APPENDIX 4

ENVIROCHECK REPORT

Geology 1:50,000 Maps Legends

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age		
	CNL	Chipping Norton Limestone Formation	Limestone, Ooidal	Not Supplied - Bathonian		
	SHHB	Sharp's Hill Formation	Argillaceous Rocks with Subordinate Sandstone and Limestone	Not Supplied - Bathonian		
	WHL	White Limestone Formation	Limestone	Not Supplied - Bathonian		
	FMB	Forest Marble Formation	Limestone and Mudstone, Interbedded	Not Supplied - Bathonian		
	СВ	Combrash Formation	Limestone	Not Supplied - Bathonian		
	CNRL	Chipping Norton Limestone Formation and Rutland Formation (Undifferentiated)	Limestone and [Subequal/Subordi nate] Argillaceous Rocks, Interbedded	Not Supplied - Bathonian		
	HYSA	Horsehay Sand Formation	Sandstone	Not Supplied - Bajocian		
	NS	Northampton Sand Formation	Sandstone, Limestone and Ironstone	Not Supplied - Aalenian		
	WHM	Whitby Mudstone Formation	Mudstone	Not Supplied - Toarcian		
	MRB	Marlstone Rock Formation	Ferruginous Limestone and Ironstone	Not Supplied - Pliensbachian		
	DYS	Dyrham Formation	Siltstone and Mudstone, Interbedded	Not Supplied - Pliensbachian		
	MRB	Marlstone Rock Formation	Limestone, Ferruginous	Not Supplied - Pliensbachian		
	CHAM	Charmouth Mudstone Formation	Mudstone	Not Supplied - Sinemurian		
		Faults				



Geology 1:50,000 Maps

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

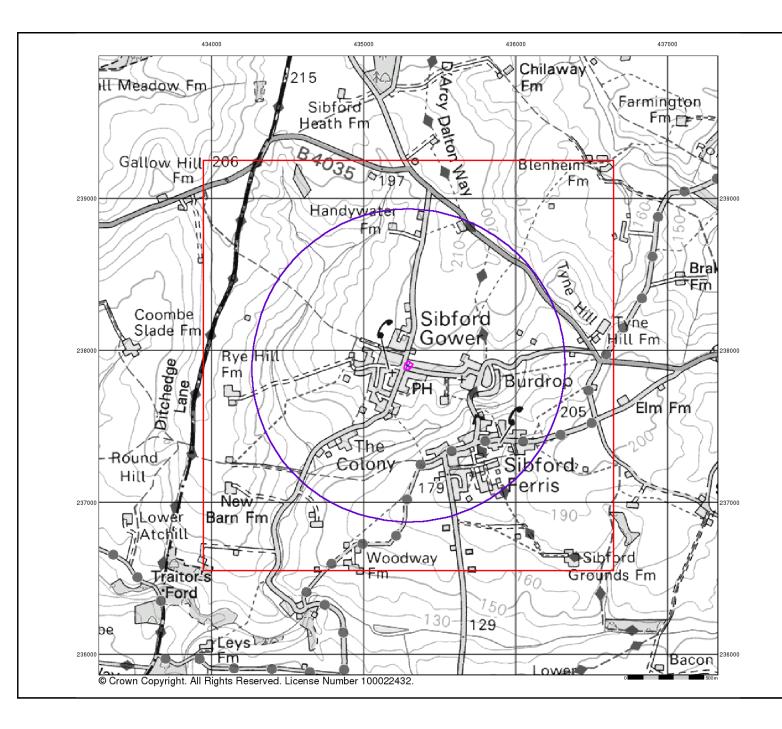
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID: Map Sheet No: Map Date: Bedrock Geology: Superficial Geology: Artificial Geology: Faults: Landslip: Rock Segments:	1 218 Chipping Norton 1968 Available Available Nor Supplied Available Not Supplied
Geology 1:50,	000 Maps - Slice A
A21 A22	A23 A24 A25
-A16	A20-
-A11A12	
- AB A7	A8A9A101
A1 A2	A3 A1 A5
Order Details:	
Order Details. Order Number: Customer Reference: National Grid Referer Slice: Site Area (Ha): Search Buffer (m):	215951425_1_1 22145
Site Details: Mawles Farm, Sibford	d Gower, Banbury, OX15 5RW
	Tel: 0844 844 9952 Fax: 0844 844 9951 Wab: www.anvirocheck.co.uk

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Artificial Ground and Landslip

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

Artificial ground includes:

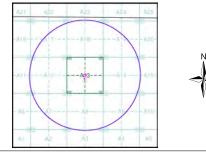
- Made ground man-made deposits such as embankments and spoil heaps on the natural ground surface.
 Worked around - areas where the ground has been cut away such as
- Worked ground areas where the ground has been cut away such as quarries and road cuttings.

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

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

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

Artificial Ground and Landslip Map - Slice A



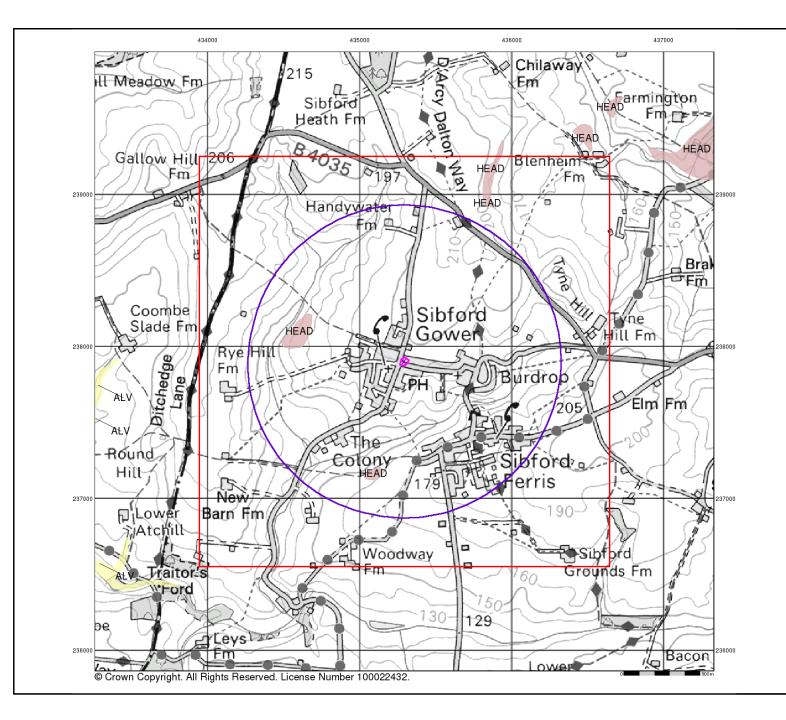
Order Details: Order Number: 215951425_1_1 Customer Reference: 22145 National Grid Reference: 435290, 237900 Silce: A Site Area (Ha): 0.21 Search Buffer (m): 1000 Site Details: Mawles Farm, Sibford Gower, Banbury, OX15 5RW

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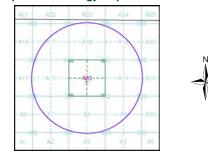
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

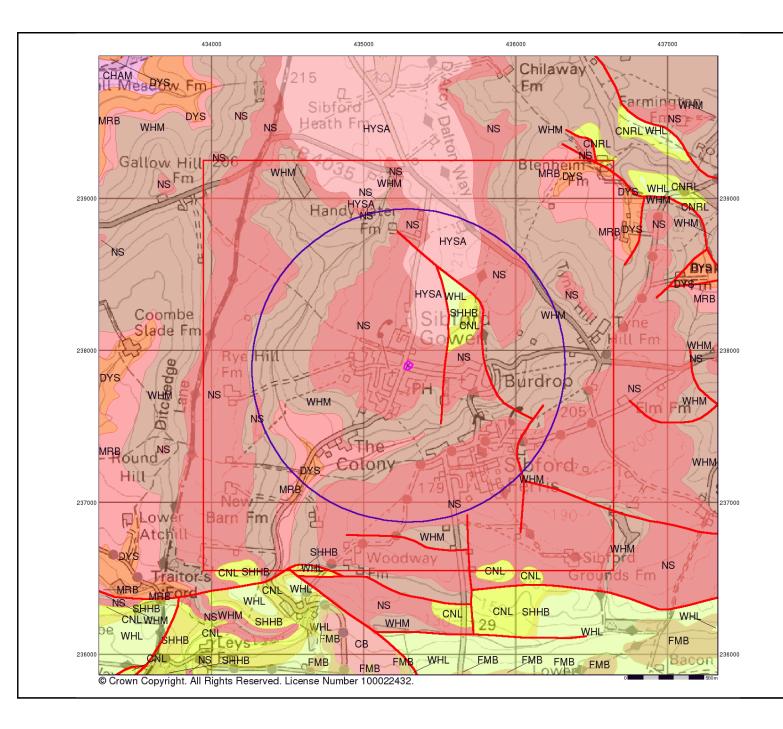
They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A



Order Details: Order Number: Customer Reference: National Grid Reference: Slice: Site Area (Ha): Search Buffer (m):	215951425_1_1 22145 435290, 237900 A 0.21 1000	
Site Details: Mawles Farm, Sibford Gowe	er, Banbury, OX15	5RW
	* Tel: Fax: Web:	0844 844 9952 0844 844 9951 www.envirocheck.co.uk
v15.0 27-Aug-2019		Page 3 c





Bedrock and Faults

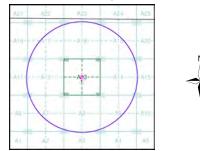
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

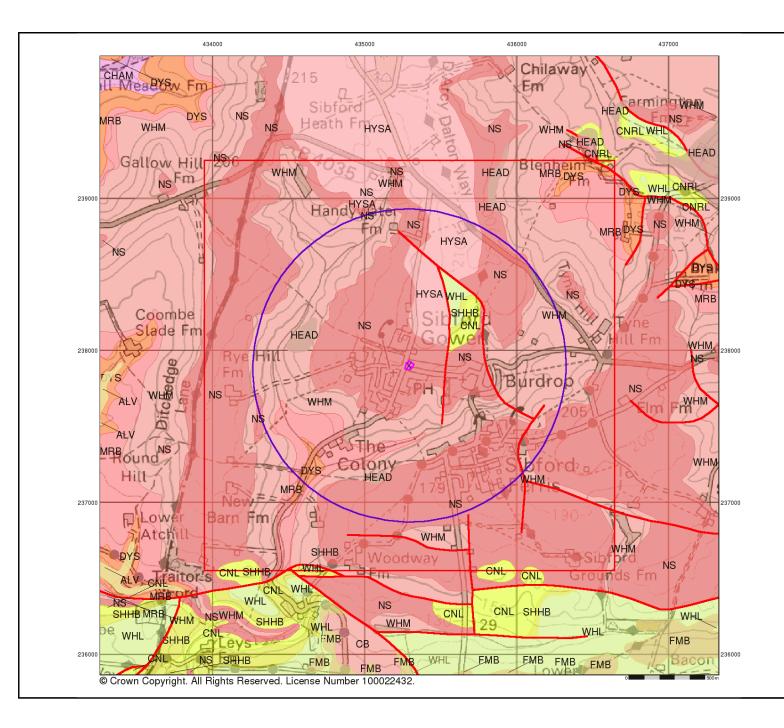
The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

