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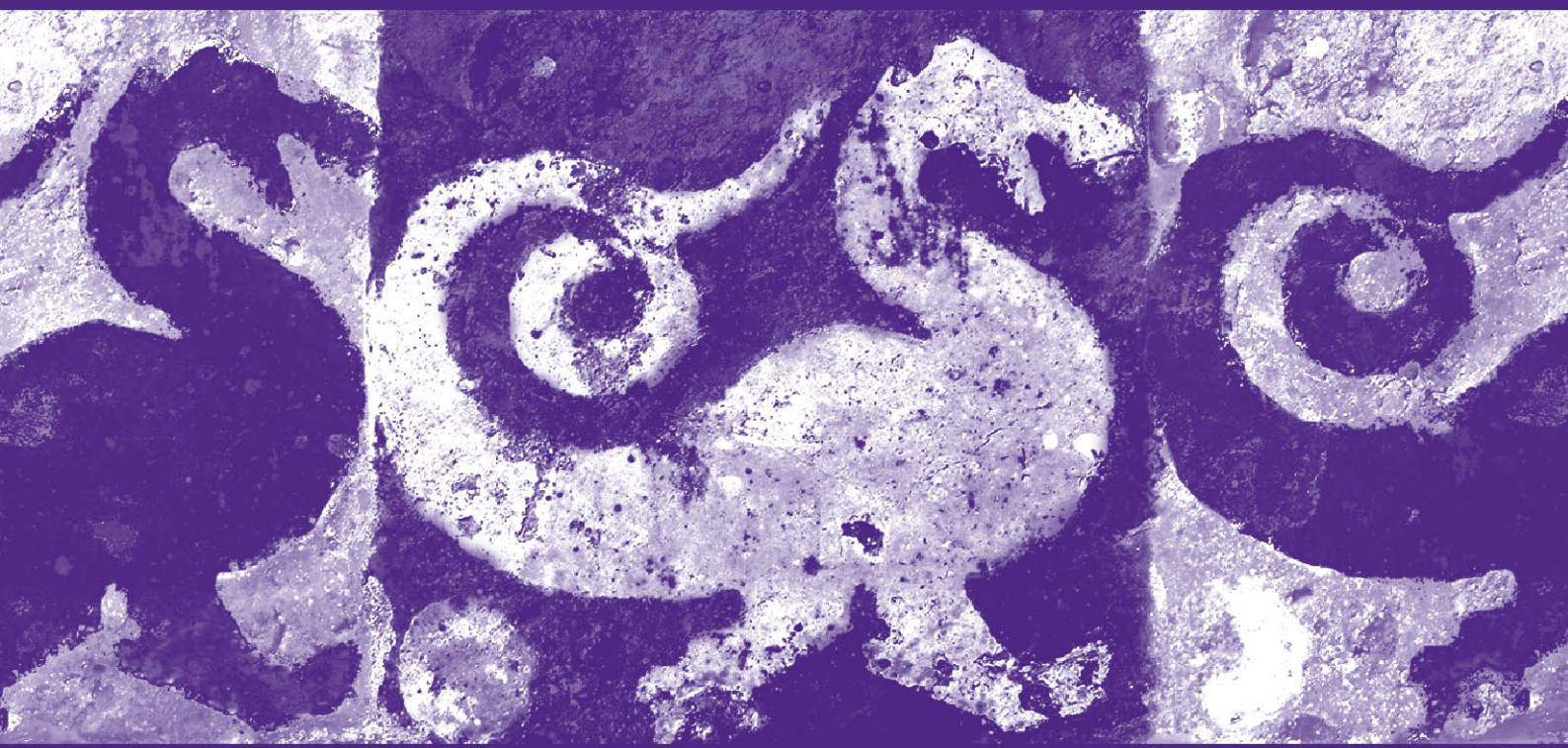
COSMIC+ RISK ASSESSMENT OF ARCHAEOLOGICAL SITES ON OVERBURY FARMS, WORCESTERSHIRE



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COSMIC+ RISK ASSESSMENT OF ARCHAEOLOGICAL SITES ON OVERBURY FARMS, WORCESTERSHIRE

Darren Miller

Illustrations by Richard Bradley

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COSMIC+ Risk assessment of archaeological sites on Overbury Farms, Worcestershire

Darren Miller

1. Background

1.1 Sites at risk

This report considers the risk of cultivation and related factors to known archaeological sites on Overbury Farms, Worcestershire. It is based on a risk assessment model initially developed for English Nature by the Oxford Archaeological Unit (COSMIC; OAU 2006) and further developed by Worcestershire Historic Environment and Archaeology Service for Natural England (COSMIC+; WHEAS 2009). It is intended to inform a management plan and an application for Higher Level Stewardship.

The assessment covered twenty-six fields in which archaeological sites were known from cropmarks or other evidence (Figure 1). The sites are described individually in the appendix. They include at least sixteen Iron Age and/or Roman settlements (mainly farmsteads) and various lengths of contemporary tracks. They also include two early Bronze Age barrows, three late Bronze Age or Iron Age pit alignments, and a Roman burial.

All but two of the sites had been noted in a previous Farm Environment Plan (WHEAS 2007) and most of them were considered to be at risk of erosion (truncation of archaeological deposits). The main aims of the project were to define the risk, in each case; to identify the factors that cause and prevent erosion; and to recommend appropriate management options.

1.2 Current management

The twenty-six fields are all in continuous cultivation. In seven fields, potatoes or salad onions are grown in rotation with wheat, barley and beans. In three fields, potatoes are grown in rotation with wheat and oilseed rape. The other fields produce wheat, oilseed rape, barley, beans, and peas in various rotations, some of which include cover crops or short-term grass leys.

The types of crop grown, and the requirements of each type, are of crucial importance to the model described below. In particular, the model distinguishes sharply between potatoes, other root crops, and combinable crops. It also distinguishes between different methods of cultivation and harvesting.

With regard to cultivation, fields planted with potatoes are ploughed to a depth of ten to twelve inches (25-30cm). When salad onions are grown instead, the depth of ploughing is eight to ten inches (20-25cm). Fields planted with combinable crops are either ploughed to a depth of six to eight inches (15-20cm), or tilled less deeply with a disc or tine cultivator. The seeds are drilled to varying depths: a few inches for cereals, up to six inches for beans.

With regard to harvesting, potatoes are lifted by machine from a depth no greater than that of ploughing. Some soil is lost with every harvest, but most is returned to the field and spread. Salad onions are harvested by hand, with minimal soil loss. The other crops are harvested by machine.

Methods of soil and water management are also important to the model. Most of the fields are subsoiled to a depth of fourteen inches (35cm) every five or six years. They do not require regular drainage work.

1.3 Risk assessment

The assessment proceeded in six stages broadly following a detailed project design (WHEAS 2009, 8-19). The first stage was a review of the Farm Environment Plan and the information on which it was based. In the process, two new sites were noted (in Bean Hill and Gastons) and included in the assessment.

The second stage was an interview with the Farm Manager who provided detailed information on the fields and their management.

The third stage involved a walkover survey and test-pitting. This fieldwork provided consistent data on slopes, soil types, and depths of cultivation.

The fourth stage involved additional fieldwork. In twelve fields, the evidence of the cropmarks was supplemented by geophysical surveying. In eleven of these fields, the results were tested by excavating trenches. In another two fields, cropmarks were targeted instead of geophysical anomalies.

The information was then assessed, using a modified version of the original model. For each site, the likelihood of erosion was established by scoring a range of management and intrinsic factors. The significance of each site was established by considering the evidence and current research frameworks. The total scores for each set of factors were weighted to acknowledge particular combinations. Final risk scores were calculated and related to broader risk levels.

Finally, the results were checked and reviewed to identify appropriate management options.

2. Summary of results

The results are summarised below. The detailed results are presented in the appendix, except for the results of the geophysical survey. Information relating to each field is presented together, for ease of reference. Each field is shown on a large-scale plan. Each plan shows the best available plot of the cropmarks and the location of test pits (exaggerating their size). Where appropriate, the plans also show geophysical survey plots and sample trenches. In addition, for each field there is a sheet summarising the results of the walkover survey and test-pitting; an annotated photograph of a typical test pit; and an assessment sheet, showing how each site was scored. Where sample trenches were excavated, there is also a table and at least one photograph.

The main technical terms used below, and in the appendix, are defined and explained in section 6.

2.1 Sites at serious risk

Sites in nine fields are at serious risk from potato cultivation. The fields are Top Nine Acres, Bottom Nine Acres, Troughters, Clay Piece, Orchard Piece, Allotments, Lynch Piece, Perks, and Spires North (Table 1; Figure 2). The main risk factors associated with potato cultivation are deep ploughing and soil loss during harvesting. Because the sites are not protected by alluvium or colluvium, these factors are sufficient in themselves to produce high or serious final risk scores. The range of scores shown in Table 1 reflects other risk factors and the level of significance accorded to each site. Three sites are clearly significant: the double-ditched enclosure in Troughters, the enclosure straddling Lynch Piece and Perks, and the multi-period site that extends into the east half of Spires North. All three sites are Scheduled Ancient Monuments. The double-ditched enclosure straddling Top Nine Acres and Bottom Nine Acres is nearly as significant, while the enclosures in Clay Piece, Orchard Piece, and Allotments are less significant (or so it appears).

The same sites are at low or moderate risk from salad onion cultivation. This is because the fields are ploughed less deeply and because less soil is lost during harvesting. The risk when other crops are grown is lower still because the crops are established by minimum tillage and harvested with a combine harvester.

Field number	Field name	Final risk scores	Serious 60+	High 50-59	Moderate 40-49	Low 30-39	Minimal 0-29
		Ploughing: potatoes		Ploughing: salad onions		Minimum tillage: combinable crops	
6709	Lynch Piece	77		42		38	
4048	Troughters	74.5		43.5		36.5	
9976	Spires North	74.5		n/a		36.5	
3712	Clay Piece	70.5		39.5		35.5	
6174	Bottom Nine Acres	70.5		39.5		34	
6482	Perks	70		39.5		30	
6303	Top Nine Acres	68.5		40		29.5	
3930	Orchard Piece	66.5		39.5		30	
1214	Allotments	66		n/a		31	

Table 1: Sites at serious risk from potato cultivation and lower risk from other types of cultivation

2.2 Sites at high risk

Sites in Athills, Elmont, and Wellgates are at high risk (Table 2; Figure 2). Athills contains an Iron Age enclosure and part of a Roman farmstead with stone buildings. Elmont contains an Iron Age or Roman enclosure, a Roman villa, and at least one late medieval building, while Wellgates contains two Bronze Age barrows. On present evidence, these sites are more significant than the Scheduled Ancient Monuments noted above. Their significance accounts for the final risk scores being high as opposed to moderate. In each case, the likelihood of erosion reflects a combination of shallow or moderate buffers, sloping ground, and sandy or silty soils. The sites in Athills and Elmont are also at risk from subsoiling (currently once every five years).

Field number	Field name	Final risk score	Serious 60+	High 50-59	Moderate 40-49	Low 30-39	Minimal 0-29
		Minimum tillage: combinable crops			Ploughing: combinable crops		
2558	Athills	59.5			n/a		

Field number	Field name	Final risk score	Serious 60+	High 50-59	Moderate 40-49	Low 30-39	Minimal 0-29
3221	Elmont	57.5			n/a		
3561	Wellgates	50			56.5		

Table 2: Sites at high risk

2.3 Sites at moderate risk

Sites in seven fields are at moderate risk. The fields are Collins Piece, Paul's Bushes, Cobbler's Quarry, Nettlebeds, Horse Close, Long Acre, and Lord's Quarry South (Table 3; Figure 2). The sites in Collins Piece, Nettlebeds and Long Acre are the most significant of this group. In Collins Piece, the risk reflects the significance of the site (a possible Roman cemetery) rather than the likelihood of erosion. However, the sites in Nettlebeds and Long Acre are both highly significant, and genuinely at risk. In these fields, and in Paul's Bushes, Cobbler's Quarry, and Horse Close the risk reflects a combination of a moderate slope, sandy/silty soils, and occasional subsoiling. In Lord's Quarry South, the risk reflects occasional ploughing, a steep slope, and sandy/silty soils.

Field number	Field name	Final risk score	Serious 60+	High 50-59	Moderate 40-49	Low 30-39	Minimal 0-29
		Minimum tillage: combinable crops			Ploughing: combinable crops		
4075	Collins Piece	44			n/a		
7888	Paul's Bushes	44.5			n/a		
5559	Cobbler's Quarry	43			n/a		
3221	Nettle-beds	47			n/a		
5579	Horse Close	42			n/a		
3273	Long Acre	40.5			n/a		
6991	Lord's Quarry South	35			41.5		

Table 3: Sites at moderate risk

2.4 Sites at low and minimal risk

As well as the sites described above, when potatoes and salad onions are not cultivated, the sites in Crab Tree North, Aston Far Ground North, Bean Hill, Crumps Home Ground, Hopyard West, Gastons, and Hill Field are at low or minimal risk (Table 4; Figure 2). The sites in Bean Hill and Hill Field are the most significant of this group.

The final risk scores reflect the absence of root/tuber crops and other factors that increase the likelihood of erosion. Crab Tree North, Aston Far Ground North, Bean Hill, and Crumps Home Ground are flattish fields in minimum tillage with moderate buffers. Hopyard West is a similar case, but is ploughed every four years or so. Gastons and Hill Field are ploughed occasionally, and Hill Field has a moderate gradient, but both fields still have moderate buffers, and Hill Field is not subsoiled.

Field number	Field name	Final risk score	Serious 60+	High 50-59	Moderate 40-49	Low 30-39	Minimal 0-29
		Minimum tillage: combinable crops			Ploughing: combinable crops		
3169	Hill Field	38			38		
6709	Lynch Piece	38			42		
4048	Troughters	36.5			43.5		
9976	Spires North	36.5			n/a		
4776	Bean Hill	34			n/a		
6174	Bottom Nine Acres	34			39.5		
1214	Allotments	31			n/a		
9124	Hopyard West	31			n/a		
3623	Crumps Home Ground	30			n/a		
6482	Perks	30			39.5		
3930	Orchard Piece	30			39.5		
6303	Top Nine Acres	29.5			40		
7774	Crab Tree North	28.5			n/a		
4192	Aston Far Ground North	23			n/a		
7127	Gastons	21			22		

Table 4: Sites at low and minimal risk

3. Management options

This section considers how sites at serious, high, and moderate risk might be protected by changes in management. It is not concerned with sites at low and minimal risk. Options available through Higher Level Stewardship are noted with reference to their codes.

3.1 Sites at serious risk

The simplest way of protecting the sites in Top Nine Acres, Bottom Nine Acres, Troughters, Clay Piece, Orchard Piece, Allotments, Lynch Piece, Perks, and Spires North would be to remove potatoes from the current rotations. This would reduce the risk from serious to low, except in Lynch Piece, Troughters, and Top Nine Acres, where sites would remain at moderate risk from salad onion cultivation. The risk is at the low end of the scale, but the sites are highly significant, and those in Lynch Piece and Troughters are scheduled. Ideally, all three fields should be given over to combinable crops and non-inversion tillage. One such option is available through Higher Level Stewardship (HD3). In this option, crops are established by non-inversion tillage to a maximum depth of 10cm or 4 inches. Subsoiling and mole-ploughing are not permitted and other restrictions apply. Taking this option would reduce the risk in all three fields from serious to low. Other options available through HLS need not be considered. However, the enclosure that straddles Lynch Piece and Perks could be protected by partial reversion (HD2 or HD7), in the form of margins along both sides of the hedge. The same approach would also protect the enclosure that straddles Top Nine Acres and Bottom Nine Acres.

Field number	Field name	Main risk factors	Management options	Risk after mitigation
6709	Lynch Piece	Deep ploughing for potatoes; soil loss during harvesting; subsoiling; highly significant deposits	Remove potatoes from rotation but continue to cultivate salad onions or similar root/tuber crops	Moderate
			Establish combinable crops by reduced-depth, non-inversion tillage with no subsoiling or mole-ploughing (HD3)	Low
			Partial reversion (HD2 or HD7): create 50m wide margin along south boundary	No risk
4048	Troughters	Deep ploughing for potatoes; soil loss during harvesting; subsoiling; highly significant deposits	Remove potatoes from rotation but continue to cultivate salad onions or similar root/tuber crops	Moderate
			Establish combinable crops by reduced-depth, non-inversion tillage with no subsoiling or mole-ploughing (HD3)	Low
9976	Spires North	Deep ploughing for potatoes; soil loss during harvesting; subsoiling; highly significant deposits	Remove potatoes from rotation but continue to cultivate salad onions or similar root/tuber crops	Low
			Establish combinable crops by reduced-depth, non-inversion tillage with no subsoiling or mole-ploughing (HD3)	Low
3712	Clay Piece	Deep ploughing for potatoes; soil loss during harvesting; subsoiling	Remove potatoes from rotation but continue to cultivate salad onions or similar root/tuber crops	Low
6174	Bottom Nine Acres	Deep ploughing for potatoes; soil loss during harvesting; subsoiling; highly significant deposits	Remove potatoes from rotation but continue to cultivate salad onions or similar root/tuber crops	Moderate
			Establish combinable crops by reduced-depth, non-inversion tillage with no subsoiling or mole-ploughing (HD3)	Low
			Partial reversion (HD2 or HD7): create 50m wide margin along	No risk

Field number	Field name	Main risk factors	Management options	Risk after mitigation
			north boundary	
6482	Perks	Deep ploughing for potatoes; soil loss during harvesting; subsoiling; highly significant deposits	Remove potatoes from rotation but continue to cultivate salad onions or similar root/tuber crops	Moderate
			Establish combinable crops by reduced-depth, non-inversion tillage with no subsoiling or mole-ploughing (HD3)	Low
			Partial reversion (HD2 or HD7): create 50m wide margin along north boundary	No risk
6303	Top Nine Acres	Deep ploughing for potatoes; soil loss during harvesting; subsoiling; highly significant deposits	Remove potatoes from rotation but continue to cultivate salad onions or similar root/tuber crops	Moderate
			Establish combinable crops by reduced-depth, non-inversion tillage with no subsoiling or mole-ploughing (HD3)	Low
			Partial reversion (HD2 or HD7): create 50m wide margin along south boundary	No risk
3930	Orchard Piece	Deep ploughing for potatoes; soil loss during harvesting; subsoiling	Remove potatoes from rotation but continue to cultivate salad onions or similar root/tuber crops	Low
1214	Allotments	Deep ploughing for potatoes; soil loss during harvesting; subsoiling	Replace potatoes with salad onions or other root/tuber crops	Low

Table 5: Management options for sites at serious risk

3.2 Sites at high and moderate risk

With regard to sites at high and moderate risk, attention should focus on the most archaeologically significant sites in Athills, Elmont, Wellgates, Nettlebeds, and Long Acre.

One option for these sites would be to reduce the depth of cultivation, preferably by taking the HLS reduced-depth, non-inversion tillage option described above (HD3). This would ensure moderate to deep buffers in Athills, Elmont, and Wellgates and would reduce the risk in all three cases from high to moderate. Similarly, it would ensure deep buffers in Nettlebeds and Long Acre and reduce the risk in both cases from moderate to low.

Another HLS option appropriate to these sites would be direct drilling, with no cultivation, subsoiling, or mole-ploughing (HD6). This option would be particularly appropriate in Athills, Elmont, and Wellgates but not strictly necessary in Nettlebeds or Long Acre. Another option for the sites in Athills, Elmont, and Wellgates would be reversion (HD2 or HD7). Because of the location of the sites within these fields, it would be possible to protect the sites by reversion and continue cultivation elsewhere.

For different reasons, the other sites do not require additional protection. The site in Collin's Piece, though highly significant, is not actually at risk. The other sites are genuinely at risk, but are less significant.

Field number	Field name	Main risk factors	Management options	Risk after mitigation
2558	Athills	Shallow buffer; moderate to steep slope; sandy/silty soils; subsoiling; highly significant deposits	Establish combinable crops by reduced-depth, non-inversion tillage with no subsoiling or mole-ploughing (HD3)	Moderate

			Establish combinable crops by direct drilling with no cultivation, subsoiling, deep ploughing or mole-ploughing (HD6)	Low
			Reversion of south-west part of field (*c* 3 hectares) to protect enclosure and associated deposits (HD2 or HD7)	No risk
3221	Elmont	Shallow to moderate buffer; moderate to steep slope; sandy/silty soils; subsoiling; highly significant deposits	Establish combinable crops by reduced-depth, non-inversion tillage with no subsoiling or mole-ploughing (HD3)	Moderate
			Establish combinable crops by direct drilling with no cultivation, subsoiling, deep ploughing or mole-ploughing (HD6)	Low
			Reversion of northern third of field (*c* 1.5 hectares) to protect buildings and associated deposits (HD2 or HD7)	No risk
3561	Wellgates	Shallow to moderate buffer; steep slope; sandy/silty soils; highly significant deposits	Establish combinable crops by reduced-depth, non-inversion tillage with no subsoiling or mole-ploughing (HD3)	Moderate
			Establish combinable crops by direct drilling with no cultivation, subsoiling, deep ploughing or mole-ploughing (HD6)	Low
			Reversion of northern part of field (*c* 3.6 hectares) to protect barrows and associated deposits (HD2 or HD7)	No risk
4075	Collins Piece	Highly significant deposits	Maintain current management: (inferred burials will be well below the depth of current cultivation and subsoiling)	n/a
7888	Paul's Bushes	Shallow to moderate buffer; moderate slope; sandy/silty soils; subsoiling	Maintain current management	n/a
5559	Cobbler's Quarry	Moderate slope; sandy/silty soils; subsoiling	Maintain current management	n/a
3221	Nettlebeds	Moderate slope; sandy/silty soils; subsoiling; highly significant deposits	Establish combinable crops by reduced-depth, non-inversion tillage with no subsoiling or mole-ploughing (HD3)	Low
			Establish combinable crops by direct drilling with no cultivation, subsoiling, deep ploughing or mole-ploughing (HD6)	Low

			Reversion of northern part of field (2.5 hectares) to protect main concentration of deposits (HD2 or HD7)	No risk
5579	Horse Close	Moderate slope; sandy/silty soils; subsoiling	Maintain current management	n/a
3273	Long Acre	Moderate slope; sandy/silty soils; highly significant deposits	Establish combinable crops by reduced-depth, non-inversion tillage with no subsoiling or mole-ploughing (HD3)	Low
			Establish combinable crops by direct drilling with no cultivation, subsoiling, deep ploughing or mole-ploughing (HD6)	Low
			Reversion of northern part of field (*c* 1 hectare) to protect enclosure and associated deposits (HD2 or HD7)	No risk
6991	Lord's Quarry South	Occasional ploughing; steep slope; sandy/silty soils	Maintain current management	n/a

Table 6: Management options for sites at high and moderate risk

4. Acknowledgements

Overbury Farms: The Overbury Estate commissioned the project with the support of Natural England. The Farm Manager, Jake Freestone, provided essential information and assistance. The Estate Office staff provided vehicle passes and information on access and shoots. Gordon Stanford excavated the sample trenches.

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English Heritage: the project was monitored by the West Midlands Regional Inspector, Tony Fleming.

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WHEAS: The project was managed by Robin Jackson and led by Darren Miller. Information on fields and current management was recorded digitally by Ruth Humphreys The fieldwork team comprised Darren Miller, Supervisor Adam Lee and Archaeologists Richard Bradley, Tegan Cole, Tim Cornah, Chris Gibbs, Christine Elgy and Mike Nicholson. Most of the post-fieldwork analysis was undertaken by Darren Miller, Adam Lee, and Richard Bradley. The illustrations were produced by Richard Bradley.

5. References

OAU 2006 Conservation of Scheduled Monuments in Cultivation (COSMIC) for English Heritage and Defra (Oxford Archaeological Unit, unpublished document dated June 2006)

WHEAS, 2009 Project Design. Erosion and Archaeology Risk Assessment for use in support of Higher Level Stewardship Applications (Cosmic+): Overbury Farms, Worcestershire (Worcestershire Historic Environment and Archaeology Service, unpublished document dated 11th November 2009)

WHEAS, 2007 Farm Environment Plan: report for features of Historic Environmental potential (Worcestershire Historic Environment and Archaeology Service unpublished document, dated 22nd November 2007)

6. Glossary and notes

Buffer: Soil or soils between *current cultivation* and known or inferred archaeological deposits. On Overbury Farms, all buffers are composed of *former cultivation*, but elsewhere, they might comprise alluvium, colluvium, or made ground. In the COSMIC+ model, buffers are defined as shallow (less than 10cm), moderate (10-15cm), deep (15-25cm) or very deep (more than 25cm). The field summary sheets identify the minimum buffer in each field but also indicate both the range of values and the average (i.e. mean) value. Naturally, the depth of a buffer will vary according to the depth of cultivation (e.g. a buffer may be 20cm after ploughing for cereals but only 10cm after deeper ploughing for salad onions or potatoes). Buffers can also decrease as a result of soil loss through wind erosion, water erosion, and harvesting.

Current cultivation: Soil inverted or reworked by the last cultivation. It can be identified in the field and distinguished from *former cultivation* on the basis of colour, texture, and compaction.

Former cultivation: Soil beneath *current cultivation*, evidently inverted or reworked, but not by the last cultivation.

Subsoil: Archaeological term for soil above natural, formed by a combination of weathering and leaching. A lack of subsoil between *former cultivation* and *natural* indicates deep ploughing at some time in the past and constitutes evidence of *erosion*.

Natural: Archaeological term for parent material. On Overbury Farms, the parent material is either sand and gravel or limestone brash.

Slope, soil groups, and water erosion: For each field, the model use slope categories and soil groups along with a figure for average annual rainfall to assess the risk of soil loss through water erosion. Slopes are categorised as steep (more than 7°), moderate (3-7°), or gentle (2-3°) and there is a separate category for level ground (less than 2°). In this connection, similar soils are classified as light (sand, loamy sand, sandy loam, sandy silt loam, silt loam); moderate (sandy clay loam, clay loam, silty clay loam, and silty clay); or heavy (silty clay and clay).

Soil types and wind erosion: In assessing the risk of soil loss through wind erosion, the model identifies five different soil groups, namely peats, silts/sands (sand, loamy sand, silty loam), loams (sandy loam, sandy silt loam, sand clay loam, clay loam, silty clay loam), sandy clay/silty clay and clay.

Archaeological deposits: material remains and traces of past human activity, often associated with artefacts and plant or animal remains. The term covers both positive features, such as walls and banks, and negative features, such as ditches and pits.

Erosion, loss of information and significance: When used of archaeological deposits, the term erosion signifies truncation or reworking as a result of cultivation (mainly ploughing and other kinds of tillage, but also subsoiling and drainage work). The erosion of deposits constitutes a loss of information. The extent of the loss is proportionate to the significance of the deposits. In the model, significance is assessed in terms of the survival and character of deposits and their relevance to current research agendas. However, this assessment does not negate the wider significance that some sites might have if they were known to exist (e.g. as personal or communal points of reference to a distant past).

Figure 1: Distribution of sites

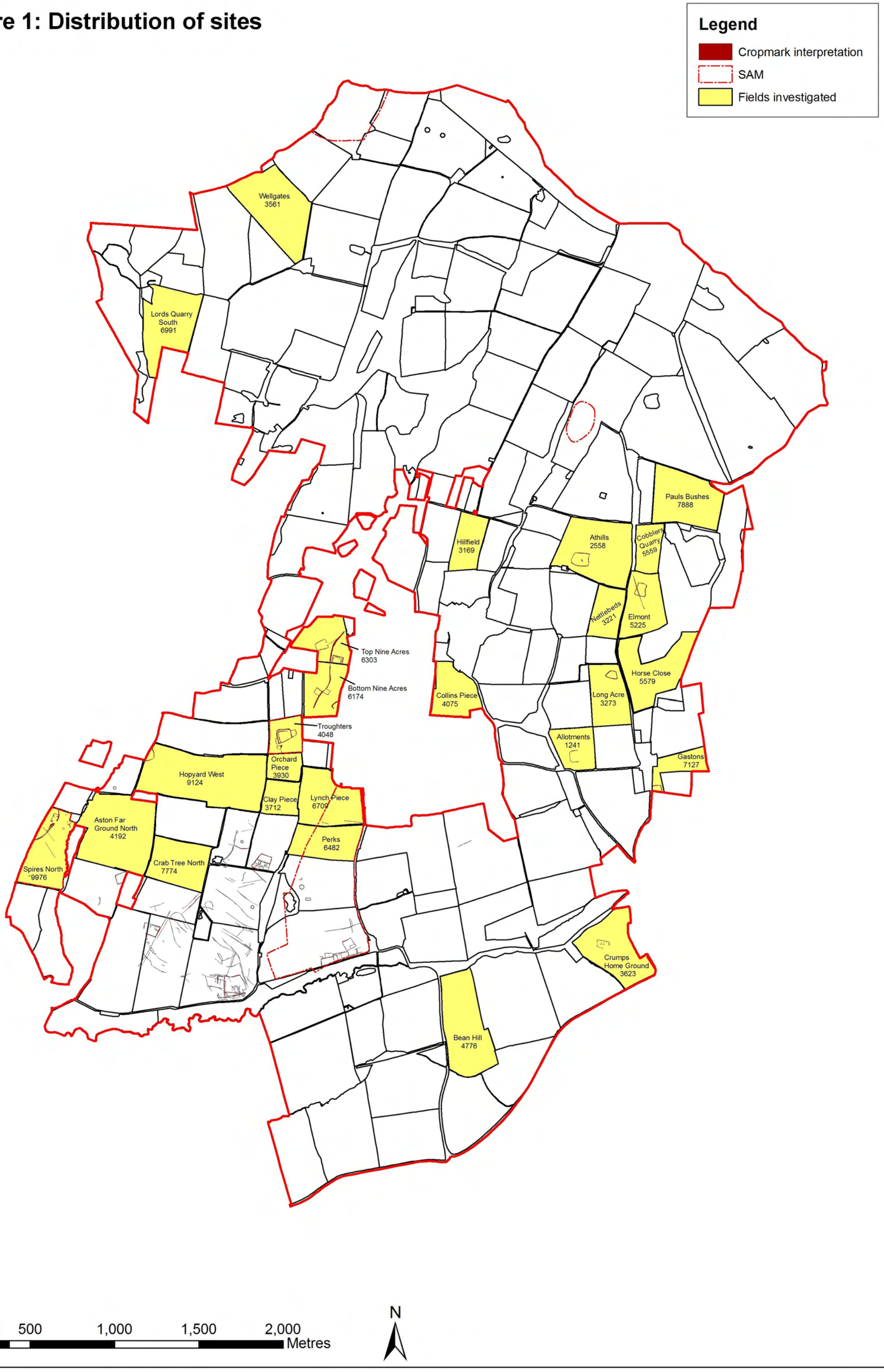
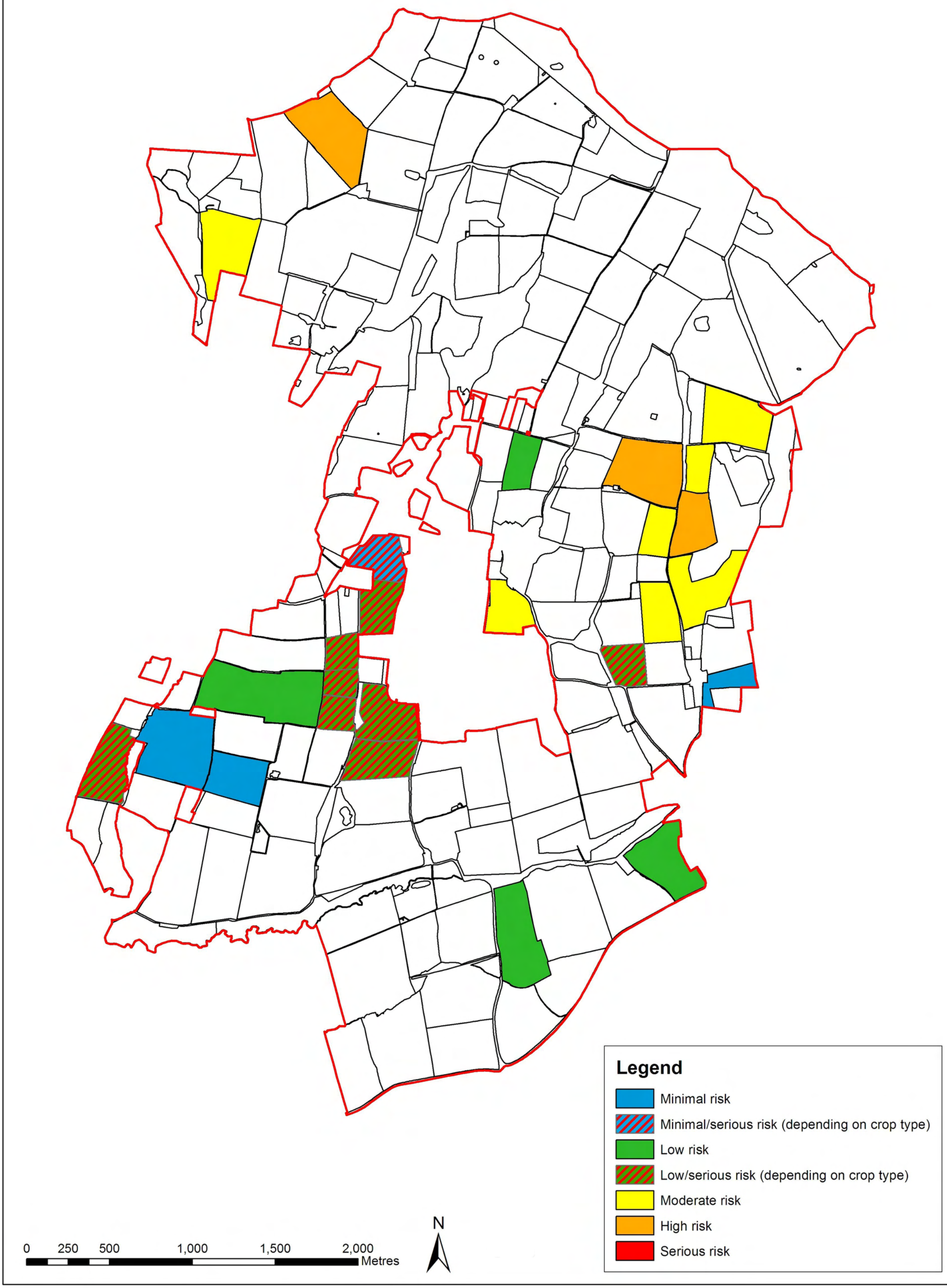


Figure 2: Risk levels



Appendix

Summary of archaeological sites 1-5
Data on individual sites and fields 6-197
1241 Allotments 6
2588 Athills 12
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3221 Nettlebeds 31
3273 Long Acre 39
3561 Wellgates 47
3623 Crumps Home Ground 53
3712 Clay Piece 59
3930 Orchard Piece 65
4048 Troughters 71
4075 Collins' Piece 81
4192 Aston Far Ground North 87
4776 Bean Hill 93
5225 Elmont 101
5559 Cobblers Quarry 111
5579 Horse Close 118
6174 Bottom Nine Acres 123
6303 Top Nine Acres 132
6482 Perks 143
6709 Lynch Piece 151
6991 Lord's Quarry South 159
7127 Gastons 165
7774 Crab Tree North 171
7888 Paul's Bushes 177
9124 Hopyard West 184
9976 Spires North 190

Overbury summary table

Field number	Field name	HER number	Grid reference (point)	Feature (area/ length/ no.)	Monument type	Description
1241	Allotments	WSM04136	SO97145 36352	1.96 ha	Enclosure	Enclosure or enclosures indicated by cropmarks. Possibly Iron Age.
2558	Athills	WSM06049	SO97172 37539	7.37 ha	Enclosure	Rectangular enclosure indicted by cropmarks. Possibly aligned on trackway crossing Cobblers Quarry and Pauls Bushes.
		WSM05449 (part - also in 3221)	SO97440 37235	19.2 ha	Roman settlement	Roman settlement identified from pottery on surface and partially excavated in 1924-5. Brief note in TBGAS Vol. 47 (1925), pp. 350-352. The note mentions stone foundations and 'numerous' finds of pottery, metalwork, and bone. It does not record the location of the site but it was probably the site indicated by a concentration of cropmarks in the south-east of the field, extending into Nettlebeds.
3169	Hill Field	WSM04666	SO96466 37454	1.80 ha	Enclosure	Triple-ditched sub-rectangular enclosure indicated by cropmarks. Probably Iron Age or Roman.
3221	Nettlebeds	WSM05449 (part - also in 2558)	SO97440 37235	19.2 ha	Roman settlement	Part of Roman settlement identified from pottery on surface and partially excavated in 1924-5. Brief note in TBGAS Vol. 47 (1925), pp. 350-352. The note mentions stone foundations and 'numerous' finds of pottery, metalwork, and bone. It does not record the location of the site but it was probably the site indicated by a concentration of cropmarks in the south-east of the field, extending into Athills.
3273	Long Acre	WSM04179	SO97337 36839	0.82 ha	Enclosure	Trapezoidal enclosure and other features indicated by cropmarks. Possibly Iron Age.
		WSM03624	SO97197 36801	21.73 ha	Ditch Pit	Pits and ditches possibly associated with enclosure WSM04179. Visible as cropmarks on aerial photographs. Possibly Bronze Age.
3561	Wellgates	WSM07325	SO95261 39779	0.001 ha	Round barrow	Bronze Age barrow adjacent to excavated beaker barrow WSM07324. Considered for scheduling by English Heritage.

