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Wind Turbine at Hillhead Farm, Carberry Musselburgh, East Lothian

Archaeological Archive Assessment and Monitored Soil Strip

Report No. 3115

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Wind Turbine at Hillhead Farm Whitecraig, East Lothian

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1. INTRODUCTION

1.1 General

This report presents the results of an archaeological archive assessment and monitored soil strip undertaken by CFA Archaeology Ltd (CFA) in January 2014 at Hillhead Farm, Carberry, Musselburgh (NGR: NT 37437 69897) (Fig1). The work was commissioned by Ms Elayne Blackwood (Ms Blackwood).

A Written Scheme of Investigation (WSI) dated 04 November 2013 was produced by CFA on behalf of Ms Blackwood. The WSI was designed to fulfil the requirements of East Lothian Council Archaeology Service (ELCAS).

1.2 Background

Planning Permission (13/00528/P) has been granted for the construction of a wind turbine on land at Hillhead Farm, Whitecraig. The planning permission was subject to an archaeological condition requiring an archive assessment and monitored soil strip.

The location of the wind turbine is c.120m to the north-west of Hillhead Farm at an altitude of c.140m AOD on Carberry Hill. This location affords panoramic views to the north, north-west and north-east, across the Lothians to Edinburgh and the Fife coast beyond. It lies within improved agricultural land which is currently used for horse livery.

1.3 Objectives

The objectives of the programme of archaeological works were:

- To conduct an appropriate programme of archaeological investigation (monitored strip) to monitor all groundbreaking works for the construction of the turbine, to ensure works are cleared of topsoil and other modern overburden to identify either undisturbed natural subsoil or archaeological features (whichever comes first).
- To mitigate the effects of construction on any archaeological deposits or features identified through excavation and recording and produce a report on them.

2. WORKING METHODS

2.1 General

CFA Archaeology Ltd follows the Institute for Archaeologists' Code of Conduct, Standards and Guidance for Archaeological Field Evaluations.

2.2 Archaeological Archive Assessment

The historic map collection held by the National Libraries of Scotland (NLS) was examined for information on pre-recent land use within the proposed development area. The maps examined included the Ordnance Survey 6" and 25" map editions, together with other readily available cartographic information.

The National Monuments Record of Scotland (NMRS) and the 'Pastmap' (<http://jura.rcahms.gov.uk/PASTMAP/Map>) website were consulted to obtain information on known archaeological sites within the proposed development area.

2.3 Monitored Strip

At NGR NT 37437 69897 (Fig.2) a turbine base measuring 4m by 4m was stripped of topsoil (Fig.3) prior to being excavated to its full depth of c.1m (Fig.4). A c.140m long cable trench with a width of 0.3m and depth of 0.8m (Fig.5) was then excavated from the turbine base to the north-west corner of the westernmost barn at Hillhead Farm (NGR NT 37556 69820).

Topsoil and overburden was removed by a 3CX type mechanical excavator equipped with a smooth-bladed bucket. All groundbreaking work was carried out under constant archaeological supervision. All further excavation required to fulfil the objectives of the WSI was carried out by hand.

The stratification of all excavated areas was recorded, whether or not significant archaeological deposits were identified.

3. ARCHAEOLOGICAL RESULTS

3.1 Archive Assessment

NMRS Sites

The NMRS does not list any sites within the location in which the wind turbine is situated. The closest recorded prehistoric sites are forts at Queen Mary's Mount (NT36NE 6) and at West Mains (NT37SE 26), both of which are scheduled monuments (Index Numbers 6204 and 4004 respectively). Later sites consist of the lands associated with Carberry Tower which have been designated by Historic Scotland under the category of Gardens and Designed Landscapes. These gardens have their origins in the mid-18th century with later redesigns in the early and late 19th century, and a formal garden laid out in 1911. Carberry Tower North Lodge quadrants and retaining walls (HB No.10872), and Carberry Gardens cottage (HB No.10866) are category C-listed, while Carberry Tower game larder (HB No.10870) and Carberry Tower Stables (Elphinstone Wing) (HB No.10874) are category B-listed.

