

**Report on an Archaeological Evaluation  
'Land North East of Blue Lodge'  
Ury, Stonehaven AB39 3SS  
SITE CODE CA209**



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## SUMMARY

An archaeological evaluation was undertaken from 24<sup>th</sup> November to December 12<sup>th</sup> 2014 at the site of Blue Lodge, Ury Estates near Stonehaven, Aberdeenshire.

Based upon the Written Scheme of Investigation or WSI (Cameron 2014), it was agreed the site was subject to 7.0% stripping of topsoil to investigate the potential for archaeological remains or features.

This work took the form of machine excavator trenching with a toothless bucket in conjunction with hand-excavation for closer inspection of potential archaeological deposits.

Deep ploughing by modern machinery and the encroachment of former quarry works upon the site has substantially reduced the visibility of any former archaeological activity beyond field drainage works of largely indeterminate age due to an absence of associated artefacts and it is therefore recommended that no further archaeological work is required during the current planning application.

# 1 INTRODUCTION

The site (Illus 1) is located SW of Ury House on the NE side of the A957 Slug Road and Blue Lodge. It is centred on NGR NO 85598 87433, at 40-60m OD. The work was commissioned by Scott Leitch, Halliday Fraser Munro for FM Ury Ltd. Aberdeenshire Planning Applications APP/2012/1616 and 1617 (2012/1616 is for erection of 27 dwellings Phase 2 and 1617 for 24 dwellings Phase 1) have been recommended for approval in 1 July 2014 with a standard archaeology condition (condition 6). Aberdeenshire Archaeology Service required a 7% archaeological evaluation.

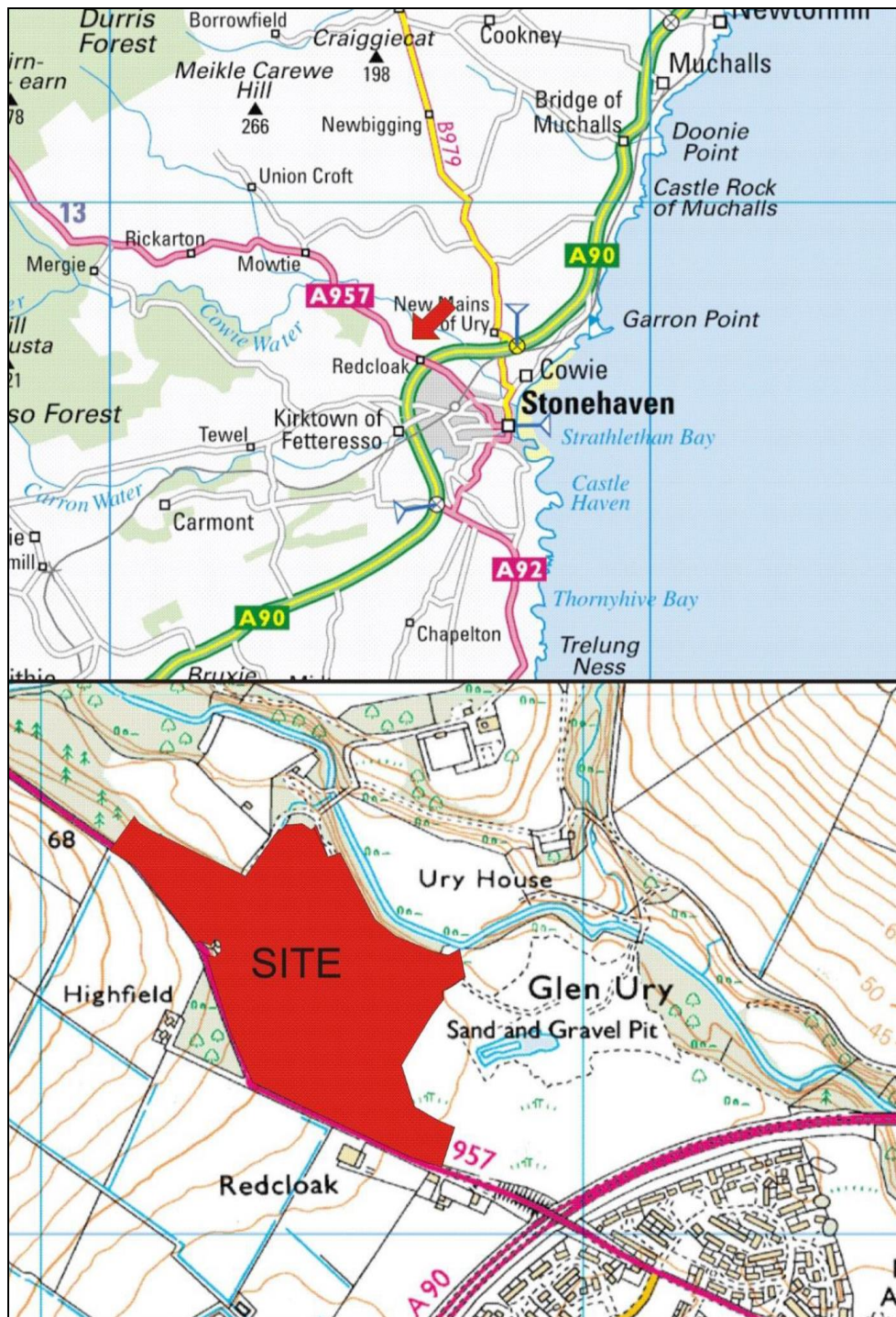


Illustration 1: Location of Blue Lodge, Ury Estates near Stonehaven with development in red.

## 2 ARCHAEOLOGICAL BACKGROUND

The archaeological evaluation between November 24<sup>th</sup> and December 12<sup>th</sup> closely followed the 7% methodology outlined in the Written Scheme of Investigation. The work was carried out by Robert Lenfert on behalf of Cameron Archaeology.