Overbury summary table

Field number	Field name	HER number	Grid reference (point)	Feature (area/ length/ no.)	Monument type	Description
		WSM07324	SO95292 39745	0.001 ha	Round barrow	Bronze Age double beaker burial within barrow, partially excavated after plough disturbance in 1963. Report in TBAS Vol. 82 (1965), pp.58-76. Considered for scheduling by English Heritage.
3623	Crump's Home Ground	WSM03625	SO97285 35244	0.83 ha	Enclosure	Enclosure indicated by cropmarks. Possibly Bronze Age.
3712	Clay Piece	WSM22868	SO95378 36124	4.21 ha	Pit alignment	Pit alignment identified by cropmarks. Aligned roughly north-south. There may be another pit alignment to the west but the cropmarks are obscured by agricultural patterns. Possibly Iron Age.
3930	Orchard Piece	WSM09797	SO95387 36303	3.25 ha	Ditch	Amorphous ditches visible as cropmarks in the field south of WSM05138. Possibly Neolithic.
4048	Troughters	WSM05138	SO95397 36486	4.09 ha	Enclosure	Double ditched, four sided enclosure identified by cropmarks. A Scheduled Ancient Monument (SAM 220). Fieldwalked by SWAG in 1988. Finds included a large amount of abraded Severn Valley ware, three sherds of Iron Age pottery, and many flints.
4075	Collins' Piece	WSM40636	SO96402 36692	7.00 ha	Burial	Inhumation at the bottom of a pit lined with drystone walling, originally placed in a coffin. The corpse had been laid on its back and scattered around it were the remains of three pairs of shoes with iron hobnails. Beneath its shoulder was a piece of leather decorated with nails. In the left hand of the skeleton was a much corroded bronze coin probably of the Empress Faustina II or Lucilla. Excavated in 1963 (WSM04823). Note in West Midlands Archaeological News Sheet, No.6 (1963), p. 4. Considered for scheduling by English Heritage. Roman burials are rarely found in isolation and the burial probably represents a cemetery.
4192	Aston Far Ground North	WSM05142	SO94481 35686	N/A	Enclosure	Part of a sub-rectangular enclosure identified by cropmarks. Since the photograph was taken, the rest of the enclosure in field 3061 has been removed by quarrying.
4776	Bean Hill		SO96420 34927		Enclosure	Newly identified rectilinear enclosure.

Overbury summary table

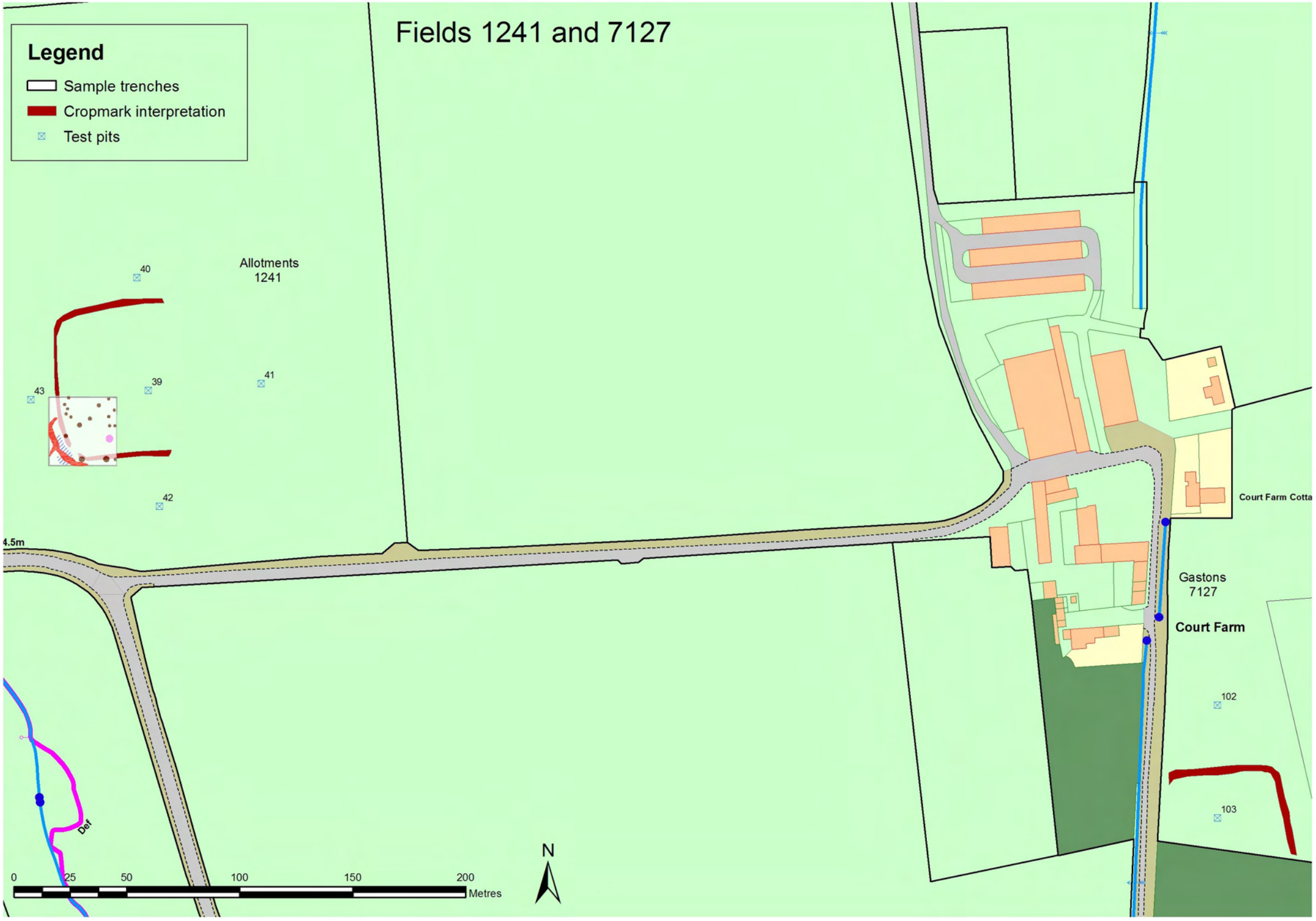
Field number	Field name	HER number	Grid reference (point)	Feature (area/ length/ no.)	Monument type	Description
5225	Elmont	WSM05449	SO97440 37235	19.2 ha	Roman settlement Medieval settlement	Excavations in 1924-5 found the remains of stone buildings arranged around a wedge-shaped courtyard. According to the report, the remains were associated with Roman pottery, coins, tiles, and metalwork. Excavations in 1938 explored one of the buildings and found sherds of 15th century pottery. On this basis, the site was re-interpreted as a medieval farmstead, although the excavator noted Roman pottery beneath buildings and a nearby bank. The Roman element of the site extends westwards into Elmont Coppice, where excavations in the late 40s/early 50s exposed stone foundations, a pottery kiln, and a corn drier, apparenly of 2nd or 3rd century date. For further details, see brief notes in in TBAS Vol. 47 (1925), pp. 350-352; Vol. 67 (1946-7-8), pp. 415-418; and Vol. 69 (1950), pp. 199-200.
5559	Cobblers Quarry	WSM06049 (part - track extends into 7888)			Trackway	Trackway indicated by cropmark. Extends north-east into Pauls Bushes.
5579	Horse Close	WSM05449	SO97440 37235	19.2 ha	Enclosure	Enclosure identified on aerial photographs but not transcribed on SMR overlay or NMR digital overlay.
6174	Bottom 9 Acres	WSM29233	SO95619 36740	Enclosures - 0.63 ha Enclosure - 0.577 ha Trackway - 508 m	Trackway Pit alignment Enclosures	Two single ditched rectilinear enclosures along a trackway. Possibly Iron Age. A third enclosure, also possibly dating to the Iron Age, lies just to the south of the trackway. The pit alignment follows the track for part of its length and is possibly Neolithic.
		WSM29230 (part - also in 6303)	SO95714 36917	0.56 ha	Enclosure	Triple ditched square enclosure indicated by cropmarks. Possibly Bronze Age. Extends into Top Nine Acres.
6303	Top 9 Acres	WSM29229	SO95613 37020	0.60 ha	Enclosure	Single ditched rectilinear enclosure indicated by cropmarks. Possibly Bronze Age.
		WSM29230 (part - also in 6174)	SO95714 36917	0.56 ha	Enclosure	Triple ditched square enclosure indicated by cropmarks. Extends into Bottom Nine Acres.
6482	Perks	WSM05148 (part - also in 6709)	SO95810 35994	N/A	Enclosure	Irregular enclosure and fragments linear features indicated by cropmarks. Part of a Scheduled Ancient Monument (SAM 215). The area has not been quarried, as had been assumed in the FEP.

Overbury summary table

Field number	Field name	HER number	Grid reference (point)	Feature (area/ length/ no.)	Monument type	Description
6709	Lynch Piece	WSM05148 (part - also in 6482)	SO95810 35994	N/A	Enclosure	Irregular enclosure and fragments of possible linear features. Visible as a cropmark on the NMR digital layer and aerial photographs. Part of a Scheduled Ancient Monument (SAM 215).
		WSM05149	SO95635 35968	N/A	Pit alignment	Pit alignment visible on cropmarks on the NMR digital layer and aerial photographs. Possibly Iron Age.
6991	Lords Quarry South	WSM04877	SO94745 38949	5.46 ha	Enclosure	Possible Neolithic enclosure. Visible as a soil mark on aerial photographs taken by the RAF in 1976, and as a faint soil mark on 2005 aerial coverage.
7127	Gastons		SO97607 63173		Enclosure	Newly-identified rectilinear enclosure.
7774	Crab Tree North	WSM02354	SO94738 35762	2.82 ha	Enclosure	Rectangular enclosure and linear features idicated by cropmarks. Possibly Bronze Age or Middle Iron Age. A former Scheduled Ancient Monument, descheduled in 1989.
7888	Paul's Bushes	WSM06049 (part - track extends across 5559)			Trackway	Trackway indicated by cropmark extending south-west into Cobblers Quarry.
9124	Hopyard West (west end)	WSM01738	SO94570 36380 SO94913 36235	1.64 ha 1.48 ha	Enclosures	The HER overlay to the 6-inch map shows enclosures near the west and south-east boundaries of the field. The NMR digital overlay showns only a partial enclosure, with internal features, in the west of the field. Possibly Bronze Age.
	Hopyard West (east end)	WSM02353	SO94749 36274	N/A	Ridge and furrow	The HER overlay to the 6-inch map shows cropmakrs of medieval or later ridge and furrow earthworks running acrosss the field on a north-south alignment.
9976	Spires North	WSM05137	SO93976 35904	262 m	Trackway and pit alignment	Trackway defined by holloway and flanking ditches shown on cropmarks. Aligned north-east to south west. Appears to cut a pit alignment on a slightly different, more northerly alignment. Part of a Scheduled Ancient Monument (SAM 212)

Overbury summary table

Field number	Field name	HER number	Grid reference (point)	Feature (area/ length/ no.)	Monument type	Description
		WSM05098	SO93886 35815	0.07 ha	Enclosures	Enclosures laid out along trackway 05137. Part of a Scheduled Ancient Monument (SAM 212).
		WSM20019 (part - also in 1311)	SO94113 36062	5.04 ha	Anglo-Saxon settlement	Site first identified as cropmarks on aerial photographs. An evaluation carried out in 1994 (WR 4791) recorded features dating from the 5th to 8th century, including postholes, stakeholes, construction slots, a sunken-featured building and several pits. Truncated medieval ridge and furrow was also recorded. Fieldwork undertaken in 1998 recorded a possible late Bronze Age holloway and a possible sunken-featured building (Terrain Archaeology, report no. 5032.1). Part of a Scheduled Ancient Monument (SAM 212).


Fields 1241 and 7127
Legend
Sample trenches
Cropmark interpretation
Test pits
Allotments
1241
40
41
39
43
42
4.5m
Gastons
7127
Court Farm
Court Farm Cotta
102
103
Def
0
25
50
100
150
200
Metres
N

Field 1241: Allotments								
Test pits	**39**	**40**	**41**	**42**	**43**	**Range**		**Average**
						min	**max**	
Current cultivation	0.13	0.17	0.12	0.12	0.15	0.12	0.17	0.14
Former cultivation	0.14	0.14	0.16	>0.13	0.13	0.13	0.16	0.14
Subsoil 1	None	0.13	None	n/a	None			
Subsoil 2	n/a	0.10	n/a	n/a	n/a			
Natural	Unex	Unex	Unex	Unex	Unex			
Minimum buffer: 0.13								
Notes								
1) Low density scatter of Roman pottery and building materials								
2) Test pit 40 is anomalous. It may indicate a natural hollow.								
3) Test 42 not fully excavated due to high groundwater level								
Slope: Gentle								
Soil group in relation to water erosion: Light								
Soil group in relation to wind erosion: Silts/sands								

Test-pit 39 facing north (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 1241 Field Name Allotments

Management factors	Serious risk Score 5	High risk Score 4	Medium risk Score 3	Low risk Score 2	Minimum risk Score 1	Score* Ploughing	Score* Miniumum tillage
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**.....4 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**.....3 **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**.....5 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....4 **B**..... **C**.....	
Initial score						16	12
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5					2.5	1.5
Initial score multiplied by weighting						A …40 B …. C ….	A ….18 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……2 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**.....4 **B**..... **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**.....5 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score				11	9
Weighting	Any of above in grey shaded box = 2			2	1
Initial score multiplied by weighting				A …….22 B..... C.....	A …..9 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....2 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....2 **C**.....
Initial score						4
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1
Initial score multiplied by weighting						**A** … **B** …4 **C** …

***Graded A-C according to quality of evidence**

Final risk score

	Ploughing:potatoes	Minimum tillage:combinable crops
Management factors (out of 50)	40	18
Site intrinsic factors (out of 30)	22	9
Archaeological factors (out of 20)	4	4
Final risk score (out of 100)	**66**	**31**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**

Fields 2558, 3221 and 5225

Athills
2558

Cobblers Quarry
5559

Nettlebeds
3221

Elmont
5225

Hill Barn

Track

Track

Track

Track

Def

Cattle Grid

Remains of house and garden

Issues

Bank

Roman wall and earthworks

Path (um)

Issues

Collects

17

18

19

20

21

23

72

73

74

75

65

66

67

68

69

70

76

77

78

79

80

81

82

83

84

85

N

0 25 50 100 150 200 Metres

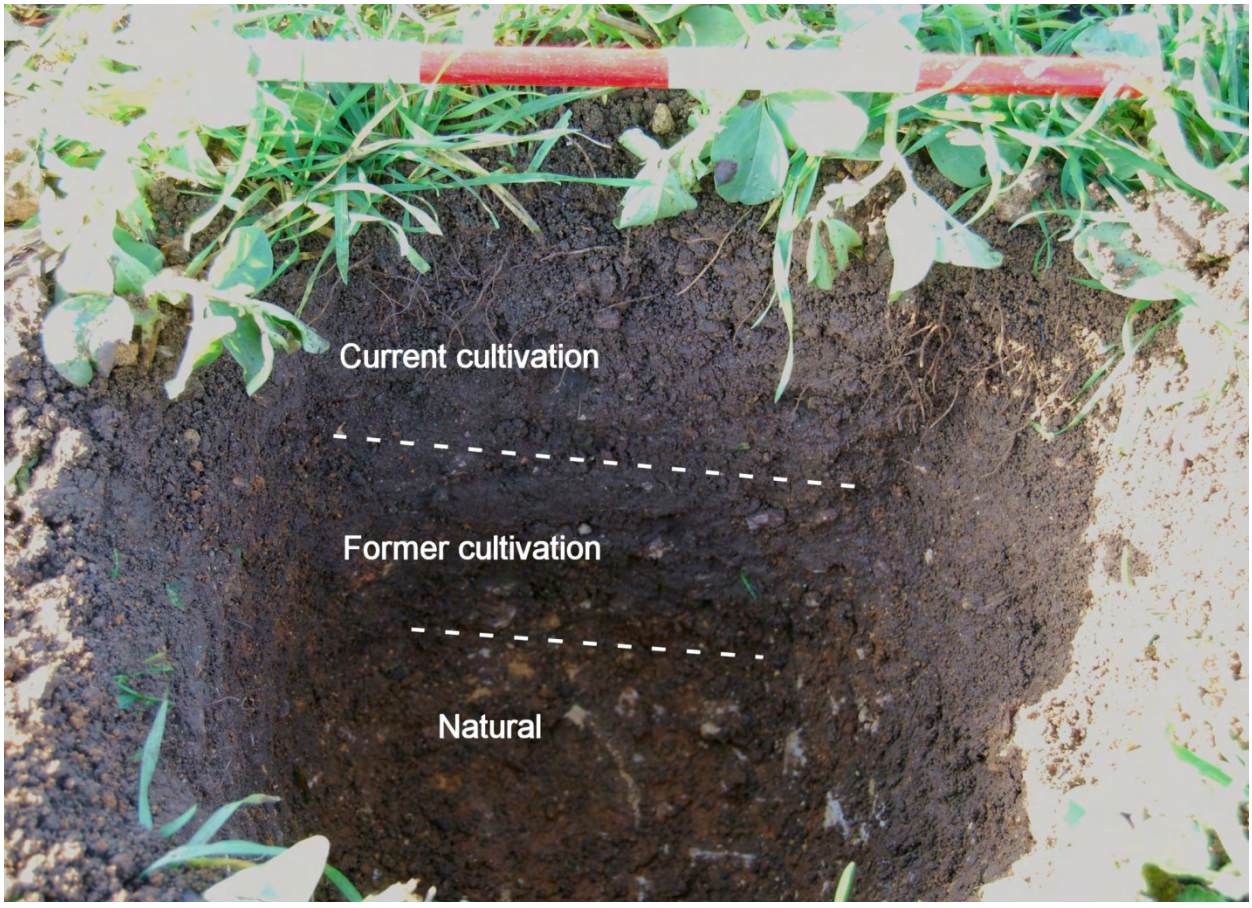
Legend

Sample trenches

Cropmark interpretation

Test pits

Field 2558: Athills											
Test pits	**65**	**66**	**67**	**68**	**72**	**73**	**74**	**75**	**Range**		**Average**
									min	**max**	
Current cultivation	0.15	0.20	0.20	0.14	0.26	0.16	0.16	0.16	0.14	0.26	0.18
Former cultivation	0.25	0.40	0.26	0.42	0.20	0.06	0.41	0.14	0.06	0.42	0.27
Subsoil	0.17	Unex	None	None	0.13	None	None	None	0.14	0.17	0.15
Natural	Unex	n/a	Unex	Unex	Unex	Unex	Unex	Unex			
Minimum buffer: 0.06											
Notes											
1) Dense scatter of Roman pottery across south of field											
2) Wide variations in depth of former cultivation											
3) Lack of subsoil in test pits 73-75 due to deeper ploughing over terrace											
Slope: Gentle											
Soil group in relation to water erosion: Light soils											
Soil group in relation to wind erosion: Silts/sands											



Test pit 75 facing west (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 2558 Field Name Athills

Management factors	Serious risk Score 5	High risk Score 4	Medium risk Score 3	Low risk Score 2	Minimum risk Score 1	Score* Ploughing	Score* Miniumum tillage
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**..... **B**..... **C**.....	**A**.....4 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**..... **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....4 **B**..... **C**.....	
Initial score							13
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5						1.5
Initial score multiplied by weighting						A … B …. C ….	A ….19.5 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……4 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**.....4 **B**..... **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score					11
Weighting	Any of above in grey shaded box = 2				2
Initial score multiplied by weighting				A ……. B..... C.....	A …..22 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....5 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....4 **C**.....
Initial score						9
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					2
Initial score multiplied by weighting						**A** … **B** …18 **C** …

***Graded A-C according to quality of evidence**

Final risk score

	Minimum tillage:combinable crops
Management factors (out of 50)	19.5
Site intrinsic factors (out of 30)	22
Archaeological factors (out of 20)	18
Final risk score (out of 100)	**59.5**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**

Athills (2558)

Trench 17

Maximum dimensions: Length: 10m Width: 1.85m Depth: 0.46m

Orientation: E – W

Context	Classification	Description	Depth below ground surface	Artefacts
1700	Topsoil	Moderately compact medium greyish brown sandy silt loam with frequent medium to large limestone fragments. Clear lower boundary.	0-0.30m	
1701	Cut	Pit.	0.30m	
1702	Fill	Moderately compact medium-dark brown sandy silt with occasional small limestone fragments and frequent large fragments of limestone. Occasional charcoal flecks. Fill of pit [1701].	0.30m	
1703	Cut	Cut of pit. Slightly truncated by pit [1701].	0.30m	
1704	Fill	Moderately compact medium brown sandy silt with frequent small limestone fragments. Fill of pit [1703].	0.30m	Four sherds of Severn Valley Ware and Black Burnished Ware Roman pottery (134g), one piece of animal bone (69g) and one piece of possible flint debitage (1g).
1705	Fill	Moderately compact dark brownish black silt with high percentage of charcoal. Possible spread of burnt material in top of pit [1703].	0.30m	
1706	Cut	Ditch.	0.30m	
1707	Fill	Moderately compact medium brown sandy silt with frequent small limestone fragments. Fill of ditch [1706].	0.30m	
1708	Natural	Moderately compact medium yellow limestone brash.	0.30m	

Trench 18

Maximum dimensions: Length: 5.5m Width: 1.85m Depth: 0.28m

Orientation: E – W

Context	Classification	Description	Depth below ground surface	Artefacts
1800	Upper topsoil	Moderately compact medium greyish brown sandy silt loam with frequent medium to large limestone fragments. Clear lower boundary.	0-0.10m	
1801	Natural	Yellow limestone brash.	0.25m	
1802	Cut	Cut of circular pit. Appears to truncate [1804].	0.24m	
1803	Fill	Moderately compact medium grey brown sandy silt with occasional small to large limestone fragments. Fill of pit [1802].	0.24m	
1804	Cut	Cut of pit, partially visible. May be cut by pit [1802].	0.25m	
1805	Fill	Moderately compact medium brown sandy silt with occasional small to medium limestone fragments. Fill of pit [1804].	0.25m	
1806	Cut	Pit (partially exposed)		
1807	Fill	Same as (1803). Upper fill of pit [1806].		Four sherds of Iron Age pottery (17g), one sherd of Severn Valley Ware Roman pottery (2g), one piece of animal bone (6g).
1808	Cut	Pit (partially exposed)	0.24m	
1809	Fill	Same as (1805). Fill of pit [1808].	0.24m	
1810	Lower topsoil	Same as (1800). Clear lower boundary.	0.10-0.25m	
1811	Fill	Loose, light yellowish brown sand and light reddish brown silt with abundant small to medium limestone fragments and occasional aggregates of medium greyish brown silt loam. Lower fill of pit [1806].	0.28-0.66m	

Trench 19

Maximum dimensions: Length: 8.5m Width: 3.50m Depth: 0.46m

Orientation: NE – SW

Context	Classification	Description	Depth below ground surface	Artefacts
1900	Upper topsoil	Moderately compact medium-dark brown silt loam with 5-10% sand/limestone granules. Contains small to large limestone fragments. Clear lower boundary.	0-0.12m	Thirteen sherds of various types of 3-4th century Roman pottery (150g).
1901	Layer	Cleaning layer above and around walls and rubble (1906), (1907) and (1908).		137 sherds of 2-4th century Roman pottery in various forms (1532g), three hand forged nails (40g), one piece of Roman glass (1g) and 74 pieces of various animal bone (750g).
1902	Fill	Moderately compact medium-dark silt with large limestone fragments and sand/limestone granules. No inclusions. Fill of pit [1903].	0.42m	Three sherds of late 3-4th century Roman pottery (61g).
1903	Cut	Oval pit (partially exposed).	0.42m	
1904	Fill	Moderately compact medium brown silt with large limestone fragments and sand/limestone granules. No inclusions. Very similar to fill (1902). Fill of pit [1905].	0.32m	
1905	Cut	Oval pit (partially exposed).	0.32m	
1906	Structure	Limestone wall aligned approximately N – S and parallel to wall 1907, no bonding material.	0.32m	
1907	Structure	Limestone wall aligned approximately N – S and parallel to wall 1906, no bonding material. Abutted by rubble 1908.	0.34m	
1908	Deposit	Limestone rubble material, possibly building rubble. Abuts wall 1907.	0.34m	
1909	Natural	Yellow limestone brash in a brown silt matrix.	0.31m	

Context	Classification	Description	Depth below ground surface	Artefacts
1910	Structure	Limestone masonry, possible return of wall 1907. Not bonded.	0.34m	
1911	Lower topsoil	Moderately compact medium brown silt with 5% yellowish sand and limestone granules.	0.12-0.37m	One Roman coin; late third century radiate.
1912	Layer	Moderately compact medium brown silty loam found within rubble 1908 and walls 1906 and 1907.	0.25-0.46m	

Trench 17 facing east across pits 1701 and 1703

Trench 18 facing west across pits 1802, 1806, and 1809

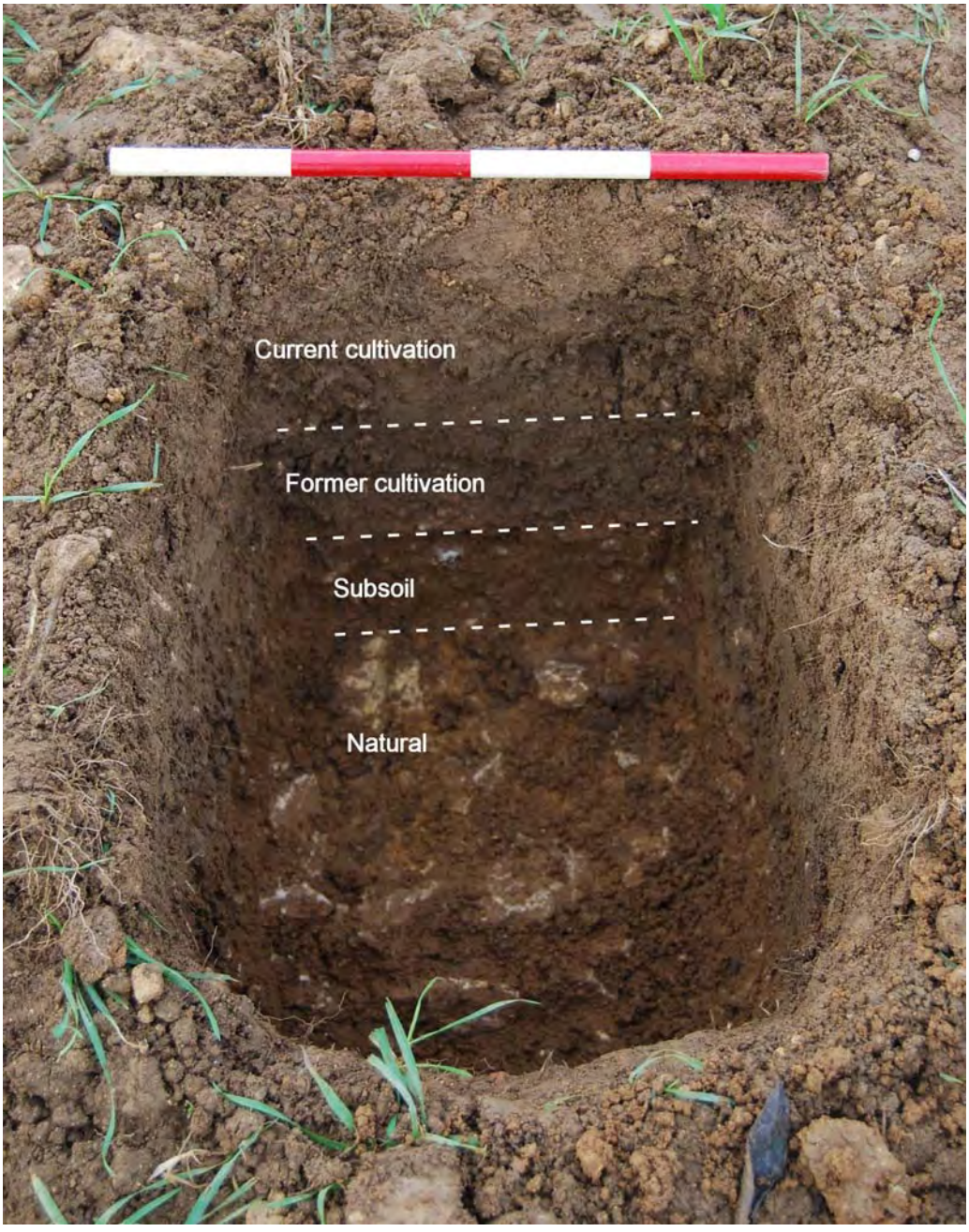
Trench 19: general shot facing north-west

Detail of wall and surface in Trench 19

Trench 19: west facing section of pit 1903


Field 3169
Legend
Cropmark interpretation
Test pits
Track
Scarborough Cottages
40
42
PIGEON LANE
FW
FW
0.91m RH
Hillfield 3169
Path (um)
49
48
51
50
52
FW
Issues
N
0
25
50
100
150
200
Metres

Field 3169: Hill Field								
Test pits	**48**	**49**	**50**	**51**	**52**	**Range**		**Average**
						min	**max**	
Current cultivation	0.17	0.16	0.23	0.17	0.15	0.15	0.23	0.18
Former cultivation	0.12	0.14	0.11	0.13	0.18	0.11	0.18	0.14
Subsoil	0.14	0.21	0.39	0.10	Unex	0.10	0.39	0.21
Natural	Unex	Unex	Unex	Unex				
Minimum buffer: 0.14								
Notes								
1) Moderate scatter of Roman pottery across south of field								
Slope: Gentle								
Soil group in relation to water erosion: Moderate								
Soil group in relation to wind erosion: Loams								



Test pit 51 facing west (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 3169 **Field Name** Hill Field

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**.....3 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**.....2 **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**.....3 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....2 **B**..... **C**.....	
Initial score						10	10
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5					1	1
Initial score multiplied by weighting						A …10 B …. C ….	A ….10 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……3 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**.....4 **B**..... **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score					10
Weighting	Any of above in grey shaded box = 2				2
Initial score multiplied by weighting				A ……. B..... C.....	A …..20 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....3 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....3 **C**.....
Initial score						6
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1.3
Initial score multiplied by weighting						**A** … **B** …7.8 **C** …

***Graded A-C according to quality of evidence**

Final risk score

	Ploughing:combinable crops	Minimum tillage:combinable crops
Management factors (out of 50)	10	10
Site intrinsic factors (out of 30)	20	20
Archaeological factors (out of 20)	8	8
Final risk score (out of 100)	**38**	**38**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**

Fields 2558, 3221 and 5225

Athills
2558

Cobblers Quarry
5559

Nettlebeds
3221

Elmont
5225

Hill Barn

Track

Track

Track

Track

Def

Cattle Grid

Remains of house and garden

Issues

Bank

Roman wall and earthworks

Path (um)

