risk

CLR11 defines risk as "a combination of probability, or frequency, of occurrence of a defined hazard and the magnitude of the consequences of the occurrence".

A2. The Concept of the 'Pollutant Linkage'

In the context of contaminated land, there are three essential elements to any risk:

- a **contaminant (or source)** a substance that is in, on or under land and has the potential to cause harm or cause pollution of controlled waters.
- a receptor humans, ecological system, water body or property.
- a **pathway** a route or means by which a receptor can be exposed to, or affected by, a contaminant.

Each of these elements can exist separately; however, they create a risk only where they are linked together forming a **pollutant linkage**.

A3. Conceptual Site Models

A conceptual site model represents the characteristics of the site in diagrammatic or written form that shows the possible relationships between contaminants, pathways and receptors (pollutant linkages).

For all potential pollutant linkages identified, the *consequence* and *probability* of occurrence is qualitatively assessed, and a *risk* assigned.

A4. The Tiered Risk Assessment Approach

CLR11 presents a tiered approach to risk:

Tier 1 Preliminary risk assessment (PRA)

The purpose of the preliminary risk assessment is to develop an initial conceptual model of the site and to establish whether or not there are potentially unacceptable risks. If potential risks are identified the initial conceptual model is developed in subsequent tiers of the risk assessment process.

- Tier 2 Generic quantitative risk assessment (GQRA) The purpose of the generic quantitative risk assessment is to establish whether generic assessment criteria and assumptions are appropriate for assessing the risks and, if so, to apply them to establish whether there are actual or potential unacceptable risks. It also determines whether further detailed quantitative risk assessment is required.
- *Tier 3* Detailed quantitative risk assessment (DQRA)

The purpose of the detailed quantitative risk assessment is to establish and use more detailed sitespecific information and criteria to decide whether there are unacceptable risks. It may be used as the sole method of quantitative assessments of risks, or it may be used to refine earlier assessments using generic assessment criteria.

B. RISK ASSESSMENT DEFINITIONS

B1. General

The following classification and definition of risk assessment has been based on that set out in NHBC and EA Publication R&D 66 – Guidance on the Safe Development of Housing on Land Affected by Contamination (2008).

The key to the classification is that the designation of risk is based upon the consideration of both:

- a) **the magnitude of the potential consequence (i.e. severity)**, which considers both the potential severity of the hazard, and the sensitivity of the receptor.
- b) **the magnitude of probability (i.e. likelihood)**, which considers both the presence of the hazard, the receptor, and the integrity of the pathway.

B2. Classification of Consequence

Classification	Definition	Examples
Severe	 Highly elevated concentrations likely to result in "significant harm" to human health as defined by the EPA 1990, Part 2A, if exposure occurs. Equivalent to EA Category 1 pollution incident including persistent and/or extensive effects on water quality; leading to closure of a potable abstraction point; major impact on amenity value or major damage to agriculture or commerce. Major damage to aquatic or other ecosystems, which is likely to result in a substantial adverse change in its functioning or harm to a species of special interest that endangers the long-term maintenance of the population. Catastrophic damage to crops, buildings or property. 	Significant harm to humans is defined in circular 01/2006 as death, disease*, serious injury genetic mutation, birth defects or the impairment of reproductive functions. Major fish kill in surface water from large spillage of contaminants from site. Highly elevated concentrations of List I and I substances present in groundwater close to small potable abstraction (high sensitivity). Explosion, causing building collapse (can also equate to immediate human health risk in buildings are occupied).
Medium	Elevated concentrations which could result in "significant harm" to human health as defined by the EPA 1990, Part 2A if exposure occurs. Equivalent to EA Category 2 pollution incident including significant effect on water quality; notification required to abstractors; reduction in amenity value or significant damage to agriculture or commerce. Significant damage to aquatic or other ecosystems, which may result in a substantial adverse change in its functioning or harm to a species of special interest that may endanger the long-term maintenance of the population. Significant damage to crops, buildings or property.	Significant harm to humans is defined in circular 01/2006 as death, disease*, serious injury, genetic mutation, birth defects or the impairment of reproductive functions. Damage to building rendering it unsafe to occupy e.g. foundation damage resulting in instability. Ingress of contaminants through plastic potable water pipes.
Mild	 Exposure to human health unlikely to lead to "significant harm". Equivalent to EA Category 3 pollution incident including minimal or short lived effect on water quality; marginal effect on amenity value, agriculture or commerce. Minor or short lived damage to aquatic or other ecosystems, which is unlikely to result in a substantial adverse change in its functioning or harm to a species of special interest that would endanger the long-term maintenance of the population. Minor damage to crops, buildings or property. 	Exposure could lead to slight short-term effects (e.g. mild skin rash). Surface spalling of concrete.
Minor	No measurable effect on humans. Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems. Repairable effects of damage to buildings, structures and services.	The loss of plants in a landscaping scheme. Discoloration of concrete.