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





Order Details: Order Number: Customer Reference: National Grid Reference: Slice: Site Area (Ha): Search Buffer (m):	215951425_1_1 22145 435290, 237900 A 0.21 1000	
Site Details: Mawles Farm, Sibford Gowe	r, Banbury, OX15 (5RW
	* Tel: Fax: Web:	0844 844 9952 0844 844 9951 www.envirocheck.co.uk
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Combined Surface Geology

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

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

Additional Information

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

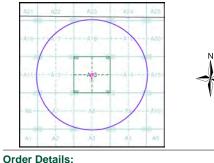
Contact

Landmark

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British Geological Survey Kingsley Dunham Centre Keyworth Nottingham NG12 5GG Telephone: 0115 936 3143 Fax: 0115 936 3276 email: enquiries@bgs.ac.uk website: www.bgs.ac.uk

Combined Geology Map - Slice A



Order Number: Customer Reference: National Grid Reference: Slice: Site Area (Ha): Search Buffer (m):	215951425_1_1 22145 435290, 237900 A 0.21 1000	
Site Details: Mawles Farm, Sibford Gowe	er, Banbury, OX15 {	ōRW
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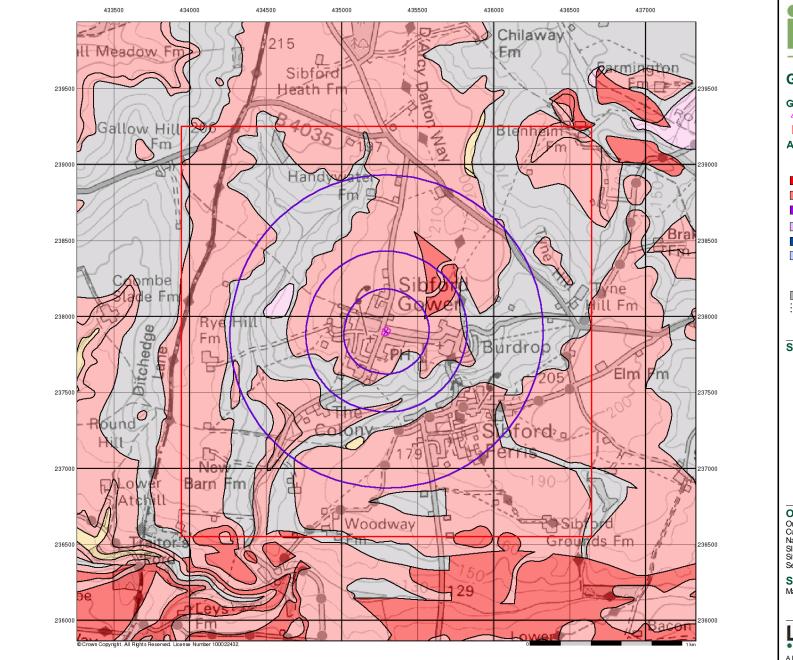
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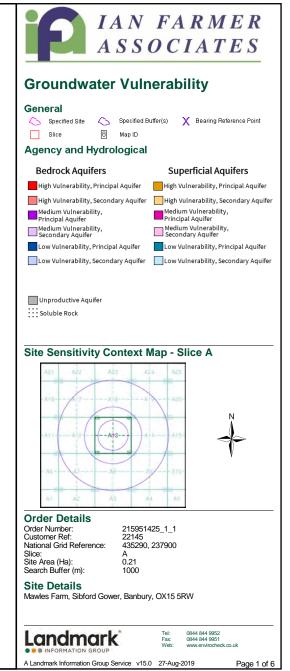
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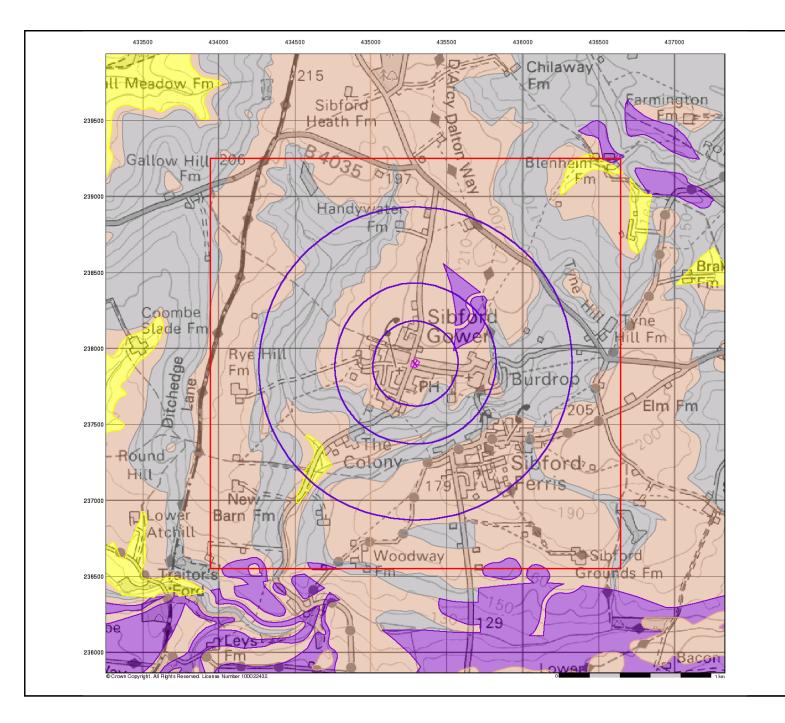
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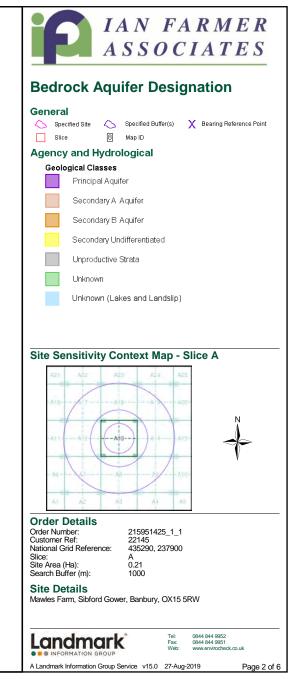
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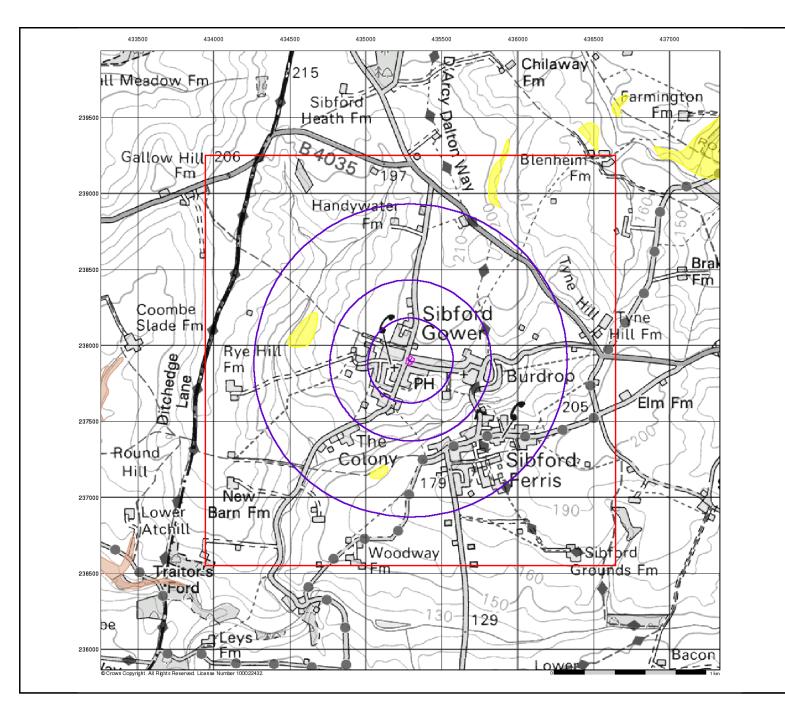
Page 5 of 5