Issues

Collects

17

18

19

20

21

23

72

73

74

75

65

66

67

68

69

70

76

77

78

79

80

81

82

83

84

85

N

0 25 50 100 150 200 Metres

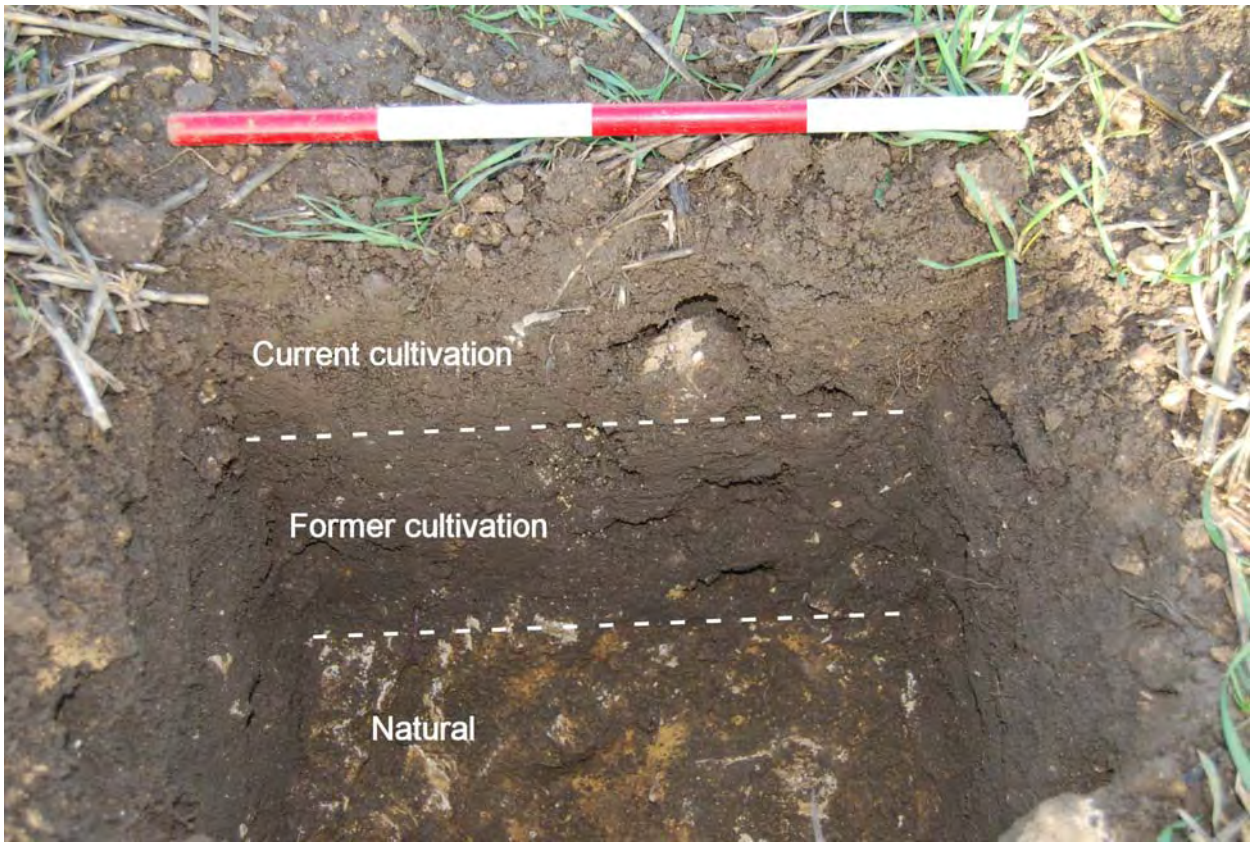
Legend

Sample trenches

Cropmark interpretation

Test pits

Field 3221: Nettlebeds								
Test pits	**69**	**70**	**71**	**76**	**77**	**Range**		**Average**
						min	**max**	
Current cultivation	0.14	0.15	0.15	0.15	0.15	0.14	0.15	0.15
Former cultivation	0.18	0.18	0.18	0.16	0.16	0.16	0.18	0.17
Subsoil	None	None	None	None	None			
Natural	Unex	Unex	Unex	Unex	Unex			
Minimum buffer: 0.16								
Notes								
1) No subsoil noted in any test pits; depth of cultivation very consistent								
2) Dense scatter of Roman pottery in northern part of field; also discrete scatters of limestone								
Slope type: Moderate								
Soil type in relation to water erosion: Light								
Soil type in relation to wind erosion: Silts/sands								



Test pit 69 facing north (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 3221 **Field Name** Nettlebeds

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**..... **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**..... **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....4 **B**..... **C**.....	
Initial score							11
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5						1.5
Initial score multiplied by weighting						A … B …. C ….	A ….16.5 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……3 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**.....4 **B**..... **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score					10
Weighting	Any of above in grey shaded box = 2				2
Initial score multiplied by weighting				A ……. B..... C.....	A …..20 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....3 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....4 **C**.....
Initial score						7
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1.5
Initial score multiplied by weighting						**A** … **B** …10.5 **C** …

***Graded A-C according to quality of evidence**

Final risk score

	Minimum tillage:combinable crops
Management factors (out of 50)	16.5
Site intrinsic factors (out of 30)	20
Archaeological factors (out of 20)	10.5
Final risk score (out of 100)	**47**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**

Nettlebeds (3221)

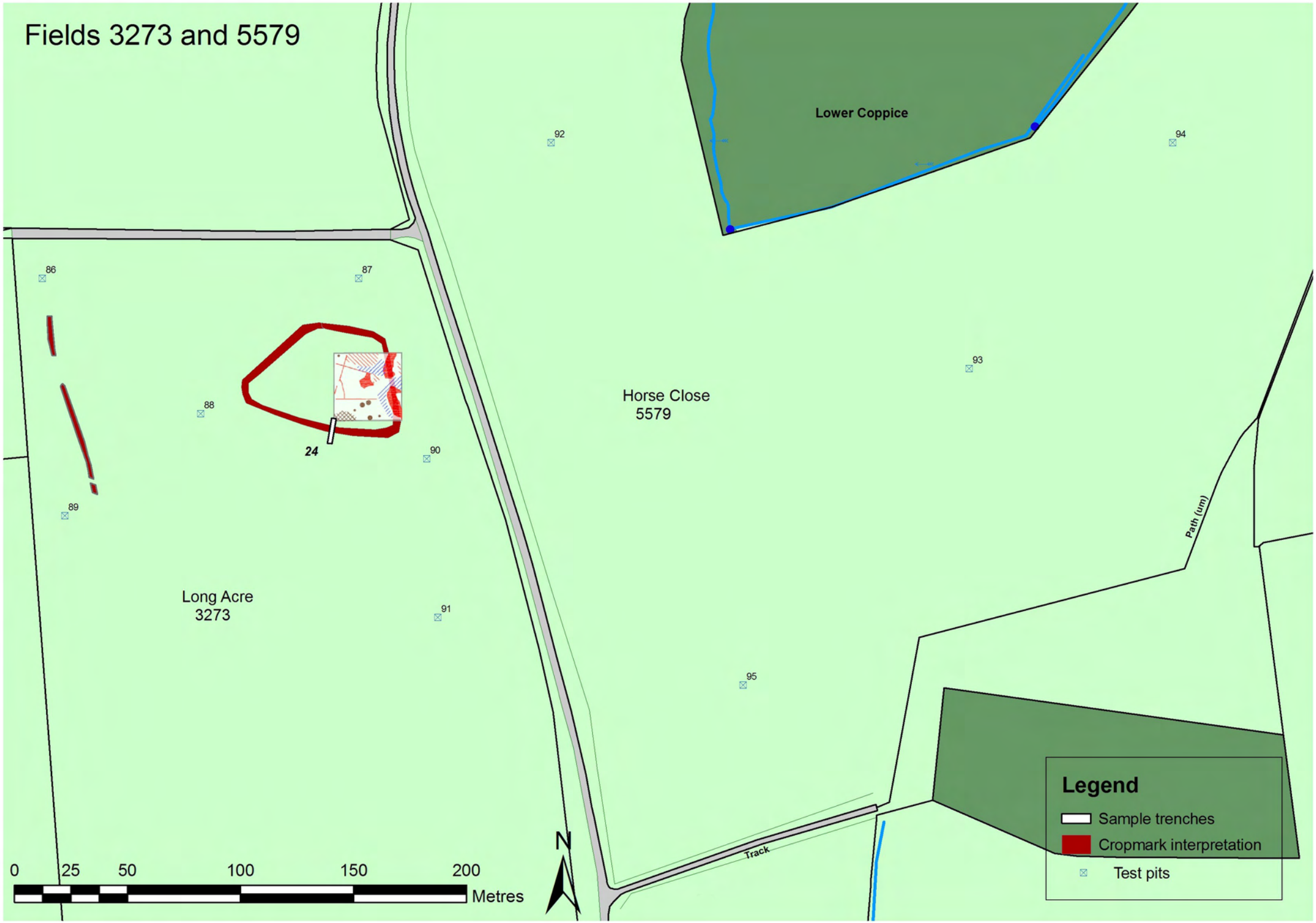
Trench 20

Maximum dimensions: Length: 4.75m Width: 4.50m Depth: 0.40m

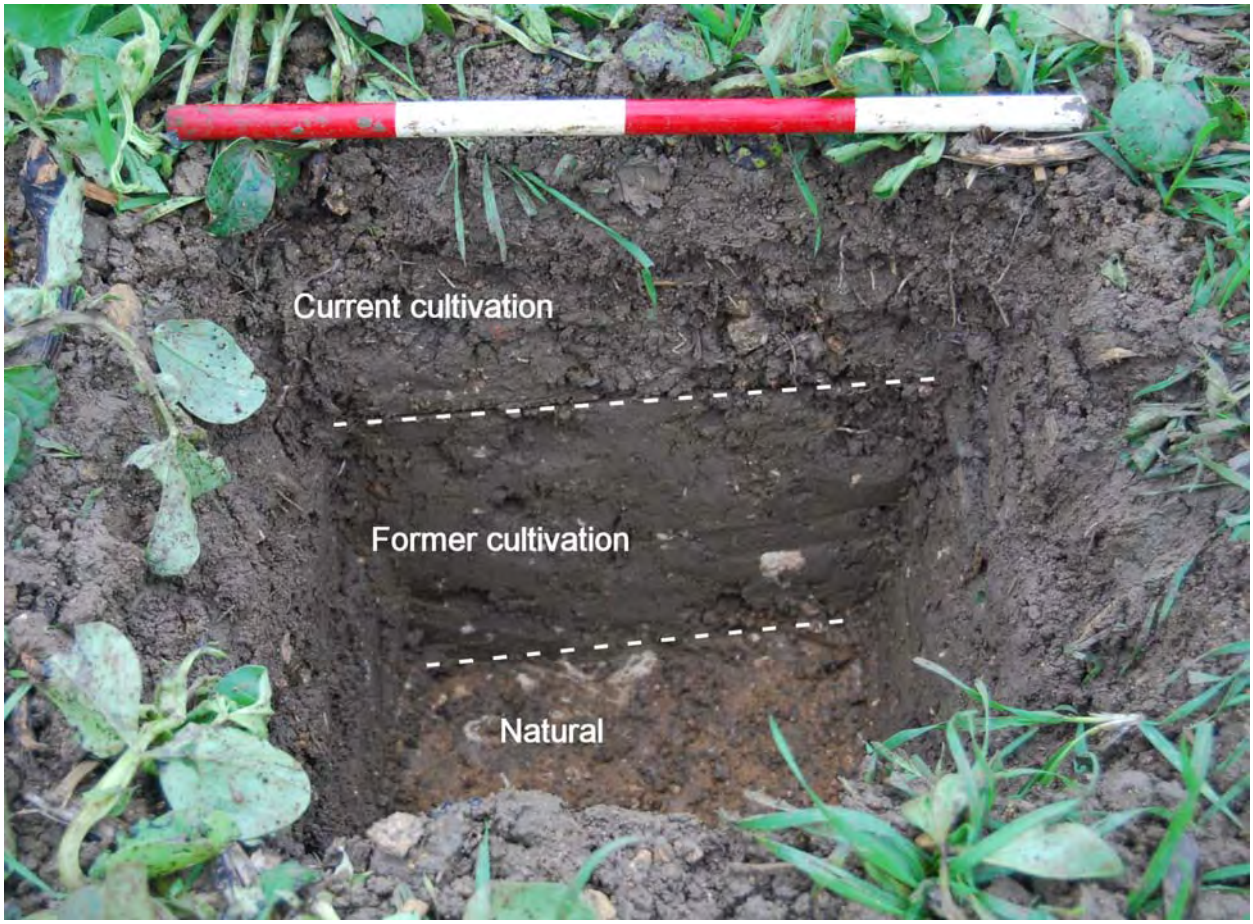
Orientation: NW – SE

Context	Classification	Description	Depth below ground surface	Artefacts
2000	Upper topsoil	Moderately compact medium greyish brown sandy silt loam with a few small gravels and frequent small limestone fragments. Clear lower boundary.	0-0.12m	
2001	Lower topsoil	Same as (2000) but slightly more compact and with more frequent limestone fragments.	0.12-0.26m	
2002	Natural	Light yellowish brown fine-medium sand with abundant small limestone fragments.	0.26m	
2003	Fill	Moderately compact medium-dark greyish brown silt with 5% light yellowish brown sand. Contains frequent small to medium sub-angular limestone fragments and a few charcoal flecks. Fill of pit [2004].	0.26m	27 sherds of Roman pottery of various types (525g), one piece of animal bone (13g).
2004	Cut	Large square pit with rounded corners.	0.26m	
2005	Fill	Moderately compact medium brown silt mixed with re-deposited (2002). Fill of [2006].	0.26-0.47m	
2006	Cut	Irregular, but broadly sub-circular feature, probably natural.	0.26m	
2007	Fill	Same as (2005). Fill of [2008].	0.26m	
2008	Cut	Small linear feature, probably natural.	0.26m	

Trench 20 facing south-west, showing pit 2004


Fields 3273 and 5579
Lower Coppice
92
94
86
87
88
24
90
93
Horse Close
5579
89
Long Acre
3273
91
95
Path (um)
Track
Legend
Sample trenches
Cropmark interpretation
Test pits
N
0
25
50
100
150
200
Metres

Field 3273: Long Acre									
Test pits	**86**	**87**	**88**	**89**	**90**	**91**	**Range**		**Average**
							min	**max**	
Current cultivation	0.15	0.14	0.16	0.21	0.10	0.14	0.10	0.21	0.15
Former cultivation	0.18	0.15	0.16	0.17	0.18	0.22	0.15	0.22	0.18
Subsoil	None	0.09	None	None	None	None			
Natural	Unex	Unex	Unex	Unex	Unex	Unex			
Minimum buffer: 0.15									
Notes									
1) Feature identified below subsoil in test pit 87									
2) Subsoil only present in test pit 87									
3) Low density scatter of Roman pottery across northern part of field									
Slope: Moderate									
Soil group in relation to water erosion: Light									
Soil group in relation to wind erosion: Silts/sands									



Test pit 86 facing north (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 3273 **Field Name** Long Acre

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**..... **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....2 **B**..... **C**.....	
Initial score							10
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5						1
Initial score multiplied by weighting						A … B …. C ….	A ….10 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……3 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**.....4 **B**..... **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score					10
Weighting	Any of above in grey shaded box = 2				2
Initial score multiplied by weighting				A ……. B..... C.....	A …..20 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....3 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....4 **C**.....
Initial score						7
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1.5
Initial score multiplied by weighting						**A** … **B** …10.5 **C** …

***Graded A-C according to quality of evidence**

Final risk score

	Minimum tillage:combinable crops
Management factors (out of 50)	10
Site intrinsic factors (out of 30)	20
Archaeological factors (out of 20)	10.5
Final risk score (out of 100)	**40.5**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**

Long Acre (3273)

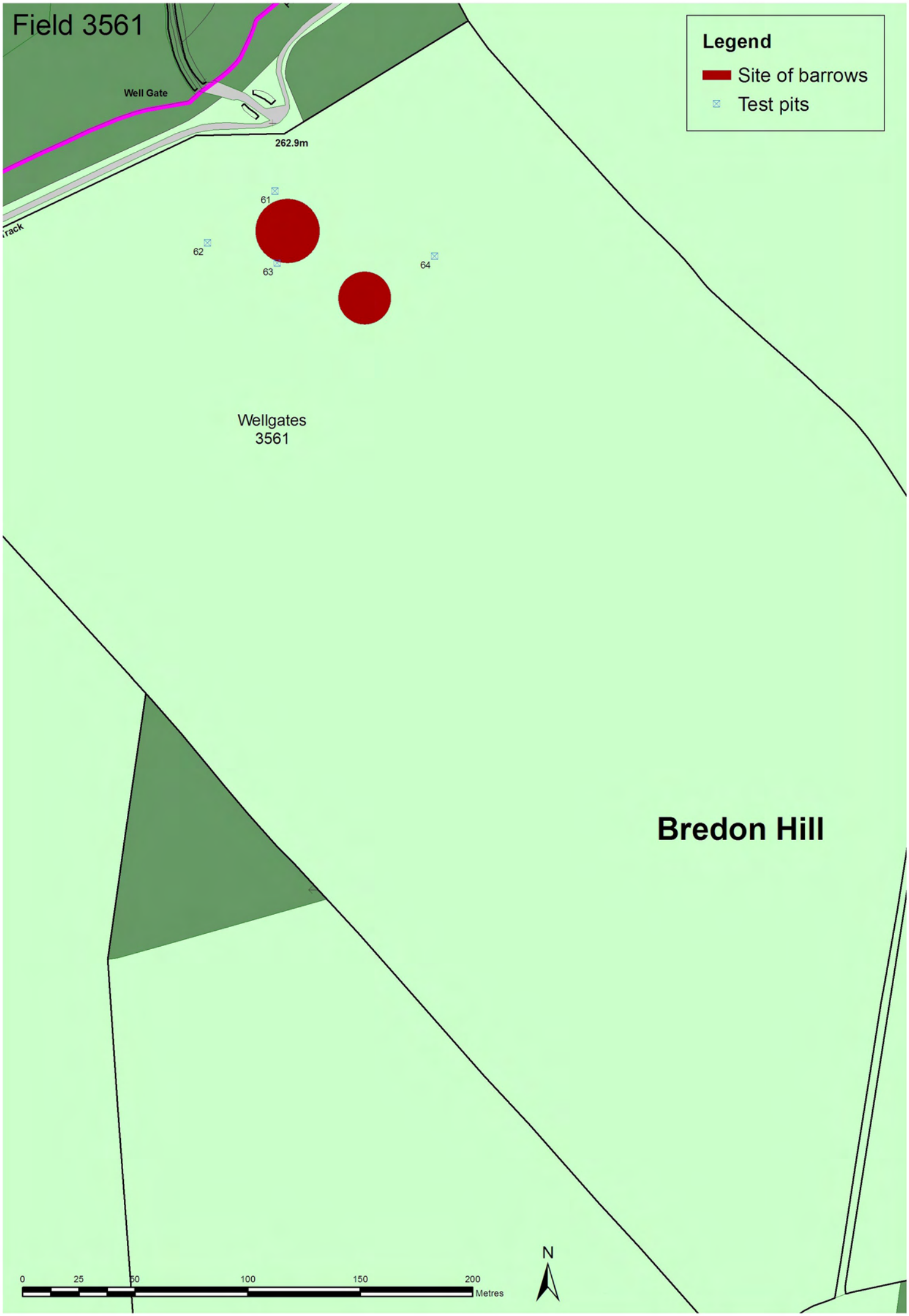
Trench 24

Maximum dimensions: Length: 10.5m Width: 1.85m Depth: 0.50m

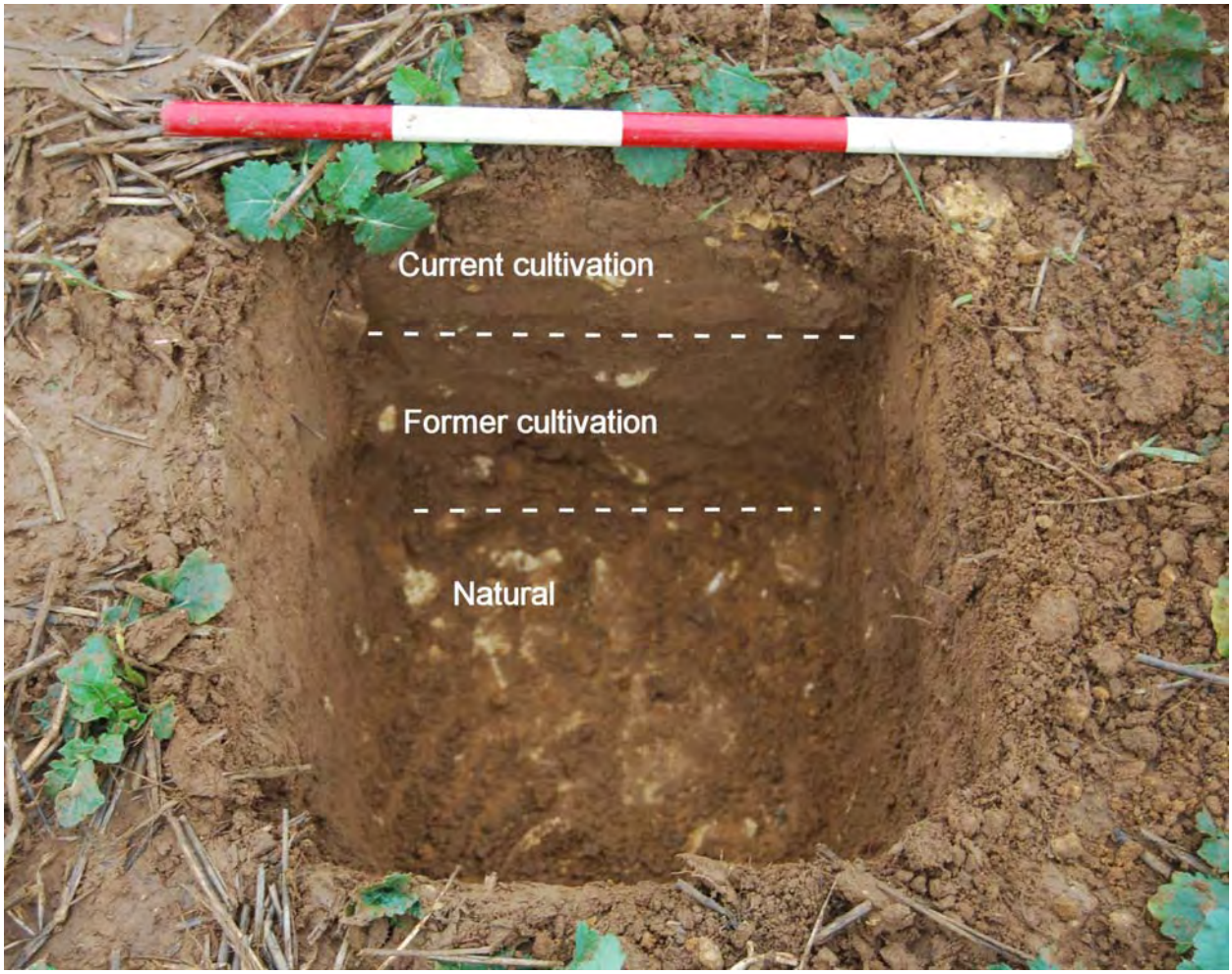
Orientation: NNE – SSW

Context	Classification	Description	Depth below ground surface	Artefacts
2400	Topsoil	Compact medium brown gritty silt with moderate amounts of small to large angular and sub-angular limestone fragments.	0-0.30m	
2401	Natural	Moderately compact limestone brash.	0.30m	
2402	Fill	Compact medium yellow brown gritty silt with moderate amounts of small to large angular and sub-angular fragments of limestone. Fill of pit [2403].	0.30m	Three fragments of animal bone (78g)
2403	Cut	Pit.	0.30m	
2404	Fill	Same as (2402) but with very large fragments of burnt limestone. Fill of pit [2405].	0.30m	
2405	Cut	Pit.	0.30m	
2406	Fill	Compact medium yellowish brown gritty silt with moderate amounts of small to large angular and sub-angular limestone fragments. Fill of ditch [2407].	0.30m	
2407	Cut	Ditch.	0.30m	
2408	Fill	Compact medium yellowish brown gritty silt with frequent small to very large angular and sub-angular limestone fragments. Fill of ditch [2409].	0.30m	8 shreds limestone-tempered ware (late Iron Age/early Roman); 2 sherds Severn Valley ware (1st to 4th century); 2 fragments burnt stone; one fragment bone
2409	Cut	Ditch.	0.30m	

Trench 24 facing south-west across ditches 2407 and 2409


Field 3561
Well Gate
262.9m
Legend
Site of barrows
Test pits
61
62
63
64
Wellgates
3561
Bredon Hill
0
25
50
100
150
200
Metres
N

Field 3561: Wellgates							
Test pits	**61**	**62**	**63**	**64**	**Range**		**Average**
					min	**max**	
Current cultivation	0.09	0.14	0.14	0.10	0.09	0.14	0.12
Former cultivation	0.15	0.13	0.09	0.13	0.09	0.15	0.12
Subsoil	None	None	None	None			
Natural	Unex	Unex	Unex	Unex			
Minimum buffer: 0.09							
Slope: Steep							
Soil group in relation to water erosion: Light							
Soil group in relation to wind erosion: Silts/sands							



Test pit 61 facing north (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 3561 **Field Name** Wellgates

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**.....4 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**.....2 **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**.....3 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....2 **B**..... **C**.....	
Initial score						11	10
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5					1.5	1
Initial score multiplied by weighting						A …16.5 B …. C ….	A ….10 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……4 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**.....4 **B**..... **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score					11
Weighting	Any of above in grey shaded box = 2				2
Initial score multiplied by weighting				A ……. B..... C.....	A …..22 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....5 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....4 **C**.....
Initial score						9
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					2
Initial score multiplied by weighting						**A** … **B** …18 **C** …

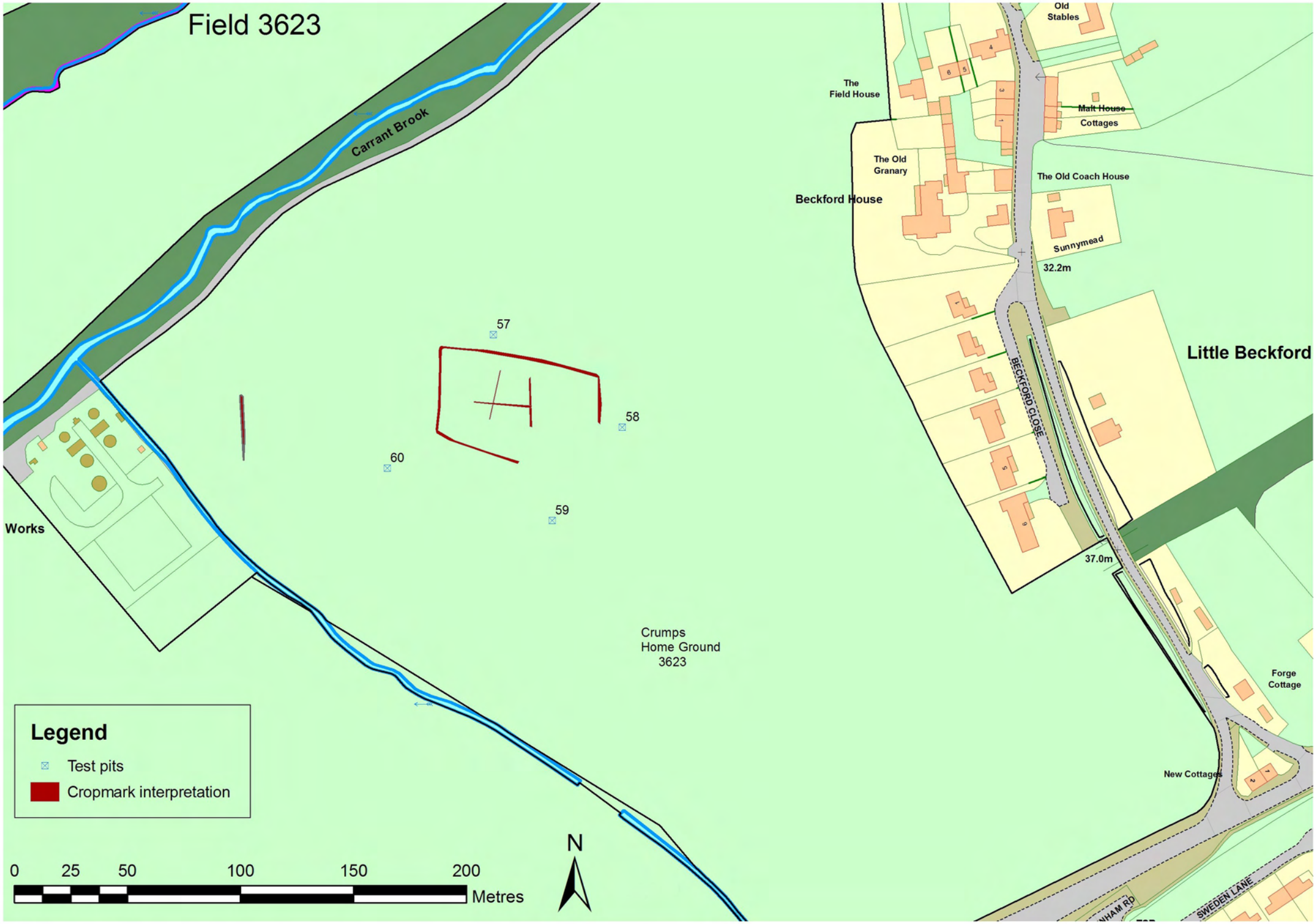
***Graded A-C according to quality of evidence**

Final risk score

	Ploughing:combinable crops	Minimum tillage:combinable crops
Management factors (out of 50)	16.5	10
Site intrinsic factors (out of 30)	22	22
Archaeological factors (out of 20)	18	18
Final risk score (out of 100)	**56.5**	**50**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**


Field 3623
Carrant Brook
Old Stables
The Field House
Malt House Cottages
The Old Granary
The Old Coach House
Beckford House
Sunnymead
32.2m
Little Beckford
BECKFORD CLOSE
37.0m
57
58
60
59
Works
Crumps Home Ground 3623
Forge Cottage
New Cottages
SWEDEN LANE
Legend
Test pits
Cropmark interpretation
0 25 50 100 150 200
Metres
N

Field 3623: Crumps Home Ground							
Test pits	**57**	**58**	**59**	**60**	**Range**		**Average**
					min	**max**	
Current cultivation	0.15	0.34	0.23	0.10	0.10	0.23	0.16
Former cultivation	0.16	0.41	0.13	0.19	0.13	0.19	0.16
Subsoil	0.15	Unex	None	>0.29	0.00	>0.29	
Natural	Unex	n/a	Unex	n/a			
Minimum buffer: 0.13							
Notes							
1) Anomalous depths of current and former cultivation in test pit 58. Not included in average.							
2) Variable depths of subsoil							
3) Low density scatters of Roman and modern pottery							
Slope: Level ground							
Soil group in relation to water erosion: Light							
Soil group in relation to wind erosion: Loams							

Test pit 59 facing south (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 3623 **Field Name** Crumps Home Ground

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**..... **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....4 **B**..... **C**.....	
Initial score							12
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5						1.5
Initial score multiplied by weighting						A … B …. C ….	A ….18 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……1 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**.....3 **B**..... **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score					7
Weighting	Any of above in grey shaded box = 2				1
Initial score multiplied by weighting				A ……. B..... C.....	A …..7 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....3 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....2 **C**.....
Initial score						5
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1
Initial score multiplied by weighting						**A** … **B** …5 **C** …

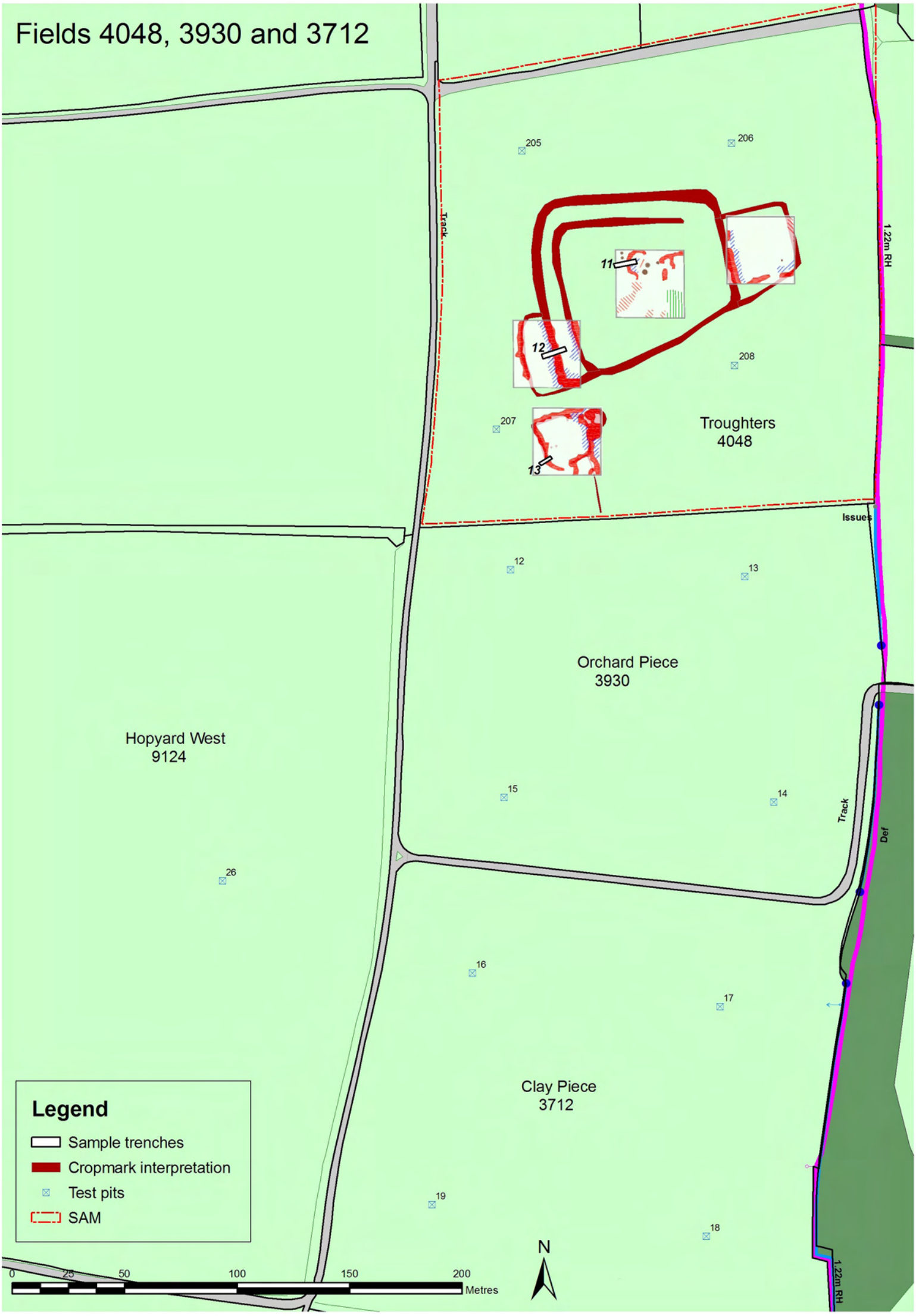
***Graded A-C according to quality of evidence**

