

# CFA Archaeology Ltd

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*Advice on Archaeology & Planning*

*Environmental Impact Assessment*

*Interpretation, Design & Display*

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*Historic Building Recording*

*Site & Landscape Survey*

*Geophysical Survey*

## **Tullo 2 Wind Farm Grid Connection Aberdeenshire**

### **Archaeological Watching Brief**

**Report No. 3123**

## **CFA ARCHAEOLOGY LTD**

The Old Engine House  
Eskmills Business Park  
Musselburgh  
East Lothian  
EH21 7PQ

Tel: 0131 273 4380

Fax: 0131 273 4381

email: [info@cfa-archaeology.co.uk](mailto:info@cfa-archaeology.co.uk)

web: [www.cfa-archaeology.co.uk](http://www.cfa-archaeology.co.uk)

Author	Andrew Brown MSc & Stuart Mitchell MA AIfA
Illustrator	Shelly Werner BSc MPhil PhD
Editor	Melanie Johnson MA PhD FSA Scot MIfA
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This document has been prepared in accordance with CFA Archaeology Ltd standard operating procedures.

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## **1. INTRODUCTION**

### **1.1 General**

This report presents the results of an archaeological watching brief undertaken by CFA Archaeology Ltd (CFA) between October 2013 and February 2014 during works for a cabled grid connection to Tullo 2 Wind farm, near Stonehaven (NGR NO 81675 81562, NO 75157 75752, NO 75827 72427). The work was commissioned by Ash Design and Assessment Ltd on behalf of Scottish and Southern Electricity.

The watching brief was required as part of a permitted development following a targeted walkover survey and Cultural Heritage Report (Hickman 2013) by CFA and was defined in a Written Scheme of Investigation (WSI) which was produced by CFA and agreed by Aberdeenshire Council Archaeology Service (ACAS).

The WSI formed an addendum to an earlier WSI dated 10 September 2013 which presented the results of the targeted walkover survey and updated recommendations for archaeological mitigation.

Site reference numbers refer to Gazetteer entries which are listed in Table 1

### **1.2 Objectives**

The objectives of the updated mitigation strategy were:

Phase 1a: Fencing-off of sites.

- The WSI states that known cultural heritage sites were required to be fenced off to protect them during the construction period if they were within the 15m wide wayleave for construction activities and then only if there was a possibility that they could not be naturally avoided by construction activities.

Phase 1b: Targeted Watching Brief.

- The WSI states that targeted watching briefs will be undertaken during cable trench excavation to a strategy agreed with ACAS following Phase 1a.
- Any other targeted locations required by ACAS.

## **2. METHODOLOGY**

### **2.1 General**

CFA follows Institute of Archaeologists Code of Conduct, Standards and Guidelines as appropriate.

### **2.2 Fencing-off Sites**

It was not considered necessary to fence off any of the sites identified during the walkover survey. Site 63 was not visited during the walkover survey.

### **2.3 Targeted Watching Brief**

Watching briefs were recommended in the vicinity of the following sites:

- Site 21c (NGR NO 77977 79387), Mill of Mondynes, former course of mill lade;
- Site 36 (NGR NO 75887 76854), Balfeith crop mark
- Site 43 (NGR NO 75640 76007) Whiteriggs, crop marks.

### **3. ARCHAEOLOGICAL RESULTS**

#### **3.1 Site 21c**

This site was a Mill Lade associated with an 18<sup>th</sup> Century corn mill recorded on the 1<sup>st</sup> Edition Ordnance Survey Map (1868) as 'Mill of Mondynes (corn)'. The mill runs NE to where it meets the river (the inflow lade) and S to again to the river (the outflow lade).

The cable trench was excavated through the site: however, a diverted stream which was created when the nearby A90 was built, intersects the route of the lade. As a result it appears unlikely that the mill lade has survived NW of this point. No stonework, ditches or other features associable with the mill lade were found.

#### **3.2 Site 36**

The SMR and RCAHMS database record that a linear crop mark forming a wide angle of a corner is visible on oblique aerial photographs.

The cable trench measured 3m to 4m wide along the full length of the site. No archaeological remains were found. However some evidence of rig-and-furrow was recorded. A sample section was excavated across one of the furrows (**004**) to confirm this interpretation. Two slightly different orientations of rig-and-furrow were recorded, suggesting either two different fields or two different phases of cultivation. The orientations recorded were N-S at the SW of the cable trench and NNE-SSW at the NE end of the cable trench.

#### **3.3 Site 43**

The SMR and RCAHMS database record that cropmarks of rig-and-furrow and a possible rectilinear enclosure are visible on oblique aerial photographs.