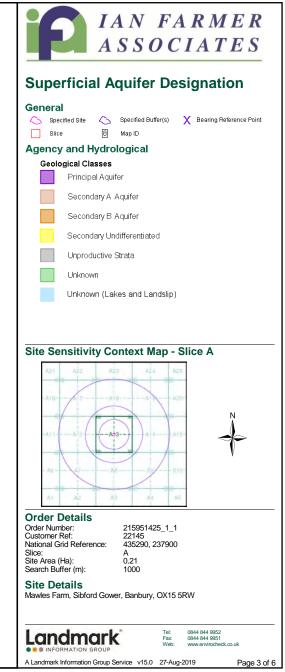


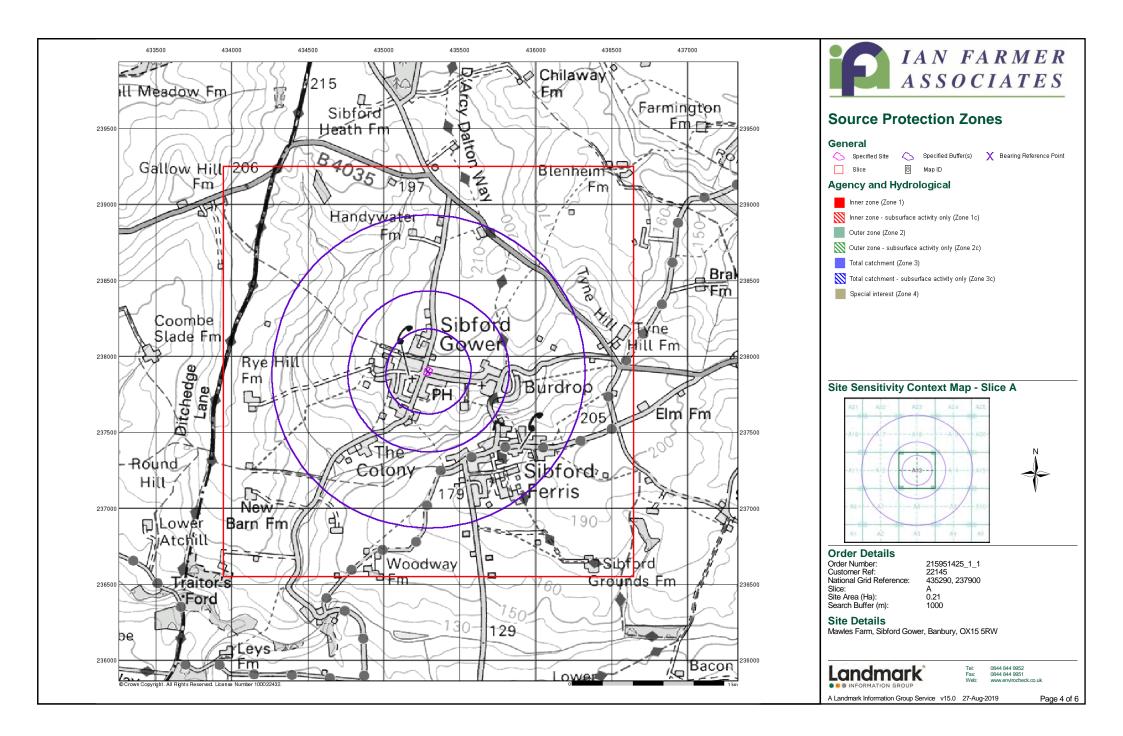


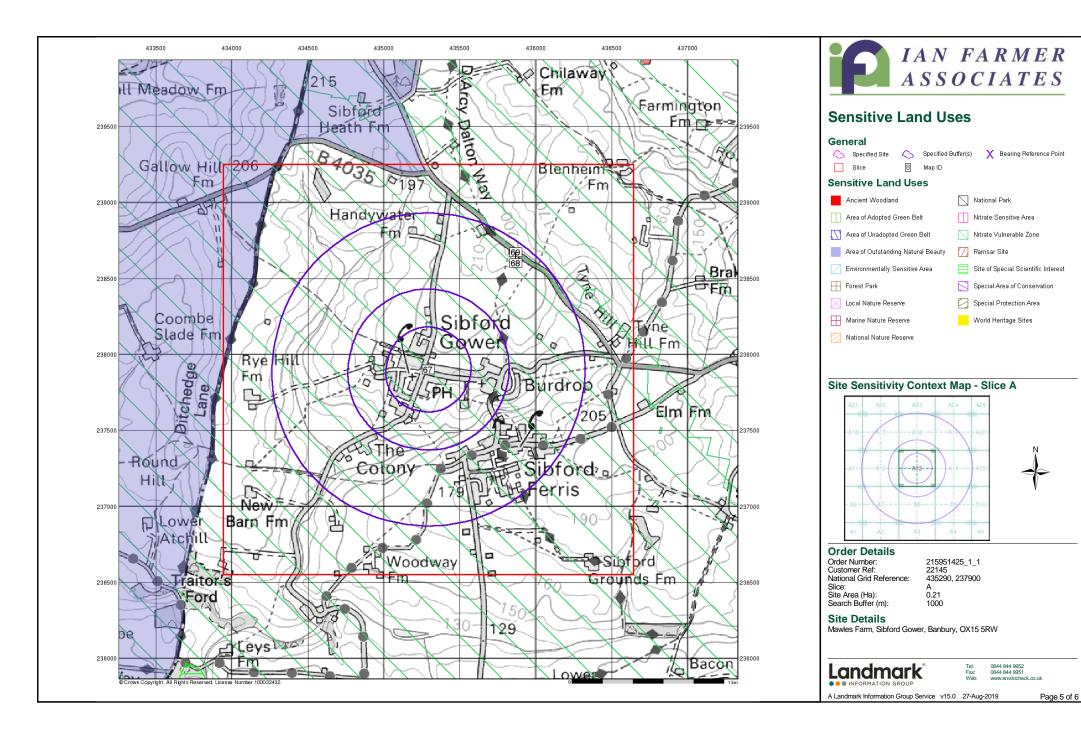


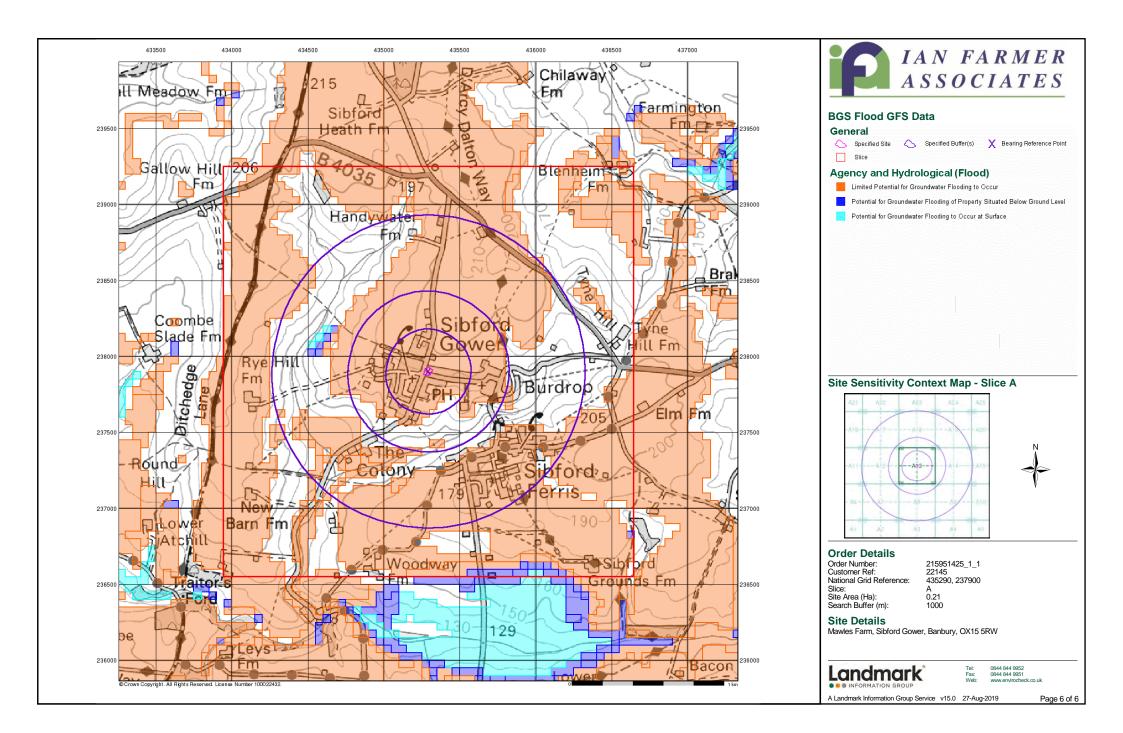


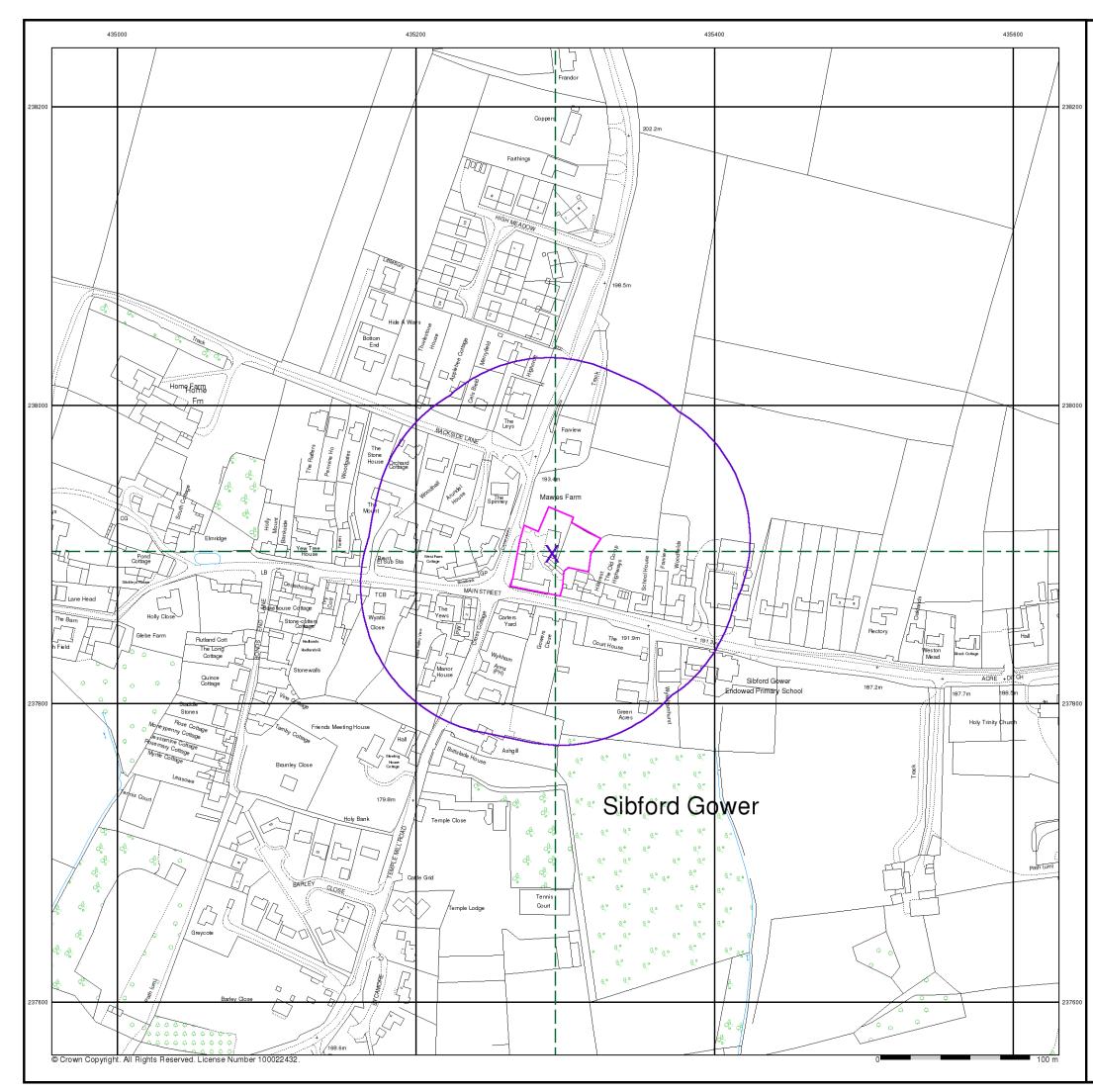










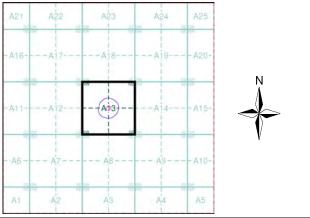


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General



Site Sensitivity Map - Segment A13