Final risk score

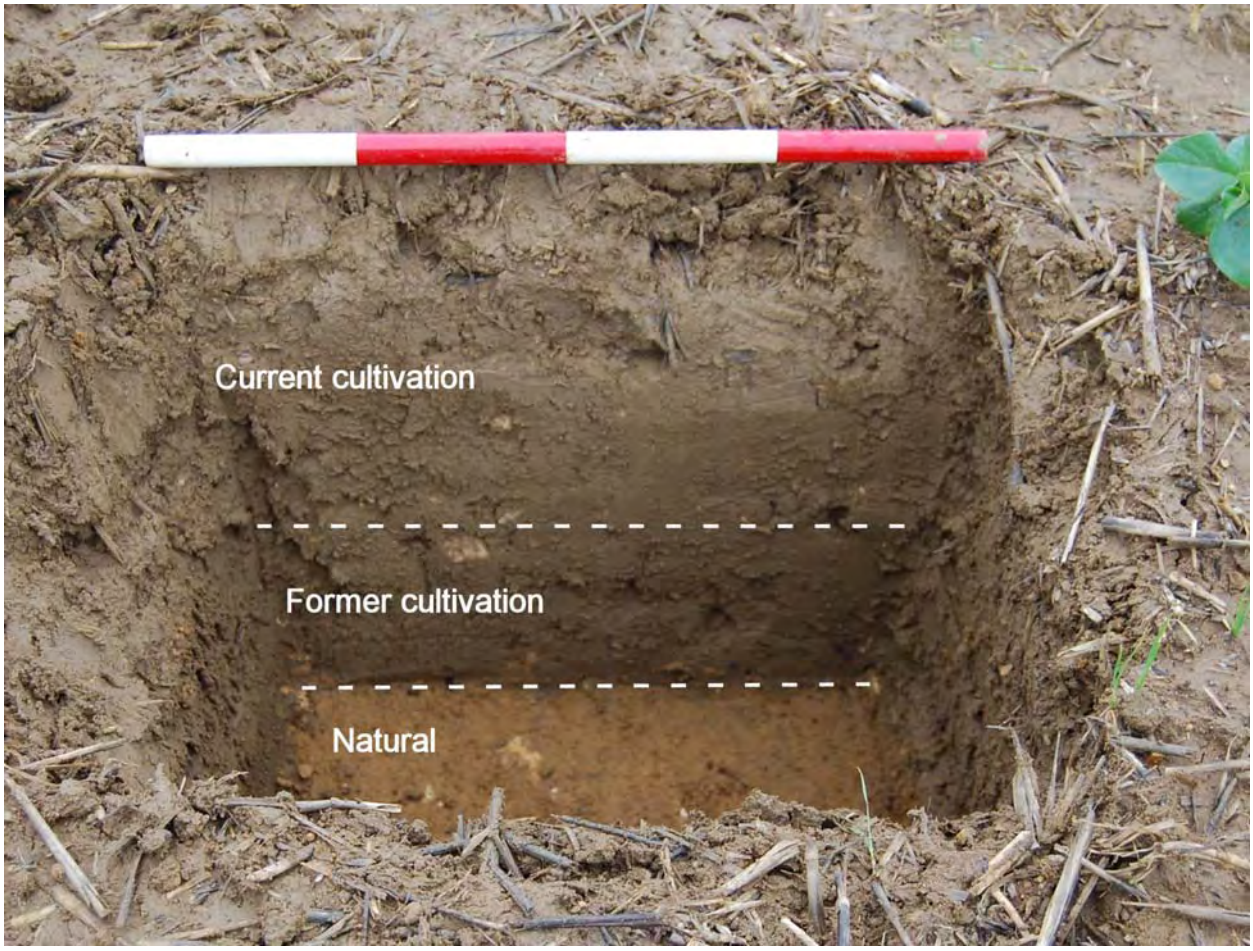
	Minimum tillage:combinable crops
Management factors (out of 50)	18
Site intrinsic factors (out of 30)	7
Archaeological factors (out of 20)	5
Final risk score (out of 100)	**30**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**


Fields 4048, 3930 and 3712
205
206
Track
11
12
208
207
13
Troughters
4048
1.22m RH
Issues
12
13
Orchard Piece
3930
Hopyard West
9124
15
14
Track
Def
26
16
17
Clay Piece
3712
19
18
1.22m RH
Legend
Sample trenches
Cropmark interpretation
Test pits
SAM
0
25
50
100
150
200
Metres
N

Field 3712: Clay Piece							
Test pits	**16**	**17**	**18**	**19**	**Range**		**Average**
					min	**max**	
Current cultivation	0.18	0.12	0.16	0.20	0.12	0.20	0.17
Former cultivation	0.09	0.18	>0.12	0.10	0.09	0.18	0.12
Subsoil	None	0.25	n/a	None			
Natural	Unex	Unex	n/a	Unex			
Minimum buffer: 0.09							
Notes							
1) Test pit 18 not bottomed due to rising groundwater							
2) Subsoil only recorded in test pit 17; much deeper there than elsewhere							
3) Variation in natural across site; test pit 19 identified natural may have been subsoil							
Slope: Level ground							
Soil group in relation to water erosion: Light							
Soil group in relation to wind erosion: Silts/sands							



Test pit 19 facing west (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 3712 **Field Name** Clay Piece

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**.....4 **B**..... **C**.....	**A**.....4 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**.....4 **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**.....5 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....4 **B**..... **C**.....	
Initial score						17	13
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5					2.5	1.5
Initial score multiplied by weighting						A …42.5 B …. C ….	A ….19.5 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……1 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**.....4 **B**..... **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**.....5 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score				10	8
Weighting	Any of above in grey shaded box = 2			2	1
Initial score multiplied by weighting				A …….20 B..... C.....	A …..8 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....3 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....3 **C**.....
Initial score						6
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1.3
Initial score multiplied by weighting						**A** … **B** …8 **C** …

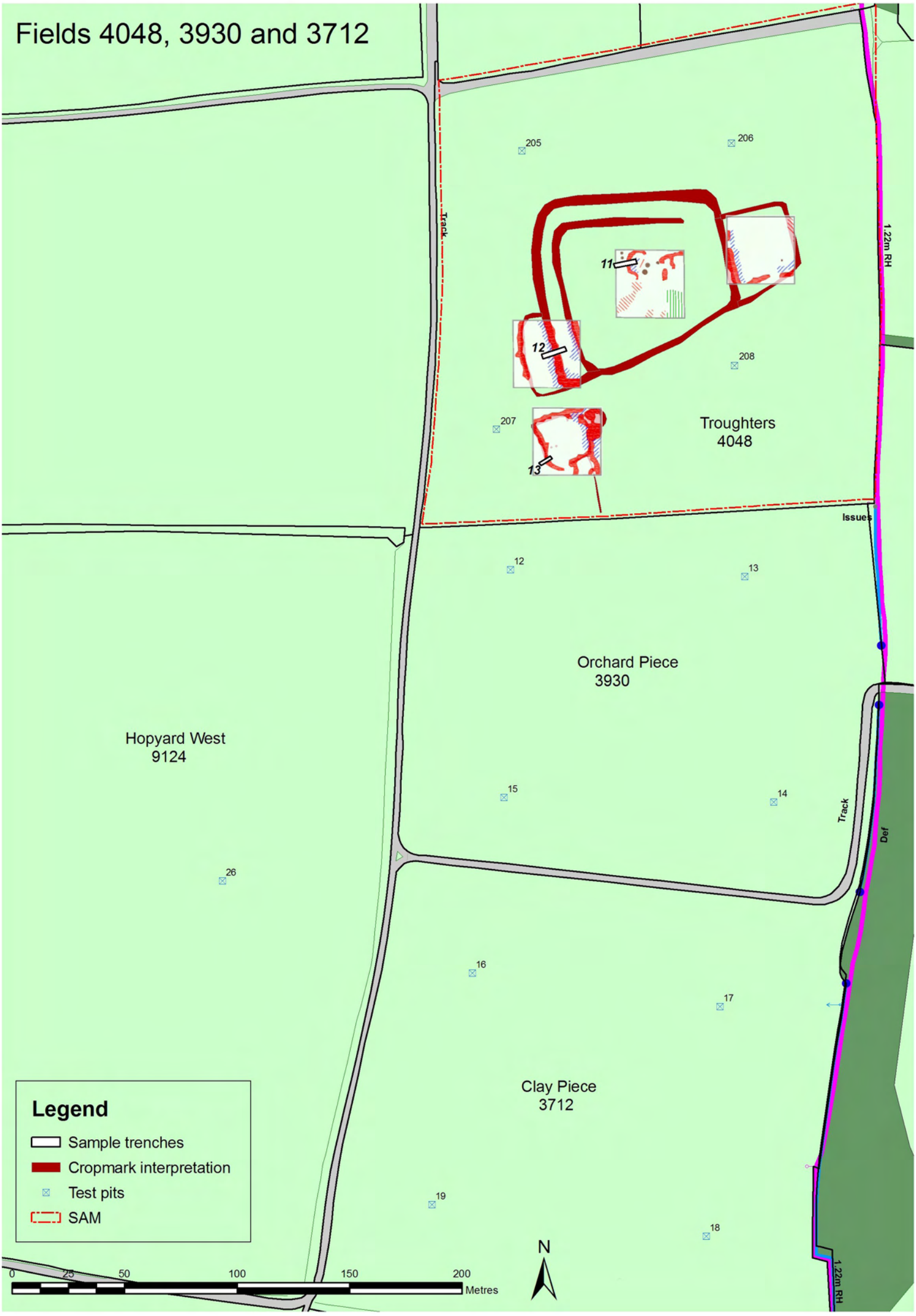
***Graded A-C according to quality of evidence**

Final risk score

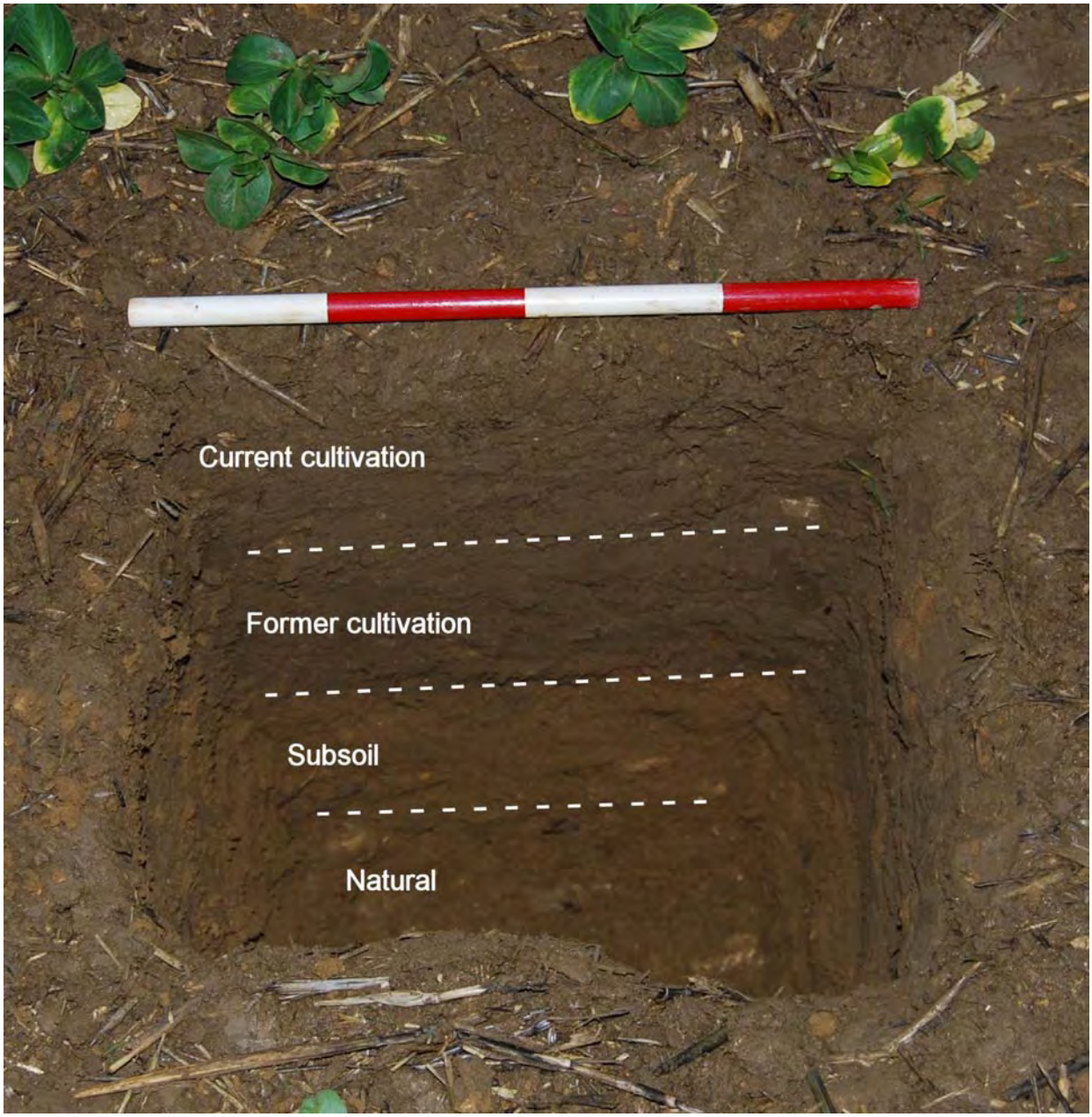
	Ploughing:potatoes	Minimum tillage:combinable crops
Management factors (out of 50)	42.5	19.5
Site intrinsic factors (out of 30)	20	8
Archaeological factors (out of 20)	8	8
Final risk score (out of 100)	**70.5**	**35.5**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**


Fields 4048, 3930 and 3712
205
206
Track
11
12
208
207
13
Troughters
4048
1.22m RH
Issues
12
13
Orchard Piece
3930
Hopyard West
9124
15
14
Track
Def
26
16
17
Clay Piece
3712
19
18
1.22m RH
Legend
Sample trenches
Cropmark interpretation
Test pits
SAM
0
25
50
100
150
200
Metres
N

Field 3930: Orchard Piece							
Test pits	**12**	**13**	**14**	**15**	**Range**		**Average**
					min	**max**	
Current cultivation	0.18	0.17	0.15	0.18	0.15	0.18	0.17
Former cultivation	0.10	0.07	0.15	0.08	0.07	0.15	0.10
Subsoil	0.15	0.15	0.14	0.16	0.14	0.16	0.15
Natural	Unex	Unex	Unex	Unex			
Minimum buffer: 0.10							
Notes							
1) Low density scatter of modern brick and tile							
2) Variation in depth of former cultivation							
Slope: Level ground							
Soil group in relation to water erosion: Light							
Soil group in relation to wind erosion: Silts/sands							



Test pit 14 facing north(scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 3930 **Field Name** Orchard Piece

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**.....4 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**.....4 **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**.....5 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....4 **B**..... **C**.....	
Initial score						17	12
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5					2.5	1.5
Initial score multiplied by weighting						A …42.5 B …. C ….	A ….18 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……1 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**..... **B**.....4 **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**.....5 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score				10	8
Weighting	Any of above in grey shaded box = 2			2	1
Initial score multiplied by weighting				A …….20 B..... C.....	A …..8 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....2 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....2 **C**.....
Initial score						4
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1
Initial score multiplied by weighting						**A** … **B** …4 **C** …

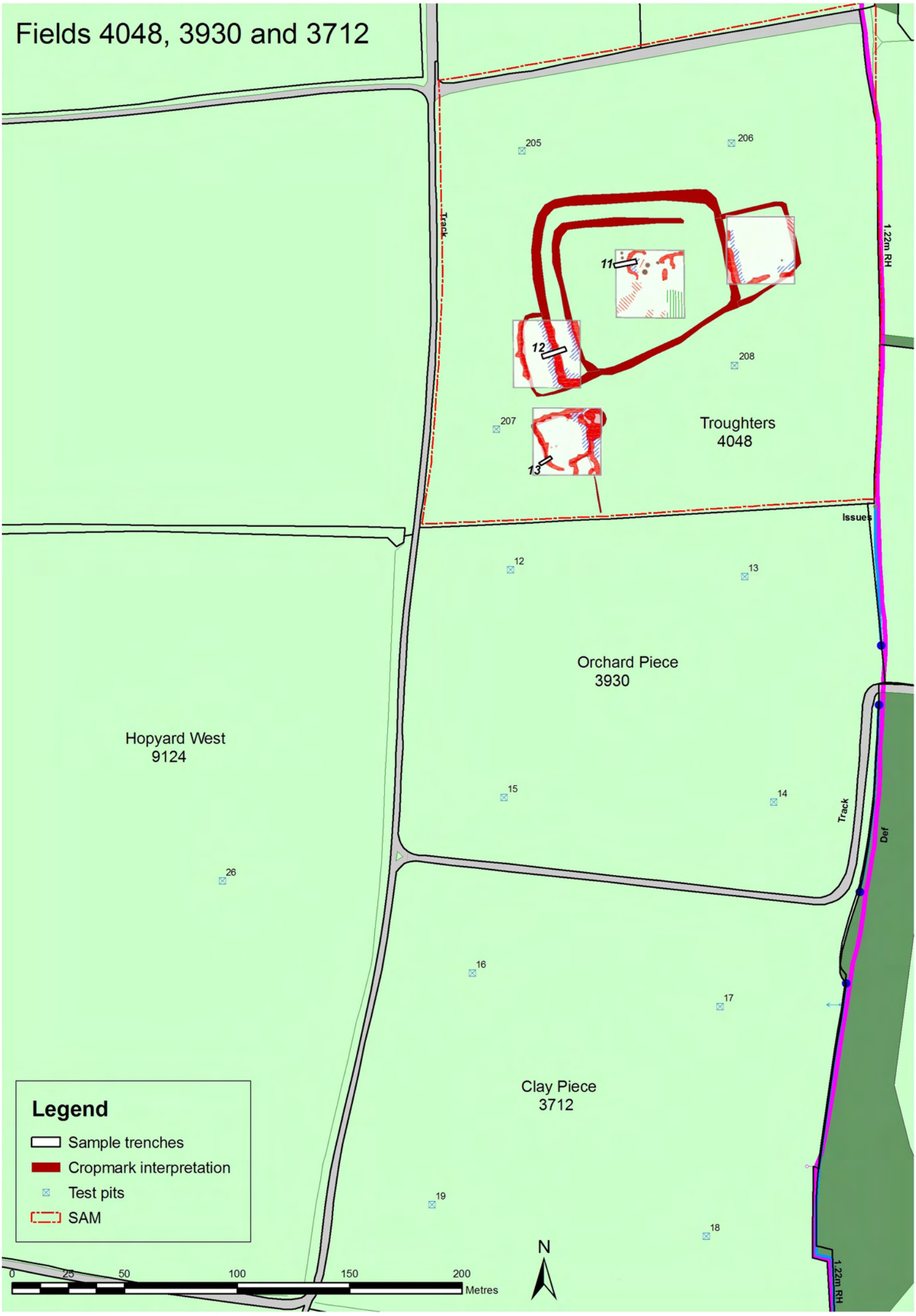
***Graded A-C according to quality of evidence**

Final risk score

	Ploughing:potatoes	Minimum tillage:combinable crops
Management factors (out of 50)	42.5	18
Site intrinsic factors (out of 30)	20	8
Archaeological factors (out of 20)	4	4
Final risk score (out of 100)	**66.5**	**30**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**


Fields 4048, 3930 and 3712
205
206
Track
11
12
208
207
13
Troughters
4048
1.22m RH
Issues
12
13
Orchard Piece
3930
Hopyard West
9124
15
14
Track
Def
26
16
17
Clay Piece
3712
19
18
1.22m RH
Legend
Sample trenches
Cropmark interpretation
Test pits
SAM
0
25
50
100
150
200
Metres
N

Field 4048: Troughters							
Test pits	**205**	**206**	**207**	**208**	**Range**		**Average**
					min	**max**	
Current cultivation	0.15	0.12	0.13	0.14	0.12	0.15	0.14
Former cultivation	0.15	0.17	0.18	0.12	0.12	0.18	0.16
Subsoil 1	0.35	0.09	>0.45	0.42	0.09	>0.45	0.29
Subsoil 2	n/a	0.24	n/a	n/a			
Natural	Unex	Unex	n/a	Unex			
Minimum buffer: 0.16							
Notes							
1) Natural not observed in test pit 207, therefore depth of subsoil not recorded in average							
Slope: Level ground							
Soil group in relation to water erosion: Light							
Soil group in relation to wind erosion: Silts/sands							

Test pit 208 facing west (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 4048 **Field Name** Troughters

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**.....4 **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**.....4 **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**.....5 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....4 **B**..... **C**.....	
Initial score						17	11
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5					2.5	1.5
Initial score multiplied by weighting						A …42.5 B …. C ….	A ….16.5 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……1 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**..... **B**.....4 **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**.....5 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score				10	8
Weighting	Any of above in grey shaded box = 2			2	1
Initial score multiplied by weighting				A …….20 B..... C.....	A …..8 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5** - Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	**High Score 4** -Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	**Medium Score 3** -Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	**Low Score 2** -Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	**Minimum Score 1** - Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**Score*** **A**..... **B** .....4 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....4 **C**.....
Initial score						8
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1.5
Initial score multiplied by weighting						**A** … **B** …12 **C** …

***Graded A-C according to quality of evidence**

Final risk score

	Ploughing:potatoes	Minimum tillage:combinable crops
Management factors (out of 50)	42.5	16.5
Site intrinsic factors (out of 30)	20	8
Archaeological factors (out of 20)	12	12
Final risk score (out of 100)	**74.5**	**36.5**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**

Troughters (4048)

Trench 11

Maximum dimensions: Length: 10m Width: 2m Depth: 0.42m

Orientation: E– W

Context	Classification	Description	Depth below ground surface	Artefacts
1100	Topsoil	Moderately compact medium greyish brown silt with 5% white medium sand. Contains a few stone gravels and limestone fragments. Clear lower boundary.	0-0.28m	
1101	Subsoil	Moderately compact light grey and reddish brown sandy silt with occasional limestone fragments. Clear and wavy boundary to natural (1102).	0.28-0.42m	
1102	Natural	Light yellowish brown limestone brash with small to medium limestone fragments.	0.42m	
1103	Fill	Moderately compact medium greyish brown fine sandy silt. Frequent small to medium limestone fragments, occasional charcoal flecks and fragments of burnt clay. Fill of linear feature [1104].	0.34m	
1104	Cut	Cut for linear feature aligned NE – SW	0.34m	
1105	Fill	Same as (1103). Fill of possible pit [1106].		
1106	Cut	Pit.		
1107	Fill	Same as (1103). Fill of possible pit [1108].		
1108	Cut	Pit.		

Trench 12

Maximum dimensions: Length: 10.5m Width: 1.88m Depth: 0.47m

Orientation: E – W

Context	Classification	Description	Depth below ground surface	Artefacts
1200	Topsoil	Soft and friable medium greyish brown sandy silt loam with occasional small sub-rounded and sub-angular stones. Clear lower boundary.	0-0.37m	One piece of flint debitage (4g).
1201	Subsoil	Soft medium orangey brown silty sand with occasional flecks of manganese and small limestone fragments.	0.37-0.47m	
1202	Fill	Friable medium brown sandy silt with frequent small sub-angular limestone pieces and occasional charcoal flecks. Appears to be cut from just below the topsoil. Fill of linear ditch feature [1204].	0.37m	
1203	Cut	Cut for linear feature running N-S across trench.	0.37m	

Trench 13

Maximum dimensions: Length: 6.5m Width: 1.80m Depth: 0.42m

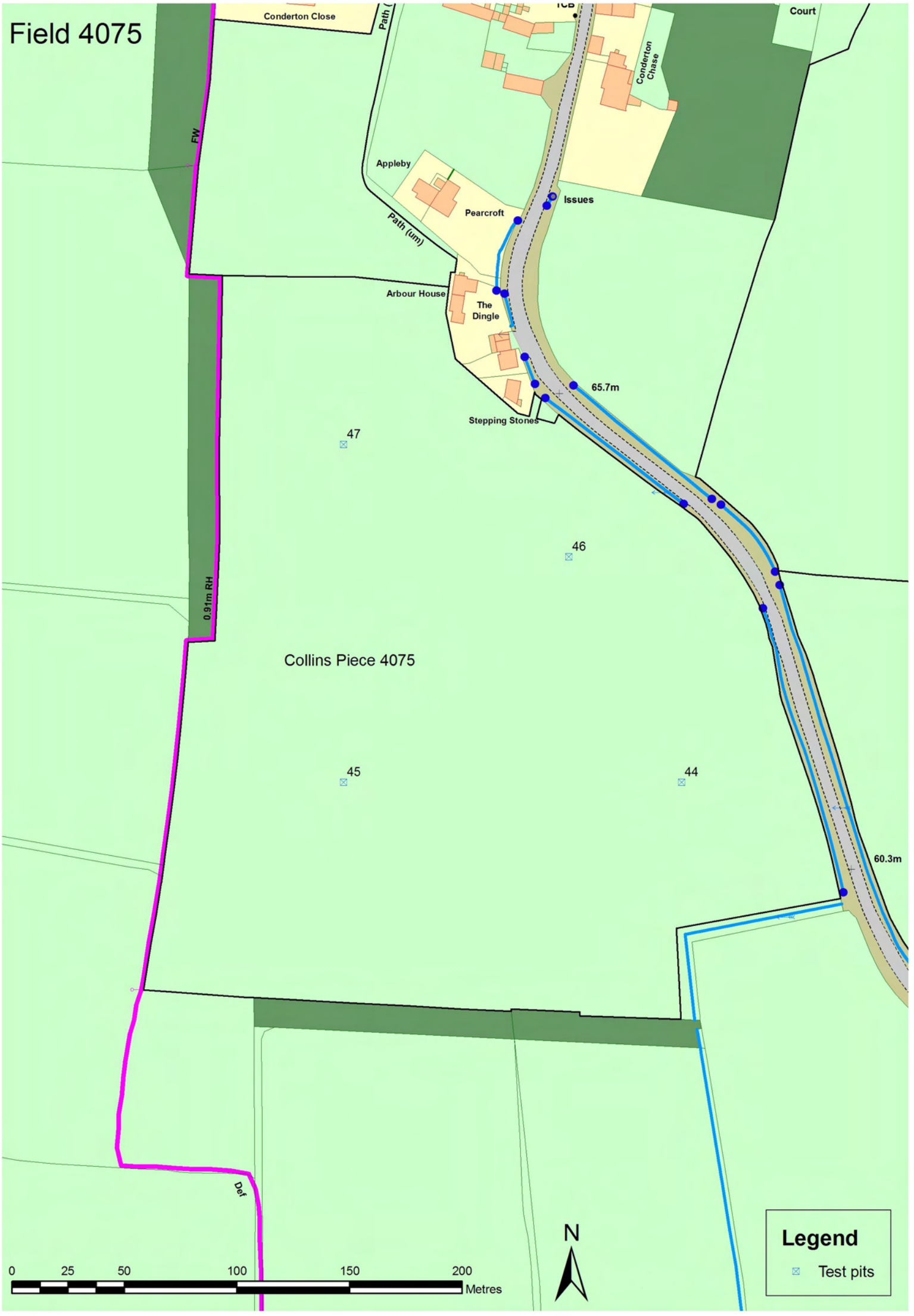
Orientation: E– W

Context	Classification	Description	Depth below ground surface	Artefacts
1300	Topsoil	Moderately compact medium greyish brown silt with 5-10% white sand. Clear lower boundary.	0-0.30m	
1301	Subsoil	Moderately compact light-medium reddish brown silty sand with frequent limestone fragments.	0.30-0.42m	
1302	Natural	Moderately compact reddish brown silty sand with medium to large fragments of yellow limestone.	0.42m	
1303	Natural	Pocket of yellow limestone brash.		

Trench 11 facing west

Trench 12 facing east

Trench 13 facing north-east with ploughscars in foreground


Field 4075
Conderton Close
Path (
TCB
Court
Conderton Chase
FW
Appleby
Issues
Pearcroft
Path (um)
Arbour House
The Dingle
65.7m
Stepping Stones
47
46
0.91m RH
Collins Piece 4075
45
44
60.3m
Def
0
25
50
100
150
200
Metres
N
Legend
Test pits

Field 4075: Collins' Piece							
Test pits	44	45	46	47	**Range**		**Average**
					min	**max**	
Current cultivation	0.12	0.15	0.38	0.12	0.12	0.15	0.13
Former cultivation	0.10	0.15	Unclear	0.20	0.10	0.20	0.15
Subsoil	>0.48	0.12	0.16	None	0.00	0.16	0.09
Natural	Unex	Unex	Unex	Unex			
Minimum buffer: 0.10							
Notes							
1) No distinction between current and former cultivation in test pit 46							
2) Anomalous depth of subsoil in test pit 44 at bottom of slope							
Slope: Gentle							
Soil group in relation to water erosion: Moderate							
Soil group in relation to wind erosion: Loams							

Test Pit 45 facing east (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 4075 **Field Name** Collins Piece

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**..... **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....4 **B**..... **C**.....	
Initial score							12
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5						1.5
Initial score multiplied by weighting						A … B …. C ….	A ….18 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……2 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**.....3 **B**..... **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**.....5 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score				10	8
Weighting	Any of above in grey shaded box = 2			2	1
Initial score multiplied by weighting				A …….20 B..... C.....	A …..8 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....4 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....5 **C**.....
Initial score						9
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					2
Initial score multiplied by weighting						**A** … **B** …18 **C** …

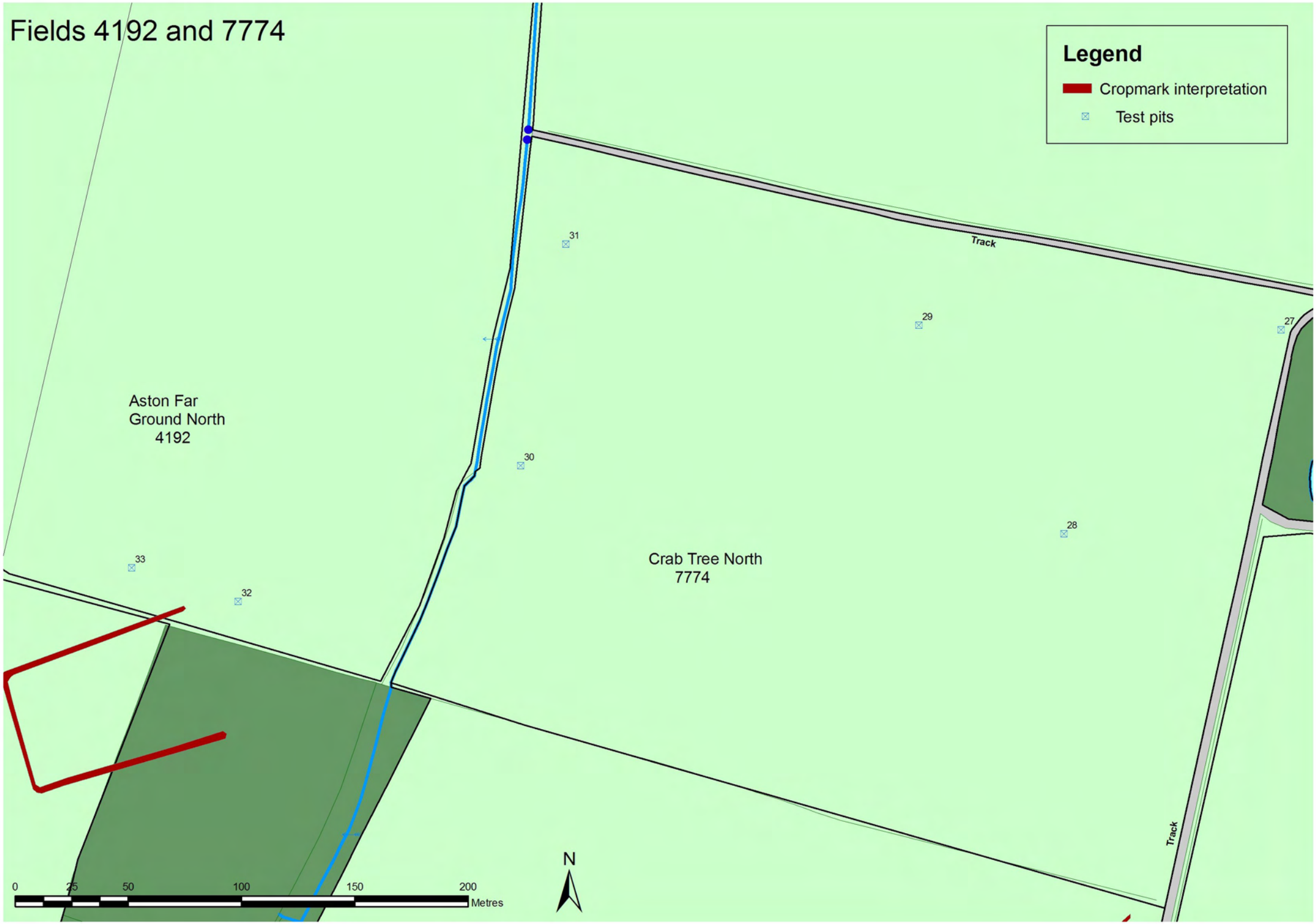
***Graded A-C according to quality of evidence**

Final risk score

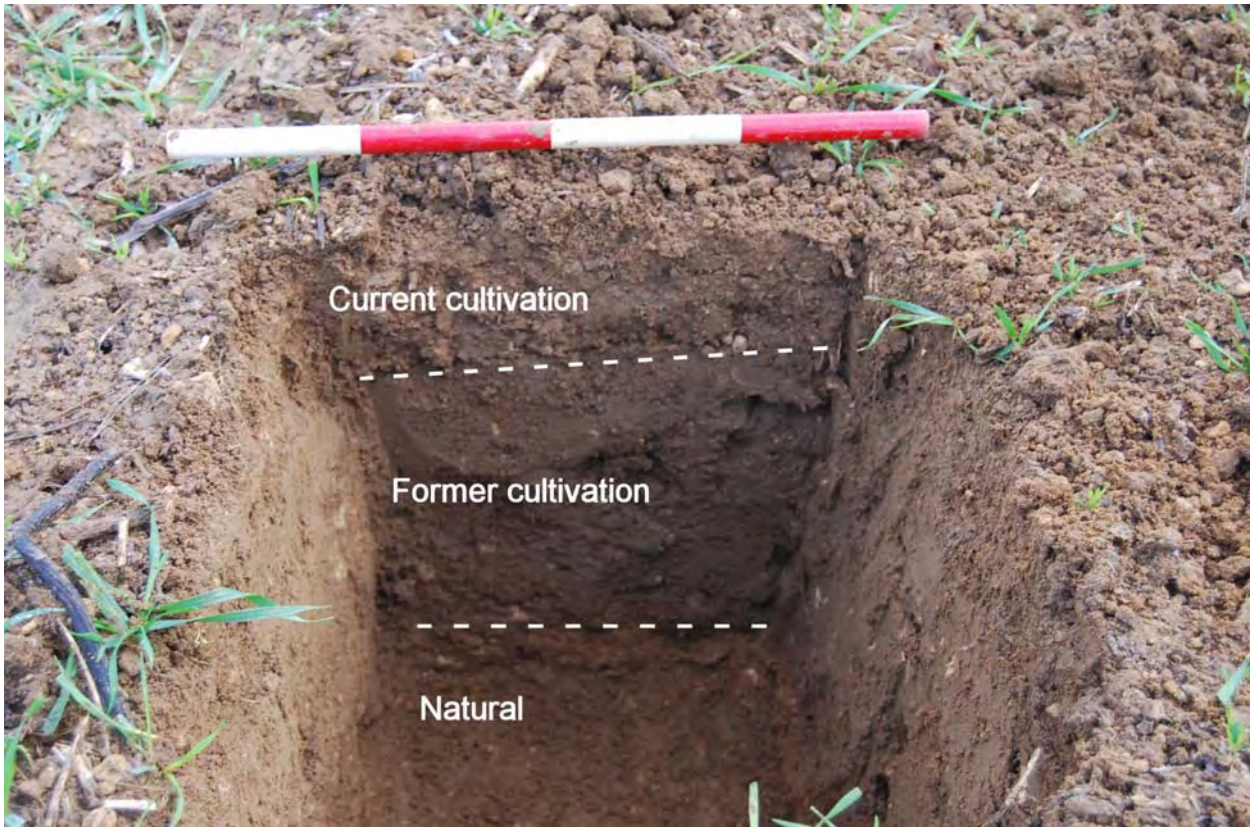
	Minimum tillage:combinable crops
Management factors (out of 50)	18
Site intrinsic factors (out of 30)	8
Archaeological factors (out of 20)	18
Final risk score (out of 100)	**44**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**