A section of the cable trench was excavated along the north-east and south-east of the Site. The watching brief showed that the site has been almost entirely removed by prior quarrying (**012**) associated with the construction of the A90. Natural (**010**) was sandy clay although only a strip c.1m wide was present along the edge of the site. Topsoil (**011**) was up to 1m deep. No archaeological remains were discovered.

#### 4. CONCLUSION

The archaeological mitigation works at Tullo 2 Wind farm, Aberdeenshire have been carried out. In accordance with the WSI dated 09 September 2013 no sites required to be fenced off. A watching brief was carried out and Sites 21c and 36.

No significant archaeological remains or deposits were discovered at Site 21c. The bulk of Site 21c has been almost completely removed due to prior quarrying work associated with the construction of the A90 road.

Remnants of rig-and-furrow cultivation were discovered at Site 36. No other archaeological remains or deposits were found.

CFA recommend that no further work is required in mitigation and that this report along with the *OASIS* and *Discovery and Excavation (Appendix 3) in Scotland* entries will be sufficient to disseminate the results of the project.

The project archive, comprising all CFA record sheets, maps and reports, will be deposited with the RCAHMS and copies of reports will be lodged with the Aberdeenshire Council Sites and Monuments Record.

#### 5. REFERENCES

Hickman, S. 2013m *Proposed Tullo 2 Wind Farm Grid Connection: Underground Cable Route, near Stonehaven, Aberdeenshire. Cultural Heritage Assessment. CFA Report No. 3030*

Ordnance Survey Kincardineshire, Sheet XX, Survey date: 1863-4 Publication date: 1868

## APPENDIX 1: Context Register

Context No.	Site No.	Description
001	36	Topsoil- reddish brown loam
002	36	Subsoil- greyish brownish red silt
003	36	Natural- red silty clay 50% gravel
004	36	Cut of furrow
005	36	Fill of furrow
006	21c	Turf and topsoil
007	21c	Made ground
008	21c	Buried topsoil
009	21c	Natural fine sand
010	43	Natural orange sandy clay
011	43	Topsoil
012	43	Quarry cut

