

# CFA Archaeology Ltd

*archaeological consultants*

*Advice on Archaeology & Planning*

*Environmental Impact Assessment*

*Interpretation, Design & Display*

*Finds/ Environmental Analysis*

*Field Evaluation & Excavation*

*Historic Building Recording*

*Site & Landscape Survey*

*Geophysical Survey*

## **Dungavel Wind Farm South Lanarkshire**

### **Archaeological Mitigation Works**

**Report No. 3193**

## **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
Illustrator	Tamlin Barton MA
Editor	Melanie Johnson MA PhD FSA Scot MIfA
Commissioned by	Natural Power Consultants Ltd
Date issued	January 2016
Version	1
OASIS Reference	cfaarcha1-180135
Grid Ref	NS 6793 3638 (centred)

This document has been prepared in accordance with CFA Archaeology Ltd standard operating procedures.

**Dungavel Wind Farm  
South Lanarkshire**

**Archaeological Mitigation Works**

**Report No. 3193**

## **CONTENTS**

1.	Introduction	3
2.	Working Methods	4
3.	Archaeological Results	5
4.	Conclusions	7
5.	References	7

## **Appendices**

1.	Digital Photographic Register	8
2.	Discovery & Excavation in Scotland Entry	9

## **Illustrations (bound at rear)**

Fig. 1 Location plan

Fig. 2 Site 1 pre-felling demarcation

Fig. 3 Site 2 pre-felling demarcation

Fig. 4 Site 3 pre-felling demarcation

Fig. 5 Site 8 pre-felling demarcation

Fig. 6 Grouse butts found during post-felling survey

Fig. 7 Felled area at T12

Fig. 8 Felled link road between T4 and T8

Fig. 9 Felled area at T7

Fig. 10 Felled area at T3

## **1. INTRODUCTION**

### **1.1 General**

This report presents the results of archaeological mitigation work by CFA Archaeology Ltd (CFA) between February and July 2014 at the site of the proposed Dungavel Wind Farm, South Lanarkshire (NGR: NS 6793 3638, Fig. 1). The work was commissioned by Natural Power Consultants Ltd.

Planning consent has been granted for the construction of 13 wind turbines together with associated infrastructure on land north-east of Dungavel Hill set within a commercial forest.

### **1.2 Background**

A Written Scheme of Investigation (WSI) produced by Headland Archaeology Ltd (2012) proposed a set of mitigation works to safeguard individual sites and monuments identified in the Environmental Statement (cultural heritage chapter, Headland Archaeology 2005).

The Environmental Statement identified 11 sites of archaeological interest inside the application area. A twelfth site (Site 12) lay outwith the final site boundary. One additional site, a shepherd's cairn (Site 13) was identified by Mott MacDonald's environmental team in forestry in the area of the proposed substation on the north-west flank of Side Hill. Site 13 was evaluated in May 2014 and the results reported under separate cover (Cressey 2014).

### **1.3 Objectives**

The objectives of the mitigation works were:

- To conduct a post-felling survey
- To identify the needs for any further work (Phase 2) arising out of the programme of work described above.

## **2. WORKING METHODS**

### **2.1 General**

All work was conducted in order to comply with the requirements of the WoSAS. CFA Archaeology Ltd follows the Institute for Archaeologists' Code of Conduct, Standards and Guidance where appropriate.

### **2.2 Pre-felling demarcation**

A site visit was conducted in February 2014 with the felling contractor to identify and demarcate the known cultural heritage sites within the felling area, and to ensure the felling contractors were aware of the locations of these sites. The felling contractor was briefed on the requirement for 'soft-felling' techniques when felling operations were carried out close to these sites.

### **2.3 Post-felling Walkover Survey**

The walkover survey was required following felling and prior to construction, and was carried out in July 2014. This was designed to identify any previously unrecorded archaeological features that might survive within the previously afforested area and thus be affected by the development. Appropriate mitigation proposals would be brought forward in relation to significant discoveries.

The survey was designed to provide a written and graphic account of the surface remains present. All individual features were described, photographed and sketched, and provided with an OS grid reference taken with DGPS.

### **3. ARCHAEOLOGICAL RESULTS**

The cultural heritage sites located within the windfarm application boundary are presented in Table 1 below, along with their proposed mitigation.

#### **3.1 Pre-felling survey**

Sites 1, 2, 3, 8 and 13 lie within the windfarm felling area and/or in proximity to infrastructure construction areas and were all located and demarcated during the pre-felling survey. Site 13 was subsequently excavated and removed (Cressey 2014).