The following summary (Points 2.1 – 2.14) is an excerpt from the project WSI courtesy of Alison Cameron (Cameron 2014) and provides a historical context for the project area:

2.1 There is one archaeological site within the proposed development. It is a complex of features identified from aerial photographs including a field system, pits, possible roundhouses and an unenclosed settlement (NO88NE 384; Illus 3) at the extreme SE end of the proposed development along the line of the new access road.

2.2 There is one Scheduled Ancient Monument within 1km of the proposed development. Cowie Line, pill boxes (NO88NE 88.01, 88.02) & anti-tank blocks (NO88NE 88.05) is 200m SW to 275m SE of Ury House. The monument comprises two Type-22 pill boxes, situated on high ground to the south of the Cowie Water, covering the bridge over the river SE of Ury House, and its approaches. The pill boxes are 6-sided, made of a mixture of granite, concrete and brick. The western pillbox has additional firing loops on two sides. There are also concrete tank blocks on both sides of the bridge and 6 fine examples to the NW of the western pill box on the south bank of the Cowie Water. To the west of the bridge the southern bank of the Cowie Water has been made vertical to provide a further obstacle. To the east of the bridge, in a wood, is a possible weapon pit. Three areas are to be scheduled. The westernmost contains one pill box and 6 concrete tank blocks. It measures a maximum of 100m WSW to ENE by 60m transversely. The middle area contains the second pill box, the artificially-altered section of the river bank, and one concrete tank block. It measures a maximum of 100m E to W by 40m transversely. The easternmost area contains two tank blocks and the possible weapon pit. It measures 40m NNE-SSW by 30m transversely. All three areas are bounded on their northern sides by the river bank, and are as marked in red on the accompanying map. The monument is of national importance as a well-preserved element of the Cowie Line, one of the strategic stop-lines of the anti-invasion defences of the Second World War. The individual features of the monument are well preserved and provide a concrete expression of an important period in British history.

2.3 The proposed development is within the estate of Ury House (NO88NE0104). remains of a designed landscape possibly dating back to the 1700s. The house is B Listed Country house by John Baird of Glasgow, 1855, with a wing added in 1884 by an unidentified architect. The gardens have a buttressed, stepped, channelled and rock-faced terrace wall. The house had an ice-house (NO88NE 32.15; Buxbaum 1992, 7). Immediately north of the current site is a circular cropmark (NO88NE0113 possibly representing the site of a small roundel of planted trees which are shown on the 1st and 2nd edition OS map is visible on vertical aerial photographs taken in 1977 and 1988. Work is soon to be undertaken on Ury House and associated buildings for the formation of a new hotel (Cameron forthcoming).

2.4 At Redcloak (NO 8579 8716), 700m WSW of the west edge of the current site is a field system of pits, possible roundhouses and an unenclosed settlement identified as a cropmark on aerial photographs.

2.5 At Glen Ury WNW of the proposed site is an area of hut circles and clearance cairns (NO88NE 73) identified from aerial reconnaissance.

2.6 There is an earthwork or possible Roman camp (NO88NE 7) at Fetteresso Glebe. The evidence for the siting of this 'camp' seems to derive ultimately from Barclay's sketch-map of 1785 on which it is shown as a square with rounded corners, although it is mentioned as early as 1722 in Camden's *Britannia*. The Name Book authorities remember the site being called 'The Camp' about 1800 but the ground was already under cultivation and no remains were evident. Crawford thought the site too narrow for a Roman camp, or even a normal-sized Roman fort and suggested that it was probably a native fort (Barclay 1792, 566; Crawford 1949; Name Book 1865, 10,248; Jones 2011, 335). The area is now a housing estate.

2.7 A copper alloy ewer (NO88NE 11) was found at Glen Ury in 1857. A sketch by the surveyor shows this to be a medieval tripod ewer. It was found two feet below the surface and was broken by the finders but the pieces were preserved at Ury House (OS Name Book 10, 198).

2.8 St Ciaran's Well a chalybeate well (NO88NE 17) is near the distillery at the west end of Mineral Well Road, immediately below the Glenury railway viaduct. It is an elegant fountain of Peterhead granite into which once ran the water of chalybeate spring for many years famous for its health-giving properties. The fountain was built on the site of the old holy well of St Kieran which dried up when the supply was cut to build the fountain and it was impossible to find it again (Morris and Morris 1982, 122).

2.9 Industrial remains in the area include Glen Ury railway viaduct (NO88NE 60) 400m south of the current site (Hume 1977, 223) and Glen Ury Distillery founded c. 1836 by Captain Barclay. A much altered group of buildings, of which the oldest is probably a 3-storey, 10-bay range of malting floors survive. There are twin detached kilns linked to the malting floors by gangways (ibid; NO88NE 59).

2.10 The Aberdeen Western Peripheral route is due to terminate 200m east of the eastern side of the proposed development. Archaeological work has been carried out along the line of the route; AOC carried out a watching brief of trial pits in 2008 (NO89SE0089) but little of archaeological significance, CFA Archaeology have carried out an evaluation in 2013 of this section of the route and an excavation is ongoing at time of preparing this WSI (CFA forthcoming).

2.11 Ury or Urie appear on the 17th-century Blaeu (Illus 8) and Gordon (Illus 7) maps and Ury House on the 19th-century maps. The First Edition OS map (Illus 10) shows the area as farmland divided into several fields with an old field boundary still marked with a liune of trees. These persist into the 2nd and 3rd OS maps (Illus 11, 12) and the track across the site from the road to the east was realigned between the 1st and 2nd OS maps.

2.12 A recent archaeological evaluation east of East Lodge produced just one hearth (Cameron 2014) of as yet undetermined date.