Cartographic Sources

The earliest map consulted was Adair's map of 1682, which depicts Carberry, Falside, Cousland (annotated *Causland*) and Elphinstone (annotated *Elphinston*). There is no identifiable settlement within the location of Hillhead Farm and there is insufficient detail to allow the development area to be accurately pinpointed.

The earliest map to allow the approximate position of the wind turbine to be identified is Roy's military map of c.1750. Roy's map depicts a settlement annotated *Carberryhill*, which is thought to be on the site of the current Hillhead Farm. The turbine location appears to lie within an open area to the north-west of this settlement bordered by areas of rig-and-furrow cultivation.

The name *Carberryhill* also appears on maps by Laurie (1766 and 1786), while maps by Knox (1812), Kirkwood (1817) and Thomson (1821) record the name as *Carberry Hillhead*. Forrest's map of 1799 records the current name of *Hillhead*, but the evidence from the aforementioned later maps suggests that this did not become standardised until the First edition Ordnance Survey map of 1854. None of the aforementioned pre Ordnance Survey Editions contained sufficient detail to allow the location of the wind turbine to be pinpointed.

The earliest map to show the proposed development area in detail is the First Edition 6" Ordnance Survey map of 1854 (surveyed 1852-53). This map depicts the turbine location as undeveloped farmland. Hillhead Farm appears substantially different from its current layout, largely consisting of a rectangle of buildings around a central courtyard. Also depicted is a thick shelterbelt to the north, the line of which would have been cut by the cable trench. Later OS editions show the development of Hillhead Farm with additional buildings being added, but the area in which the turbine is located remained undeveloped.

3.2 Monitored Strip

The topsoil deposits consisted of 0.2m to 0.3m of mid-brown silt overlying orange-brown sand mixed with chunks and slabs of degraded sandstone bedrock.

There were no features, deposits or artefacts of archaeological significance identified within the areas stripped for the turbine base or cable trench.

4. CONCLUSIONS

An archaeological archive assessment and monitored soil strip were carried out at Hillhead Farm for the construction of a wind turbine. Information obtained from the 'Pastmap' website suggested that there were no known cultural heritage sites within the immediate vicinity. Cartographic evidence suggested that there had been no pre-recent development within the turbine location.

The monitored soil strip did not identify any features, deposits or artefacts of archaeological significance.

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

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 East Lothian Council Sites and Monuments Record.