Site 1 is a grass-covered cairn (Fig. 2) located in a clearing on the summit of Side Hill, and measures about 12m in diameter by 1m in height. It has a modern stone marker cairn on the top.

Site 2, although recorded as a possible cairn, is more likely to be a grouse butt (Fig. 3). It is a horseshoe-shaped turf and stone bank measuring 4m by 3m across and 1m high, with the opening on the south side.

Site 3 lay within tree cover and consists of a low stony mound covered in moss (Fig. 4), measuring about 1.5m across by 0.5m in height.

Site 8 is a roughly circular, drystone-walled sheepfold of about 13m diameter (Fig. 5), with the walls standing to about 1.3m in height.

Sites 4, 5, 6, 7, 9, 10 and 11 all lie outwith the construction and felling areas. All will be preserved in situ in their current condition and were not visited during the survey.

#### **3.2 Post-felling survey**

The walkover survey covered the infrastructure felling areas, following the existing and proposed access tracks, turbine base/crane hardstanding locations and borrow pits, compound and substation locations. Survey covered the corridor of the felled areas (Figs. 7-10).

Two additional archaeological sites were identified during the survey. These are both grouse butts (numbered 100 and 101) (Fig. 6) located to the south-east of Site 2, which, along with Site 2, form a NW/SE aligned row of grouse butts within a forest ride.

Site 100 survives as a horseshoe-shaped butt, built of turf and stone and measuring 4m by 3m across and 1m high, with the opening on the south side.

Site 101 survives as a horseshoe-shaped butt, built of turf and stone and measuring 4.5m by 3m across and 1.2m high, with the opening on the south side.

Table 1. Cultural heritage sites within windfarm

<b>Site</b>	<b>NGR</b>	<b>Description</b>	<b>Mitigation</b>
Site 1	NS 68039 36993	Side Hill Cairn (prehistoric funerary cairn)	Demarcate for duration of construction programme/felling in the vicinity
Site 2	NS 68179 36610	Davy's Cairn (uncertain antiquity / possible shepherd's cairn)	Demarcate for the duration of the construction programme/felling in the vicinity
Site 3	NS 68615 36611	Feeshie Cairn (uncertain antiquity / possible shepherd's cairn)	Demarcate for duration of construction programme/felling in the vicinity
Site 4	NS 69469 36248	Harting Rig Cairn (prehistoric funerary cairn);	None
Site 5	NS 69820 36040	Harting Rig, possible cairn, with a possible ditch and outer bank	None
Site 6	NS 69970 35280	Auchengilloch Hill (shepherd's cairn)	None
Site 7	NS 7063 3544	Auchengilloch Hill natural feature	None
Site 8	NS 67202 36240	Hall's Burn (sheepfold)	Demarcate for duration of construction programme/felling in the vicinity
Site 9	NS 67527 35390	Dungavel Hill Cairn (prehistoric funerary cairn), Scheduled Monument	None
Site 10	NS 67024 34376	Brown Hill (sheepfold)	None
Site 11	between NS 691 346 and NS 677 336	Powbrone Burn (lithics findspots)	None, unless track upgrade works required in this area, for which watching brief would be required
Site 13	NS 67044 37223	Side Hill (shepherd's cairn)	None
Site 100	NS 68207 36605	Grouse butt	Demarcate for duration of construction programme/felling in the vicinity
Site 101	NS 68249 36589	Grouse butt	Demarcate for duration of construction programme/felling in the vicinity

#### **4. CONCLUSION**

A programme of archaeological mitigation works was carried out at the site of the proposed Dungavel Windfarm during July 2014. This work consisted of pre-felling demarcation and post-felling walkover survey of the felled infrastructure areas prior to construction work commencing.

Sites 1, 2, 3 and 8 were demarcated prior to felling and will remain demarcated throughout the construction phase and any further felling as per the WSI.

Two new sites, identified as grouse butts, were recorded during the post-felling survey.

Track upgrade works in the vicinity of Site 11 were not carried out and no watching brief was undertaken.

CFA recommend that no further work is required prior to or during windfarm construction, though the final decision remains with WoSAS on behalf of the planning authority.

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

A summary statement of the results of this excavation will be submitted for publication in *Discovery and Excavation in Scotland* (Appendix 2).

#### **5. REFERENCES**

Cressey, M 2014 *Dungavel Windfarm, South Lanarkshire. Archaeological Evaluation Site 13*. CFA Archaeology Ltd Report No. 3167.