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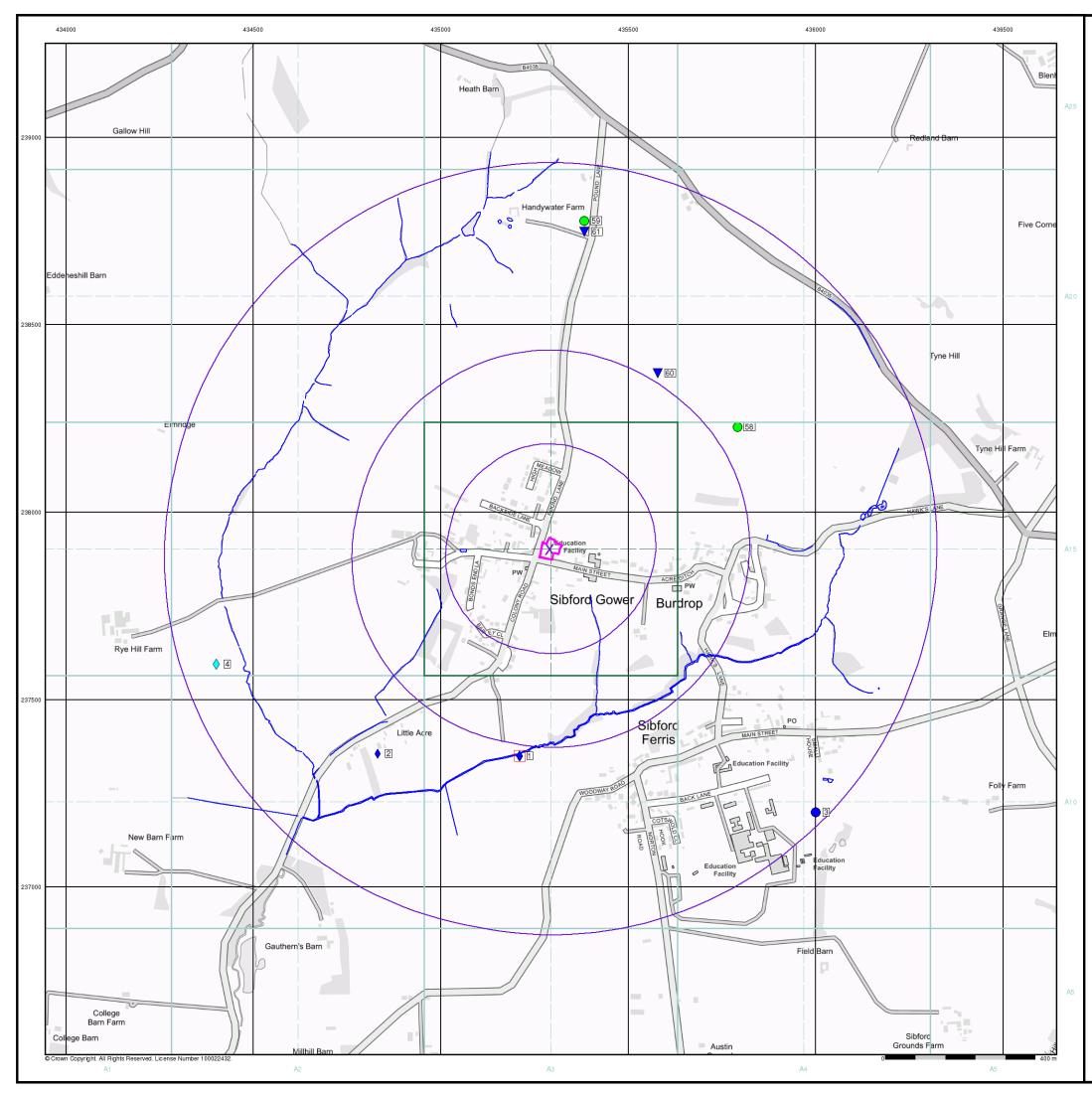
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Customer Ref:	22145
National Grid Reference:	435290, 237900
Slice:	A
Site Area (Ha):	0.21
Plot Buffer (m):	100

Site Details

Mawles Farm, Sibford Gower, Banbury, OX15 5RW



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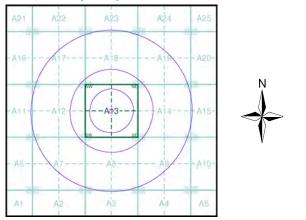