* For these purposes, disease is to be taken to mean an unhealthy condition of the body or a part of it and can include, for example, cancer, liver dysfunction or extensive skin ailments. Mental dysfunction is included only insofar as it is attributable to the effects of a pollutant on the body of the person concerned.

B3. Classification of Probability

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Univ annues it there is a	nossinility of a	noullitant linkade	neinn nresent
Only applies if there is a	possibility of a	pottatant tinnage	being present.

Classification	Definition	Examples
High likelihood	There is pollutant linkage and an event would appear very likely in the short-term and almost inevitable over the long-term, or there is evidence at the receptor of harm or pollution.	 a) Elevated concentrations of toxic contaminants are present in soils in the top 0.5m in a residential garden. b) Ground/groundwater contamination could be present from chemical works, containing a number of USTs, having been in operation on the same site for over 50
Likely	There is pollutant linkage and all the elements are present and in the right place which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short-term and likely over the long- term.	 a) Elevated concentrations of toxic contaminants are present in soils at depths of 0.5-1.0m in a residential garden, or the top 0.5m in public open space. b) Ground/groundwater contamination could be present from an industrial site containing a UST present between 1970 and 1990. The tank is known to be single skin. There is no evidence of leakage although there are no records of integrity tests.
Low likelihood	There is pollutant linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a long period such an event would take place, and is less likely in the shorter term.	 a) Elevated concentrations of toxic contaminants are present in soils at depths >1m in a residential garden, or 0.5-1.0m in public open space. b) Ground/groundwater contamination could be present on a light industrial unit constructed in the 1990s containing a UST in operation over the last 10 years - the tank is double skinned but there is no integrity testing or evidence of leakage.
Unlikely	There is pollutant linkage but circumstances are such that it is improbable that an event would occur even in the very long-term.	 a) Elevated concentrations of toxic contaminants are present below hard standing. b) Light industrial unit <10 yrs. old containing a double-skinned UST with annual integrity testing results available.

Note: A pollution linkage must first be established before probability is classified. If there is no pollution linkage, then there is no potential risk. If there is no pollution linkage, then there is no need to apply tests for probability and consequence.

For example, if there is surface contamination and a major aquifer is present at depth, but this major aquifer is overlain by an aquiclude of significant thickness then there is no pollution linkage and the risks to the major aquifer are not assessed. The report should identify both the source and the receptor but state that because there is no linkage there are no potential risks.

B4. The Classification of Risk

		Consequence			
		Severe	Medium	Mild	Minor
	Highlikelihood	Very high risk	High risk	Moderate risk	Low risk
bility	Likely	High risk	Moderate risk	Moderate/low risk	Low risk
Probability	Low likelihood	Moderate risk	Moderate/low risk	Low risk	Very low risk
	Unlikely	Moderate/low risk	Low risk	Very low risk	Very low risk

B5. Description of the Classified Risks

Very high risk

There is a high probability that severe harm could arise to a designated receptor from an identified hazard at the site without remediation action OR there is evidence that severe harm to a designated receptor is already occurring. Realisation of that risk is likely to present a substantial liability to be site owner/or occupier. Investigation is required as a matter of urgency and remediation works likely to follow in the short-term.