2.13 The First edition OS map (Illus 8) shows the land is sparsely tree covered in the late 19th century with several more thickly wooded areas. By the 2nd and 3rd Edition OS (Illus 9 and 10) there are two sheepfolds built within the proposed development area but the land remains undeveloped. The eastern section of the land is now ploughed but the west section remains under trees (Redcloak Woods) with further trees added to the wood and around Blue Gate (now Blue Lodge; NO88NE 32.13/05). There are sparse trees along the Slug Road.

2.14 There is a sand and gravel quarry to the NE of the proposed development (NO88NE 367).

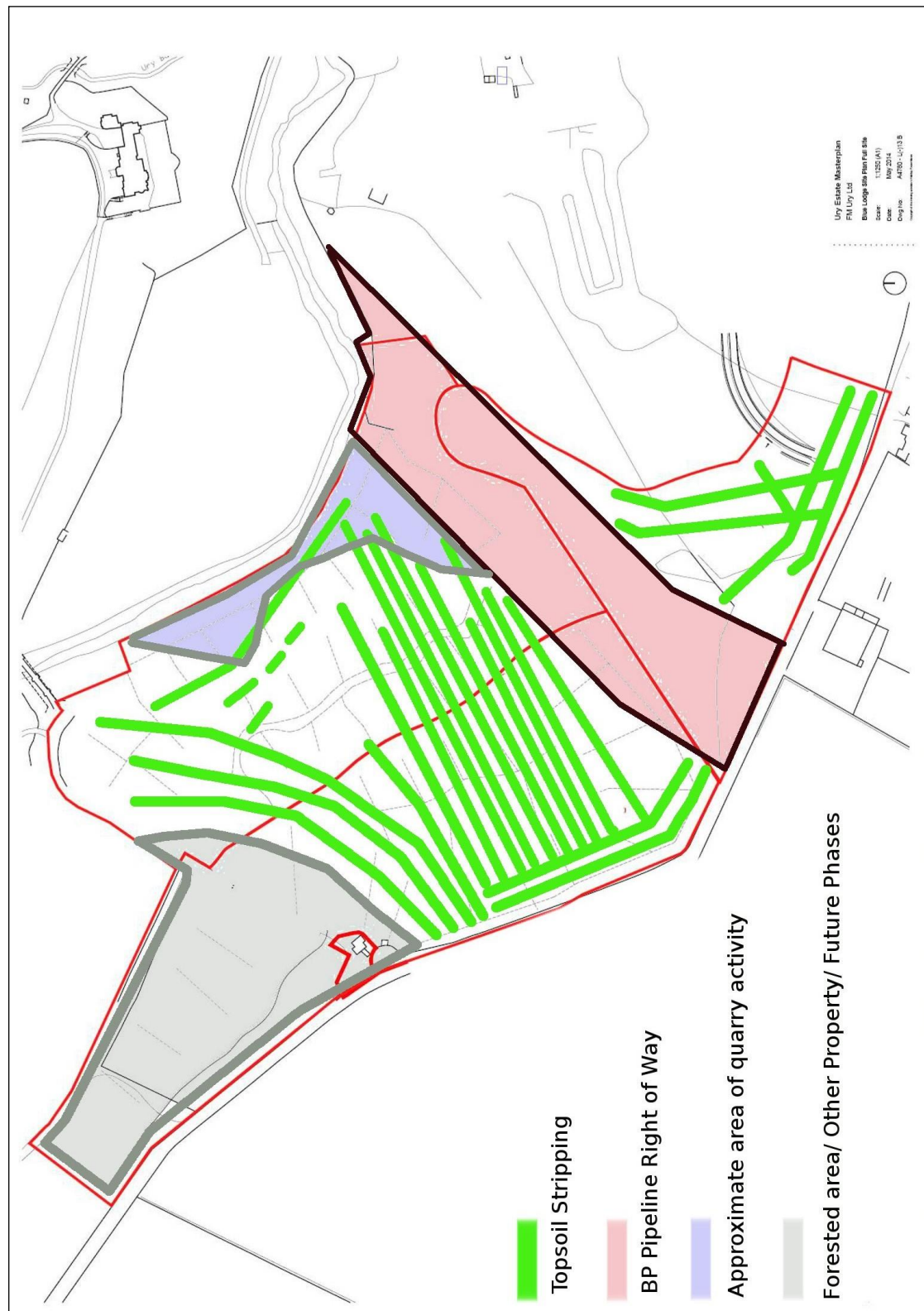


Illustration 2: Trenches and restricted or disturbed areas within the Ury project area. The short green 'dash' trenches are classed as test pits to determine extent of quarry and were not numbered. The approximate pipeline corridor here is shaded in red. Please note this map is not to be used as a definitive location of the pipeline corridor for survey, construction or other purposes.

### 3 THE EVALUATION

Blue Lodge will be developed in phases. The archaeological work for this particular phase was undertaken and managed by Dr Robert Lenfert on behalf of Cameron Archaeology.

An evaluation was undertaken of 7% of the proposed development. This was concentrated outside the area believed to have been previously quarried (as indicated by maps obtained from Bruce Plant Limited). This undisturbed area initially covered some 81,000m<sup>2</sup> based upon GPS calculations taken on-site, of which 5,670m<sup>2</sup> comprised the 7% removal area which was stripped of topsoil between November 24<sup>th</sup> and December 12, 2014. The majority of the evaluation was completed using tracked plant with toothless buckets, comprising initially of an 8-ton machine (1.56m bucket), later replaced by a faster 14-ton (1.8m bucket) machine then finally a 22-ton excavator (2.08m bucket) in the third week of the project. A number of features primarily consisting of field-drains and plough-marks were partially hand-excavated, but did not reveal any datable artefacts. The western forested area of the development (not active at present) is recommended to be visually inspected by an archaeologist as tree-cover is removed in future phases (please see Recommendations, below). Topsoil was present in excess of 50cm in certain areas, while areas near Slug Road displayed a considerably shallower topsoil >20cm in depth. The intensity of modern ploughing was apparent throughout this distribution.