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General



Site Sensitivity Map - Slice A



Order Details

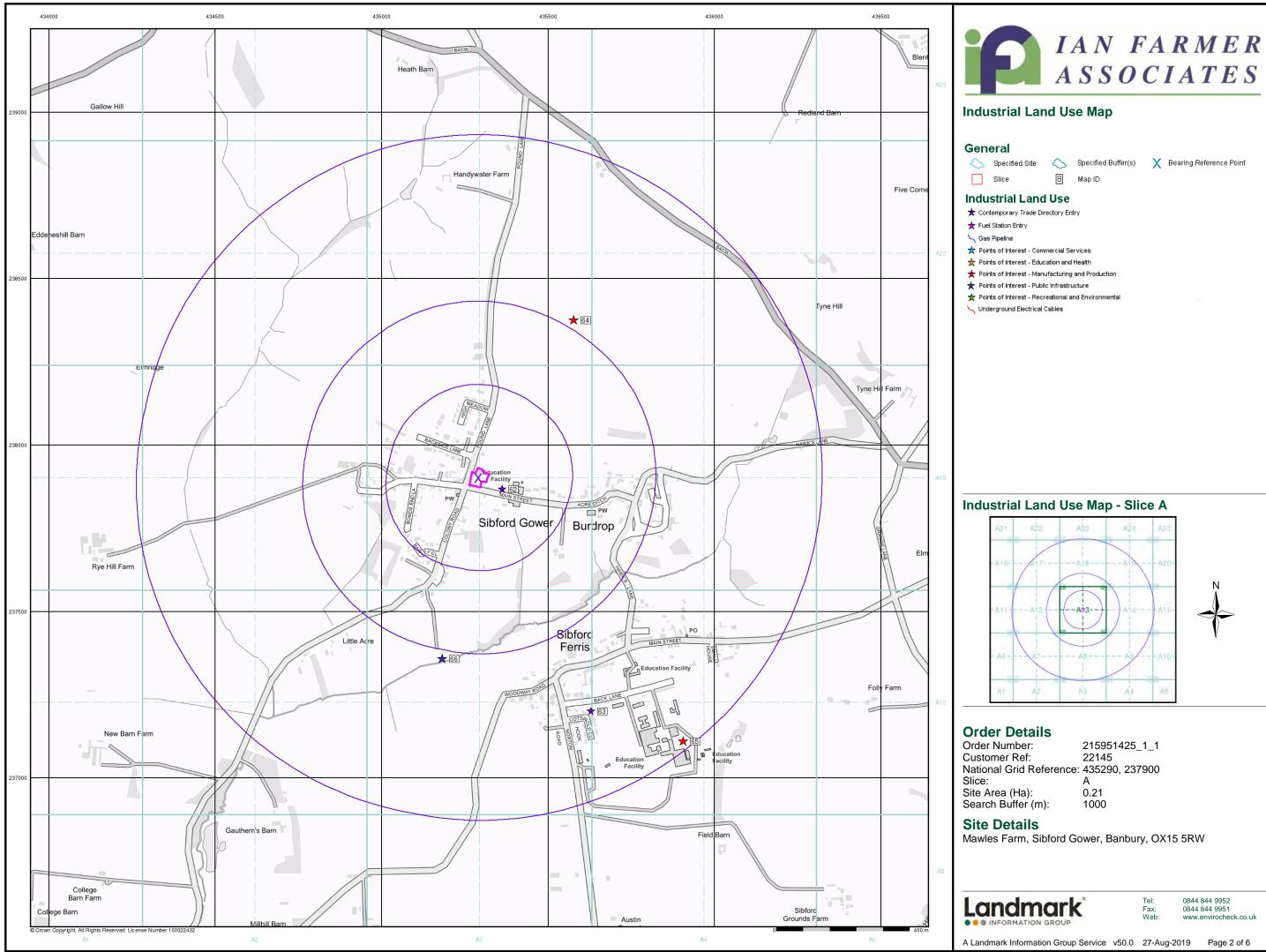
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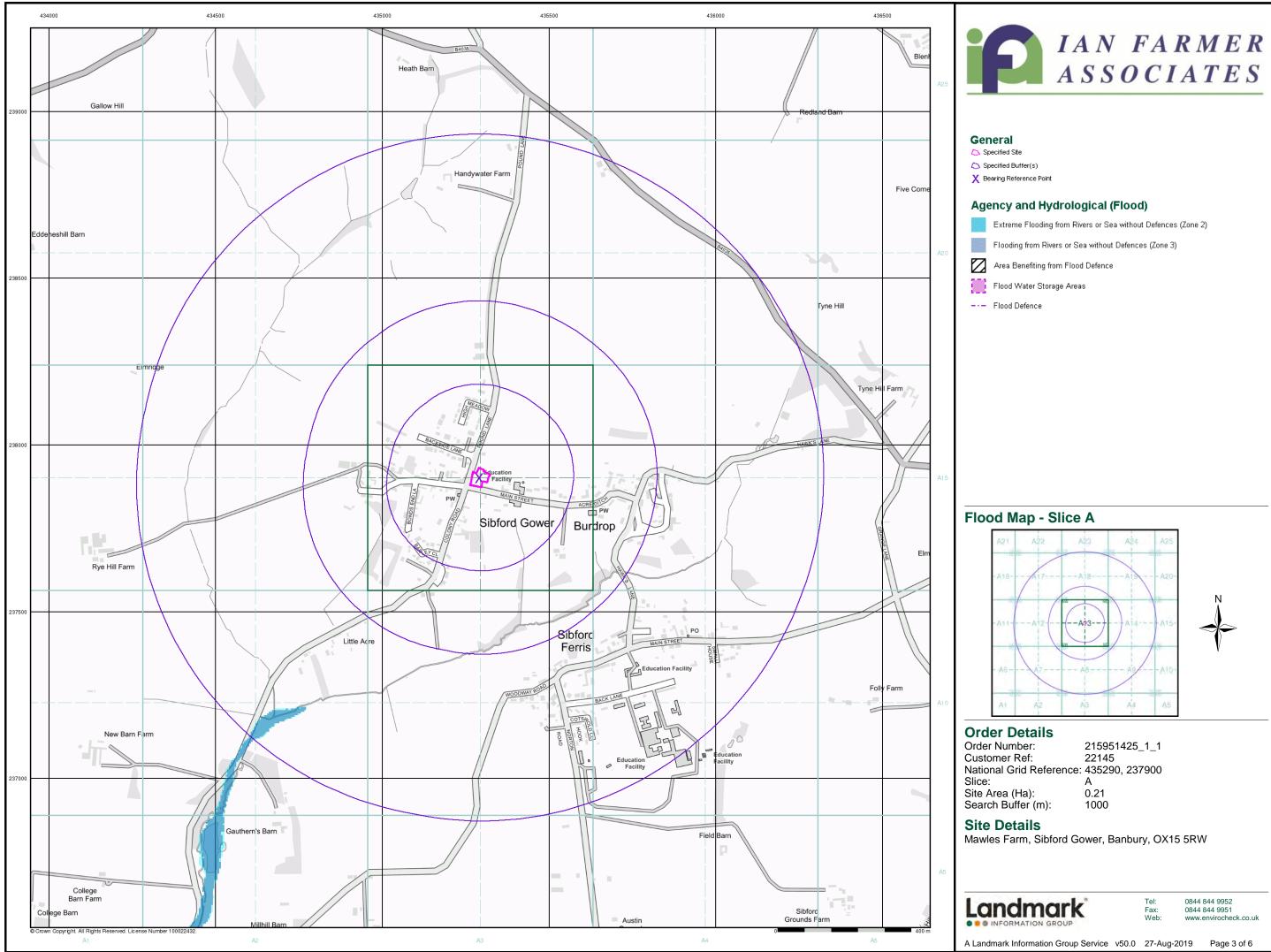
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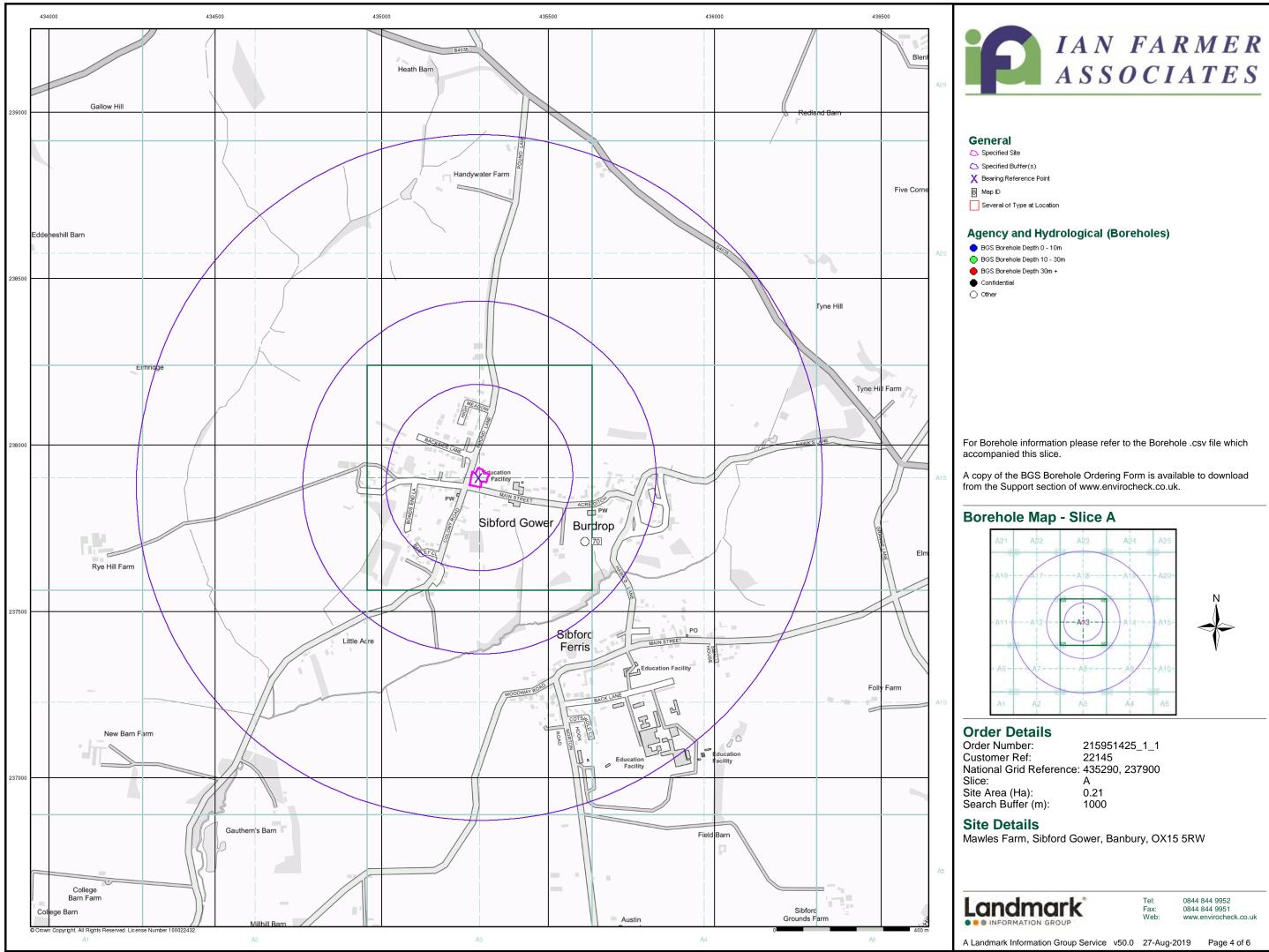
Mawles Farm, Sibford Gower, Banbury, OX15 5RW