Fields 4192 and 7774
Legend
Cropmark interpretation
Test pits
Track
Track
31
29
27
30
28
33
32
Aston Far
Ground North
4192
Crab Tree North
7774
N
0
25
50
100
150
200
Metres

Field 4192: Aston Far Ground North					
Test pits	**32**	**33**	**Range**		**Average**
			min	**max**	
Current cultivation	0.10	0.13	0.10	0.13	0.12
Former cultivation	0.27	0.20	0.20	0.27	0.24
Subsoil	None	None			
Natural	Unex	>0.12			
Minimum buffer: 0.20					
Notes					
1) Test pit 33 has unusual natural; could be resultant from quarrying					
2) Limestone scatters on surface					
3) Majority of field appears to have been quarried away; banking around edge of field					
Slope: Level ground					
Soil group in relation to water erosion: Light					
Soil group in relation to wind erosion: Silts/sands					



Test pit 32 facing east (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 4192 **Field Name** Aston Far Ground North

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**..... **B**..... **C**.....	**A**..... **B**.....2 **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**..... **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....3 **B**..... **C**.....	
Initial score							10
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5						1
Initial score multiplied by weighting						A … B …. C ….	A ….10 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……1 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**.....4 **B**..... **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score					8
Weighting	Any of above in grey shaded box = 2				1
Initial score multiplied by weighting				A ……. B..... C.....	A …..8 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....3 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....2 **C**.....
Initial score						5
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1
Initial score multiplied by weighting						**A** … **B** …5 **C** …

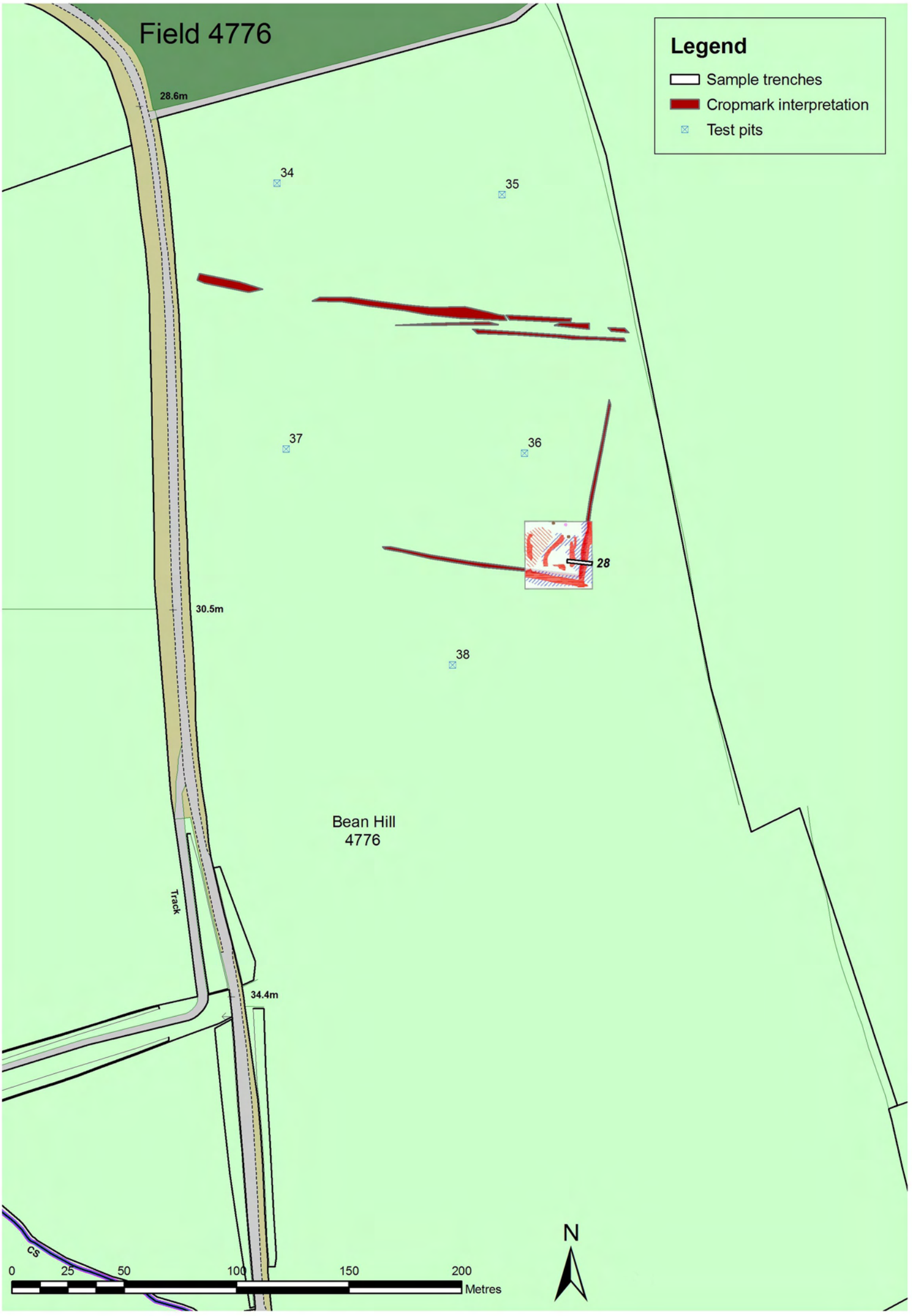
***Graded A-C according to quality of evidence**

Final risk score

	Minimum tillage:combinable crops
Management factors (out of 50)	10
Site intrinsic factors (out of 30)	8
Archaeological factors (out of 20)	5
Final risk score (out of 100)	**23**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**


Field 4776
Legend
Sample trenches
Cropmark interpretation
Test pits
28.6m
34
35
37
36
28
30.5m
38
Bean Hill
4776
Track
34.4m
CS
0
25
50
100
150
200
Metres
N

Field 4776: Bean Hill								
Test pits	**34**	**35**	**36**	**37**	**38**	**Range**		**Average**
						min	**max**	
Current cultivation	0.14	0.12	0.12	0.13	0.14	0.12	0.14	0.13
Former cultivation	0.16	0.14	0.17	0.25	0.19	0.14	0.25	0.18
Subsoil	None	0.30	0.14	None	None	0.00	0.30	
Natural	Unex	Unex	Unex	Unex	Unex			
Minimum buffer: 0.14								
Notes								
1) Low density Roman pottery throughout field but higher concentration to north; modern pot and brick in centre and south								
2) Variable depth of subsoil in test pits in east and west parts of field								
3) Variation in natural								
Slope: Gentle								
Soil group in relation to water erosion: Light								
Soil group in relation to wind erosion: Silts/sands								

Test pit 34 facing south (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 4776 **Field Name** Bean Hill

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**..... **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....4 **B**..... **C**.....	
Initial score							12
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5						1.5
Initial score multiplied by weighting						A … B …. C ….	A ….18 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……1 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**..... **B**.....4 **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score					8
Weighting	Any of above in grey shaded box = 2				1
Initial score multiplied by weighting				A ……. B..... C.....	A …..8 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....3 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....3 **C**.....
Initial score						6
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1.3
Initial score multiplied by weighting						**A** … **B** …8 **C** …

***Graded A-C according to quality of evidence**

Final risk score

	Minimum tillage:combinable crops
Management factors (out of 50)	18
Site intrinsic factors (out of 30)	8
Archaeological factors (out of 20)	8
Final risk score (out of 100)	**34**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**

Bean Hill (4776)

Trench 28

Maximum dimensions: Length: 11m Width: 1.30m Depth: 0.40m

Orientation: E – W

Context	Classification	Description	Depth below ground surface	Artefacts
2800	Topsoil	Moderately compact medium greyish brown clay silt with occasional small limestone fragments. Clear lower boundary.	0-0.30m	One sherd of 1-4th century Severn Valley Ware Roman pottery (9g).
2801	Void	Void.		
2802	Natural	Light greyish brown clay silt with reddish brown mottling and aggregates gleyed bluish grey.	0.30m	
2803	Fill	Moderately compact medium greyish brown silt with c. 5% white medium sand. Fill of linear [2804].	0.30m	Two sherds of medieval Malvernian pottery late 13th to early 17th century (1g).
2804	Cut	Linear feature aligned roughly N – S.	0.30m	
2805	Fill	Moderately compact medium greyish brown clayey silt with occasional small gravels. Fill of [2806].	0.30m	Two pieces of animal bone (5g).
2806	Cut	Linear feature aligned N – S.	0.30m	
2807	Fill	Same as (2805). Fill of [2808].	0.20m	
2808	Cut	Ditch aligned roughly N – S.	0.20m	
2809	Fill	Moderately compact medium greyish brown silt with c. 5% white medium sand. Frequent grey and reddish brown mottling. Fill of Pit [2810].	0.30m	Three pieces of animal bone (21g).
2810	Cut	Pit (partially exposed).	0.30m	
2811	Fill	Same as (2809) but with c. 15% re-deposited natural. Fill of pit [2812].	0.30m	
2812	Cut	Pit (partially exposed).	0.30m	

Trench28 facing east across ditches 2804, 2806, and 2808

Fields 2558, 3221 and 5225

Athills
2558

Cobblers Quarry
5559

Nettlebeds
3221

Elmont
5225

Hill Barn

Track

Track

Track

Track

Def

Cattle Grid

Remains of house and garden

Issues

Bank

Roman wall and earthworks

Path (um)

Issues

Collects

17

18

19

20

21

23

72

73

74

75

65

66

67

68

69

70

76

77

78

79

80

81

82

83

84

85

N

0 25 50 100 150 200 Metres

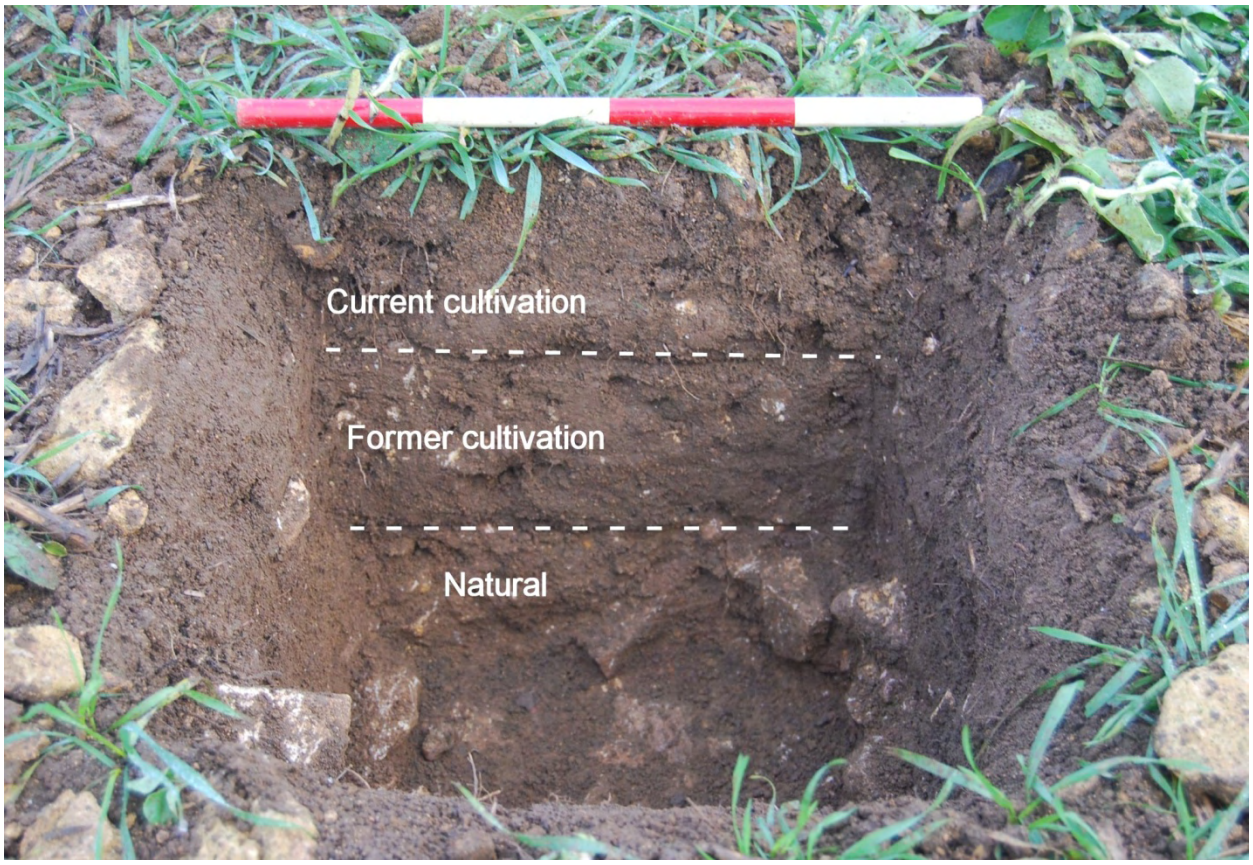
Legend

Sample trenches

Cropmark interpretation

Test pits

Field 5225: Elmont											
Test pits	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**Range**		**Average**
									min	**max**	
Current cultivation	0.14	0.12	0.12	0.15	0.12	0.20	0.16	0.08	0.08	0.20	0.14
Former cultivation	0.12	0.13	0.13	0.15	0.23	0.46	0.13	0.16	0.12	0.23	0.14
Historic cultivation	n/a	n/a	n/a	n/a	>0.40	>0.14	0.40	n/a			
Subsoil	0.10	None	None	0.16	n/a	n/a	None	None			
Natural	Unex	Unex	Unex	Unex	n/a	n/a	Unex	Unex			
Minimum buffer: 0.12											
Notes											
1) Test pit 83 is anomalous: the former cultivation must be filling a feature or natural hollow											
2) Test pits 82-84 all have evidence of historic ploughsoil											
3) Moderate scatter of Roman pottery											
Slope: Moderate											
Soil group in relation to water erosion: Light											
Soil group in relation to wind erosion: Silts/sands											



Test pit 79 facing east (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 5525 **Field Name** Elmont

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**..... **B**..... **C**.....	**A**.....4 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**..... **B**..... **C**.....	**A**..... **B**.....2 **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**..... **B**..... **C**.....	**A**..... **B**.....3 **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....4 **B**..... **C**.....	
Initial score							13
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5						1.5
Initial score multiplied by weighting						A … B …. C ….	A ….19.5 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**…… **B**.....3 **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**..... **B**.....4 **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score					10
Weighting	Any of above in grey shaded box = 2				2
Initial score multiplied by weighting				A ……. B..... C.....	A …..20 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....5 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....4 **C**.....
Initial score						9
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					2
Initial score multiplied by weighting						**A** … **B** …18 **C** …

***Graded A-C according to quality of evidence**

Final risk score

	Minimum tillage:combinable crops
Management factors (out of 50)	19.5
Site intrinsic factors (out of 30)	20
Archaeological factors (out of 20)	18
Final risk score (out of 100)	**57.5**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**

Elmont (5225)

Trench 21

Maximum dimensions: Length: 6m Width: 1.90m Depth: 0.45m

Orientation: W – E

Context	Classification	Description	Depth below ground surface	Artefacts
2100	Topsoil	Moderately compact dark brown gritty silt with frequent small to large angular and sub-angular limestone pieces and fragments of roof tile.	0-0.30m	
2101	Deposit	Variable and mixed pieces of tile and building rubble in a moderately compact medium brown sandy silt matrix.	0.30m	2 sherds reduced Severn Valley ware (1st to 4th century); 18 sherds (398g) fabric 68: oxidised glazed Malvernian ware (late 13th to early 17th century); 5 fragments of holed limestone roof tile (2226g); one fragement of non-local stone (374g)

Trench 23

Maximum dimensions: Length: 6m Width: 2m Depth: 0.70m

Orientation: N - S

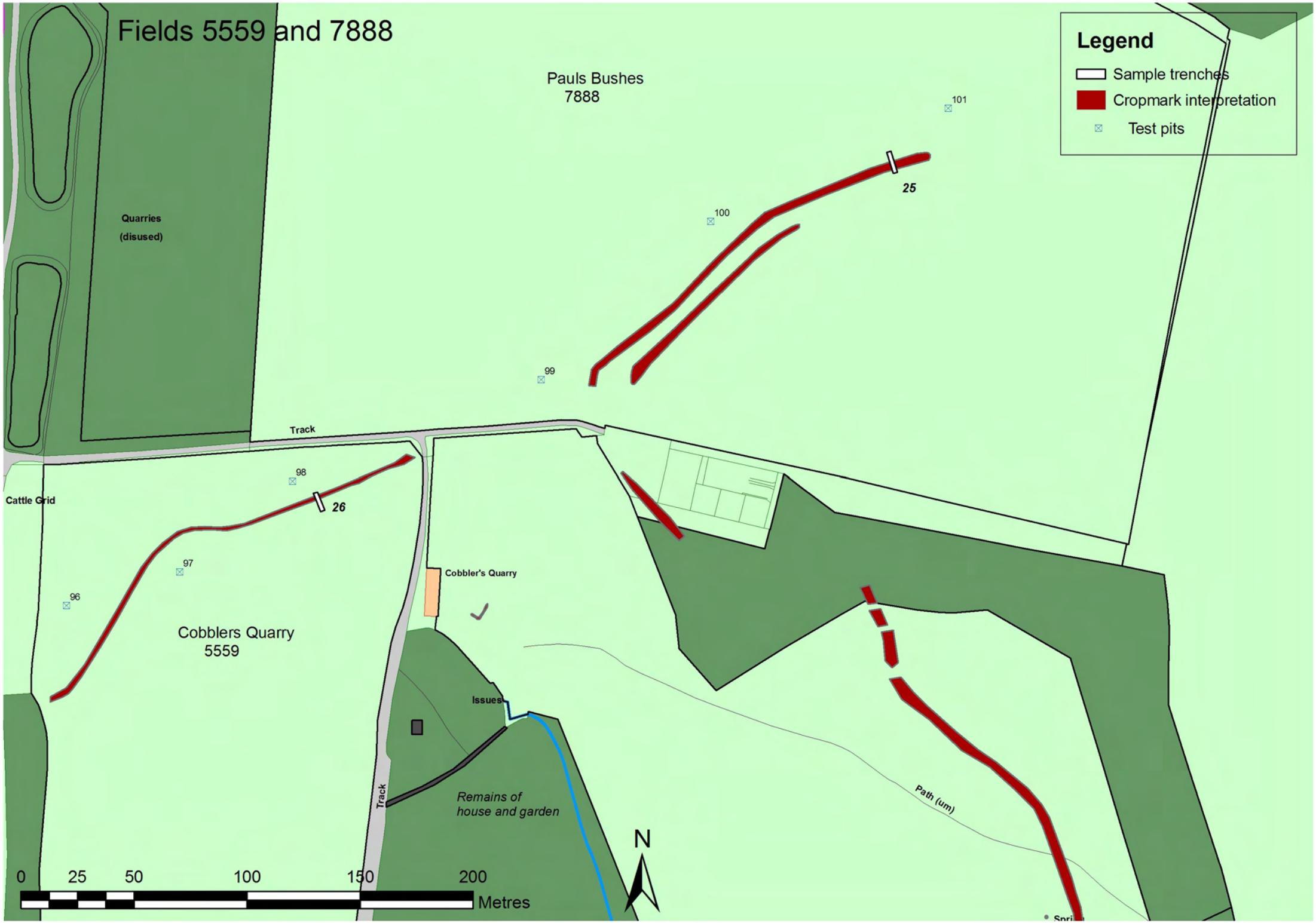
Context	Classification	Description	Depth below ground surface	Artefacts
2300	Topsoil	Moderately compact dark brown silt loam with frequent small to large angular and sub-angular limestone pieces.	0-0.20m	One sherd of micaceous Roman pottery (2g)
2301	Deposit	Moderately compact medium yellow brown silt loam with frequent small to large angular and sub-angular fragments and blocks of limestone building material. Rubble deposit	0.20-0.43m	

Context	Classification	Description	Depth below ground surface	Artefacts
		against north of wall 2306.		
2302	Deposit	Moderately compact medium brownish yellow gritty silt with small to very large angular and sub-angular limestone fragments. Re-deposited natural limestone brash.	0.35-0.59m	
2303	Deposit	Moderately compact medium yellow brown gritty silt loam with frequent small to large angular and sub-angular limestone fragments and large blocks of limestone building material. Deposit may represent building collapse.	0.25m	
2304	Fill	Same as (2303) but no large blocks of limestone. Fill of cut [2308] for wall 2306, south side.	0.60-0.70m	1 fragment of undiagnostic fired clay (<1g)
2305	Fill	Same as (2304). Fill of cut [2308] for wall 2306, north side.	0.60-0.86m	
2306	Structure	Oolitic limestone blocks in regular courses; not bonded; orientated E - W.	0.20m	
2307	Structure	Limestone blocks keyed into main wall 2306 but orientated N - S in west section of trench. Not bonded.	0.20m	
2308	Cut	Foundation cut for walls 2306 and 2307.	0.60m	
2309	Natural	Medium brownish yellow limestone brash.	0.60m	

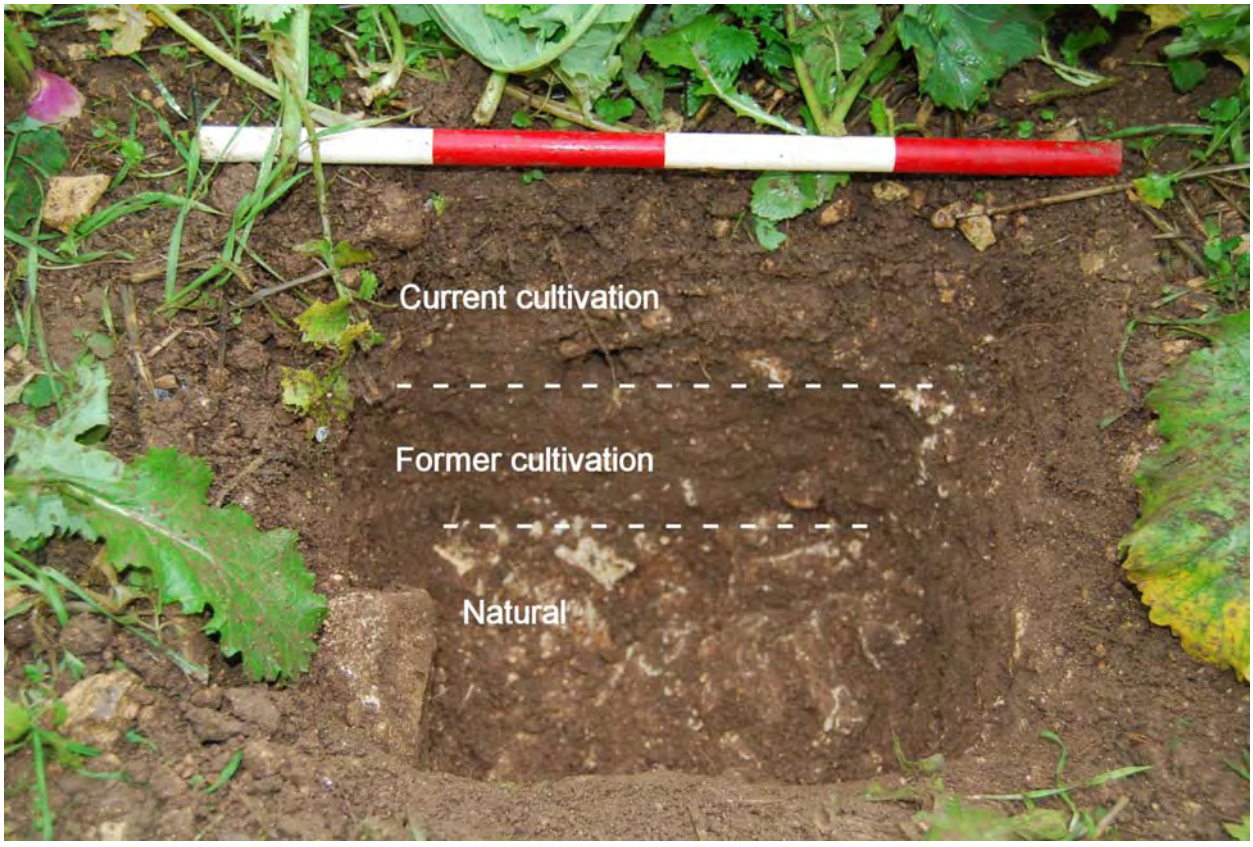
Trench 21 facing west

Trench 23 facing south-west

Trench 23: South face of wall 2306


Fields 5559 and 7888
Pauls Bushes
7888
Legend
Sample trenches
Cropmark interpretation
Test pits
101
100
99
98
97
96
25
26
Quarries
(disused)
Track
Cattle Grid
Cobbler's Quarry
Cobblers Quarry
5559
Issues
Track
Remains of
house and garden
Path (um)
N
0
25
50
100
150
200
Metres

Field 5559: Cobblers Quarry						
Test pits	**96**	**97**	**98**	**Range**		**Average**
				min	**max**	
Current cultivation	0.15	0.14	0.12	0.12	0.15	0.12
Former cultivation	0.13	0.13	0.10	0.10	0.13	0.12
Subsoil	0.23	0.08	None	0.00	0.23	
Natural	Unex	Unex	Unex			
Minimum buffer: 0.10						
Slope: Moderate						
Soil group in relation to water erosion: Light						
Soil group in relation to wind erosion: Silts/sands						



Test pit 98 facing west (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 5559 **Field Name** Cobbers Quarry

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**..... **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....4 **B**..... **C**.....	
Initial score							12
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5						1.5
Initial score multiplied by weighting						A … B …. C ….	A ….18 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……3 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**..... **B**.....4 **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score					10
Weighting	Any of above in grey shaded box = 2				2
Initial score multiplied by weighting				A ……. B..... C.....	A …..20 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....3 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....2 **C**.....
Initial score						5
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1
Initial score multiplied by weighting						**A** … **B** …5 **C** …

***Graded A-C according to quality of evidence**

Final risk score

	Minimum tillage:combinable crops
Management factors (out of 50)	18
Site intrinsic factors (out of 30)	20
Archaeological factors (out of 20)	5
Final risk score (out of 100)	**43**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**

Cobblers Quarry (5559)

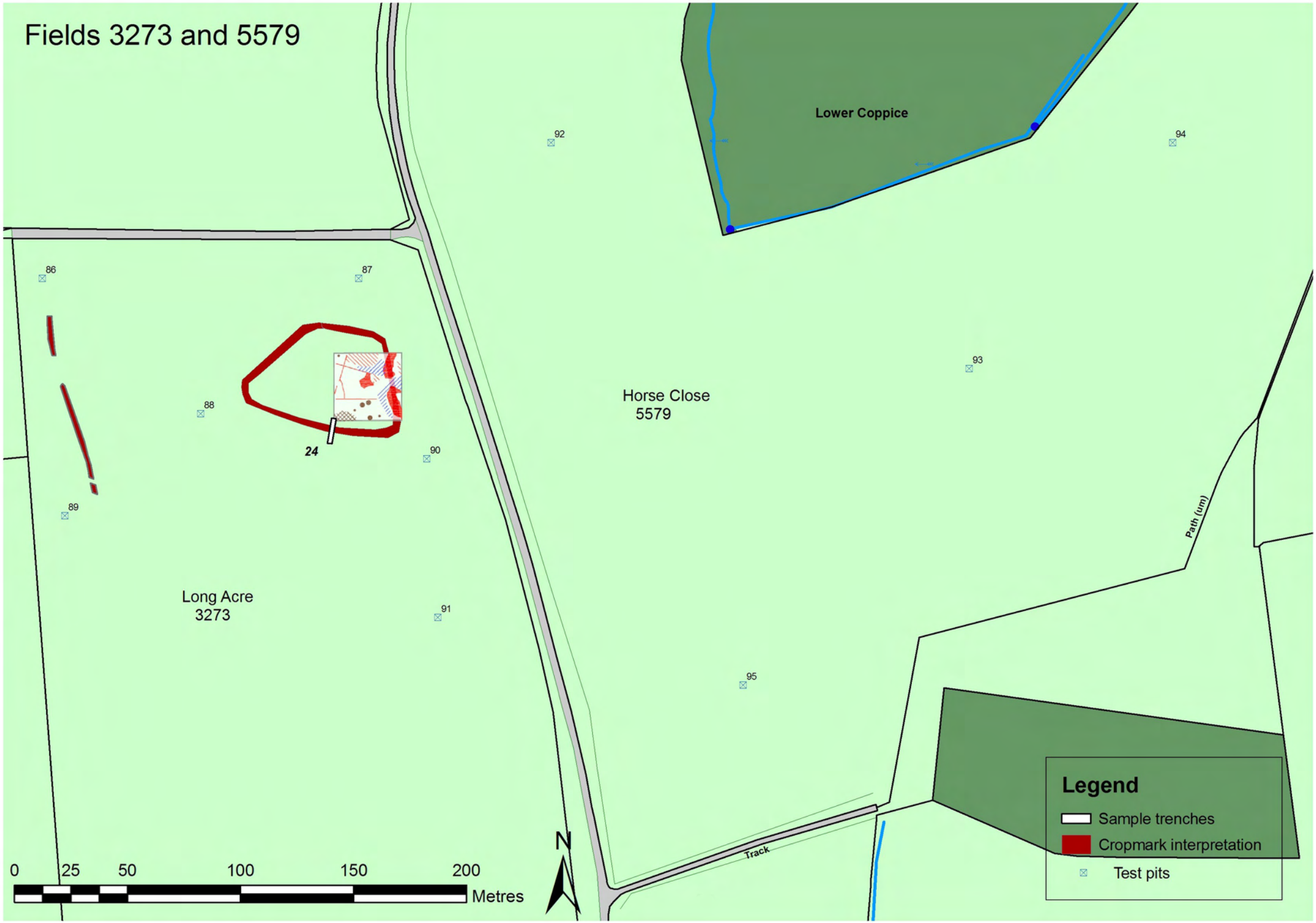
Trench 26

Maximum dimensions: Length: 8.50m Width: 1.95m Depth: 0.35m

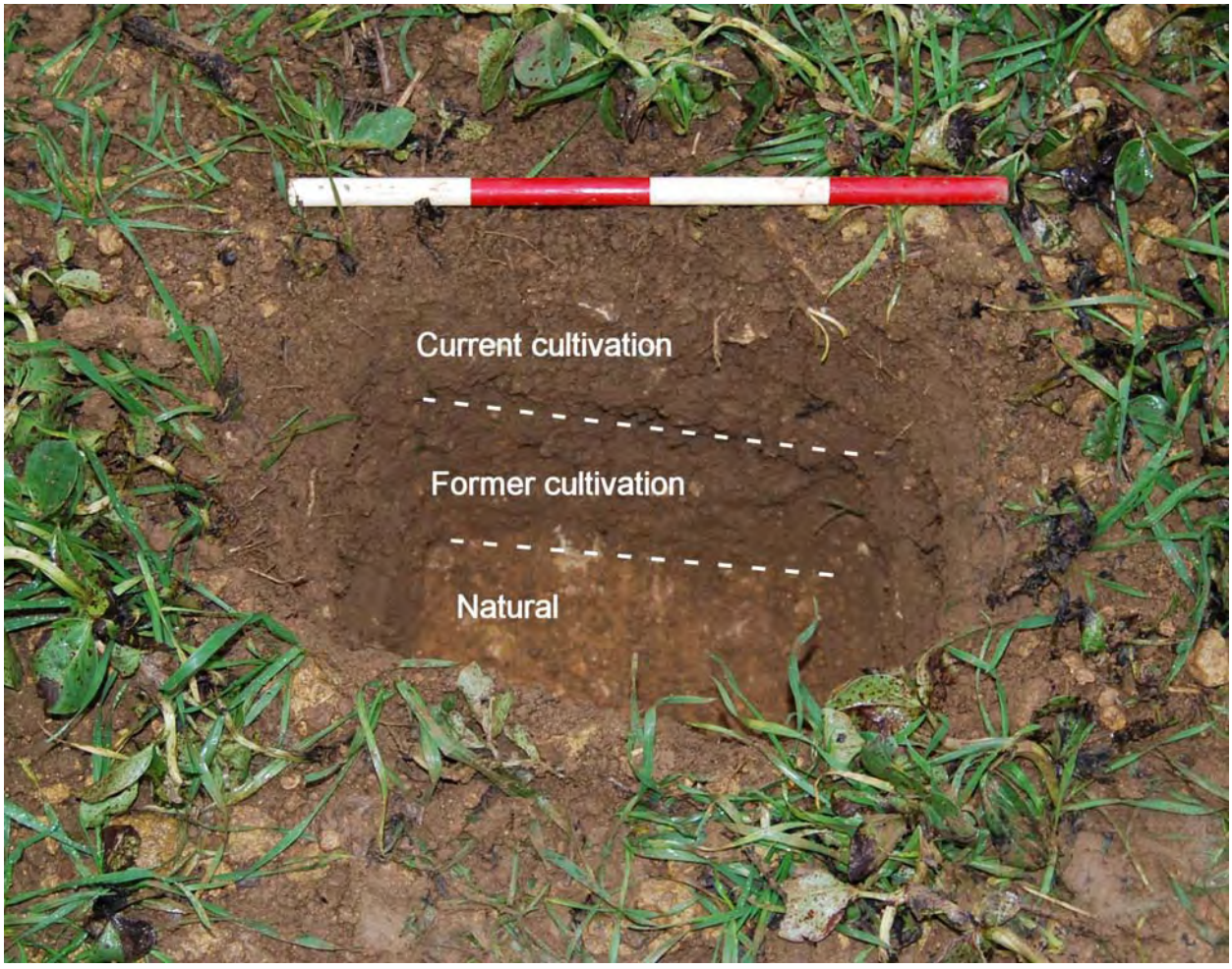
Orientation: NW – SE

Context	Classification	Description	Depth below ground surface	Artefacts
2600	Topsoil	Friable medium greyish brown silt loam with occasional small limestone fragments.	0-0.20m	
2601	Subsoil	Friable medium greyish brown silty loam with abundant limestone fragments.	0.20-0.28m	
2602	Natural	Friable medium-light orangey/reddish brown silty loam with abundant small to medium limestone fragments.	0.28m	
2603	Fill	Moderately compact medium orange brown silty loam with occasional small limestone fragments. Fill of [2604].	0.28m	
2604	Cut	Linear aligned approximately N – S; possible trackway.	0.28m	