Numerous field-drains comprising cobbles or small boulders were observed throughout the trenches, but the presence of additional archaeological features was inconclusive. While Victorian or more recent ceramic sherds were noted and collected from the evaluation area, including unstratified surface finds perhaps introduced as a result of imported quarry fill, an absence of flint or lithics identifiable with prehistoric activity was noted. However, the site does contain an unusually high amount of quartz fragments which are difficult to conclusively identify as being struck or worked by human action.

One aspect of the site which proved to be ambiguous was the boundary of the former Ury Quarry operated by Bruce Plant Limited (now infilled with topsoil and modern debris imported from offsite). These works occupy a substantial area of the development therefore negating any archaeological investigation. However, trenching revealed the initial quarry area provided on a surveyor's map dated 15/1/1997, was in fact substantially smaller than indicated, thus expanding the area of investigation, particularly in the western portion of the development.

Another aspect which required care and consideration was the presence of the major BP 'Forties' oil pipeline which carries crude from the Forties Oil Field in the North Sea to Grangemouth Refinery for some 140 miles. This pipeline runs directly through the eastern half of the development (Illus. 2). As it was installed to pre-1974 specifications, the buried depth in places is one metre with a pipe wall-thickness of only 10mm. After consulting with BP pipeline representatives, it was agreed that a 50 metre right of way (either side) was to be observed unless a BP field representative was on-site. Therefore, the decision was made to leave this 100 metre corridor unexcavated, unless archaeological remains warranted an extension into this corridor.

### 4 RECOMMENDATIONS

Due to a lack of archaeological finds, after consultation with the Aberdeenshire Council Archaeologist it is felt that no other mitigation work is necessary. Therefore, the archaeological investigation is considered complete during this planning application.

## 5 ACKNOWLEDGEMENTS

Appreciation goes to Alison Cameron for producing and providing the WSI, along with her guidance and suggestions. Thanks also goes to the Pert Bruce employees for their hard work and co-operation, and to the machine operators for their expertise and efficiency in soil stripping. Local farmers John and 'Ury Jock', who worked the project area for over 55 years between them, were helpful in recollecting the extent of the former quarry, which proved to be elusive at times. Thanks also goes to the client (Scott Leitch, Halliday Fraser Munro for FM Ury Ltd) and to Bruce Mann, the Aberdeenshire Council Archaeologist.

## 6 REFERENCES

Cameron, A. (2014) 'A Written Scheme of Investigation for Blue Lodge, Ury Estate' Unpublished Report.

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## DATA STRUCTURE REPORT

### APPENDIX 1 PHOTOGRAPHS

#### November 24<sup>th</sup>

Photo ID	Description	Direction Facing
DSC_9282	Commencing Trench 1 at top of slope near Slug Road	NNE
DSC_9283	View of Trench 1	NNE
DSC_9285	Top of field drain in Trench 1	W

#### November 25<sup>th</sup>

DSC_9286	Field drain in heavy clay, Trench 1 extension (day 2)	W
DSC_9289	Field drain running parallel in Trench 1	W
DSC_9290	View of heavy clay in	SSW

	Trench 1	
DSC_9291	View of Trench 1	NNE
DSC_9292	General view of area prior to trenching	E
DSC_9294	General view of area prior to trenching	E
DSC_9294 stitch	Panoramic general view of area prior to trenching	E
DSC_9297	Stone field drain running roughly parallel to Trench 1	S

DSC_9298	Detail of field drain in Trench 1	W
DSC_9299	View of Trench 1	N
DSC_9300	Detail of field drain in Trench 1	NW
DSC_9304	Linear feature in Trench 1	W
DSC_9306	Mottled cross-hatching in Trench 1	W
DSC_9307	Detail shot of mottled cross-hatching in Trench 1	W

#### **November 26<sup>th</sup>**

DSC_9308	Commencing Trench 2	NE
DSC_9311	Working shot Trench 2	W
DSC_9312	Working shot Trench 2	W
DSC_9315	Field drain in Trench 2	W
DSC_9317	Field drain in Trench 2	S
DSC_9320	Field drain in Trench 2	W
DSC_9322	View of field drain running roughly parallel to Trench 2	S

#### **November 27<sup>th</sup>**

DSC_9323	Commencing Trench 3	W
DSC_9327	Detail of deeply stained surface of field drain in Trench 3	W
DSC_9328	General view of deeply stained surface of field drain Trench 3	SSW
DSC_9329	Working shot of Trench 3	S
DSC_9330	Working shot of Trench 3	S
DSC_9332	Working shot of Trench 3	S
DSC_9334	Commencing Short Test Trench 4	SSE

DSC_9335	Working shot of Test Trench 4	SSE
DSC_9336	Working shot of Test Trench 4	SE

### November 28<sup>th</sup>

DSC_9339	Working shot of Trench 5	SE
DSC_9340	Working shot of Trench 5	SE
DSC_9341	Modern plough marks Trench 5	SE
DSC_9343	Modern plough marks Trench 5	E
DSC_9344	General view of Trench 5	NNW
DSC_9345	General view of Trench 5	NNW
DSC_9347	Trench 5 extension near pipeline corridor	SSE
DSC_9348	Working shot Trench 5	E
DSC_9351	Shallow linear feature Trench 5 (modern plough marks)	SE
DSC_9353	Section of linear feature, Trench 5	SE