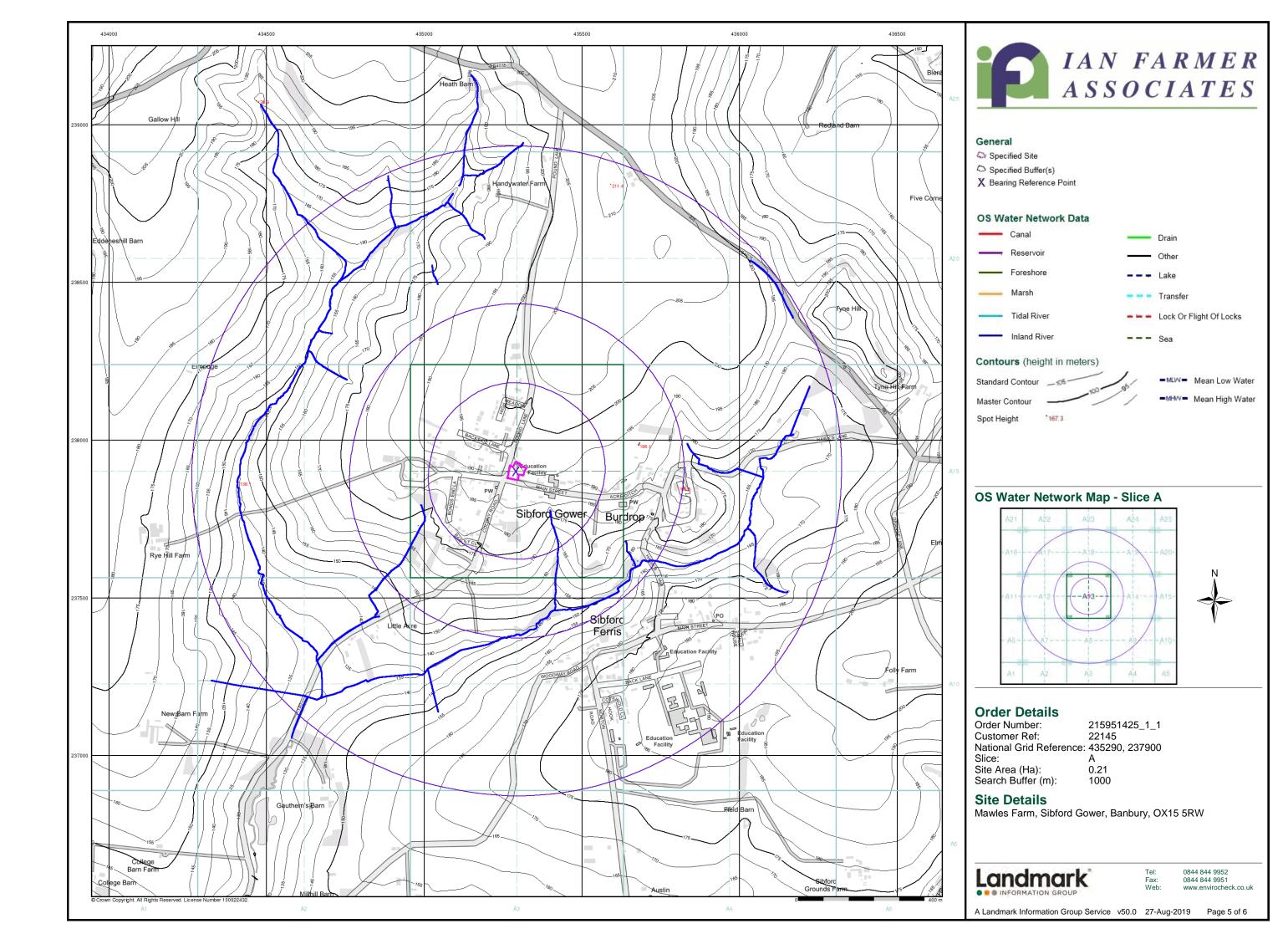


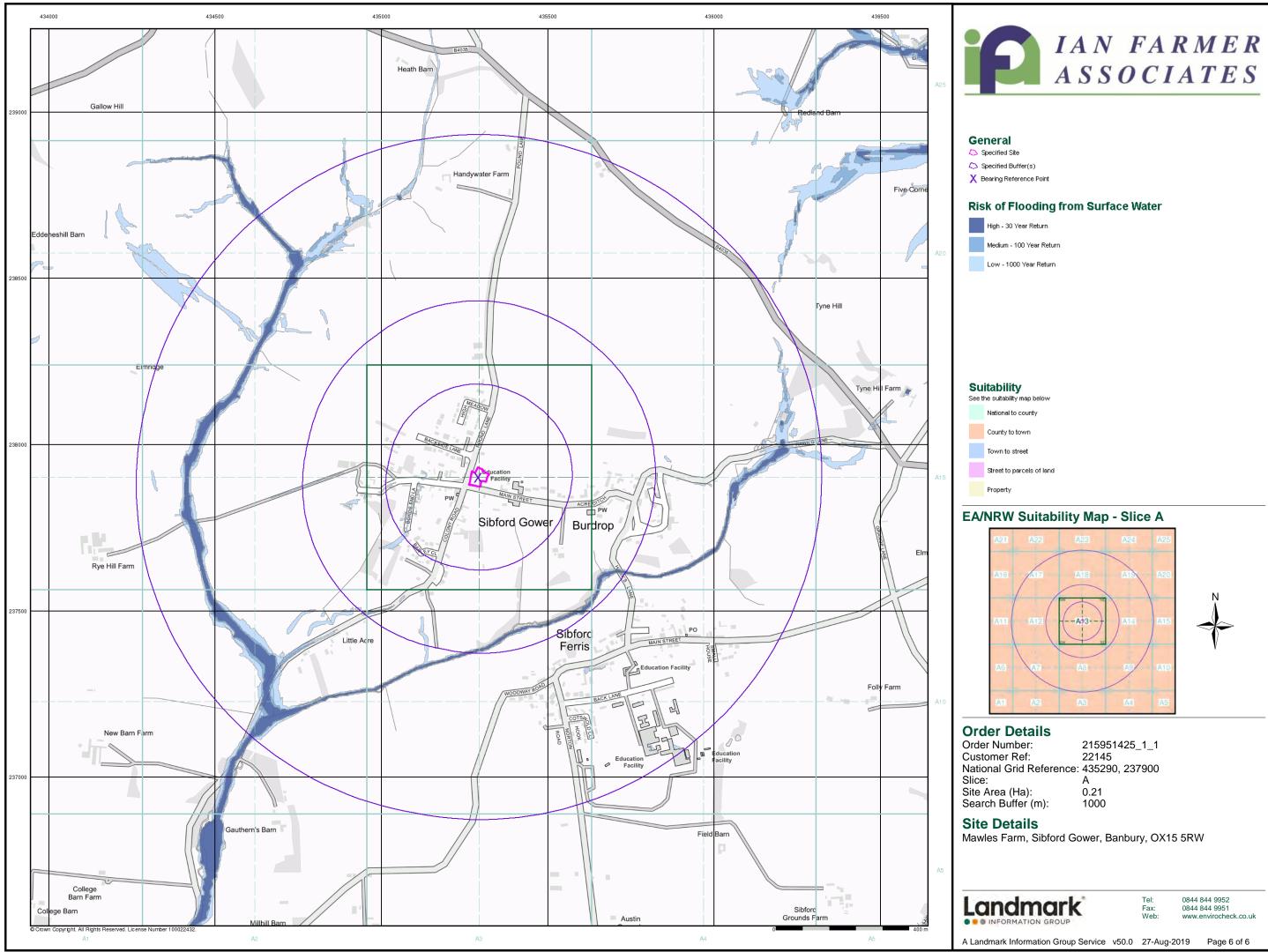
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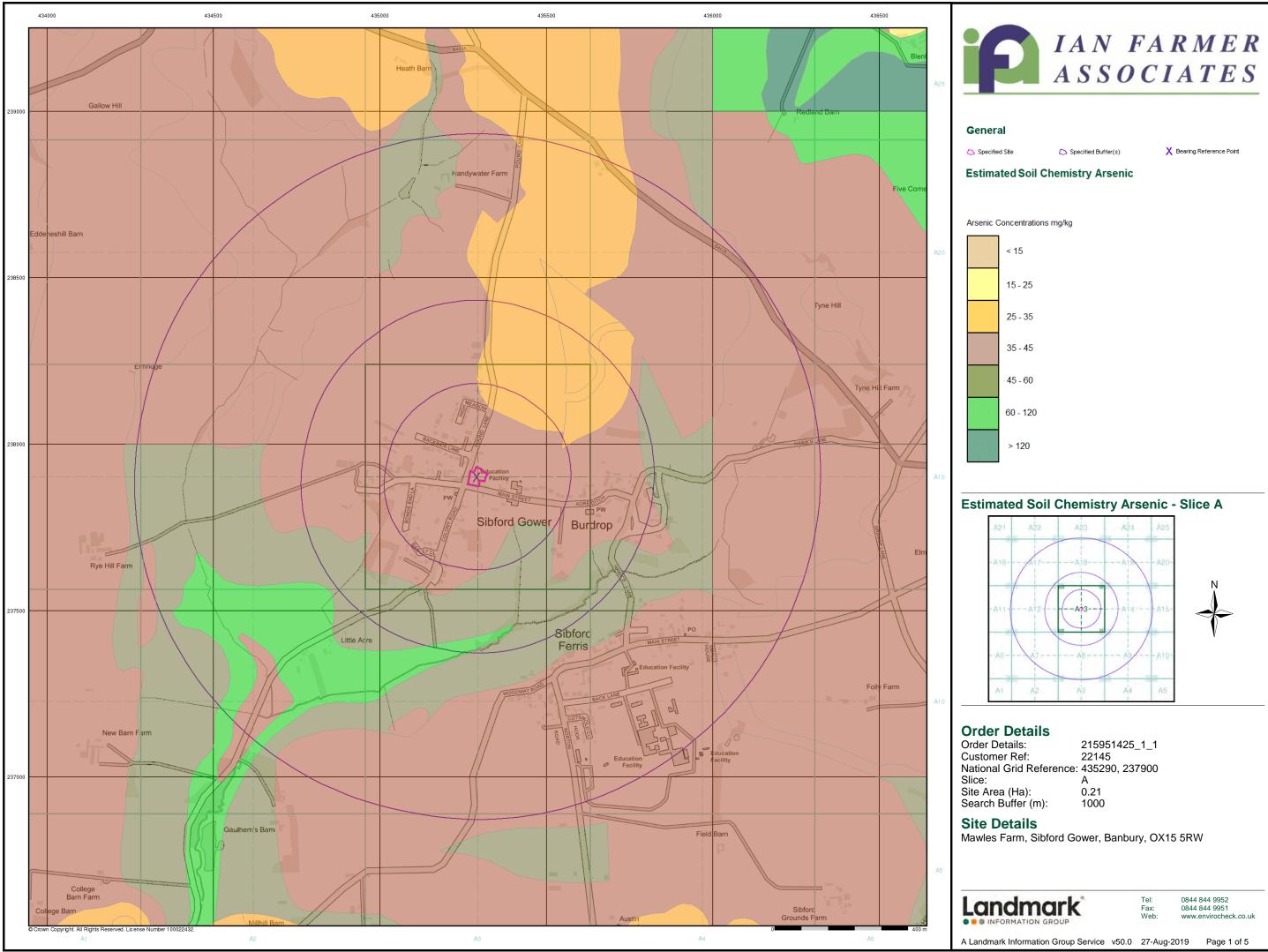