Trench 26 facing south-east across trackway 2604


Fields 3273 and 5579
Lower Coppice
92
94
86
87
88
24
90
93
Horse Close
5579
89
Long Acre
3273
91
95
Path (um)
Track
Legend
Sample trenches
Cropmark interpretation
Test pits
N
0
25
50
100
150
200
Metres

Field 5579: Horse Close							
Test pits	**92**	**93**	**94**	**95**	**Range**		**Average**
					min	**max**	
Current cultivation	0.22	0.16	0.15	0.16	0.15	0.22	0.17
Former cultivation	0.10	0.16	0.17	0.14	0.10	0.17	0.14
Subsoil	0.10	>0.36	None	0.20	0.00	0.20	0.10
Natural	Unex	n/a	Unex	Unex			
Minimum buffer: 0.10							
Notes							
1) Depth of subsoil in test pit 93 suggests the fill of a natural hollow; it is not included in the average							
2) Low density scatter of modern pottery across field							
Slope: Moderate							
Soil group in relation to water erosion: Light							
Soil group in relation to wind erosion: Silts/sands							



Test pit 94 facing south (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 5579 **Field Name** Horse Close

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**..... **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....4 **B**..... **C**.....	
Initial score							12
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5						1.5
Initial score multiplied by weighting						A … B …. C ….	A ….18 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**…… **B**.....3 **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**.....4 **B**..... **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score					10
Weighting	Any of above in grey shaded box = 2				2
Initial score multiplied by weighting				A ……. B..... C.....	A …..20 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....2 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....2 **C**.....
Initial score						4
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1
Initial score multiplied by weighting						**A** … **B** …4 **C** …

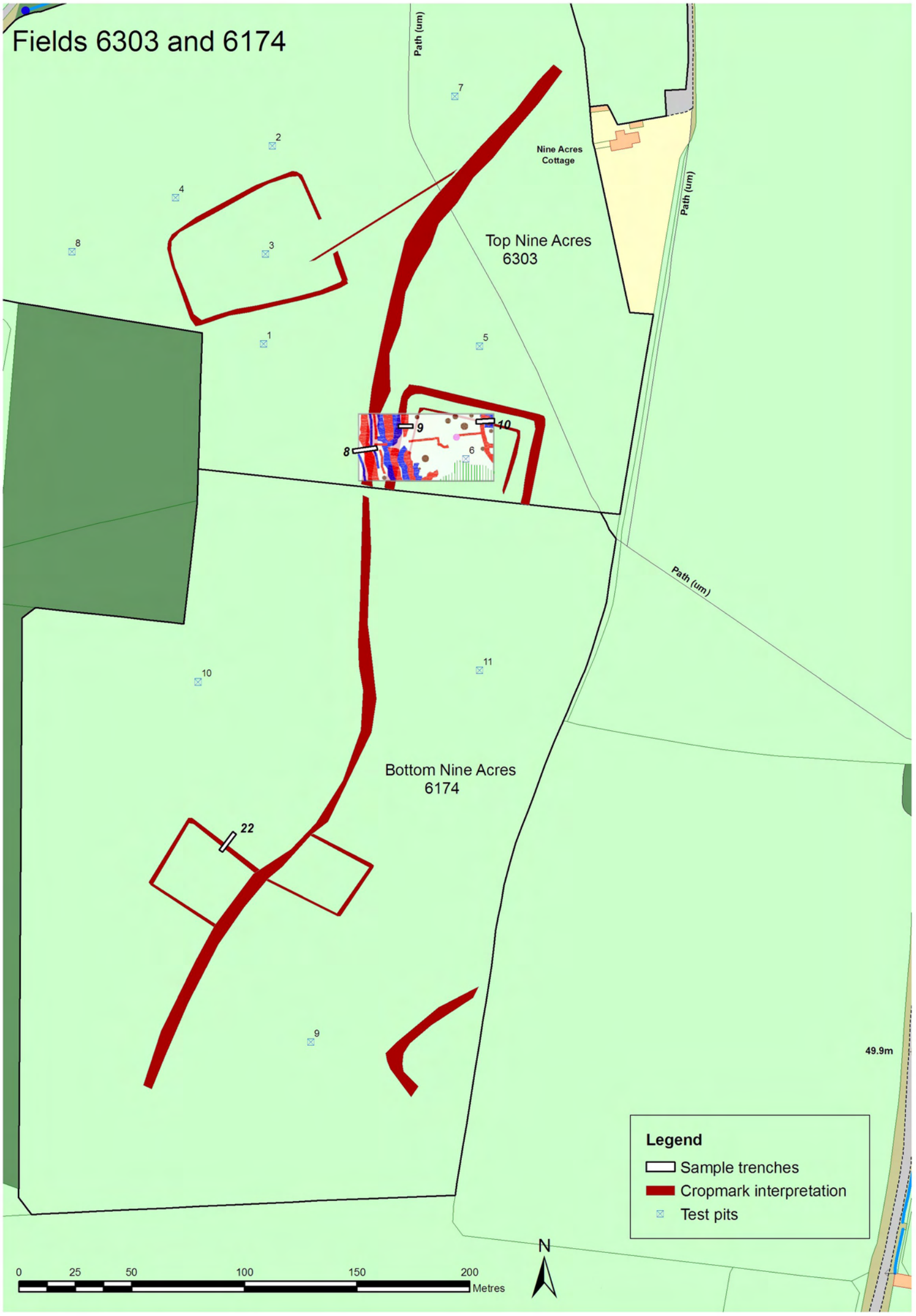
***Graded A-C according to quality of evidence**

Final risk score

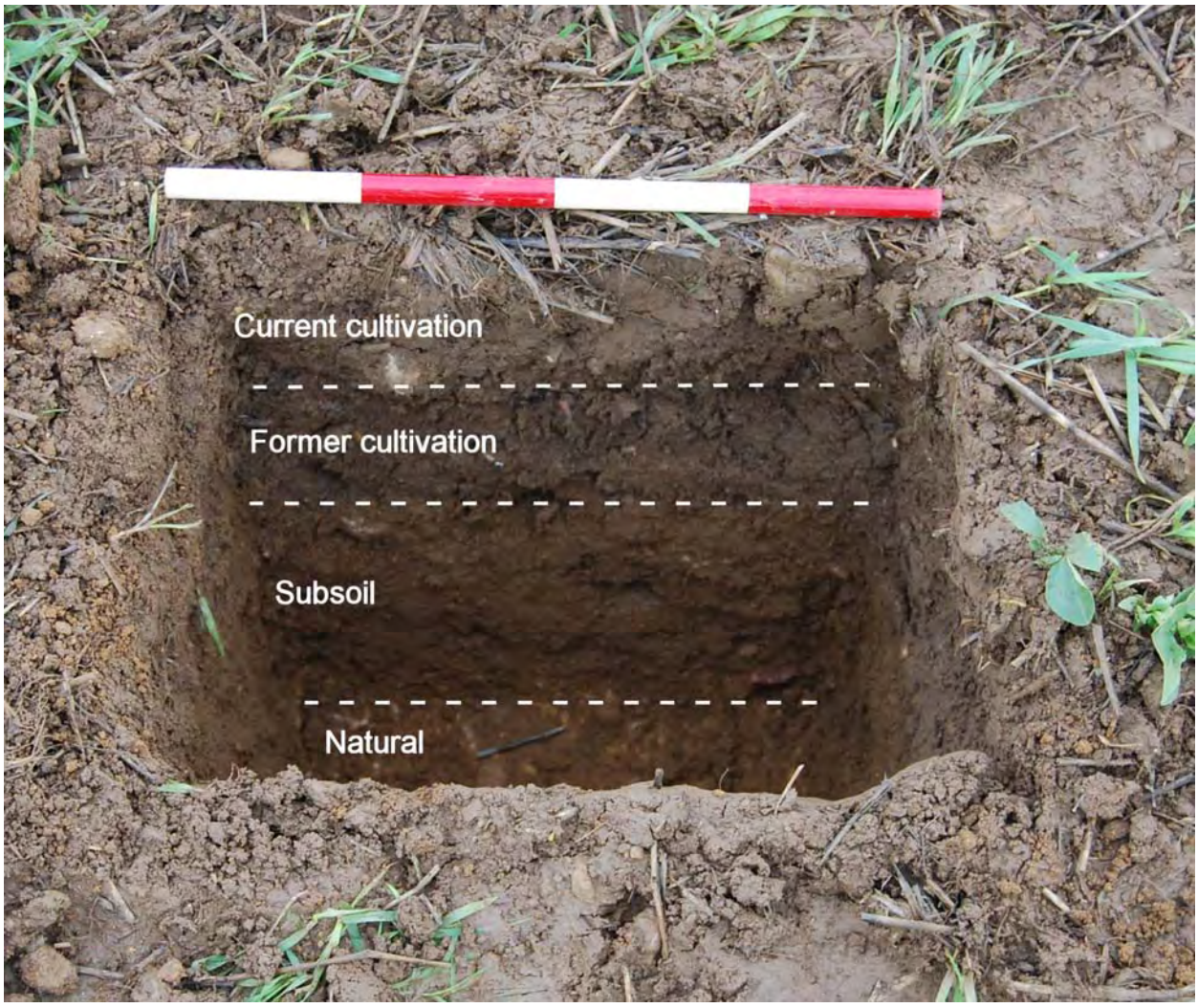
	Minimum tillage:combinable crops
Management factors (out of 50)	18
Site intrinsic factors (out of 30)	20
Archaeological factors (out of 20)	4
Final risk score (out of 100)	**42**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**


Fields 6303 and 6174
Path (um)
Nine Acres Cottage
Path (um)
Top Nine Acres
6303
Path (um)
Bottom Nine Acres
6174
49.9m
Legend
Sample trenches
Cropmark interpretation
Test pits
0
25
50
100
150
200
Metres
N

Field 6174: Bottom Nine Acres						
Test pits	**9**	**10**	**11**	**Range**		**Average**
				min	**max**	
Current cultivation	0.13	0.19	0.27	0.13	0.19	0.16
Former cultivation	0.12	0.10	Unclear	0.10	0.12	0.11
Subsoil	0.18	0.26	0.08	0.08	0.26	0.17
Natural	Unex	Unex	Unex			
Minimum buffer: 0.11						
Notes						
1) Distinction between upper and lower cultivation not clear in test pit 11						
2) Wide variation in depth of subsoil						
3) Low density modern pottery and tile						
Slope: Level ground						
Soil group in relation to water erosion: Light						
Soil group in relation to wind erosion: Silts/sands						



Test pit 9 facing east (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 6174 **Field Name** Botton Nine Acres

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**.....4 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**.....4 **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**.....5 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....4 **B**..... **C**.....	
Initial score						17	12
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5					2.5	1.5
Initial score multiplied by weighting						A …42.5 B …. C ….	A ….18 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……1 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**.....4 **B**..... **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**.....5 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score				10	8
Weighting	Any of above in grey shaded box = 2			2	1
Initial score multiplied by weighting				A …….20 B..... C.....	A …..8 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....3 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....3 **C**.....
Initial score						6
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1.3
Initial score multiplied by weighting						**A** … **B** …8 **C** …

***Graded A-C according to quality of evidence**

Final risk score

	Ploughing:potatoes	Minimum tillage:combinable crops
Management factors (out of 50)	42.5	18
Site intrinsic factors (out of 30)	20	8
Archaeological factors (out of 20)	8	8
Final risk score (out of 100)	**70.5**	**34**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**

Bottom Nine Acres (6174)

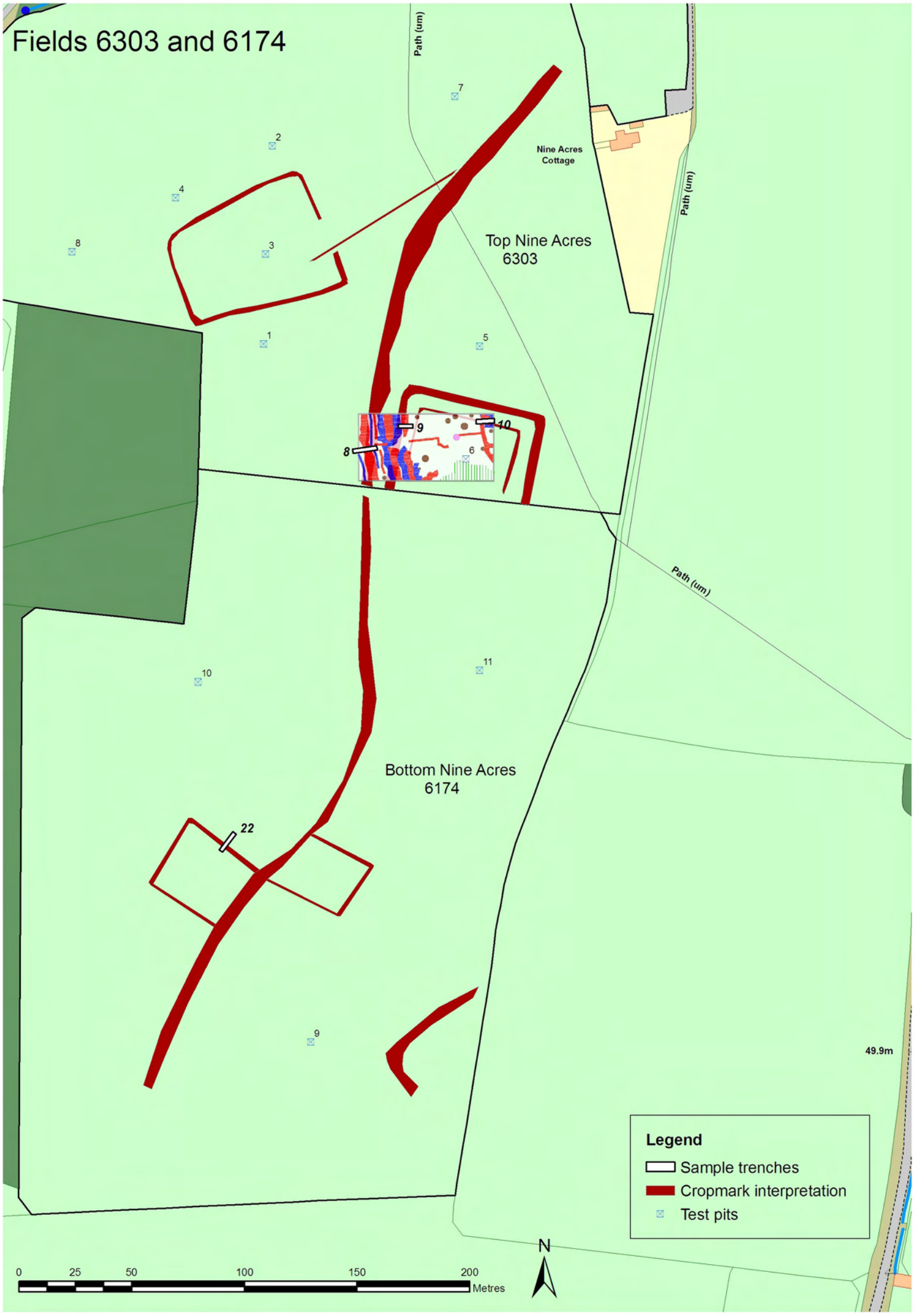
Trench 22

Maximum dimensions: Length: 10m Width: 1.90m Depth: 0.60m

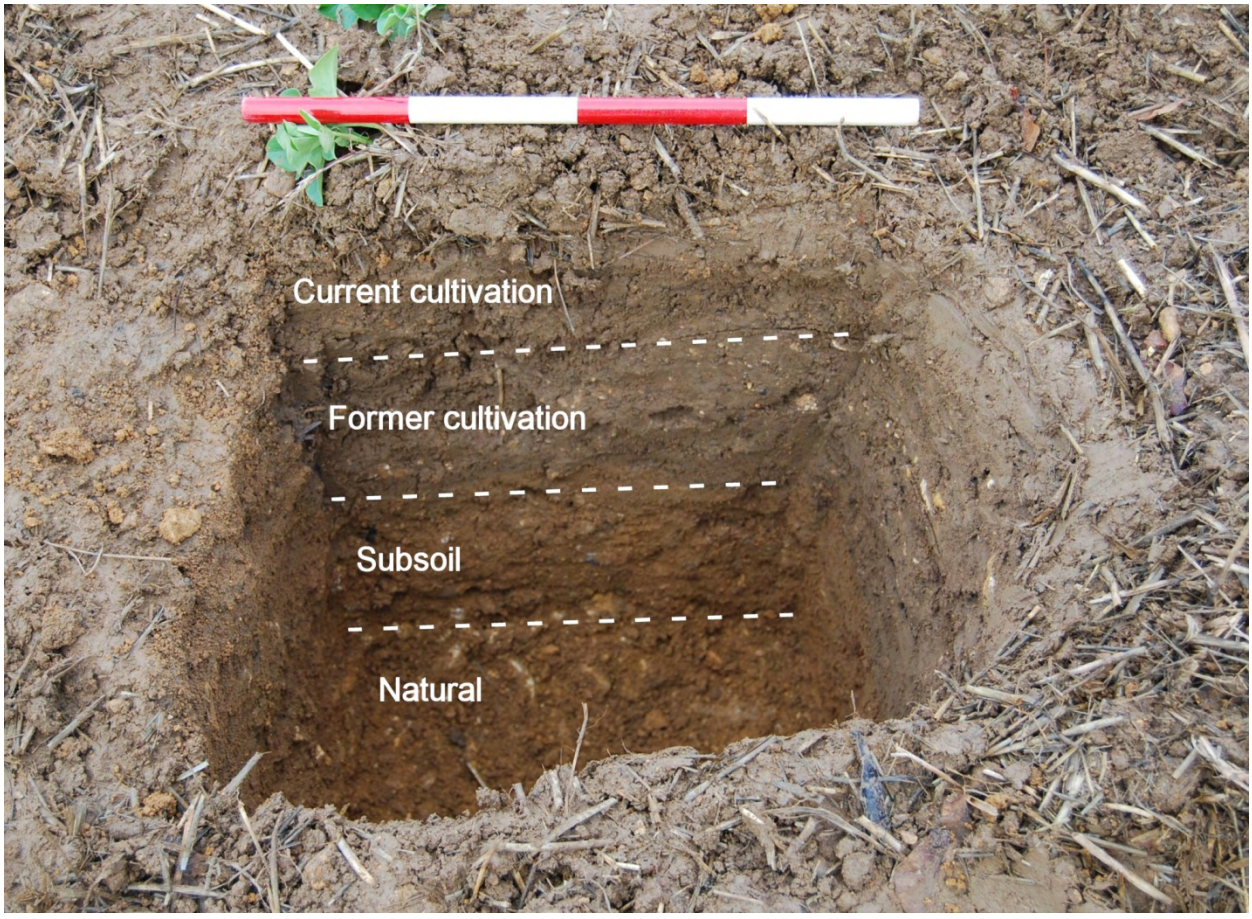
Orientation: NE – SW

Context	Classification	Description	Depth below ground surface	Artefacts
2200	Topsoil	Moderately compact medium greyish brown sandy silt loam with occasional small sub-angular stones and flecks of charcoal.	0-0.26m	
2201	Subsoil	Moderately compact medium yellowish brown sandy silt with moderate amounts of small to medium sub-angular stones.	0.26-0.35m	
2202	Natural	Compact light greyish yellow limestone brash material.	0.35m	
2203	Fill	Friable medium yellowish brown sandy silt with frequent small to medium sub-angular stones and rare charcoal flecks. Fill of pit [2204].	0.35m	Four fragments of pottery or fired clay, possibly prehistoric (4g)
2204	Cut	Pit.	0.35m	
2205	Fill	Friable medium yellowish brown sandy silt with frequent small sub-angular stones and occasional charcoal flecks. Fill of [2206].	0.35m	
2206	Cut	Pit.	0.35m	
2207	Fill	Friable light grey brown sandy silt. Contains moderate amounts of charcoal flecks and frequent small to medium sub-angular stones. Fill of linear feature [2208].	0.27m	
2208	Cut	Linear feature.	0.27m	

Trench 22 facing north-east across pits 2206 and 2208


Fields 6303 and 6174
Path (um)
Nine Acres Cottage
Path (um)
Top Nine Acres
6303
Path (um)
Bottom Nine Acres
6174
49.9m
Legend
Sample trenches
Cropmark interpretation
Test pits
0
25
50
100
150
200
Metres
N

Field 6303: Top Nine Acres											
Test pits	1	2	3	4	5	6	7	8	**Range**		**Average**
									min	**max**	
Current cultivation	0.13	0.20	0.19	0.17	0.19	0.20	0.20	0.20	0.13	0.20	0.19
Former cultivation	0.17	0.10	0.13	0.10	0.07	0.07	0.12	0.14	0.07	0.17	0.11
Subsoil	0.15	0.10	0.07	0.08	0.06	0.13	0.13	0.14	0.06	0.15	0.11
Natural	Unex	Unex	Unex	Unex	Unex	Unex	Unex	Unex			
Minimum buffer: 0.11											
Slope: Level ground											
Soil group in relation to water erosion: Moderate											
Soil group in relation to wind erosion: Loams											



Test pit 1 (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 6303 **Field Name** Top Nine Acres

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**.....3 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**.....4 **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**.....5 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....4 **B**..... **C**.....	
Initial score						16	12
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5					2.5	1
Initial score multiplied by weighting						A …40 B …. C ….	A ….12 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……1 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**..... **B**.....3 **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**.....5 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score				9	7
Weighting	Any of above in grey shaded box = 2			2	1
Initial score multiplied by weighting				A …….18 B..... C.....	A …..7 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....4 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....3 **C**.....
Initial score						7
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1.5
Initial score multiplied by weighting						**A** … **B** …10.5 **C** …

***Graded A-C according to quality of evidence**

Final risk score

	Ploughing:potatoes	Minimum tillage:combinable crops
Management factors (out of 50)	40	12
Site intrinsic factors (out of 30)	18	7
Archaeological factors (out of 20)	10.5	10.5
Final risk score (out of 100)	**68.5**	**29.5**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**

Top Nine Acres (6303)

Trench 8

Maximum dimensions: Length: 11m Width: 1.88m Depth: 0.65m

Orientation: E – W

Context	Classification	Description	Depth below ground surface	Artefacts
800	Topsoil	Moderately compact medium grey brown silty loam with occasional limestone pieces. Sharp and smooth lower boundary to (801).	0-0.29m	
801	Subsoil	Compact medium reddish orange silty loam with occasional limestone fragments. Sharp and smooth boundary with natural (804).	0.29-0.65m	One sherd of possible Roman Severn Valley Ware (6g).
802	Fill	Compact medium pinkish/greyish brown silty loam with occasional limestone fragments. Fill of feature [803].		
803	Cut	Linear feature, orientated N-S, unexcavated. Appears to be the trackway indicated by crop marks and geophysics, 7m wide.		
804	Natural	Small to medium limestone fragments in a medium yellowish brown silty loam matrix.	0.65m +	
805	Fill	Compact medium pinkish/greyish brown silty loam. Fill of linear feature [806].		
806	Cut	N-S orientated linear feature at east end of trench, unexcavated, 1.25m wide.		

Trench 9

Maximum dimensions: Length: 6.40m Width: 1.90m Depth: 0.48m

Orientation: E – W

Context	Classification	Description	Depth below ground surface	Artefacts
900	Topsoil	Compact dark brown silty loam with occasional small to medium sub-angular stones.	0-0.26m	
901	Natural	Light brownish yellow limestone	0.46m +	

Context	Classification	Description	Depth below ground surface	Artefacts
		brash.		
902	Fill	Compact medium yellowish brown silt loam with moderate amounts of small-large angular limestone fragments. Fill of ditch [904].	0.26m	Three pieces of fired clay, possibly Roman (47g).
903	Deposit	Compact medium yellowish brown sandy silt loam with moderate amounts of small to large angular limestone fragments. Bank material.	0.26-0.46m	
904	Cut	Ditch	0.26m	

Trench 10

Maximum dimensions: Length: 8m Width: 1.90m Depth: 0.50m

Orientation: E – W

Context	Classification	Description	Depth below ground surface	Artefacts
1000	Topsoil	Moderately compact medium grey brown silty loam with occasional small to medium sub-angular limestone pieces. Clear boundary to (1001).	0-0.28m	
1001	Subsoil	Moderately compact medium yellow brown clay silt loam with frequent small sub-angular limestone fragments. Boundary to (1002) diffuse and unclear.	0.28-0.37m	
1002	Natural	Moderately compact light brownish yellow clay silt loam with very frequent small to medium sub-angular limestone fragments.	0.37m +	
1003	Fill	Moderately compact medium yellowish grey silty clay loam with occasional small sub-angular stones. Upper fill of pit [1004].		One sherd late Iron Age pottery (11g).
1004	Cut	Pit		
1005	Fill	Moderately compact medium grey brown silty clay loam with occasional sub-angular limestone pieces. Fill of ditch [1006].		

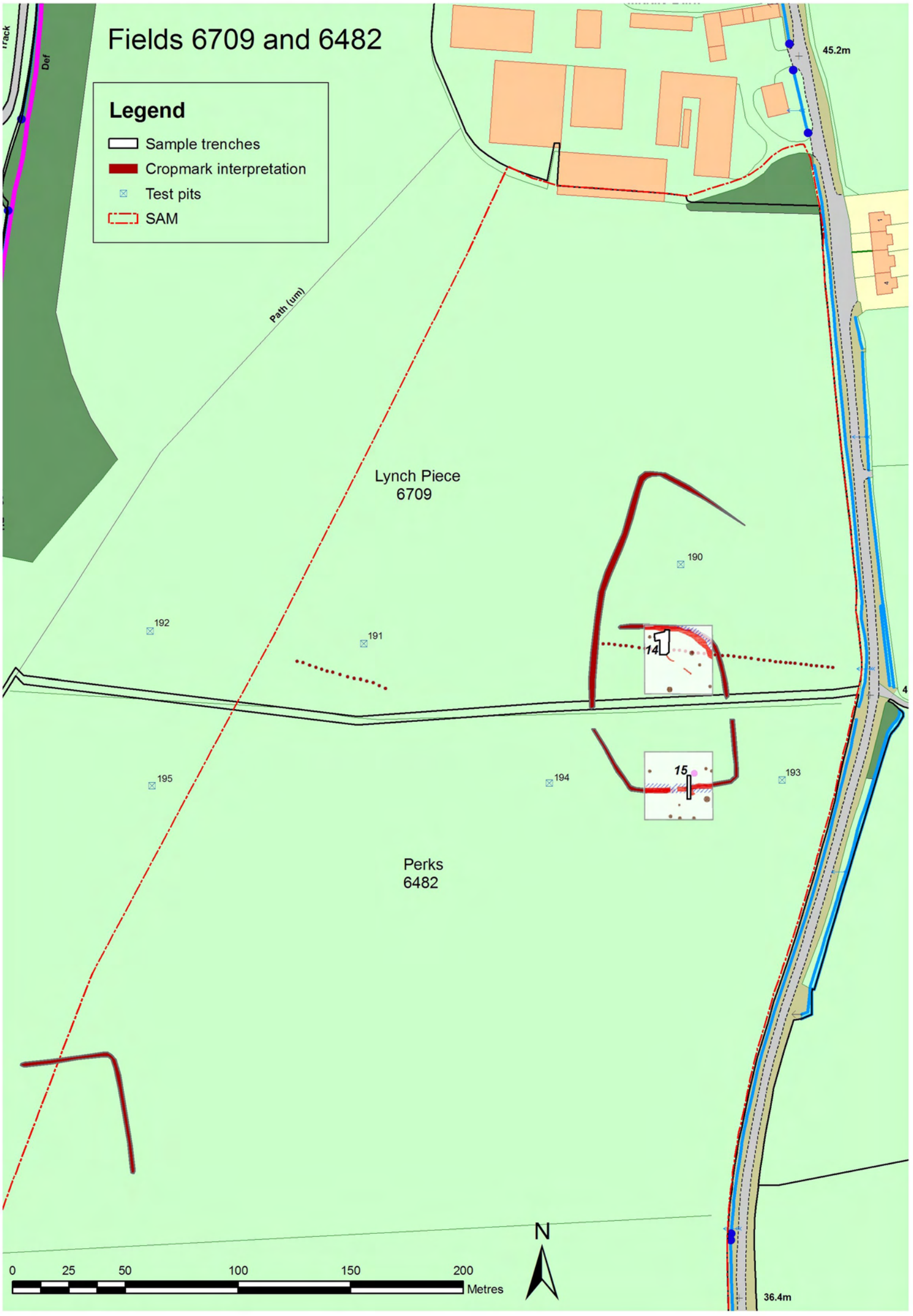
Context	Classification	Description	Depth below ground surface	Artefacts
1006	Cut	Ditch cut, unexcavated. Appears to turn from N-S to E-W in this trench.		
1007	Fill	Moderately compact medium reddish brown sandy silt loam with frequent small to medium limestone fragments and occasional charcoal flecks. Middle fill of pit [1004].		
1008	Fill	Moderately compact medium grey brown sandy silt loam with similar inclusions to (1007). Lower fill of pit [1004].		One sherd Iron Age pottery (6g), one piece oolitic limestone building material (8g), one snail shell (1g).

Trench 8: North facing section

Trench 9 facing west across ditch 904

Trench 10 facing west across pit 1004 and ditch 1006

North facing section of pit 1004


Fields 6709 and 6482
Legend
Sample trenches
Cropmark interpretation
Test pits
SAM
Track
Def
Path (um)
45.2m
Lynch Piece
6709
190
192
191
14
195
194
15
193
Perks
6482
N
0
25
50
100
150
200
Metres
36.4m

Field 6482: Perks (SAM 215)						
Test pits	**193**	**194**	**195**	**Range**		**Average**
				min	**max**	
Current cultivation	0.16	0.22	0.27	0.16	0.27	0.21
Former cultivation	0.10	0.10	0.22	0.10	0.22	0.14
Subsoil	0.09	0.28	0.11	0.09	0.28	0.16
Natural	>0.13	Unexc.	Unexc.			
Minimum buffer: 0.14						
Notes						
1) Deep subsoil in test pit 195 included in average						
Slope: Gentle						
Soil group in relation to water erosion: Moderate						
Soil group in relation to wind erosion: Loams						

Test pit 193 facing west (scale divisions at 0.50m)

COSMIC Assessment Sheet – Land Parcel 6482 **Field Name** Perks

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**.....5 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**.....4 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**.....5 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....2 **B**..... **C**.....	
Initial score						16	11
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5					2.5	1
Initial score multiplied by weighting						A …40 B …. C ….	A ….11 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……1 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**..... **B**.....3 **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**.....5 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score				9	7
Weighting	Any of above in grey shaded box = 2			2	1
Initial score multiplied by weighting				A …….18 B..... C.....	A …..7 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....4 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....4 **C**.....
Initial score						8
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1.5
Initial score multiplied by weighting						**A** … **B** …12 **C** …

***Graded A-C according to quality of evidence**

Final risk score

	Ploughing:potatoes	Minimum tillage:combinable crops
Management factors (out of 50)	40	11
Site intrinsic factors (out of 30)	18	7
Archaeological factors (out of 20)	12	12
Final risk score (out of 100)	**70**	**30**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**

Perks (6482)

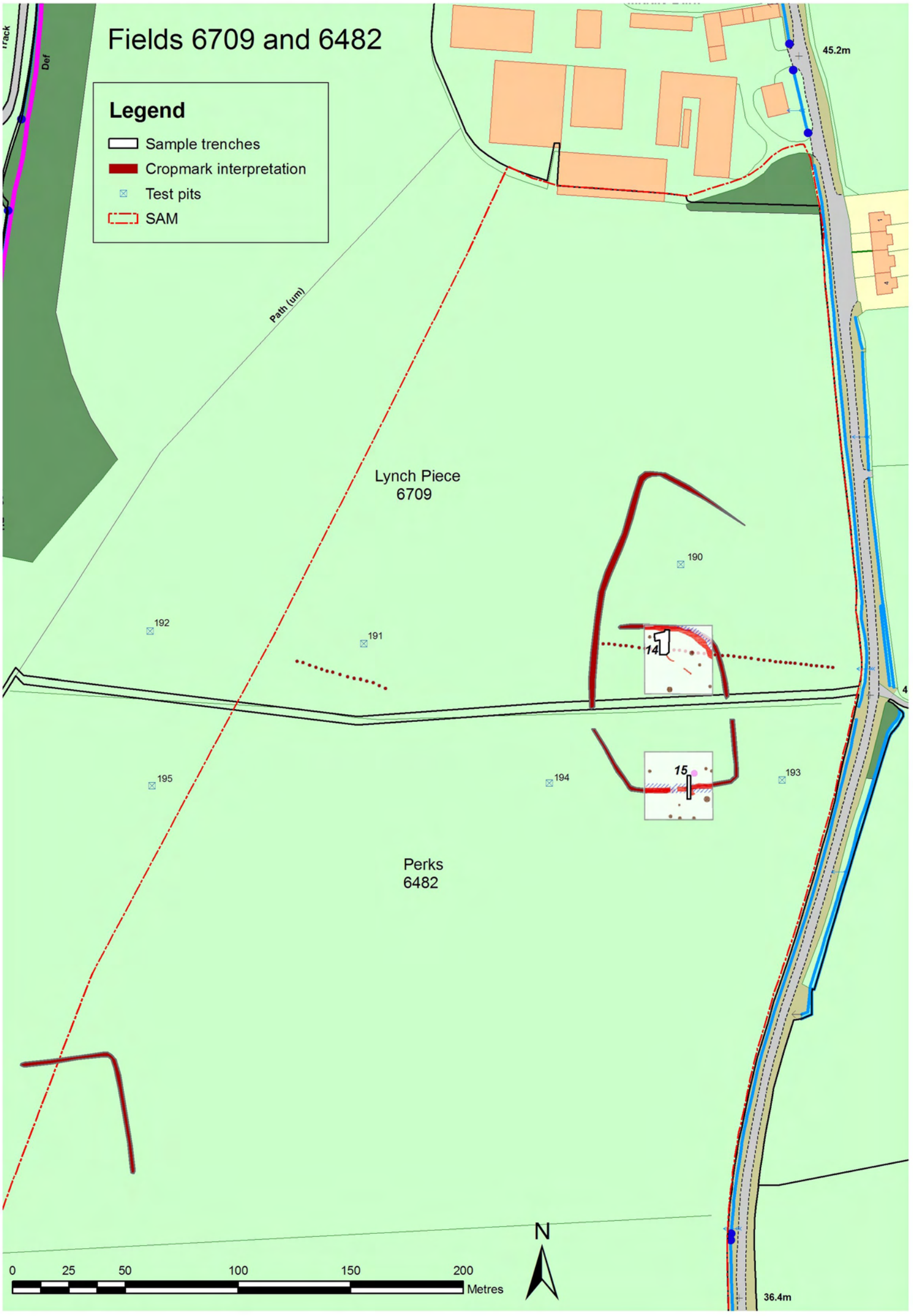
Trench 15

Maximum dimensions: Length: 10.5m Width: 1.85m Depth: 0.30m

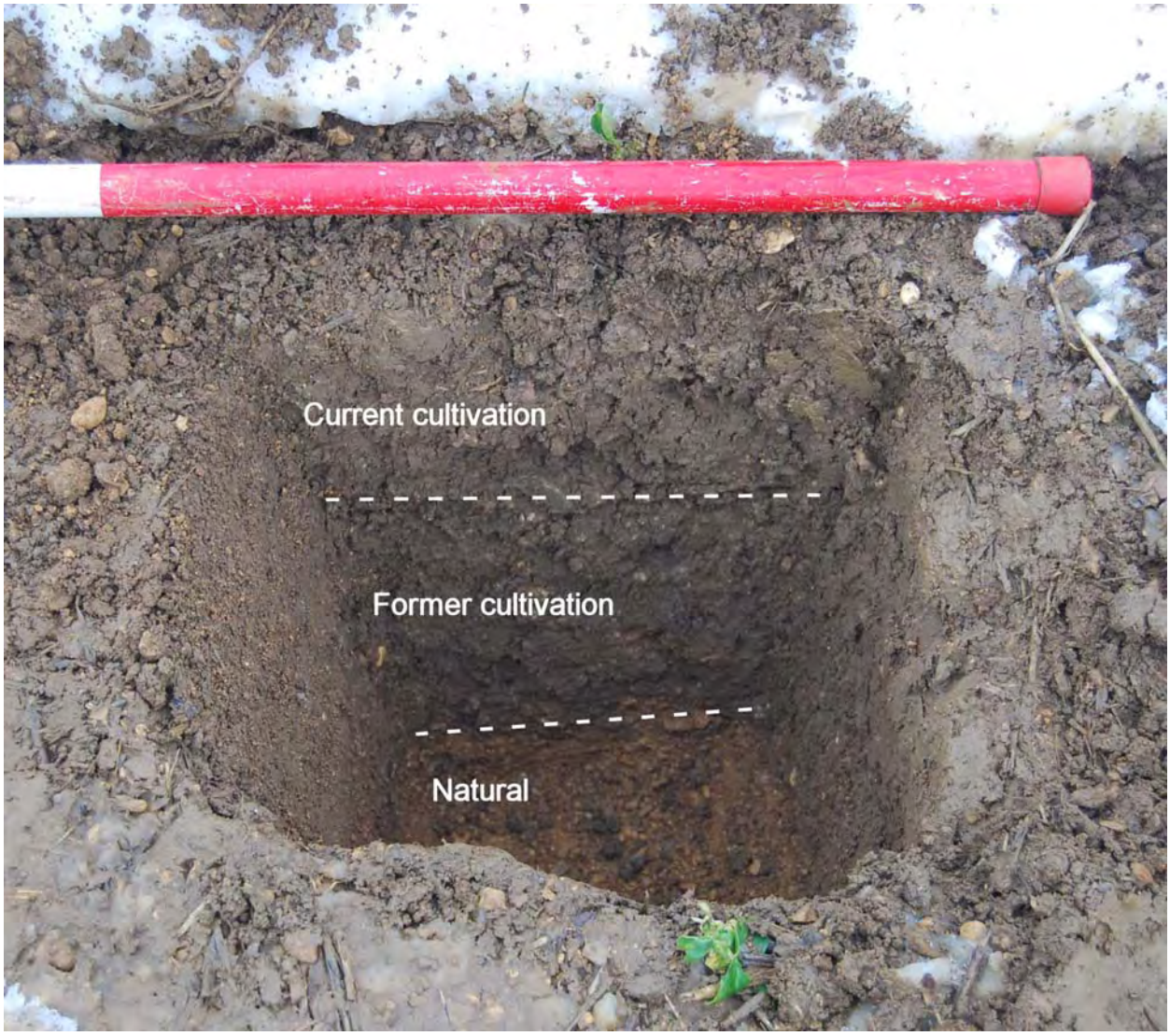
Orientation: N – S

Context	Classification	Description	Depth below ground surface	Artefacts
1500	Topsoil	Compact medium brown sandy silt with frequent small to medium sub-rounded and sub-angular stones.	0-0.30m	
1501	Natural	Loose light to medium brownish yellow and yellow grey sand and gravel with silt.	0.30m	
1502	Fill	Compact medium yellow brown sandy silt with moderate amounts of small to large sub-rounded and sub-angular stones. Fill of ditch [1503].	0.30-0.55m	
1503	Cut	Ditch.	0.30m	
1504	Fill	Same as (1502) but with more frequent stones.		
1505	Cut	Ditch.		