### December 1<sup>st</sup> (Week II)

DSC_9470	Stone field drain Trench 6	SW
DSC_9472	Stone field drain Trench 6	SW
DSC_9473	Working shot Trench 6	SE
DSC_9475	Working shot Trench 6	SE
DSC_9477	Field drain and machine, Trench 6	SE
DSC_9478	General shot of area	NNE
DSC_9480	Field drain Trench 6	SW
DSC_9483	Intersection of field drains, Trench 6	E
DSC_9486	General view of Trench 6	SW
DSC_9488	Type M-22 Pillbox near Cowie Water	NW
DSC_9491	Interior M-22 Pillbox near Cowie Water	
DSC_9492	Interior M-22 Pillbox near Cowie Water	
DSC_9493	Exterior shot, M-22 Pillbox, Cowie Water	
DSC_9495	Exterior shot, M-22 Pillbox, Cowie Water	

**December 2<sup>nd</sup>**

Photo ID	Description	Facing Direction
DSC_9497	Commencing Trench 7	N
DSC_9499	Working shot Trench 7	NE
DSC_9500	Working shot Trench 7	NE
DSC_9503	Working shot Trench 7	NE
DSC_9505	Working shot Trench 7	NE
DSC_9510	Example of topsoil depth in Tr 7	N
DSC_9512	Nearing edge of quarry operations, Trench 7	SW

DSC_9513	Approximate line of quarry intrusion, Trench 7	SW
DSC_9514	Approximate line of quarry intrusion, Trench 7	NE
DSC_9515	General view of Trench 7	NE
DSC_9516	General view of Trench 7	NE
DSC_9517	General view of Trench 7	SW
DSC_9518	Stone field drain, Trench 7	NE
DSC_9521	Working shot, backfilling Trench 7	SW
DSC_9522	General view of Trench 7	NE
DSC_9523	General view of Trench 7	NE
DSC_9525	General view of Trench 7	NE
DSC_9527	General view of Trench 7	NE
DSC_9530	General view of Trench 7	SW
DSC_9531	General view of Trench 7	NE

**December 3<sup>rd</sup>**

DSC_9538	Working shot, Trench 8	NE
DSC_9539	Working shot, Trench 8	NE
DSC_9542	Example of topsoil depth and underlying subsoil in Tr 8	N
DSC_9545	Stone field drain, Trench 8	NE
DSC_9547	Stone field drain, Trench 8	S
DSC_9549	Large boulder, Trench 8, inspected for possible saddle quern use/grinding (none apparent)	NW
DSC_9553	Large boulder, Trench 8, inspected for possible saddle quern use/grinding (none apparent)	NW

DSC_9556	Working shot, Trench 8	NE
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#### December 4<sup>th</sup>

DSC_9626	General site photo	E
DSC_9629	Commencing Trench 9	NE
DSC_9633	Circular inclusion, Trench 9	NE
DSC_9637	Working shot, Trench 9	NE
DSC_9641	Topsoil depth, Trench 9	NW
DSC_9642	General site photo	E
DSC_9644	Nearing completion Trench 9	W
DSC_9645	Nearing completion Trench 9	SW
DSC_9646	Exposed quarry edge with modern rubble infill, Trench 9	SW
DSC_9647	Exposed quarry edge with modern rubble infill, Trench 9	SW
DSC_9648	Exposed quarry edge with modern rubble infill, Trench 9	SW
DSC_9649	Detail of quarry edge with modern rubble infill, Trench 9	SW
DSC_9651	Commencing Trench 10, far SE area east of BP pipeline	SE
DSC_9652	Working shot, Trench 10	SE
DSC_9654	Working shot, Trench 10	SE
DSC_9655	Working shot, Trench 10	NW
DSC_9656	Trench 10, possible ditch or natural channel	NW

#### December 5<sup>th</sup>

DSC_9657	Trench 11 working shot (intersection with Tr10)	NW
DSC_9658	General shot Trench 11	NW
DSC_9660	Trench 11 working shot (intersection with Tr10)	SW
DSC_9661	Trench 11 working shot (intersection with Tr10)	W
DSC_9662	Trench 11 working shot (intersection with Tr10)	NW
DSC_9663	Flooding in Trench 11	W
DSC_9665	Working shot Trench 11	W
DSC_9666	Flooding in Trench 11	SE
DSC_9667	Possible quarry boundary,	SE

	Trench 11	
DSC_9671	Possible quarry boundary, Trench 11	NE
DSC_9673	Discreet deposits, Trench 11	SW
DSC_9674	Detail of stratigraphy, Trench 11	SW
DSC_9679	Trench 12 completed to extent of project area	SE
DSC_9681	Modern tarmac inclusion, Trench 12	NE
DSC_9682	Working shots and general view, Trench 12	NW
DSC_9684	Working shots and general view, Trench 12	N
DSC_9685	Working shots and general view, Trench 12	N
DSC_9686	Working shots and general view, Trench 12	NE
DSC_9687	Working shots and general view, Trench 12	NE
DSC_9689	Working shots and general view, Trench 12	N
DSC_9692	Extent of Trench 11 into waterlogged area, to extent of BP pipeline corridor	WNW
DSC_9693	Trench 13 underway	SE
DSC_9694	Working shot, Trench 13	NW
DSC_9695	Working shot, Trench 13	N
DSC_9696	Completion shot up to BP pipeline corridor, Trench 13	N

### **December 8<sup>th</sup> (Week III)**

DSC_9889	Trench 14 and modern plough marks	NW
DSC_9895	Field drain, Trench 14	E
DSC_9896	Field drain, Trench 14	E
DSC_9897	Diversion to examine field drain, Trench 14	E
DSC_9898	Diversion to examine field drain, Trench 14	E
DSC_9900	Trench 14 completion	N
DSC_9903	Trench 14 working shot of backfill operation	NE
DSC_9904	Trench 14 working shot of backfill operation	NE

DSC_9905	Trench 14 working shot of backfill operation	NE
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#### **December 9<sup>th</sup>**