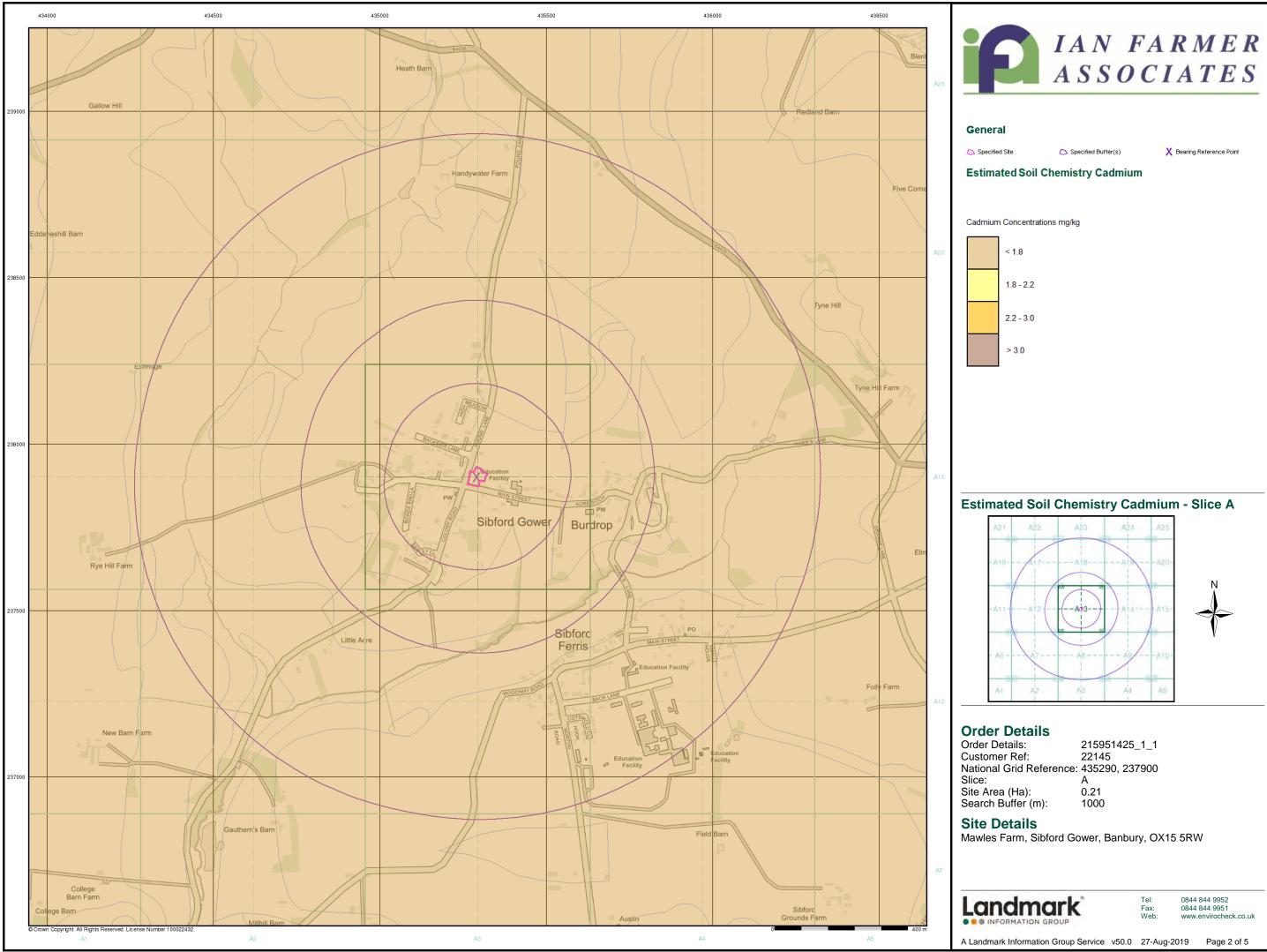


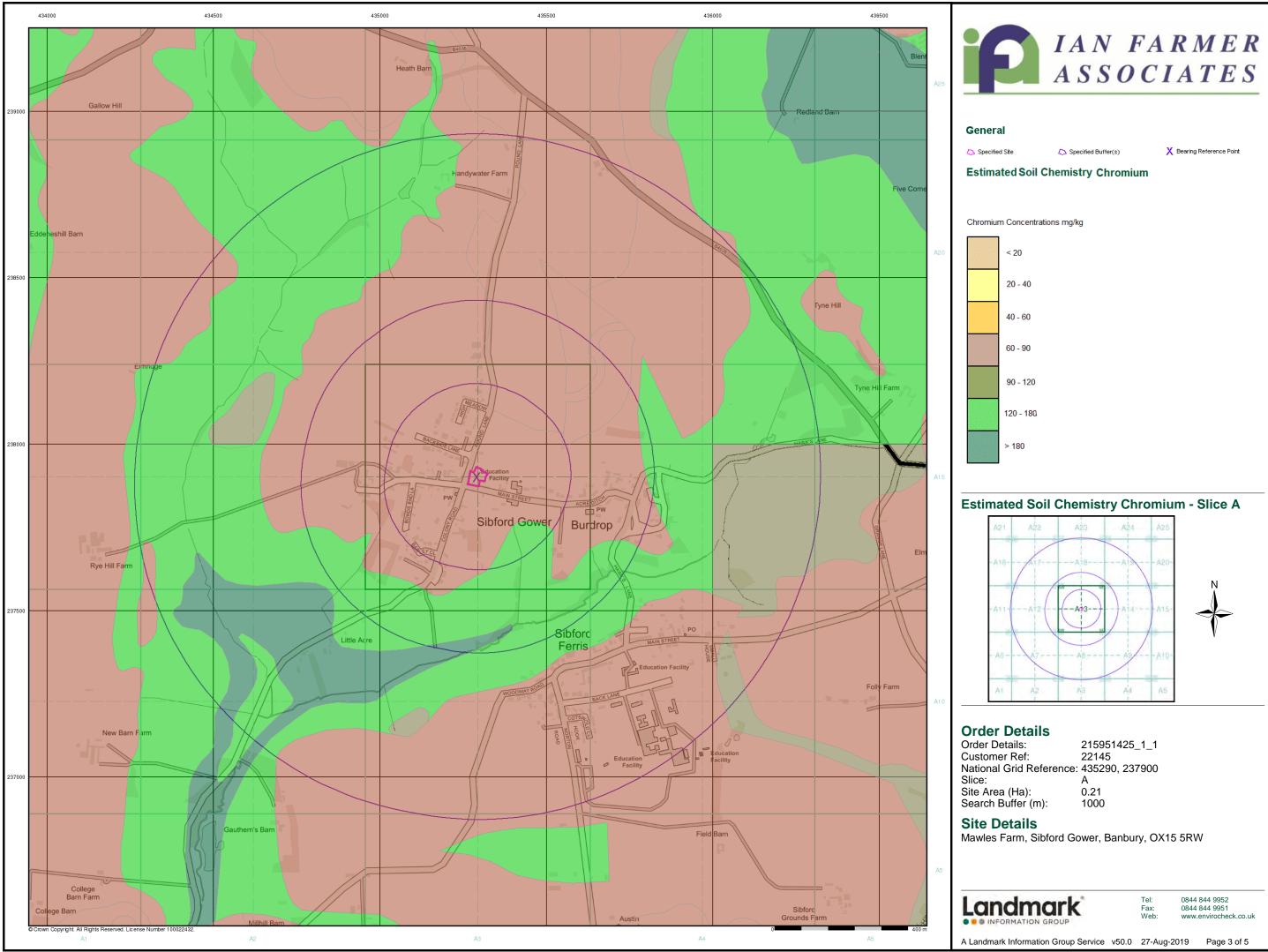


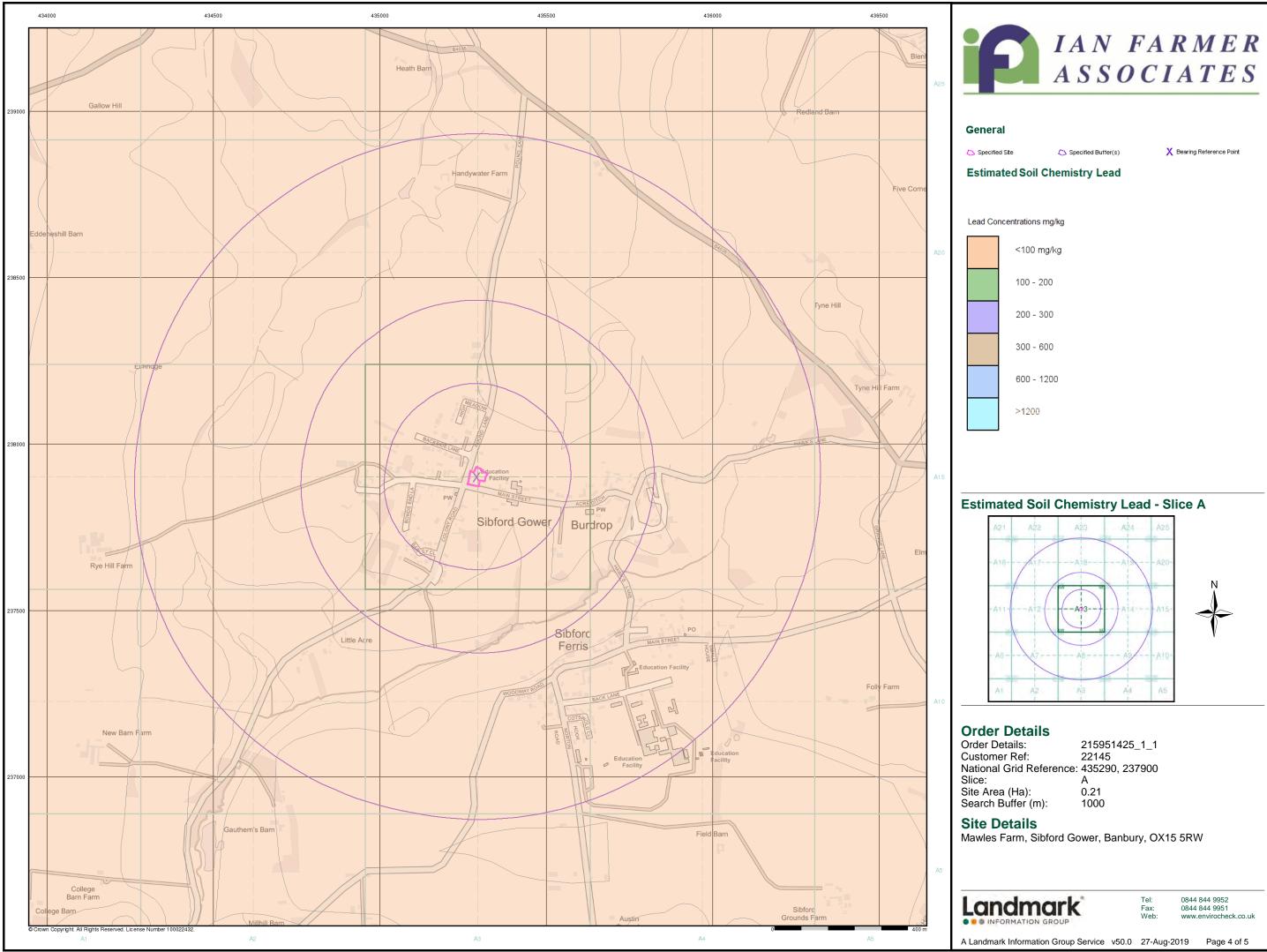
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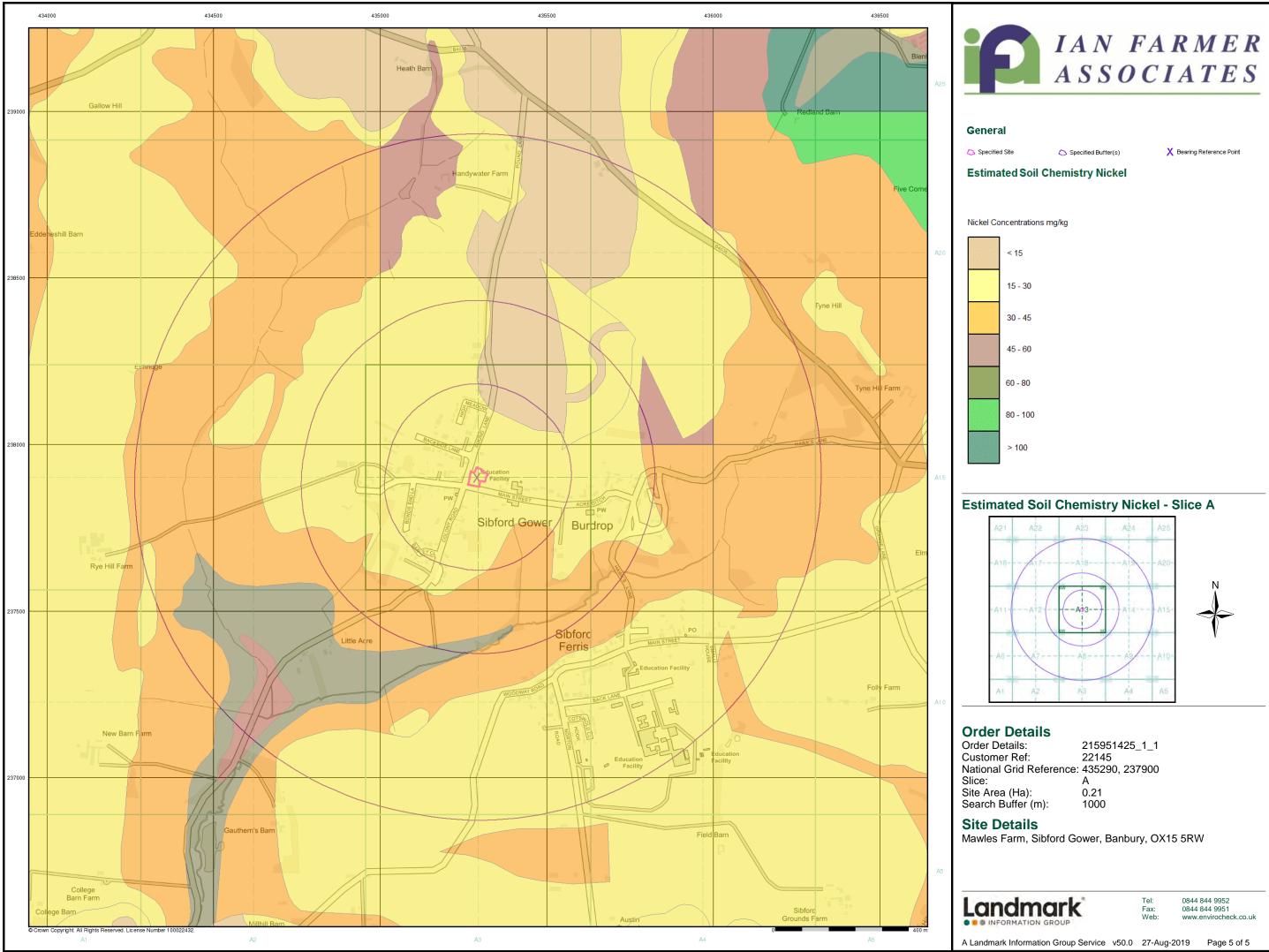