5. REFERENCES

5.1 Cartographic

Adair, J 1682 *Map of Midlothian*

Adair, J 1682 *Map of East Lothian*

Adair, J 1735 *A map of Midlothian*

Adair, J 1736 *A map of East Lothian*

Forrest, W 1799 *Map of Haddingtonshire*

Kirkwood, R 1817 *A map of the environs of Edinburgh*

Knox, J, 1812 *Map of the shire of Edinburgh*

Laurie, 1766 *A plan of Edinburgh and places adjacent*

Laurie, 1786 Aplan of Edinburgh and the country adjacent

Ordnance Survey 1st Edition 6” 1854 *Haddingtonshire Sheet XIII*

Ordnance Survey 1st Edition 25” 1894 *Edinburghshire 004.16*

Ordnance Survey 2nd Edition 25” 1907 *Edinburghshire 004.16*

Ordnance Survey 25” 1914 *Edinburghshire 004.16*

Roy, W 1747-55 *Military Survey of Scotland*

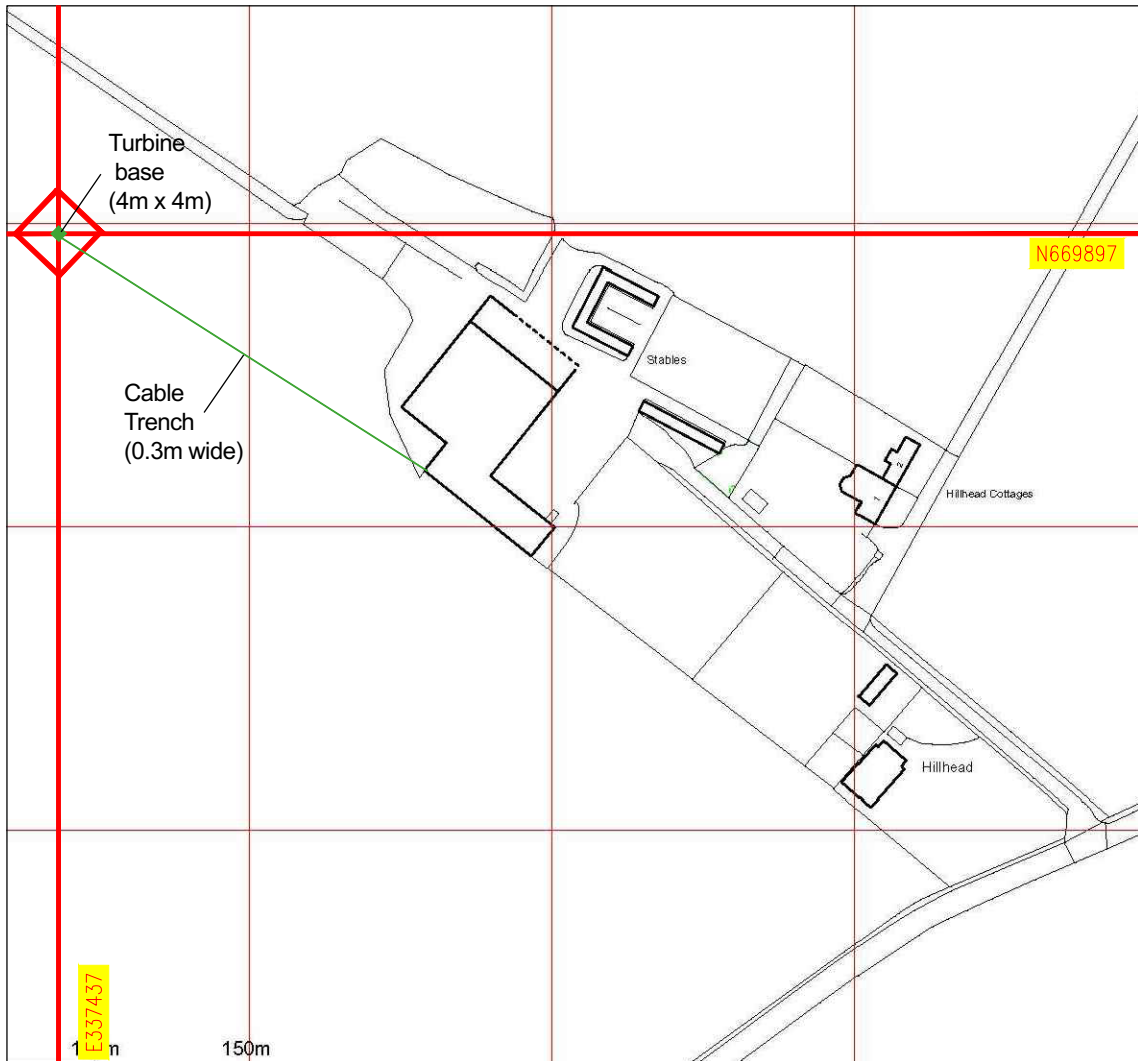
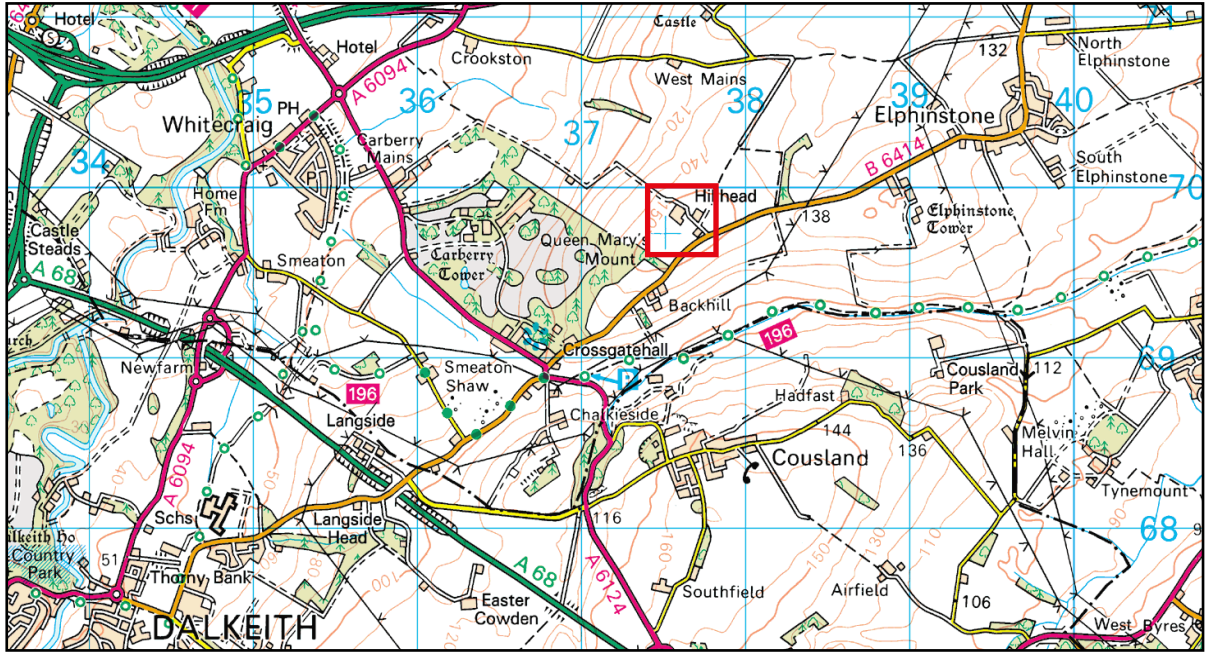
Thomson, J 1821, *Edinburghshire*