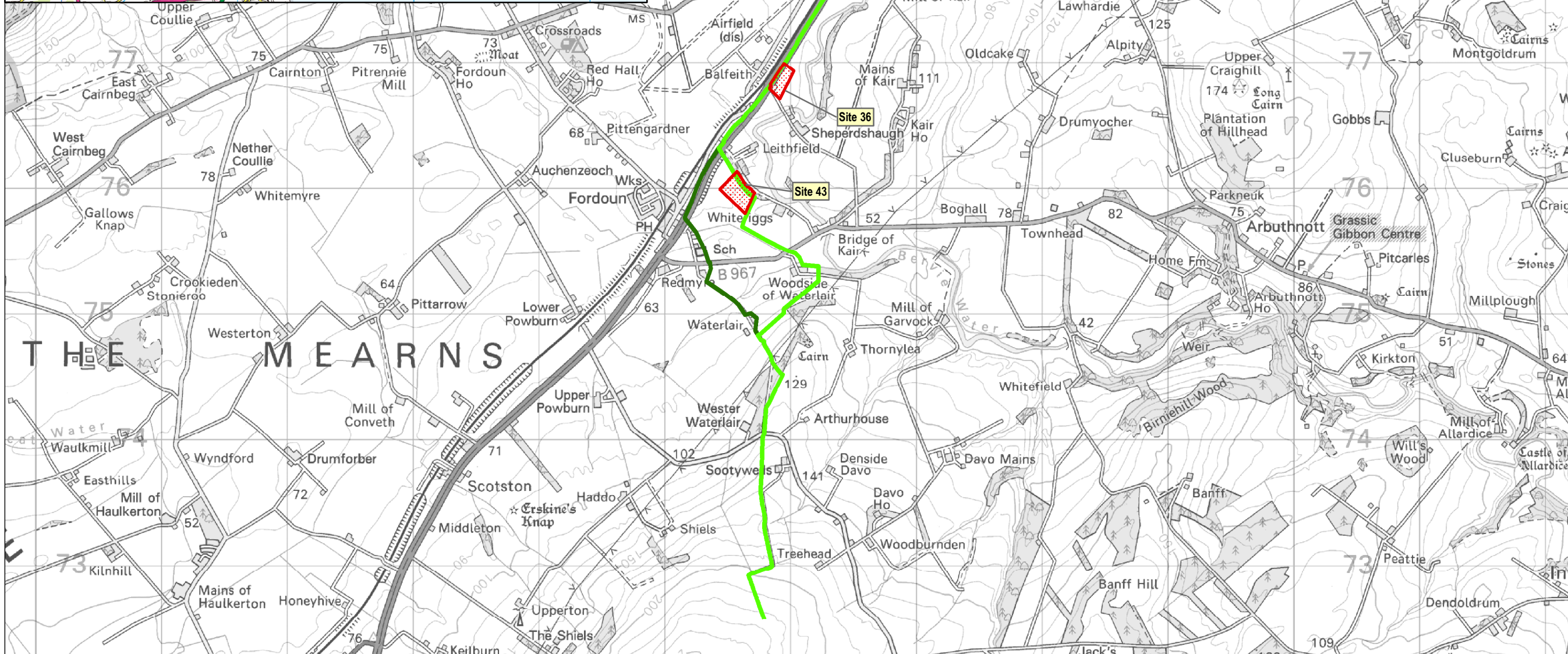
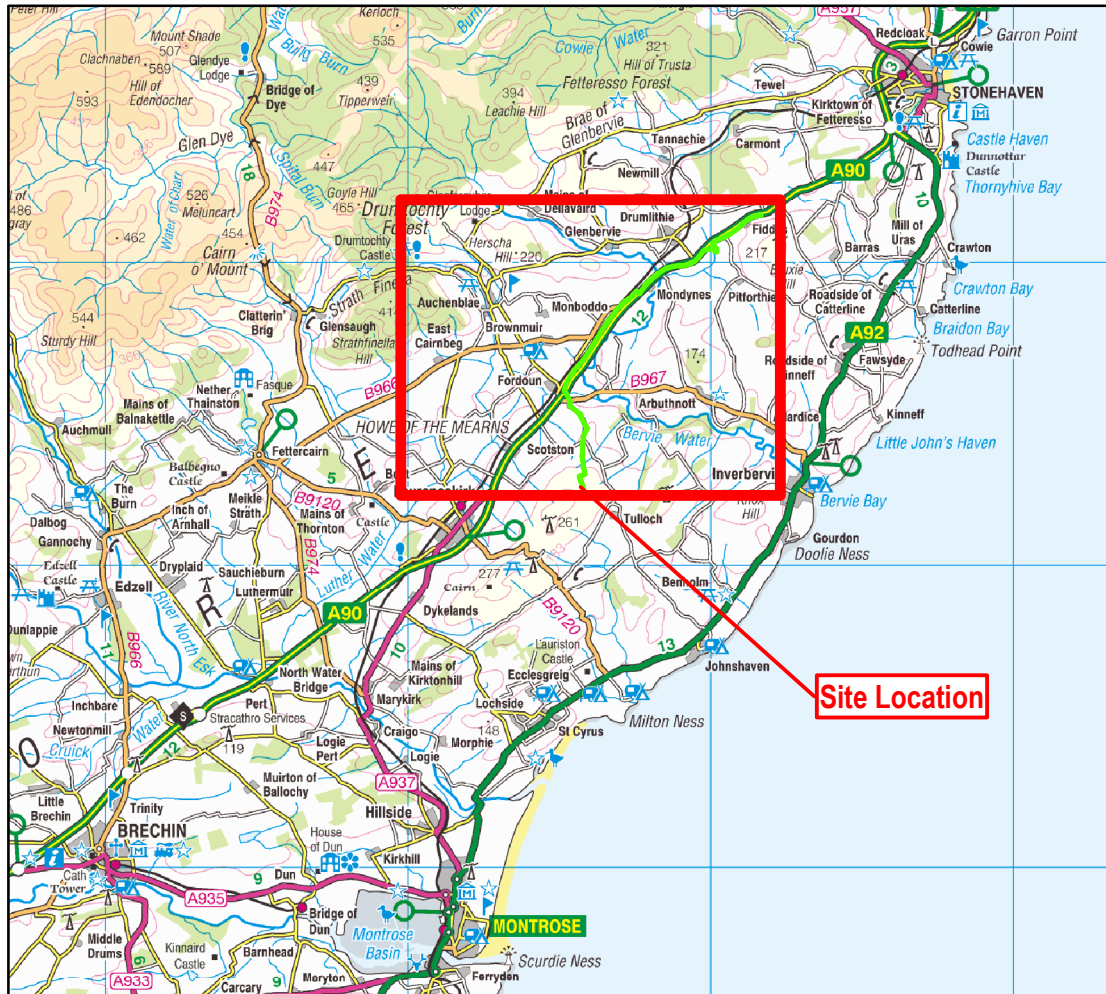
## APPENDIX 2: Photograph Register