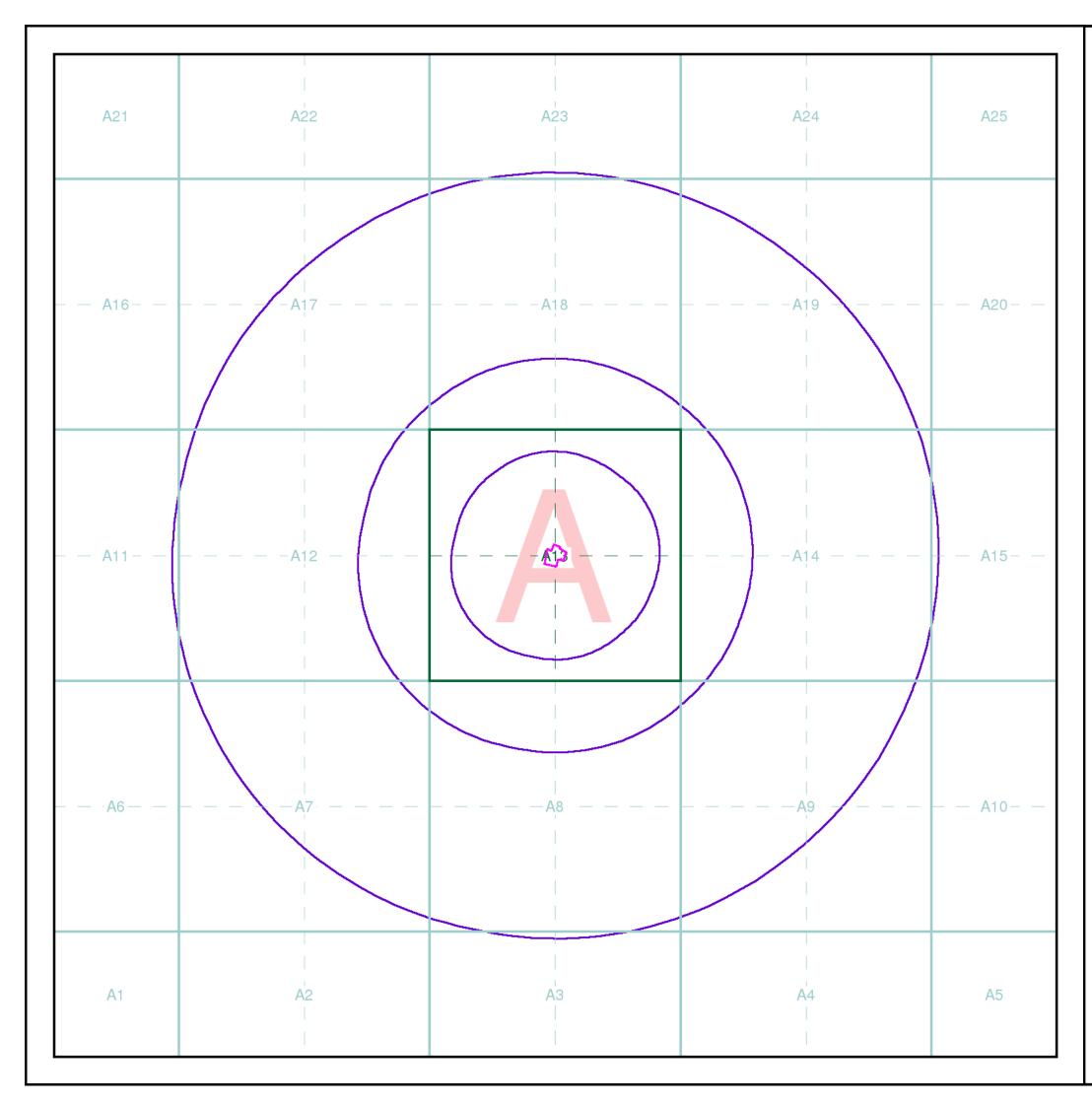
Order Details:	215951425_1_1
Customer Ref:	22145
National Grid Reference:	435290, 237900
Slice:	A
Site Area (Ha):	0.21
Search Buffer (m):	1000













Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice

Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment

A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant

A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:





British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL





Envirocheck reports are compiled from 136 different sources of data.

Client Details

MR P Bailey, Ian Farmer Associates, 1 Fairfield Court, Seven Stars Industrial Estate, Wheler Road, Coventry, CV3 4LJ

Order Details

 Order Number:
 215951425_1_1

 Customer Ref:
 22145

 National Grid Reference:
 435290, 237900

 Site Area (Ha):
 0.21

 Search Buffer (m):
 1000

Site Details

Mawles Farm, Sibford Gower, Banbury, OX15 5RW

Full Terms and Conditions can be found on the following link: http://www.landmarkinfo.co.uk/Terms/Show/515



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Historical Mapping Legends

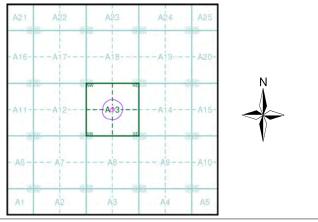
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Gravel Pit	Sand Othe Pit Pits	English	Chalk Pit, Clay Pit or Quarry		Gra∨el Pit		Gravel Pit		Refuse tip or slag heap
C Quarry	Shingle	d	Sand Pit	,, 	Disused Pit or Quarry		Rock		Rock (scattered)
រ	Reeds	sh	Refuse or Slag Heap		Lake, Loch or Pond		Boulders	00 000	Boulders (scattered)
4 + 5 + - 5 +			Dunes	°°°°°	Boulders		Shingle	Mud	Mud
Mixed Wood	Deciduous Brushwood	* * *	Coniferous Trees	A_{A}	Non-Coniferous Trees	Sand	Sand		Sand Pit
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		 	racken willing		、」,, Rough		General detail		Undergroun detail Narrow gau
Fir Arrow denote	Furze Rough Pasture	î îî	larsh		Grassland →_⊥_← Saltings		- Overhead detail Multi-track	·····	railway Single track
Arrow denote flow of water	Station				Ĵ		railway County boundary		railway Ci∨il, parisł community
- <u>†</u> - Site of Antiqu Pump, Guide Signal Post		B	uilding	tion of Flow of V	Shingle		(England only) District, Unitary, Metropolitan,		boundary Constituen
•285 Surface Leve	-	G KAN G	lasshouse	Pylon	Sand		London Borough boundary		boundary
Sketched	Instrumental	si	loping Masonry		Electricity Transmission Line	°°° **	Area of wooded ∨egetation	۵ _۵	Non-conife trees
Main Roads	Minor Roads			·	-	۵ ۵	Non-coniferous trees (scattered)	** **	Coniferous trees
Un-Fenced		Cutting	Embankm	ent 	Standard Gauge Multiple Track	*	Coniferous trees (scattered)	Ģ	Positioned tree
Sunken R		Road '''⊓''' Under		Foot ing Bridge	Standard Gauge Single Track	4 4 4 4	Orchard	₩ ₩	Coppice or Osiers
Road over	r Railway ov River				Siding, Tramway or Mineral Line + Narrow Gauge	ុជារ ភូមិភ្	Rough Grassland	assilta assilta	Heath
Railway o Road	ver Level Cros	ng	Geographical Co	unty		00_ 00_	Scrub	ച <u>₩</u> ∟ ⊐⊻і/∟	Marsh, Sall Marsh or R
Road over			Administrative Co or County of City Municipal Boroug		-	5	Water feature	← ←	Flow arrow
Road ove Stream	r		Burgh or District	Council or County Cons	ituency	MHW(S)	Mean high water (springs)	MLW(S)	Mean low water (sprir
-	oundary (Geographical)		_ Civil Parish Shown alternately w			+-	Telephone line (where shown)	-••-	Electricity transmissio
-	Ci∨il Parish Boundary	BP, BS Bo	undary Post or Stone	Pol Sta F	olice Station	←	Bench mark	٨	(with poles) Triangulation
	ative County & Civil Parish Boundar	Ch Ch	undary Fost of Stone urch ib House	PO P	ost Office ublic Convenience	BM 123.45 m	(where shown) Point feature	Δ	station
Co. Boro. Bdy.	orough Boundary (England) Irgh Boundary (Scotland)	FESta Fire	e Engine Station ot Bridge	PH P	ublic House ignal Box		(e.g. Guide Post or Mile Stone)	\boxtimes	Pylon, flare or lighting t
	aga boundary (ocolianu)	Fn Fo	untain	Spr S	pring	•	Site of (anti-ultur)		
Co. Burgh Bdy.	rict Boundary	GP Gu	ide Post e Post	тсв т	elephone Call Box elephone Call Post	•	Site of (antiquity)		Glasshouse

IAN FARMER ASSOCIATES

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Oxfordshire	1:10,560	1884 - 1887	2
Warwickshire	1:10,560	1885 - 1886	3
Oxfordshire	1:10,560	1900	4
Oxfordshire	1:10,560	1905 - 1906	5
Oxfordshire	1:10,560	1923	6
Gloucestershire	1:10,560	1923	7
Historical Aerial Photography	1:10,560	1948	8
Oxfordshire	1:10,560	1951	9
Ordnance Survey Plan	1:10,000	1955	10
Ordnance Survey Plan	1:10,000	1977	11
10K Raster Mapping	1:10,000	1999	12
10K Raster Mapping	1:10,000	2006	13
VectorMap Local	1:10,000	2019	14

Historical Map - Slice A



Order Details

 Order Number:
 215951425_1_1

 Customer Ref:
 22145

 National Grid Reference:
 435290, 237900

 Slice:
 A

 Site Area (Ha):
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