DSC_9907	Shot of Trench 15 underway	NE
DSC_9908	Shot of Trench 15 underway	NE
DSC_9909	Shot of Trench 15 underway	NE
DSC_9911	Discreet tarmac deposit deep in Trench 15	NW
DSC_9912	Stratigraphy of Trench 15	NW
DSC_9913	Trench 15 near completion	SW
DSC_9914	Field drain 1 in Trench 15	SE
DSC_9916	Field drain 2 in Trench 15	SE
DSC_9917	Field drain 3 in Trench 15	SE
DSC_9918	Probable quarry boundary in Trench 15	NW
DSC_9919	Probable quarry boundary in Trench 15	NE
DSC_9920	Probable quarry boundary in Trench 15	NE

#### **December 10<sup>th</sup>**

DSC_9929	Commencing Trench 16	NE
DSC_9931	Working shot, Trench 16	NE
DSC_9937	Dark organic inclusion, Trench 16	N
DSC_9938	Large clay inclusion, Trench 16	N
DSC_9940	Working shot, Trench 16	NE
DSC_9943	Stone field drain, Trench 16	NW
DSC_9944	Detail of stone field drain, Trench 16	N
DSC_9945	Modern plough mark, Trench 16	N
DSC_9946	Clear boundary of quarry, near end of Trench 16	N
DSC_9948	Working shot, backfill operation, Trench 16	N
DSC_9949	Working shot, Trench 16	NE
DSC_9950	Working shot, Trench 16	NE
DSC_9951	General site view	NNE
DSC_9952	General site view	E
DSC_9953	General site view	ENE
DSC_9954	Working shot, backfill	NE

	operation, Trench 16	
DSC_9959	Detail of quarry boundary, Trench 16	NE
DSC_9960	General view of quarry boundary, Trench 16	NE
DSC_9962	View of completed Trench 16 indicating clear quarry boundary	SW
DSC_9964	Detail of Trench 16 indicating clear quarry boundary and modern debris within fill	N
DSC_9968	View of completed Trench 16 indicating clear quarry boundary	SW
DSC_9969	Mineralised/course sandy soil near end of Trench 16	SW
DSC_9970	Detail of mineralised/course sandy soil near end of Trench 16	----

#### **December 11<sup>th</sup>**

DSC_9978	Commencing Trench 17 with stone field drain	NE
DSC_9980	Detail of stone field drain, Trench 17	NE
DSC_9992	General shot of Trench 17	NE
DSC_9993	General shot of Trench 17	SW
DSC_9995	Quarry boundary in Trench 17	NE
DSC_9997	Quarry boundary in Trench 17	NE
DSC_9998	Modern debris/imported fill in Trench 17, quarried area	NE
DSC_9999	Modern debris/imported fill in Trench 17, quarried area	NE
DSC_0001	General shot, start location of Trench 18	NE

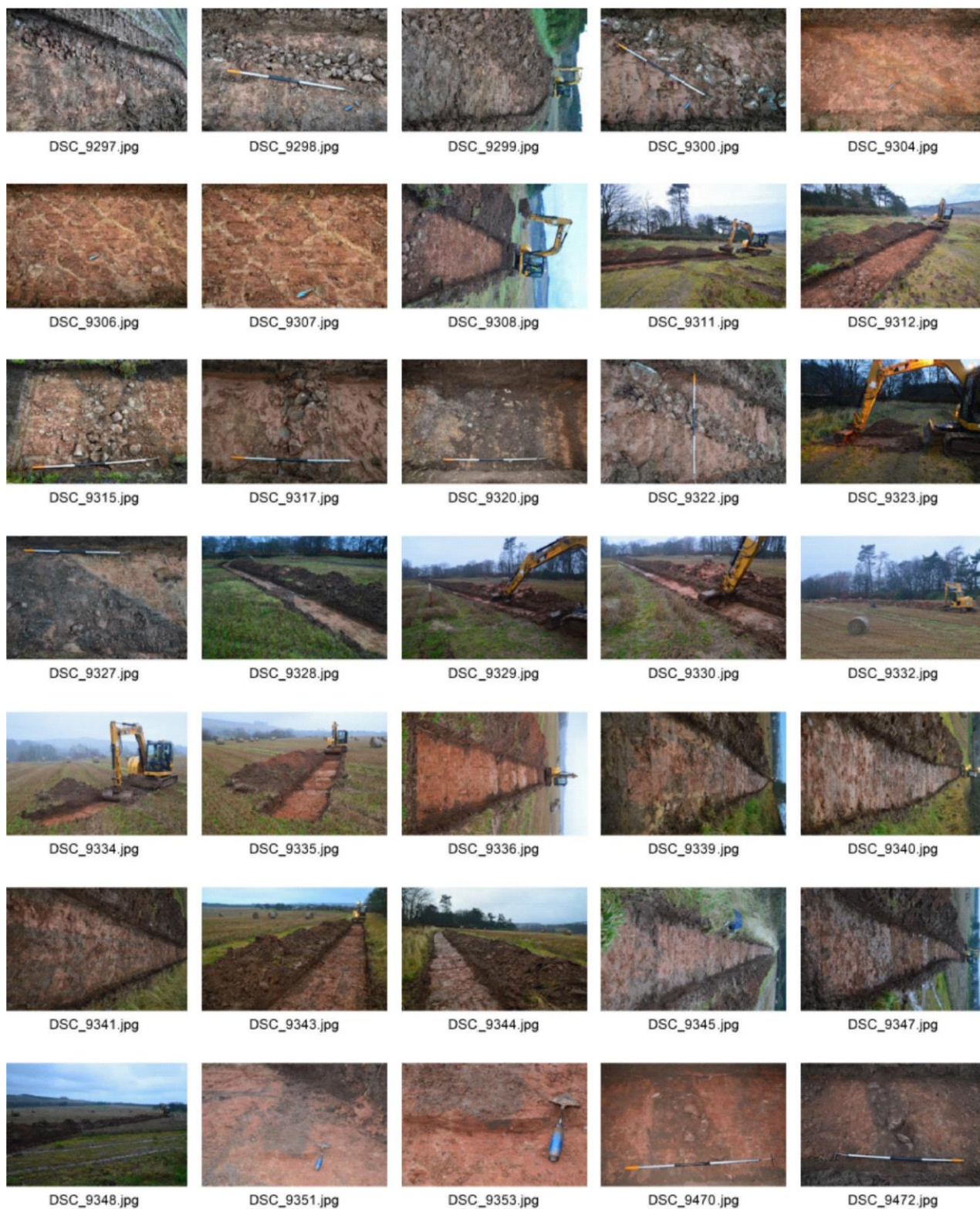
DSC_0003	General shot of backfilled Trench 17	NE
DSC_0004	General shot, start location of Trench 18	ENE
DSC_0005	Working shot, Trench 18	NE
DSC_0007	Detail of stone field drain	NW