Photo No.	Description	From
1	Site 36: Working shot	W
2	Site 36: Furrow (004)	NW
3	Site 36: Furrow (004)	NW
4	Site 36: Furrow (004)	N
5	Site 36: General view of furrows (004)	N
6	Site 36: General view of stripped area	SW
7	Site 36: Rubble drain	NE
8	Site 36: Furrow (004)	SW
9	Site 36: Section of furrow (004)	NW
10	Site 36: Section of furrow (004)	NW
11	Site 36: Furrows (004) at SW end of stripped area	NE
12	Site 36: Furrow (004)	SW
13	Site 36: General view of furrows (004)	SW
14	Site 36: General view of furrows (004)	SW
15	Site 36: General view of furrows (004)	NE
16	Site 21c: Working shot	SE
17	Site 21c: General landscape	S
18	Site 21c: Soil profile	E
19	Site 21c: Working shot	E
20	Site 21c: Made ground (007) within hollow	E
21	Site 21c: Made ground (007) within hollow	E
22	Site 21c: Buried topsoil (008)	E
23	Site 43: General view showing quarry cut	Various
24	Site 43: General view showing quarry cut	Various
25	Site 43: General view showing quarry cut	Various
26	Site 43: General view showing quarry cut	Various
27	Site 43: General view showing quarry cut	Various
28	Site 43: General view showing quarry cut	Various
29	Site 43: General view showing quarry cut	Various
30	Site 43: General view of cable route	N
31	Site 43: General view of cable route	E
32	Site 43: General view of cable route	NW
33	Site 43: General view of cable route	NW
34	Site 43: Soil profile	NW
35	Site 43: Soil profile	N
36	Site 43: Soil profile	NW



### APPENDIX 3: Discovery & Excavation in Scotland Entry

<b>LOCAL AUTHORITY:</b>	Aberdeenshire Council
<b>PROJECT TITLE/SITE NAME:</b>	Tullo 2 Wind farm.
<b>PROJECT CODE:</b>	THIG
<b>PARISH:</b>	Fordoun
<b>NAME OF CONTRIBUTOR:</b>	Andrew Brown & Stuart Mitchell
<b>NAME OF ORGANISATION:</b>	CFA Archaeology Ltd
<b>TYPE(S) OF PROJECT:</b>	Archaeological Watching Brief
<b>NMRS NO(S):</b>	NO77NE 33, NO77NE 0026, NO77NE 41
<b>SITE/MONUMENT TYPE(S):</b>	Crop marks, Mill lade
<b>SIGNIFICANT FINDS:</b>	None
<b>NGR</b>	NO 81675 81562, NO 75157 75752, NO 75827 72427
<b>START DATE</b> (this season)	16 October 2013
<b>END DATE</b> (this season)	18 February 2014
<b>PREVIOUS WORK</b> (incl. <i>DES</i> ref.)	N/A
<b>MAIN (NARRATIVE) DESCRIPTION:</b> (May include information from other fields)	A targeted archaeological watching-brief was carried out during ground-works for a grid connector cable for Tullo Hill Wind Farm. The watching brief was carried out at the site of a former corn mill and lade, and at two sites where cropmarks are visible on aerial photographs. No remains of the former mill were identified. Part of a rig-and-furrow cultivation system was revealed.
<b>PROPOSED FUTURE WORK:</b>	None
<b>CAPTION(S) FOR ILLUSTRS:</b>	N/A
<b>SPONSOR OR FUNDING BODY:</b>	ASH Design + Assessment on behalf of Scottish and Southern Electricity.
<b>ADDRESS OF MAIN CONTRIBUTOR:</b>	The Old Engine House, Eskmills Park, Musselburgh, EH21 7PQ
<b>EMAIL ADDRESS:</b>	cfa@cfa-archaeology.co.uk
<b>ARCHIVE LOCATION</b> (intended/deposited)	RCAHMS and Aberdeenshire Council Sites and Monuments Record



- Key**
- Watching Brief Areas
  - New Grid Connection Route
  - Old Grid Connection Route

**CFA** ARCHAEOLOGY LTD  
 The Old Engine House  
 Eskmills Park, Musselburgh  
 East Lothian, EH21 7PQ  
 T: 0131 273 4380  
 F: 0131 273 4381  
 e: info@cfa-archaeology.co.uk  
 w: www.cfa-archaeology.co.uk

Fig. No	1	Revision	
Title			
Location Map			
Project			
Tullo 2 Wind Farm Grid Connection, Aberdeenshire: Archaeological Mitigation Works			
Scale at A3			
1:35,000			
Client			
ASH Design+ Assessment Ltd on behalf of Scottish and Southern Electricity			
Drawn by:	Checked by:	Report No:	
SW	SM	3123	





Fig. 2 - Site 36 Rig-and-furrow



Fig. 3 - Site 21c Old ground surface



Fig. 4 - Site 43 Cut of quarry

Fig. No: <b>2-4</b>		Revision: <b>A</b>	Project: <b>Tullo 2 Wind Farm Grid Connection, Aberdeenshire: Archaeological Mitigation Works</b>		
Drawn by: <b>SW</b>	Checked: <b>LW</b>	Report No: <b>3123</b>	Client: <b>ASH Design + Assessment Ltd on behalf of Scot- tish and Southern Electricity</b>		

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