Trench 15 facing south across ditches 1503 and 1505


Fields 6709 and 6482
Legend
Sample trenches
Cropmark interpretation
Test pits
SAM
Track
Def
Path (um)
45.2m
Lynch Piece
6709
190
192
191
14
195
194
15
193
Perks
6482
N
0
25
50
100
150
200
Metres
36.4m

Field 6709: Lynch Piece (SAM 215)						
Test pits	**190**	**191**	**192**	**Range**		**Average**
				min	**max**	
Current cultivation	0.18	0.15	0.18	0.15	0.18	0.17
Former cultivation	0.20	0.14	0.14	0.14	0.20	0.16
Subsoil	None	None	0.25			
Natural	>0.04	>0.11	Unex			
Minimum buffer: 0.14						
Notes						
1) Subsoil not observed in east part of site						
Slope: Level ground						
Soil group in relation to water erosion: Light						
Soil group in relation to wind erosion: Silts/sands						



Test pit 190 facing north (scale divisions at 0.50m)

COSMIC Assessment Sheet – Land Parcel 6709 **Field Name** Lynch Piece

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**.....5 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**.....4 **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**.....5 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....4 **B**..... **C**.....	
Initial score						18	12
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5					2.5	1.5
Initial score multiplied by weighting						A …45 B …. C ….	A ….18 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……1 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**.....4 **B**..... **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**.....5 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score				10	8
Weighting	Any of above in grey shaded box = 2			2	1
Initial score multiplied by weighting				A …….20 B..... C.....	A …..8 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....4 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....4 **C**.....
Initial score						8
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1.5
Initial score multiplied by weighting						**A** … **B** …12 **C** …

***Graded A-C according to quality of evidence**

Final risk score

	Ploughing:potatoes	Minimum tillage:combinable crops
Management factors (out of 50)	45	18
Site intrinsic factors (out of 30)	20	8
Archaeological factors (out of 20)	12	12
Final risk score (out of 100)	**77**	**38**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**

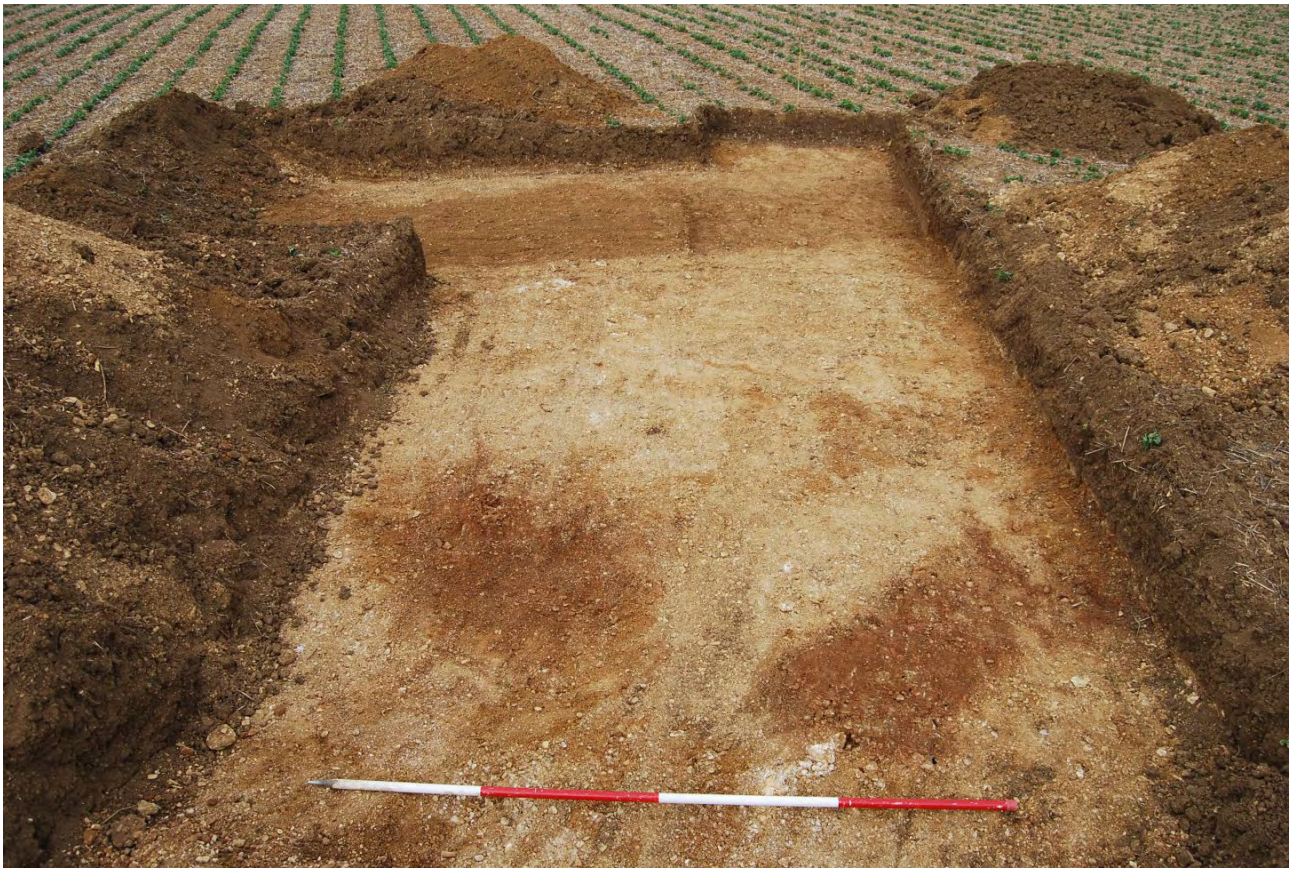
Lynch Piece (6709)

Trench 14

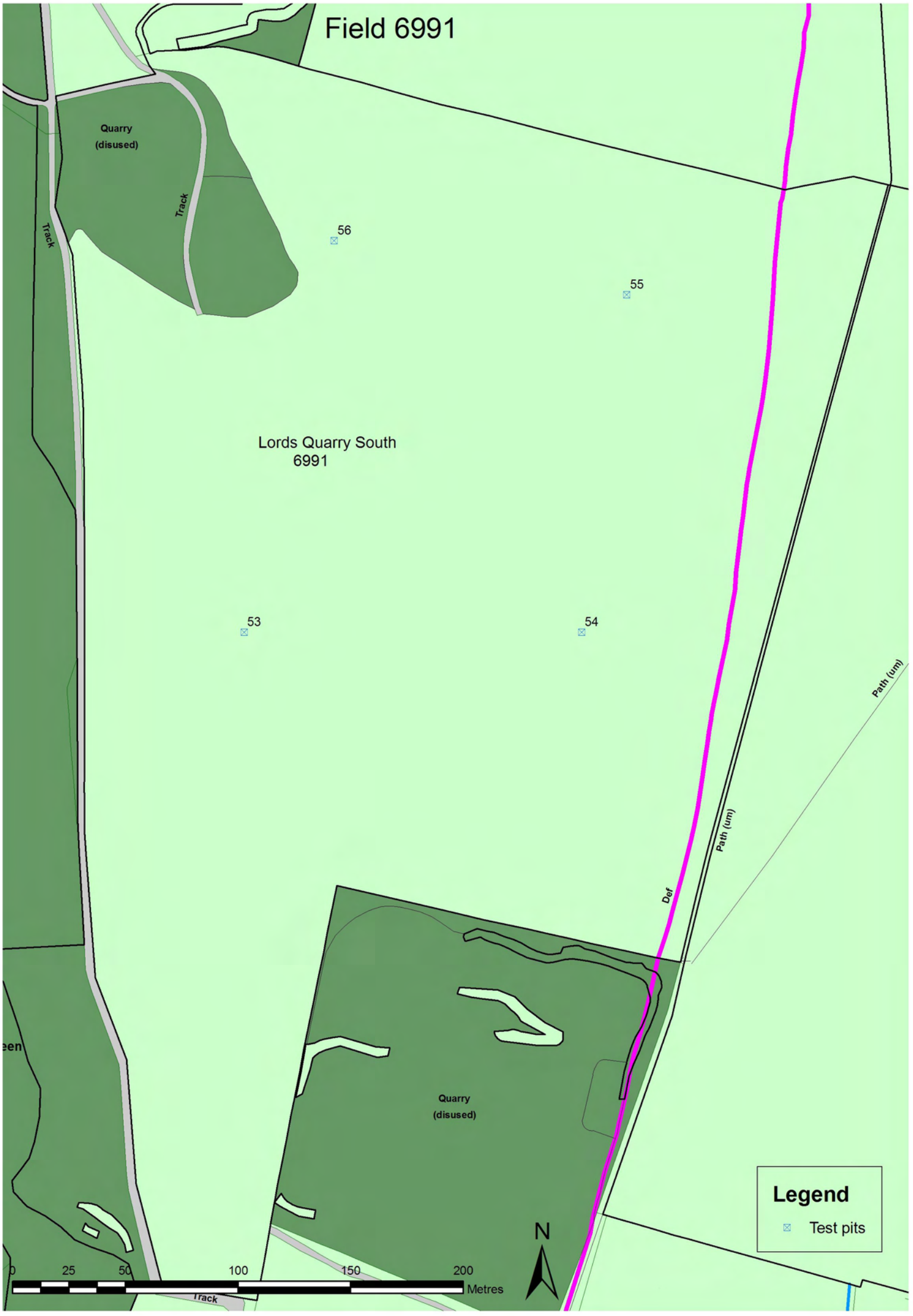
Maximum dimensions: Length: 10m Width: 5.90m Depth: 0.45m

Orientation: NNE – SSW

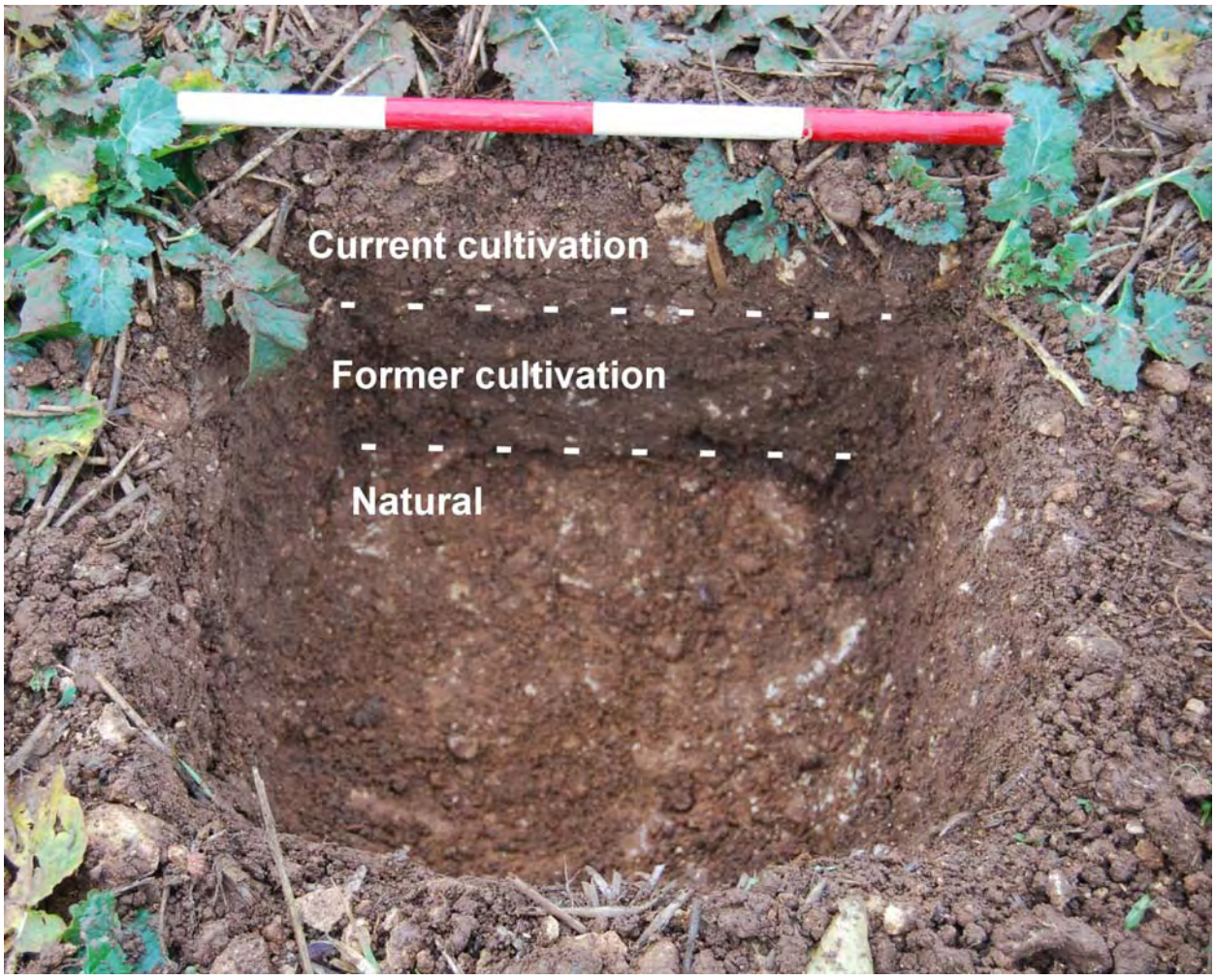
Context	Classification	Description	Depth below ground surface	Artefacts
1400	Topsoil	Compact medium brown sandy silt with frequent small to medium sub-rounded and sub-angular stones.	0-0.30m	
1401	Natural	Loose light to medium brownish yellow and yellow grey sand and gravel with silt.	0.30m	
1402	Fill	Compact medium yellow brown sandy silt with frequent small to large sub-rounded and sub-angular stones. Fill of ditch [1403].	0.30m	One sherd of 18th century stoneware (7g);one fragment of post-medieval brick/tile (38g)
1403	Cut	Ditch.	0.30m	
1404	Fill	Amorphous deposit, similar to 1402	0.30m	
1405	Cut	Pit or bioturbation.	0.30m	
1406	Fill	As 1402.	0.30m	
1407	Cut	As 1405.	0.30m	



Trench 14 facing north across pit 1405, pit 1407, and ditch 1403


Field 6991
Quarry
(disused)
Track
Track
56
55
Lords Quarry South
6991
53
54
Path (um)
Def
Path (um)
Quarry
(disused)
Track
0
25
50
100
150
200
Metres
N
Legend
Test pits

Field 6991: Lord's Quarry South							
Test pits	**53**	**54**	**55**	**56**	**Range**		**Average**
					min	**max**	
Current cultivation	0.09	0.12	0.10	0.09	0.09	0.12	0.10
Former cultivation	0.17	0.18	0.12	0.16	0.12	0.18	0.16
Subsoil	None	None	None	None			
Natural	Unex	Unex	Unex	Unex			
Minimum buffer: 0.12							
Slope: Moderate							
Soil group in relation to water erosion: Light							
Soil group in relation to wind erosion: Silts/sands							



Test Pit 56 facing west (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 6991 **Field Name** Lords Quarry South

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**.....4 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**.....2 **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**.....3 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....2 **B**..... **C**.....	
Initial score						11	10
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5					1.5	1
Initial score multiplied by weighting						A …16.5 B …. C ….	A ….10 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……3 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**.....4 **B**..... **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score					10
Weighting	Any of above in grey shaded box = 2				2
Initial score multiplied by weighting				A ……. B..... C.....	A …..20 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....3 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....2 **C**.....
Initial score						5
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1
Initial score multiplied by weighting						**A** … **B** …5 **C** …

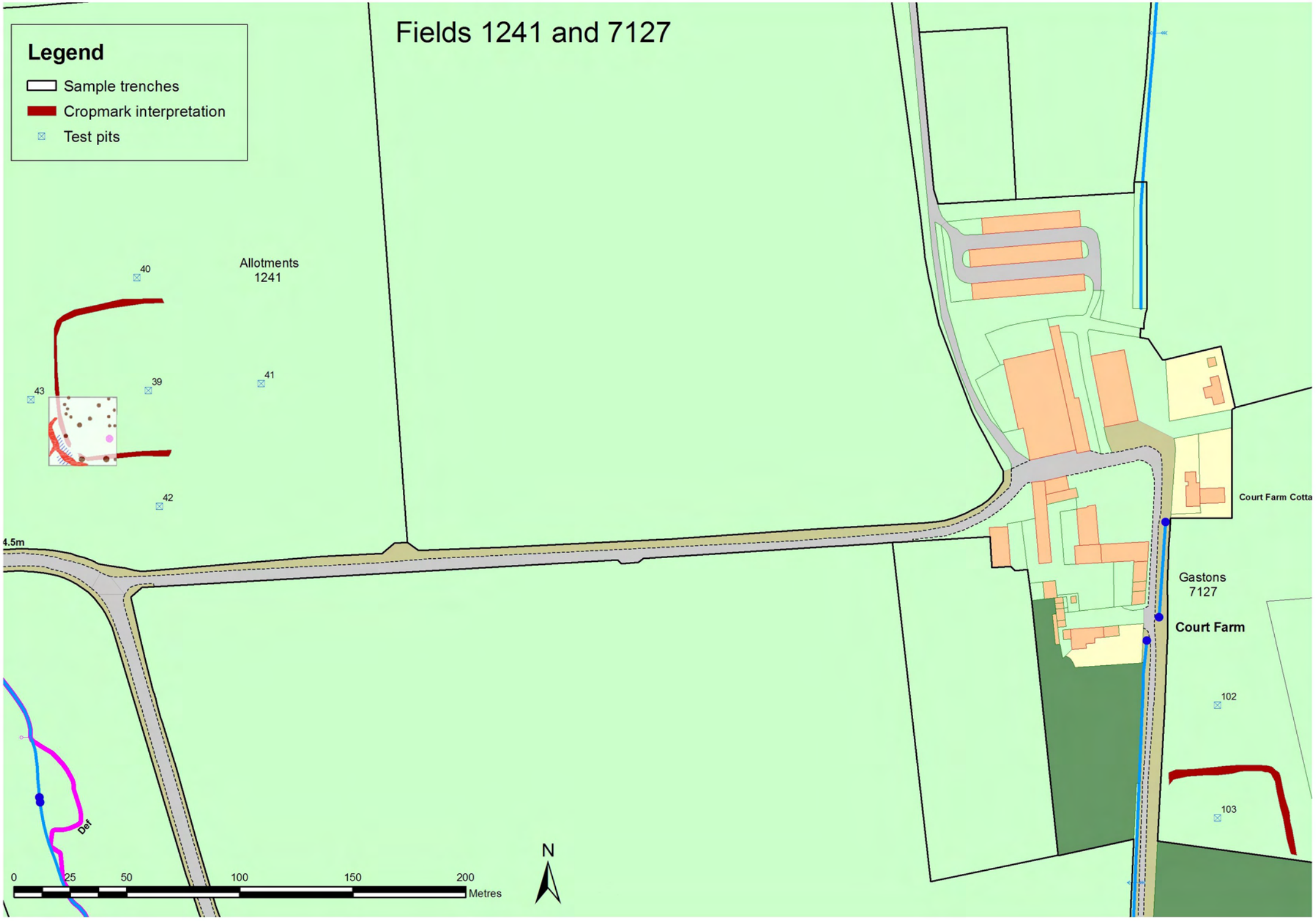
***Graded A-C according to quality of evidence**

Final risk score

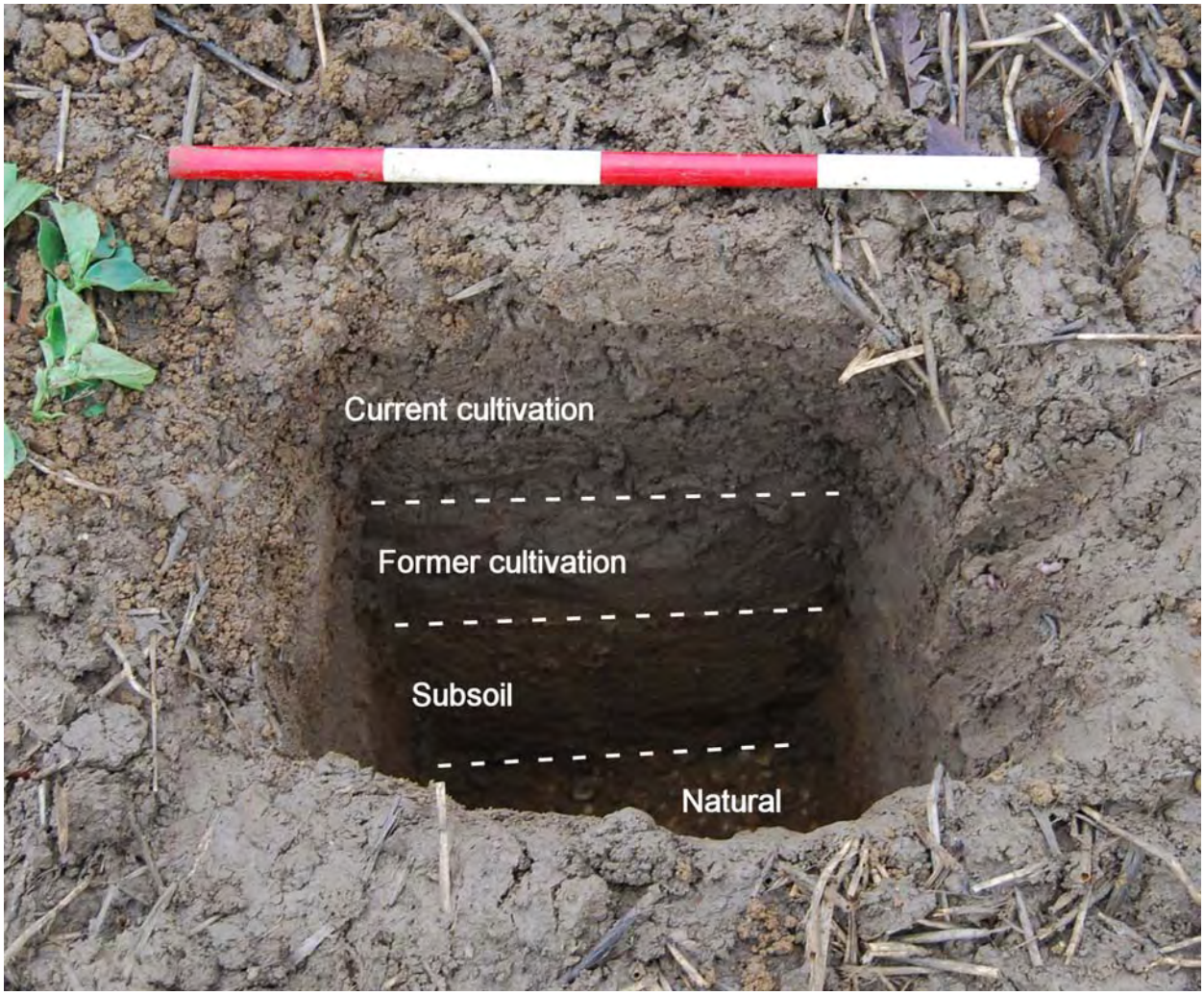
	Ploughing:combinable crops	Minimum tillage:combinable crops
Management factors (out of 50)	16.5	10
Site intrinsic factors (out of 30)	20	20
Archaeological factors (out of 20)	5	5
Final risk score (out of 100)	**41.5**	**35**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**


Fields 1241 and 7127
Legend
Sample trenches
Cropmark interpretation
Test pits
Allotments
1241
40
41
39
43
42
4.5m
Gastons
7127
Court Farm
Court Farm Cotta
102
103
Def
0
25
50
100
150
200
Metres
N

Field 7127: Gastons					
Test pits	**102**	**103**	**Range**		**Average**
			min	**max**	
Current cultivation	0.19	0.12	0.12	0.19	0.16
Former cultivation	0.13	0.20	0.13	0.20	0.17
Subsoil	0.20	0.28	0.20	0.28	0.24
Natural	Unex	Unex			
Minimum buffer: 0.17					
Notes					
1) Some flints in south-west corner; diffuse scatter of modern pottery and tile					
Slope: Gentle					
Soil group in relation to water erosion: Moderate					
Soil group in relation to wind erosion: Loams					



Test pit 102 facing north (scale divisions at 0.50m)

COSMIC Assessment Sheet – Land Parcel 7127 **Field Name** Gastons

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**.....3 **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**.....2 **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**.....3 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....2 **B**..... **C**.....	
Initial score						10	9
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5					1	1
Initial score multiplied by weighting						A …10 B …. C ….	A ….9 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……2 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**.....3 **B**..... **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score					8
Weighting	Any of above in grey shaded box = 2				1
Initial score multiplied by weighting				A ……. B..... C.....	A …..8 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....2 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....2 **C**.....
Initial score						4
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1
Initial score multiplied by weighting						**A** … **B** …4 **C** …

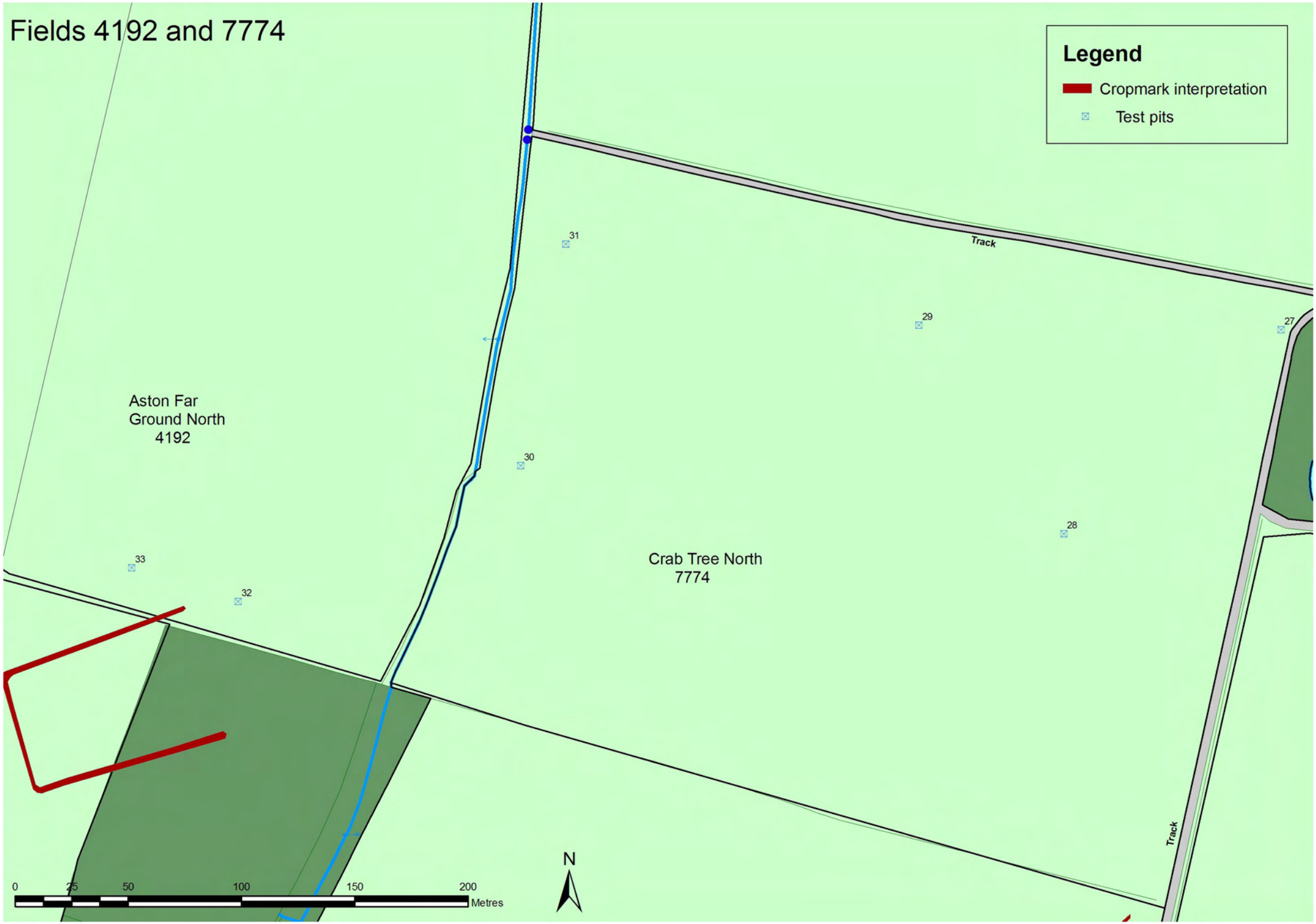
***Graded A-C according to quality of evidence**