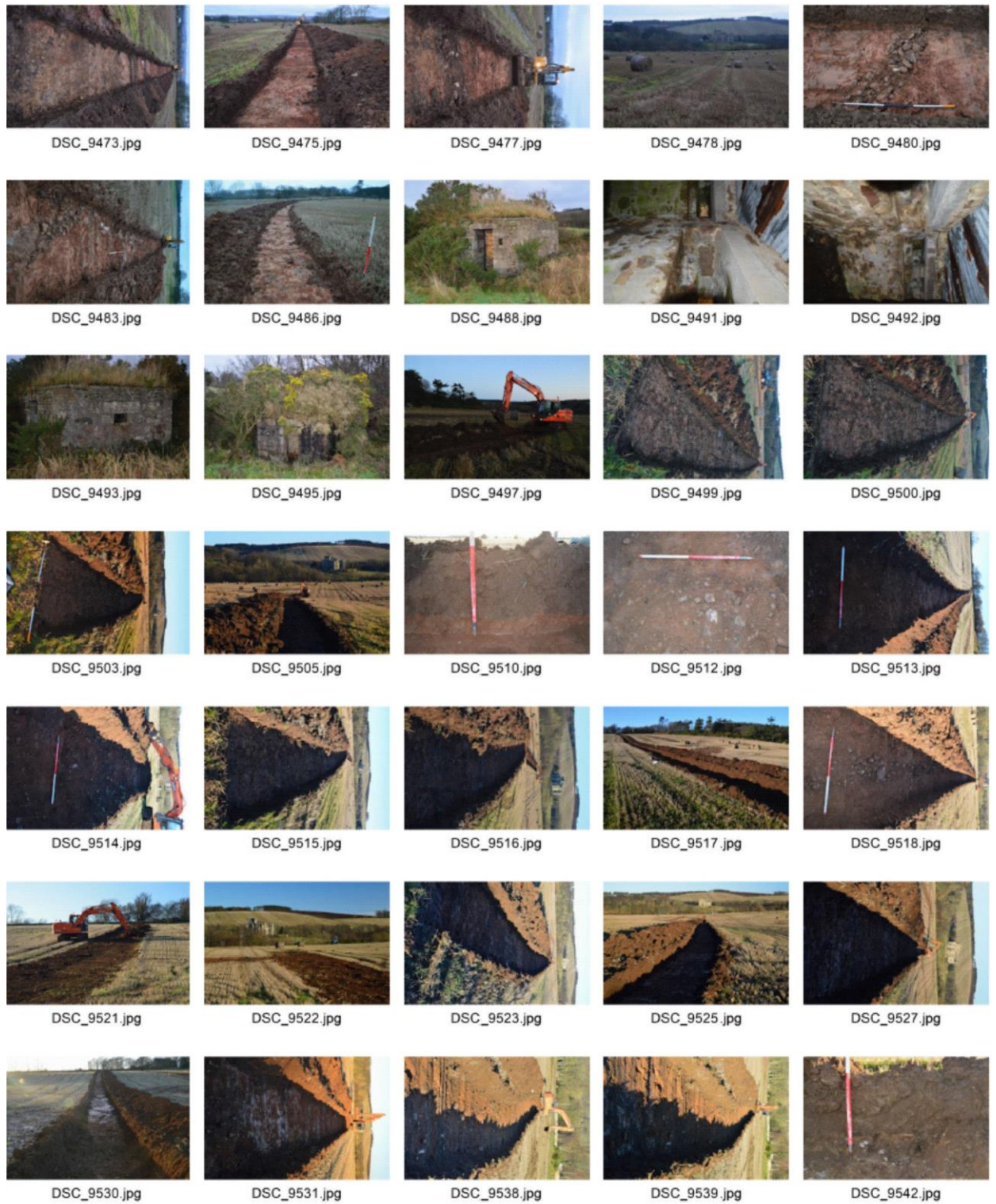
	(I), Trench 18	
DSC_0009	Detail of stone field drain (II), Trench 18	NW
DSC_0014	Stratigraphy and topsoil depth in Trench 18	NW
DSC_0015	Detail of stone field drain (III), Trench 18	NW
DSC_0017	Edge of quarried area with modern debris, Trench 18	NW
DSC_0018	Tyre in end of Trench 18 – quarry fill	NW
DSC_0019	Shot of completed Trench 18 with quarry edge visible	SW