## APPENDIX 1: Digital Photographic Register

### *Pre-felling Demarcation*

Photo	Description	Taken From
1	Site 13	NE
2	Site 13	N
3	Site 2	SW
4	Site 2	NE
5	Site 2, from greater distance	NE
6	Site 1	E
7	Site 1	SE
8	Site 3	NW
9	Site 3	SW
10	Site 8	NE
11	Site 8	N

### *Post-felling Survey*

Photo no.	Description	Taken from
1-4	General of T14 Area	SW
5-6	General of T13 Area	S
7	General of link road between T13 and T14	N
8-11	General of T12 Area	S
12-14	General of T9 Area	E
15	General of link road between T9 and T5	NE
16-18	General of T5 Area	NW
19	Grouse Butt (100)	S
20	Grouse Butt (101)	S
21-22	General of BP6 Area	N
23	General of link road between T4 and T8	E
24-27	General of T8 Area	E
28	General of felling in T8 Area	N
29	General of link road between T8 and T7	
30-33	General of T7 Area	SE
34	General of T1 Area	SW
35-36	General of BP1 Area	NE
37	General of link road between BP1 and T2	W
38-40	General of BP2 and T2 Area	NW
41-42	General of link road between T2 and T3	SE NW
43-47	General of T3 Area	Approx 360° centred on turbine area
48-50	General of link road between T3 and T4	SE SW
51-53	General of BP5 area	
54	General of T9 area	S
55	General of T9 area	N
56	General of T9 area	W
57	General of T9 area	E
58	General of link between T5 and BP4	W
59	General of area between BP4 and T3	S
60	General of area between BP4 and T3	N
61	General of area between BP4 and T3	W
62	General of area between BP4 and T3	E
63	General of T11 area	S
64	General of T11 area	N

65	General of T11 area	W
66	General of T11 area	E
67	General of BP3 area	W
68	General of T10 area	N
69	General of T10 area	S
70	General of T10 area	E
71	General of T10 area	W
72	General of BP3 area	
73	General of BP3 area	
74	General of BP1 area	S
75	General of BP1 area	S

## APPENDIX 2: Discovery and Excavation in Scotland Entry

<b>LOCAL AUTHORITY:</b>	South Lanarkshire
<b>PROJECT TITLE/SITE NAME:</b>	Dungavel Windfarm
<b>PROJECT CODE:</b>	GAVE
<b>PARISH:</b>	Avondale
<b>NAME OF CONTRIBUTOR:</b>	Mike Cressey
<b>NAME OF ORGANISATION:</b>	CFA Archaeology Ltd
<b>TYPE(S) OF PROJECT:</b>	Evaluation, Survey
<b>NMRS NO(S):</b>	None
<b>SITE/MONUMENT TYPE(S):</b>	None
<b>SIGNIFICANT FINDS:</b>	None
<b>NGR</b>	NS 680 364
<b>START DATE</b>	May 2014
<b>END DATE</b>	July 2014
<b>PREVIOUS WORK</b> (incl. <i>DES</i> ref.)	-
<b>MAIN (NARRATIVE) DESCRIPTION:</b> (May include information from other fields)	<p>As part of a programme of mitigation works prior to the construction of Dungavel Windfarm, a shepherd's cairn was evaluated to establish its archaeological significance. The shepherd's cairn was deconstructed and found to be a random collection of stone measuring about 1m high and 2.5m in circumference at its base, resting on top of topsoil, with bedrock beneath.</p> <p>A programme of survey was conducted to carry out pre-felling demarcation and post-felling walkover survey of the felled infrastructure areas prior to construction work commencing.</p>
<b>PROPOSED FUTURE WORK:</b>	None
<b>CAPTION(S) FOR ILLUSTRS:</b>	N/A
<b>SPONSOR OR FUNDING BODY:</b>	Natural Power Consultants Ltd
<b>ADDRESS OF MAIN CONTRIBUTOR:</b>	The Old Engine House, Eskmills Park, Musselburgh, EH21 7PQ
<b>EMAIL ADDRESS:</b>	<a href="mailto:cfa@cfa-archaeology.co.uk">cfa@cfa-archaeology.co.uk</a>
<b>ARCHIVE LOCATION</b> (intended/deposited)	RCAHMS South Lanarkshire Sites and Monuments Record









*Fig. 2 - Site 1 pre-felling demarcation*



*Fig. 3 - Site 2 pre-felling demarcation*



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

Title:  
**Photos**

Project:  
**Post Felling Survey, Dungavel Wind Farm**

Fig. **2 - 3** Report: **3193** Drawn: **TB** CKD: **MJ** Date: **05/08/14**

Client:  
**Natural Power**

Scale:



The copyright in this document (including its electronic form) shall remain vested in CFA Archaeology Ltd (CFA) but the Client shall have a licence to copy and use the document for the purpose for which it was provided. CFA shall not be liable for the use by any person of this document for any purpose other than that for which the same was provided by CFA. This document shall not be reproduced in whole or in part or relied upon by third parties for any use whatsoever without the express written authority of CFA.