Final risk score

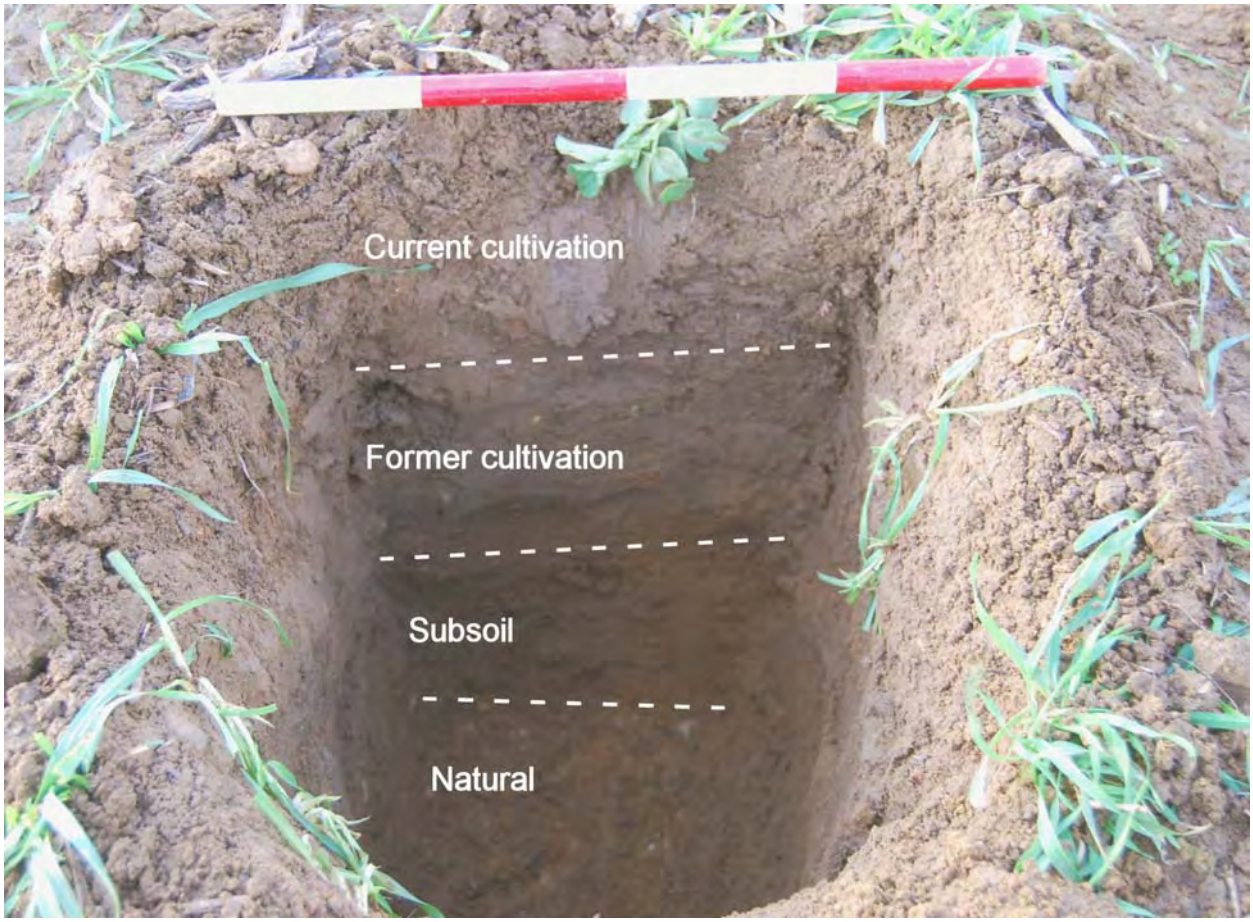
	Ploughing:combinable crops	Minimum tillage:combinable crops
Management factors (out of 50)	10	9
Site intrinsic factors (out of 30)	8	8
Archaeological factors (out of 20)	4	4
Final risk score (out of 100)	**22**	**21**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**


Fields 4192 and 7774
Legend
Cropmark interpretation
Test pits
Track
Track
31
29
27
30
28
33
32
Aston Far
Ground North
4192
Crab Tree North
7774
N
0
25
50
100
150
200
Metres

Field 7774: Crab Tree North								
Test pits	**27**	**28**	**29**	**30**	**31**	**Range**		**Average**
						min	**max**	
Current cultivation	0.25	0.15	0.15	0.12	0.16	0.12	0.16	0.14
Former cultivation	Unclear	0.11	0.18	0.17	0.16	0.11	0.18	0.17
Subsoil	>0.39	none	0.18	>0.65	0.26	0.00	>0.65	
Natural	Unex	Unex	Unex	Unex	Unex			
Minimum buffer: 0.17								
Notes								
1) Average depth of subsoil difficult to ascertain due to quarrying in various parts of field producing variable depths								
2) Low density scatter of modern brick and tile								
3) Test pits 27 and 28 appear to be in an area of former quarrying and have anomalous soil profiles; therefore they are not included in the assessment								
Slope type: Level ground								
Soil type in relation to water erosion: Moderate								
Soil type in relation to wind erosion: Loams								



Test pit 29 facing west (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 7774 **Field Name** Crab Tree North

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**..... **B**..... **C**.....	**A**..... **B**.....2 **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**..... **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....4 **B**..... **C**.....	
Initial score							11
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5						1.5
Initial score multiplied by weighting						A … B …. C ….	A ….16.5 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**…… **B**.....1 **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**.....3 **B**..... **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score					7
Weighting	Any of above in grey shaded box = 2				1
Initial score multiplied by weighting				A ……. B..... C.....	A …..7 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....3 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....2 **C**.....
Initial score						5
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1
Initial score multiplied by weighting						**A** … **B** …5 **C** …

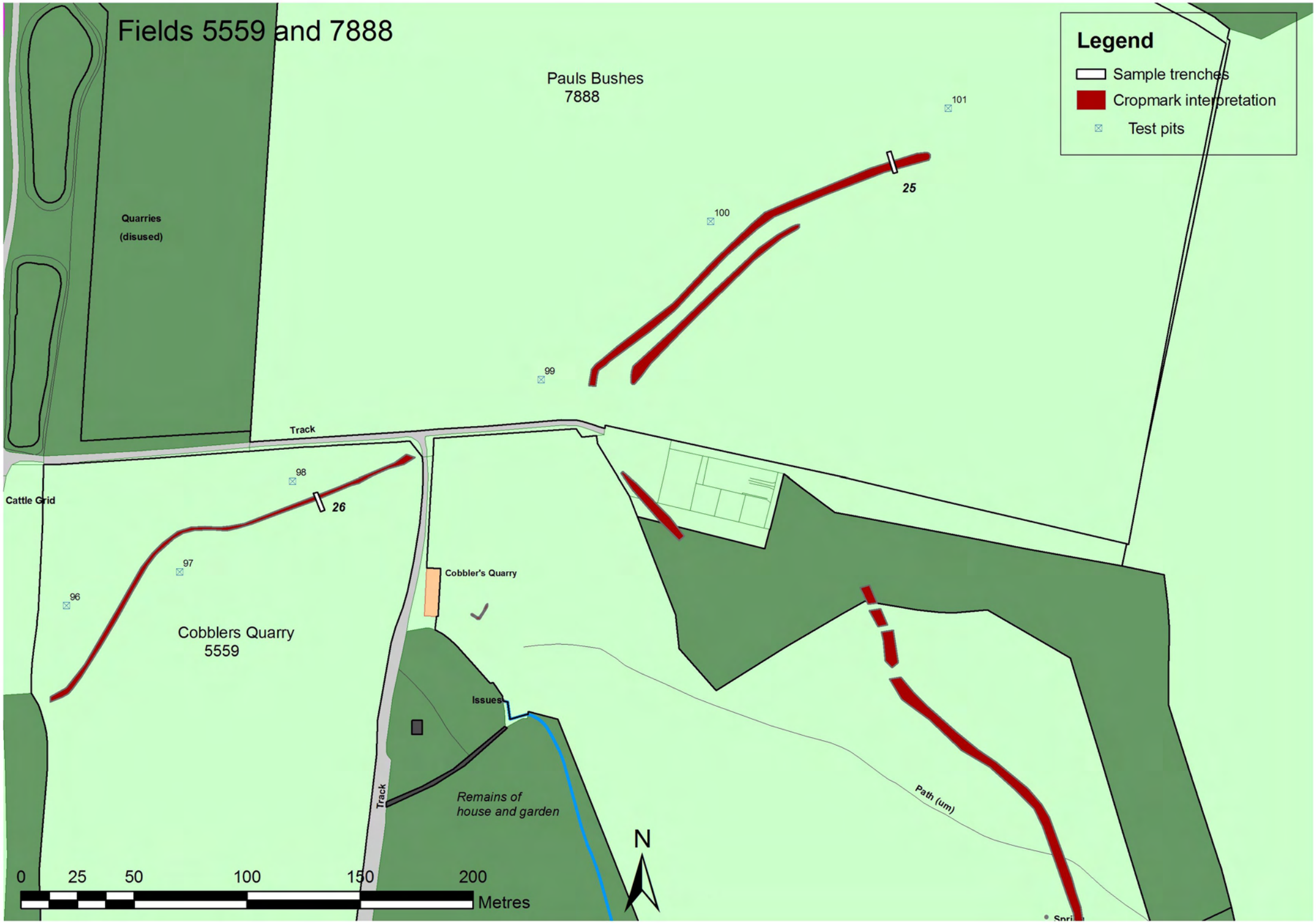
***Graded A-C according to quality of evidence**

Final risk score

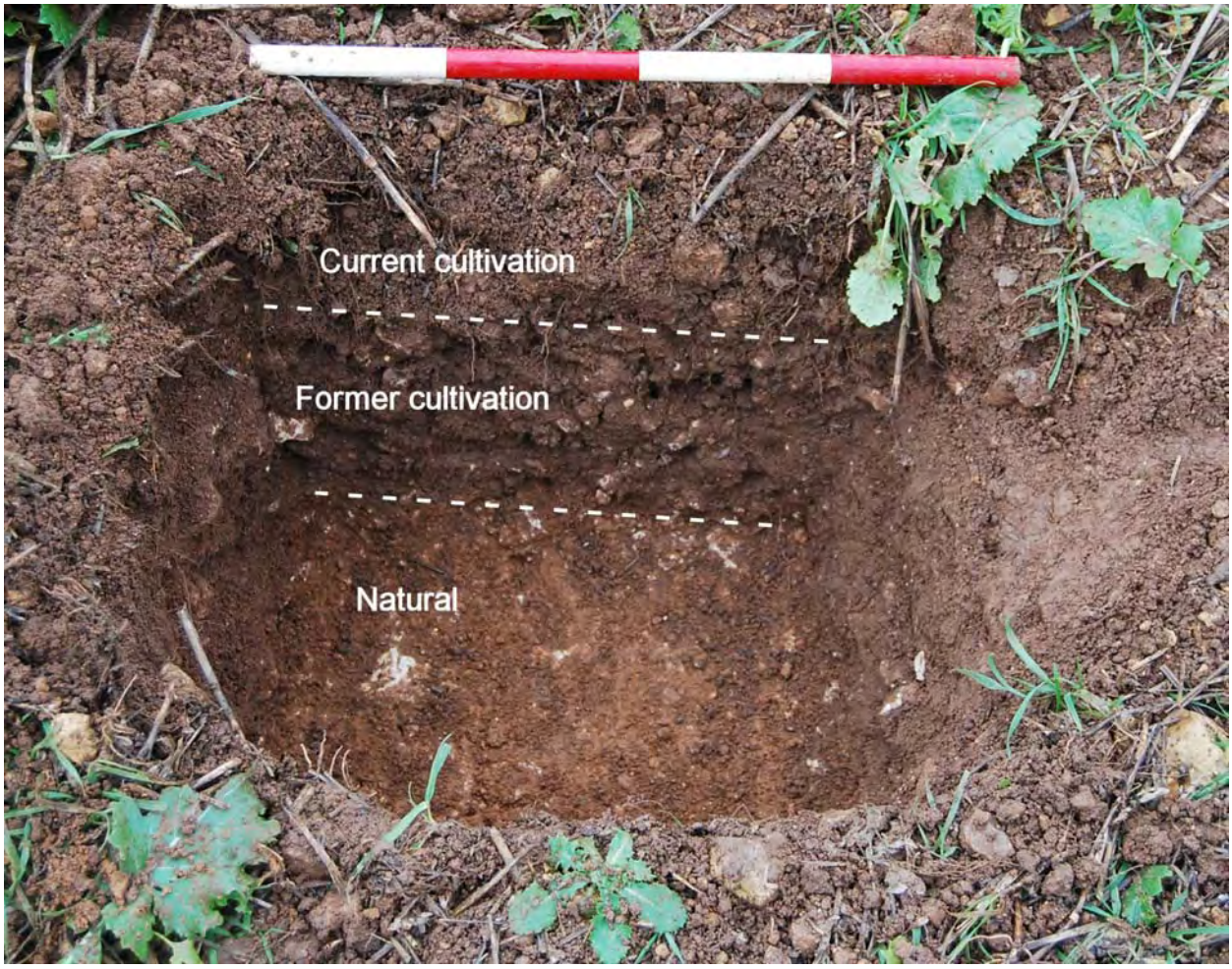
	Minimum tillage:combinable crops
Management factors (out of 50)	16.5
Site intrinsic factors (out of 30)	7
Archaeological factors (out of 20)	5
Final risk score (out of 100)	**28.5**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**


Fields 5559 and 7888
Pauls Bushes
7888
Legend
Sample trenches
Cropmark interpretation
Test pits
101
100
99
98
97
96
25
26
Quarries
(disused)
Track
Cattle Grid
Cobbler's Quarry
Cobblers Quarry
5559
Issues
Track
Remains of
house and garden
Path (um)
N
0
25
50
100
150
200
Metres

Field 7888: Paul's Bushes						
Test pits	**99**	**100**	**101**	**Range**		**Average**
				min	**max**	
Current cultivation	0.10	0.14	0.10	0.10	0.14	0.11
Former cultivation	0.12	0.09	0.18	0.09	0.18	0.13
Subsoil	0.13	None	None	0.00	0.13	0.04
Natural	Unex	Unex	Unex			
Minimum buffer: 0.09						
Notes						
1) Subsoil in test pit 99 may represent hill wash down slope						
2) No artefacts noted on surface						
Slope: Moderate						
Soil group in relation to water erosion: Light						
Soil group in relation to wind erosion: Silts/sands						



Test pit 101 facing north (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 7888 **Field Name** Paul's Bushes

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**..... **B**..... **C**.....	**A**.....4 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**..... **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....4 **B**..... **C**.....	
Initial score							13
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5						1.5
Initial score multiplied by weighting						A … B …. C ….	A ….19.5 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……3 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**..... **B**.....4 **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**..... **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score					10
Weighting	Any of above in grey shaded box = 2				2
Initial score multiplied by weighting				A ……. B..... C.....	A …..20 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....3 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....2 **C**.....
Initial score						5
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1
Initial score multiplied by weighting						**A** … **B** …5 **C** …

***Graded A-C according to quality of evidence**

Final risk score

	Minimum tillage:combinable crops
Management factors (out of 50)	19.5
Site intrinsic factors (out of 30)	20
Archaeological factors (out of 20)	5
Final risk score (out of 100)	**44.5**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**

Pauls Bushes (7888)

Trench 25

Maximum dimensions: Length: 10m Width: 1.90m Depth: 0.47m

Orientation: NW – SE

Context	Classification	Description	Depth below ground surface	Artefacts
2500	Topsoil	Moderately compact medium greyish brown silt loam with frequent small to medium limestone fragments. Clear lower boundary.	0-0.30m	
2501	Fill	Moderately compact light reddish brown silt with occasional small limestone fragments. Fill of [2502].	0.30m	
2502	Cut	Linear feature orientated NE – SW, possible trackway.	0.30m	
2503	Natural	Moderately compact light yellowish/reddish brown silt with frequent small to large limestone fragments.	0.30m	

Trench 25 facing north across trackway 2502

Field 9124

Pond

Lower Mill

Track

20

21

22

Hopyard West
9124

23

24

25

26

Track

Well

Track

Legend

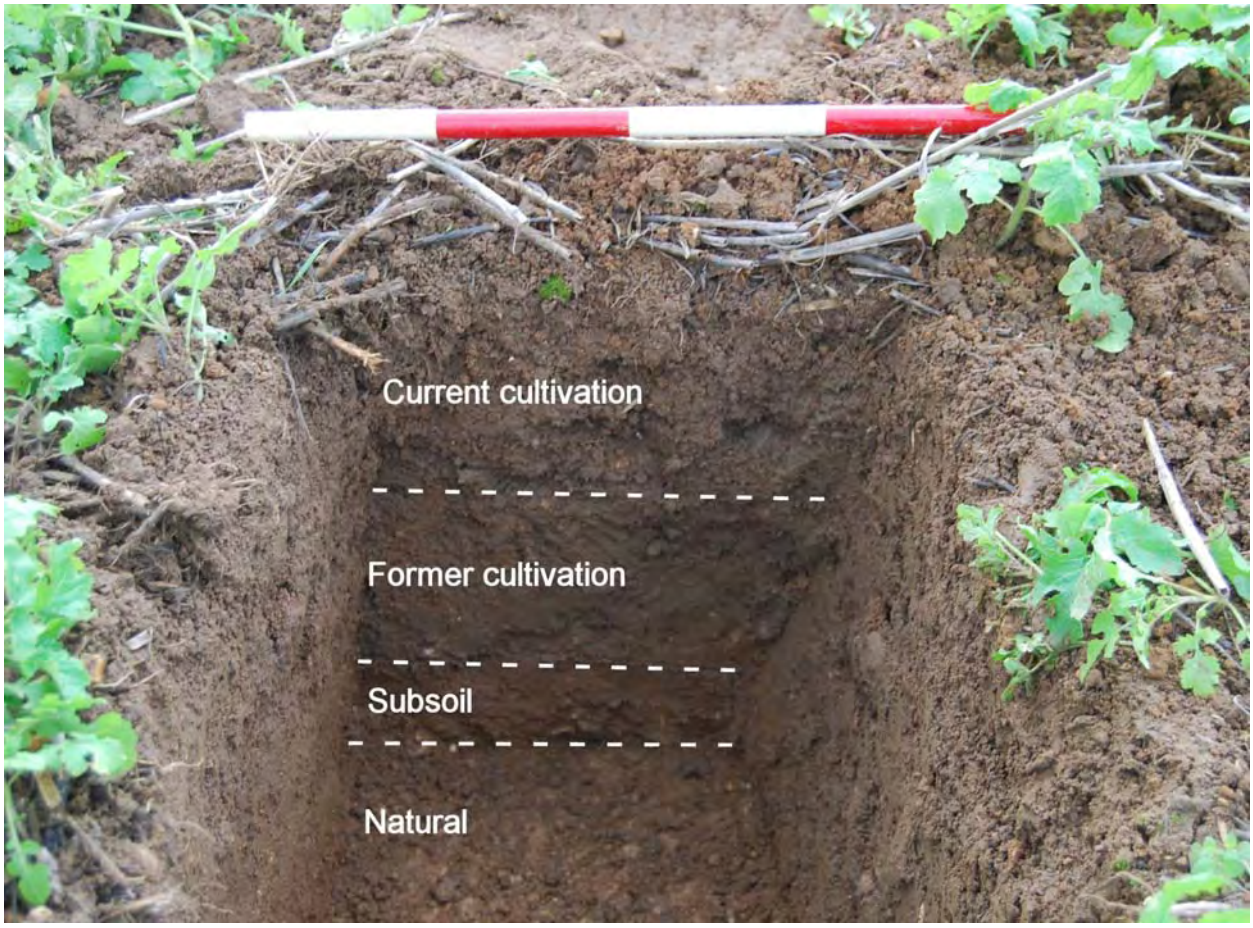
Cropmark interpretation

Test pits

0 25 50 100 150 200 Metres

N

Field 9124: Hopyard West						
Test pits	**24**	**25**	**26**	**Range**		**Average**
				min	**max**	
Current cultivation	0.15	0.18	0.16	0.15	0.18	0.16
Former cultivation	0.10	0.13	0.12	0.10	0.13	0.12
Subsoil	None	0.37	0.02	0.02	0.37	0.01
Natural	Unex	Unex	Unex			
Minimum buffer: 0.10						
Notes						
1) Test pit 25 has anomalous depth of subsoil; therefore not included in averages						
2) Low density scatter of modern brick and tile						
Slope: Level ground						
Soil group in relation to water erosion: Light						
Soil group in relation to wind erosion: Silts/sands						



Test pit 21 facing south (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 9124 **Field Name** Hopyard West

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**.....4 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**.....4 **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**.....4 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....4 **B**..... **C**.....	
Initial score						16	12
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5					1.5	1.5
Initial score multiplied by weighting						A …24 B …. C ….	A ….18 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……1 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**.....4 **B**..... **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Salad onions	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**.....4 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score				9	8
Weighting	Any of above in grey shaded box = 2			1	1
Initial score multiplied by weighting				A …….9 B..... C.....	A …..8 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....3 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....2 **C**.....
Initial score						5
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1
Initial score multiplied by weighting						**A** … **B** …5 **C** …

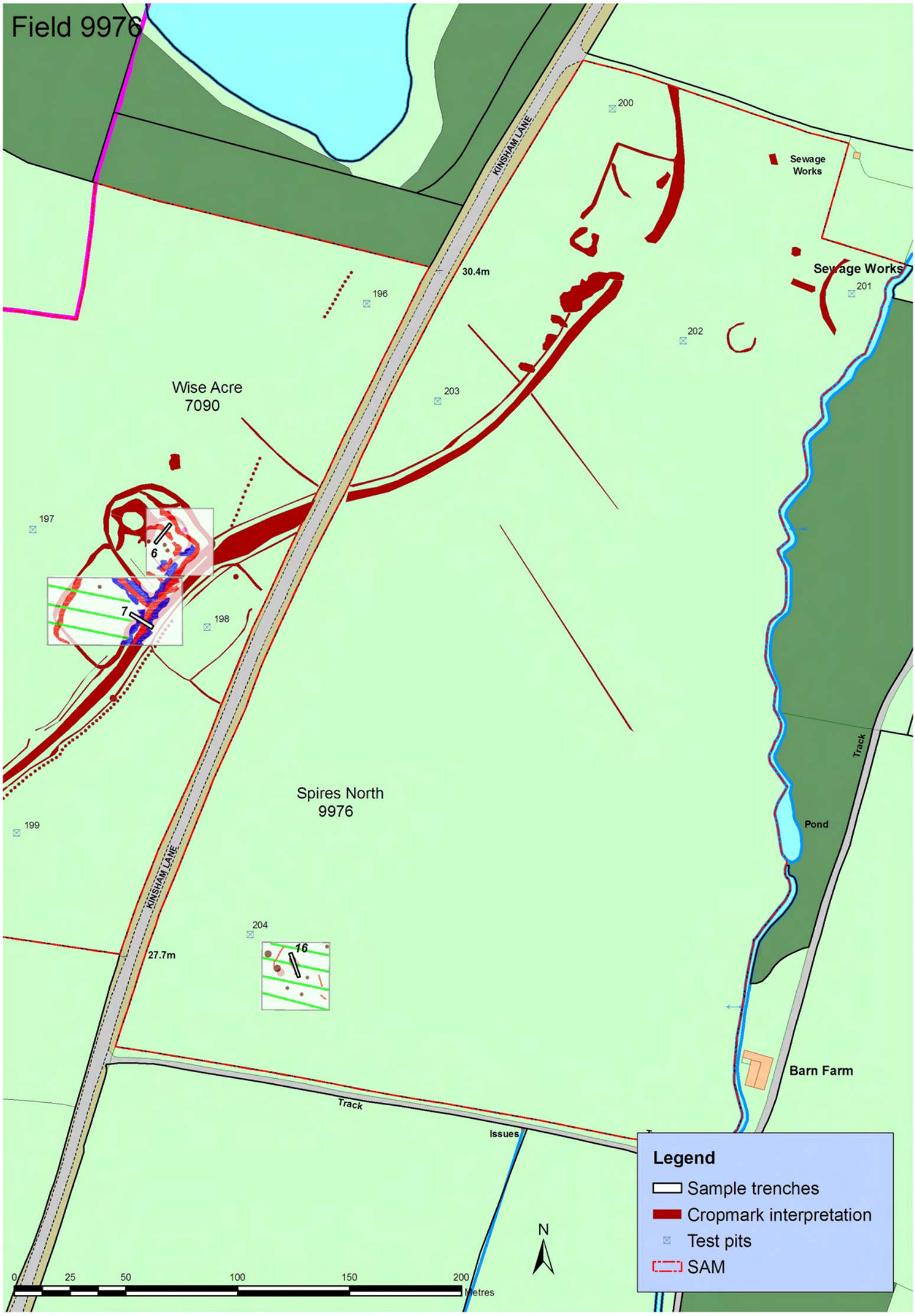
***Graded A-C according to quality of evidence**

Final risk score

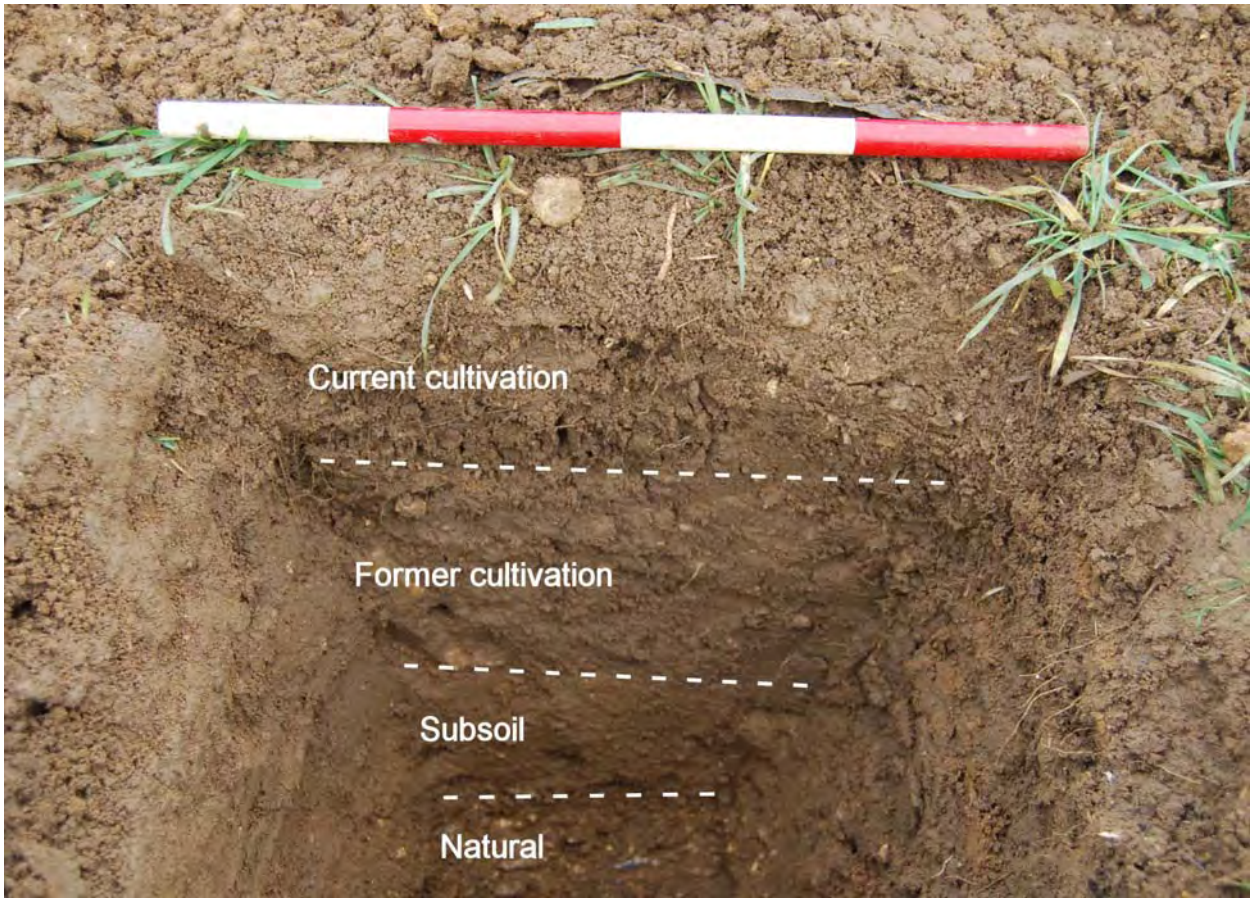
	Ploughing:salad onions	Minimum tillage:combinable crops
Management factors (out of 50)	24	18
Site intrinsic factors (out of 30)	9	8
Archaeological factors (out of 20)	5	5
Final risk score (out of 100)	**38**	**31**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**


Field 9976
200
Sewage Works
KINSHAM LANE
30.4m
196
Sewage Works
201
202
Wise Acre
7090
203
197
6
7
198
Spires North
9976
199
Track
Pond
KINSHAM LANE
204
16
27.7m
Barn Farm
Track
Issues
Legend
Sample trenches
Cropmark interpretation
Test pits
SAM
N
0
25
50
100
150
200
Metres

Field 9976: Spires North (SAM 212)								
Test pits	**200**	**201**	**202**	**203**	**204**	**Range**		**Average**
						min	**max**	
Current cultivation	0.14	0.26	0.19	0.14	0.17	0.14	0.19	0.15
Former cultivation	0.21	n/a	0.14	0.16	0.11	0.11	0.21	0.16
Subsoil	0.19	0.42	0.17	0.11	0.22	0.11	0.22	0.17
Natural	Unex	Unex	Unex	>0.03	>0.05			
Minimum buffer: 0.16								
Notes								
1) Test pit 201 excavated outside ploughed area so not included in averages.								
Slope type: Level ground								
Soil type in relation to water erosion: Light								
Soil type in relation to wind erosion: Silts/sands								



Test pit 203 facing north (scale 0.40m)

COSMIC Assessment Sheet – Land Parcel 9976 **Field Name** Spires North

Management factors							
	Serious risk Score 5	**High risk Score 4**	**Medium risk Score 3**	**Low risk Score 2**	**Minimum risk Score 1**	**Score***	
						Ploughing	**Miniumum tillage**
Buffer	No buffer	Shallow buffer(< 10cm)	Moderate buffer (10-15cm)	Deep buffer (16-25cm)	Very deep buffer (> 25cm)	**A**.....4 **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cultivation method and depth	Very deep ploughing (>30cm)	Deep ploughing (26-30cm)	Normal ploughing (20-25cm)	Minimum tillage Shallow ploughing (10-19cm)	Direct drilling (<10cm)	**A**.....4 **B**..... **C**.....	**A**.....2 **B**..... **C**.....
Cropping	Cropping includes potatoes/sugar beet	Cropping includes other root/tuber crops	Cropping includes cereals, non-root crops		Cropping includes long term grass ley or set-aside(> 5 years)	**A**.....5 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Subsoiling	Regular subsoiling (< 3 years)	Regular or occasional subsoiling (3-6 years)	Rare subsoiling (7-15 years)	No subsoiling		**A**.....4 **B**..... **C**.....	
Initial score						17	11
Weighting	Any at serious risk = 2.5 Any at high risk = 1.5 Any at minimum risk = 0.5					2.5	1.5
Initial score multiplied by weighting						A …42.5 B …. C ….	A ….16.5 B …. C ….

***Graded A-C according to quality of evidence**

Site intrinsic factors

Susceptibility of cultivated soil to water erosion

Average annual rainfall = 600mm

	Steep slopes (> 7°)		**Moderate slopes** (3°-7°)		**Gentle slopes** (2°-3°)		**Level ground** (< 2°)	**Score***
Soil group	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm	Rainfall more than 800mm	Rainfall less than 800mm		
Light soils	Serious Score 5	High Score 4	High Score 4	Medium Score 3	Medium Score 3	Low Score 2	Minimal Score 1	**A**……1 **B**..... **C**.....
Moderate soils	High Score 4	Medium Score 3	Medium Score 3		Low Score 2		Minimal Score 1	
Heavy soils	Low Score 2		Minimal Score 1		Minimal Score 1		Minimal Score 1	

Susceptibility of cultivated soil to wind erosion

Main soil group	**Peats**	**Sands/Silts**	**Loams**	**Sandy clays/silty clay**	**Clay**	**Score***
	Serious Score 5	High Score 4	Medium Score 3	Low Score 2	Minimal Score 1	**A**.....4 **B**..... **C**.....

Risk of soil loss during harvesting

Crop type	**Potatoes/sugar beet**	**Other root/tuber crops**	**Combinable crops**	**Score***	
				Potoates	**Combinable and other crops**
	Serious Score 5	High Score 4	Medium Score 3	**A**.....5 **B**..... **C**.....	**A**.....3 **B**..... **C**.....
Initial score				10	8
Weighting	Any of above in grey shaded box = 2			2	1
Initial score multiplied by weighting				A …….20 B..... C.....	A …..8 B..... C.....

***Graded A-C according to quality of evidence**

Archaeological factors						
Survival and quality of evidence **[Other evidence: e.g. -Documentary (HER records, fieldwork reports) -Oral (information from farmers etc) -Material (artefacts in museums or private collections]**	**Serious Score 5**	**High Score 4**	**Medium Score 3**	**Low Score 2**	**Minimum Score 1**	**Score***
	- Upstanding earthworks/structures -Well-preserved deposits demonstrated by excavation -Other evidence indicating well-preserved deposits - Dense, discrete, and/or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of nationally significant deposits	-Positive and negative features demonstrated by excavation - Positive and negative features indicated by cropmarks/anomalies -Other evidence indicating good preservation -Dense, discrete, and/or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to national research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Other evidence of highly significant deposits	-Negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits - Dense, discrete, or, diagnostic deposits relevant to county research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) -Less dense, discrete, or diagnostic deposits relevant to regional research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Dense, discrete, or diagnostic ploughsoil scatters - Other evidence of significant deposits	-Truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating truncation -Sparse or undiagnostic deposits relevant to local research agendas (demonstrated by excavation or indicated by cropmarks/anomalies) - Diffuse or undiagnostic ploughsoil scatters -Other evidence distriguishing between sites of low and minimum significance	- Heavily truncated negative features demonstrated by excavation -Negative features indicated by cropmarks/anomalies -Ploughsoil scatters derived from buried deposits -Other evidence indicating heavy truncation -Sparse or undiagnostic deposits demonstrated by excavation or indicated by cropmarks/anomalies - Diffuse or undiagnostic ploughsoil scatters	**A**..... **B** .....4 **C**.....
Significance	National significance	Regional significance	County significance	Local significance	No obvious significance	**A**..... **B** .....4 **C**.....
Initial score						8
Weighting	For score of 9-10 use weighting factor = 2; for score of 8-7 use weighting factor = 1.5; for score of 6 use weighting factor = 1.3; for score of 5-4 use weighting factor = 1; for score of 2-3 use weighting factor = 0.5					1.5
Initial score multiplied by weighting						**A** … **B** …12 **C** …

***Graded A-C according to quality of evidence**

Final risk score

	Ploughing:potatoes	Minimum tillage:combinable crops
Management factors (out of 50)	42.5	16.5
Site intrinsic factors (out of 30)	20	8
Archaeological factors (out of 20)	12	12
Final risk score (out of 100)	**74.5**	**36.5**

Risk levels

Final risk score	Risk level
0-29	**Minimal risk**
30-39	**Low risk**
40-49	**Moderate risk**
50-59	**High risk**
60+	**Serious risk**

Spires North (9976)

Trench 16

Maximum dimensions: Length: 11.5m Width: 1.30m Depth: 0.50m

Orientation: N – S

Context	Classification	Description	Depth below ground surface	Artefacts
1600	Topsoil	Loose medium greyish brown silt loam with *c*. 5% light yellowish white sand. Occasional small to medium stones and limestone fragments.	0-0.30m	
1601	Subsoil	Loose medium brown silt with *c*. 5% light yellowish white sand and a few small limestone fragments.	0.30-0.50m	
1602	Natural	Light reddish brown medium sand with frequent small limestone fragments. Contains irregular pockets of medium brown silt.	0.50m	
1603	Fill	Moderately compact medium brown silt with 5% light yellowish white fine sand. Contains occasional small stones, limestone fragments and occasional burnt stone. Fill of pit [1604].	0.40m	One sherd of handmade pottery, possibly Iron Age (10g). 96 pieces of animal bone, predominantly dog (291g).
1604	Cut	Pit.	0.40m	

Trench 16 facing south with pit 1604 in foreground