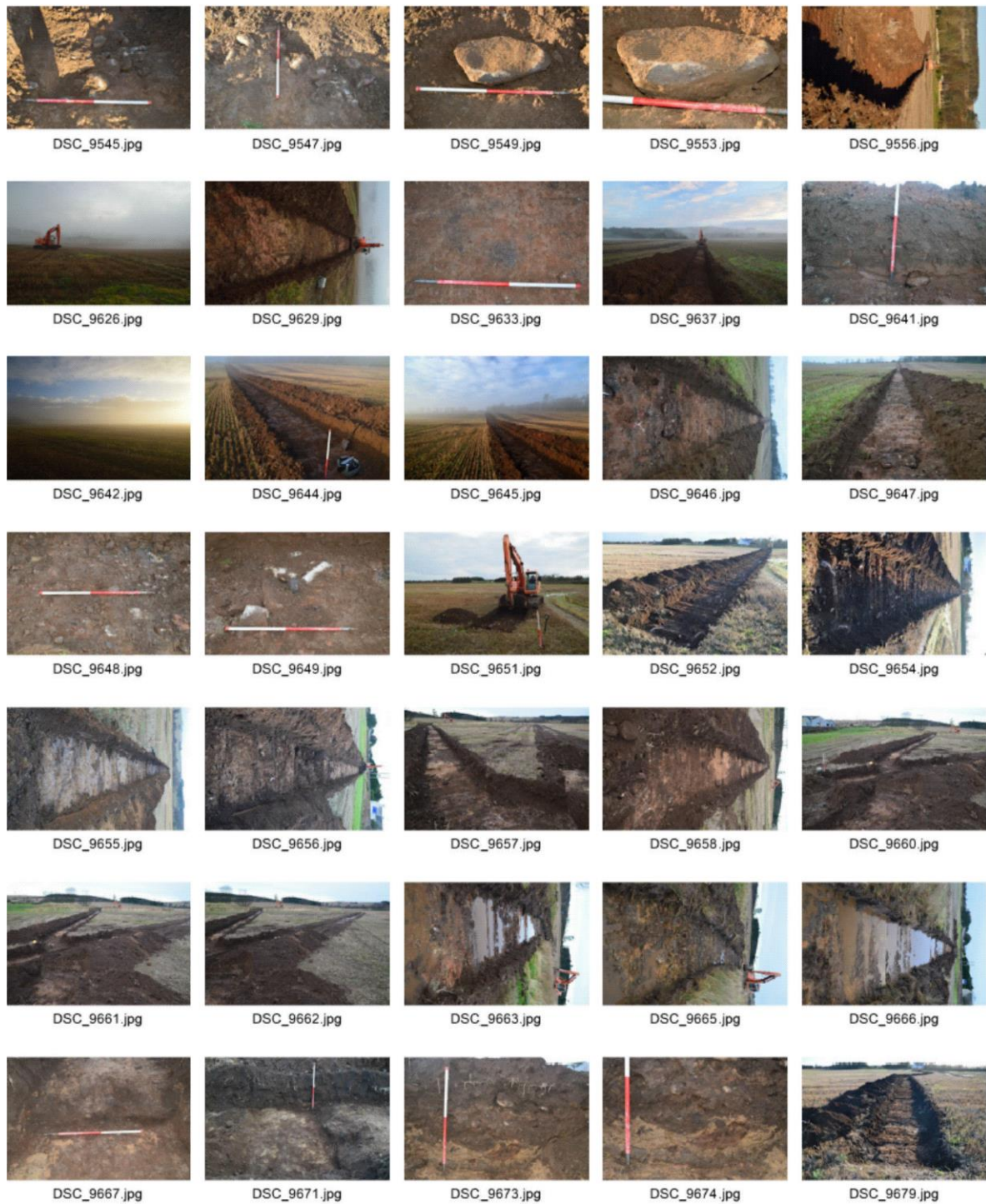
## December 12<sup>th</sup>

DSC_0022	Modern gravel field drain, Trench 19	
DSC_0023	Trench 19 nearing completion	
DSC_0026	Trench 19 nearing completion	
DSC_0027	Trench 19 nearing completion	
DSC_0028	Test Trench 20 (searching for quarry edge)	
DSC_0030	Test Trench 21 (searching for quarry edge)	
DSC_0031	Test Trench 21 (searching for quarry edge)	
DSC_0037	Modern gravel field drain, Test Trench 21	
DSC_0038	Expansion of Test Trench 21	
DSC_0039	Clear quarry edge visible in Test Trench 21	
DSC_0040	Reappearance of quarry infill, Trench 21	
DSC_0041	Exiting quarry infill for second time, Test Trench 21	
DSC_0042	View of completed Test Trench 21	
DSC_0043	View of completed Test Trench 21	











DSC\_9681.jpg



DSC\_9682.jpg



DSC\_9684.jpg



DSC\_9685.jpg



DSC\_9686.jpg



DSC\_9687.jpg



DSC\_9689.jpg



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DSC\_9695.jpg



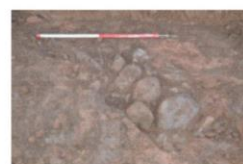
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DSC\_9896.jpg



DSC\_9897.jpg



DSC\_9898.jpg



DSC\_9900.jpg



DSC\_9903.jpg



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DSC\_9907.jpg



DSC\_9908.jpg



DSC\_9909.jpg



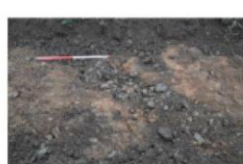
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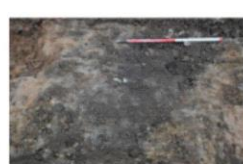
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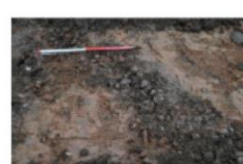
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DSC\_9914.jpg



DSC\_9916.jpg



DSC\_9917.jpg



DSC\_9918.jpg



DSC\_9919.jpg



DSC\_9920.jpg



DSC\_9929.jpg



DSC\_9931.jpg