High risk

Harm is likely to arise to a designated receptor from an identified hazard at the site without remediation action. Realisation of the risk is likely to present a substantial liability to the site owner/or occupier. Investigation is required as a matter of urgency to clarify the risk. Remediation works may be necessary in the short-term and are likely over the longer term.

Moderate risk

It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, and if any harm were to occur it is more likely, that the harm would be relatively mild. Further investigative work is normally required to clarify the risk and to determine the potential liability to site owner/occupier. Some remediation works may be required in the longer term.

Low risk

It is possible that harm could arise to a designated receptor from identified hazard, but it is likely at worst, that this harm if realised would normally be mild. It is unlikely that the site owner/or occupier would face substantial liabilities from such a risk. Further investigative work (which is likely to be limited) to clarify the risk may be required. Any subsequent remediation works are likely to be relatively limited.

Very low risk

It is a low possibility that harm could arise to a designated receptor, but it is likely at worst, that this harm if realised would normally be mild or minor.

No potential risk

There is no potential risk if no pollution linkage has been established.

B6. Definitions

Term	Definition
Hazard	A property or situation which in certain circumstances could lead to harm. The properties of different hazards must be assessed in relation to their potential to affect the various receptors.
Risk	A combination of the probability or frequency of the occurrences of a defined hazard AND the magnitude of the consequences of that occurrence.
Probability	The mathematical expression of the chance of a particular event in a given period of time [e.g. probability of 0.2 is equivalent to 20% or a 1 in 5 chance].
Impact	The adverse effects (or harm) arising from a defined hazard which impairs the quality of the environment or human health in the short or longer term.
Pollution linkage	An identified pathway is capable of exposing a receptor to a contaminant and that contaminant is capable of harming the receptor.

APPENDIX H: LIMITATIONS AND EXCEPTIONS

Limitations and Exceptions

- 1. The advice given in this report is based on the guidelines available at the time of writing.
- 2. This investigation was conducted so as to generally comply with the relevant principles and requirements of BS10175: 2011 "Investigation of potentially contaminated sites Code of Practice" and BS 5930:2015 "Code of Practice for Site Investigations".
- 3. The Client is advised that the conditions observed on site by Jubb Consulting Engineers Ltd (JCE) at the time of the investigation or assessment are subject to change. Certain indicators of the presence of hazardous substances may have been latent at the time of the most recent site reconnaissance or investigation and they may subsequently have become observable. Ground conditions, including geotechnical properties may vary between points of observation, sampling and testing.
- 4. Certain areas of site had restricted access or were inaccessible due to the presence of in-use buildings, facilities and live services, as identified in this report. These may require further investigation outside the scope of this present investigation.
- 5. Comments made relating to land gas or groundwater conditions are based on observations made at the time of an investigation unless otherwise stated. Land gas and groundwater conditions may vary as a result of seasonal or other effects.
- 6. Ground contamination often exists as small discrete areas of contamination and there can be no certainty that any or all such areas have been located, sampled and/or identified.
- 7. The findings and opinions conveyed in this report are based on information obtained from a variety of sources, including that from previous site investigations and chemical and geotechnical testing laboratories, and which JCE has assumed are correct. Nevertheless, JCE cannot and does not guarantee the authenticity or reliability of the information it has used or cited. JCE can accept no responsibility for inaccuracies within the data supplied by other parties.
- 8. This report is written in the context of an agreed scope of work between JCE and the Client and should not be used in a different context. In the light of additional information becoming available, improved practices and changes in legislation, amendment or re-interpretation of the assessment or report in whole or part may be necessary after its original submission.
- 9. This report is provided for sole use by the Client and is confidential to them. No responsibility whatsoever for the contents of the report will be accepted to anyone other than the Client.
- 10. This report is not a specification for works.
- 11. JCE believes that providing information about limitations is essential to help the Client identify and thereby manage risks.
- 12. JCE does not provide legal advice and the advice of the Clients' legal advisors may also be required.
- 13. JCE retain the copyright in this report and all drawings reproduced in it.