Reproduced with the permission of Ordnance Survey on behalf of The Controller of Her Majesty's Stationery Office.  
© Crown copyright. CFA Archaeology Ltd, Old Engine House, Eskmills Park, Musselburgh EH21 7PQ AL100034785





*Fig. 4 - Site 3 pre-felling demarcation*



*Fig. 5 - Site 8 pre-felling demarcation*



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

**Title:**  
 Photos  
**Project:**  
 Post Felling Survey, Dungavel Wind Farm

Fig. 4 - 5	Report: 3193	Drawn: TB	CKD: MJ	Date: 05/08/14
Client: Natural Power				
Scale:				



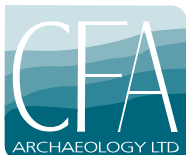
The copyright in this document (including its electronic form) shall remain vested in CFA Archaeology Ltd (CFA) but the Client shall have a licence to copy and use the document for the purpose for which it was provided. CFA shall not be liable for the use by any person of this document for any purpose other than that for which the same was provided by CFA. This document shall not be reproduced in whole or in part or relied upon by third parties for any use whatsoever without the express written authority of CFA.

Reproduced with the permission of Ordnance Survey on behalf of The Controller of Her Majesty's Stationery Office.  
 © Crown copyright. CFA Archaeology Ltd, Old Engine House, Eskmills Park, Musselburgh EH21 7PQ AL100034785





*Fig. 6 - Grouse Butts found during post-felling survey*



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

Title:  
**Photos**

Project:  
**Post Felling Survey, Dungavel Wind Farm**

Fig. **6** Report: **3193** Drawn: **TB** CKD: **MJ** Date: **05/08/14**

Client:  
**Natural Power**

Scale:



The copyright in this document (including its electronic form) shall remain vested in CFA Archaeology Ltd (CFA) but the Client shall have a licence to copy and use the document for the purpose for which it was provided. CFA shall not be liable for the use by any person of this document for any purpose other than that for which the same was provided by CFA. This document shall not be reproduced in whole or in part or relied upon by third parties for any use whatsoever without the express written authority of CFA.

Reproduced with the permission of Ordnance Survey on behalf of The Controller of Her Majesty's Stationery Office.  
© Crown copyright. CFA Archaeology Ltd, Old Engine House, Ekmills Park, Musselburgh EH21 7PQ AL100034785





*Fig. 7 - Felled area at T12*



*Fig. 8 - Felled link road between T4 and T8*



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

Title:  
**Photos**

Project:  
**Post Felling Survey, Dungavel Wind Farm**

Fig. **7 - 8** Report: **3193** Drawn: **TB** CKD: **MJ** Date: **05/08/14**

Client:  
**Natural Power**

Scale:



The copyright in this document (including its electronic form) shall remain vested in CFA Archaeology Ltd (CFA) but the Client shall have a licence to copy and use the document for the purpose for which it was provided. CFA shall not be liable for the use by any person of this document for any purpose other than that for which the same was provided by CFA. This document shall not be reproduced in whole or in part or relied upon by third parties for any use whatsoever without the express written authority of CFA.

Reproduced with the permission of Ordnance Survey on behalf of The Controller of Her Majesty's Stationery Office.  
© Crown copyright. CFA Archaeology Ltd, Old Engine House, Ekmills Park, Musselburgh EH21 7PQ AL100034785





*Fig. 9 - Felled area at T7*



*Fig. 10 - Felled area at T3*



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

<b>Title:</b> Photos	<b>Fig.</b> 9 - 10	<b>Report:</b> 3193	<b>Drawn:</b> TB	<b>CKD:</b> MJ	<b>Date:</b> 05/08/14
<b>Project:</b> Post Felling Survey, Dungavel Wind Farm	<b>Client:</b> Natural Power				
		<b>Scale:</b>			

The copyright in this document (including its electronic form) shall remain vested in CFA Archaeology Ltd (CFA) but the Client shall have a licence to copy and use the document for the purpose for which it was provided. CFA shall not be liable for the use by any person of this document for any purpose other than that for which the same was provided by CFA. This document shall not be reproduced in whole or in part or relied upon by third parties for any use whatsoever without the express written authority of CFA.

Reproduced with the permission of Ordnance Survey on behalf of The Controller of Her Majesty's Stationery Office.  
 © Crown copyright. CFA Archaeology Ltd, Old Engine House, Ekmills Park, Musselburgh EH21 7PQ AL100034785