APPENDIX 1: Digital Photographic Register

No.	Description	From	Conditions
1	Location of turbine base pre-excavation	S	Overcast
2	Working shot showing turbine base under excavation	SW	Rain
3-4	Turbine base stripped to the level of the natural subsoil	SW	Rain
5	Turbine base under excavation to full depth	SW	Rain
6	Turbine base under excavation to full depth	NW	Rain
7	Working shot showing excavation of start of cable trench	NW	Rain
8	Cable trench partially excavated	SE	Rain
9	Cable trench partially excavated	NW	Rain
10	Cable trench partially excavated	SE	Rain
11-12	Final section of cable trench terminating at Hillhead Farm	NW	Overcast
13	Blue plastic waterpipe within cable trench	N	Overcast
14	Blue plastic waterpipe cut by machine	N	Overcast

APPENDIX 2: Discovery and Excavation in Scotland Entry

LOCAL AUTHORITY:	East Lothian
PROJECT TITLE/SITE NAME:	Wind Turbine at Hillhead Farm, Whitecraig
PROJECT CODE:	ELAY
PARISH:	Inveresk
NAME OF CONTRIBUTOR:	Magnus Kirby
NAME OF ORGANISATION:	CFA Archaeology Ltd
TYPE(S) OF PROJECT:	Archive Assessment and Monitored Soil Strip
NMRS NO(S):	N/A
SITE/MONUMENT TYPE(S):	N/A
SIGNIFICANT FINDS:	None
NGR (2 letters, 10 figures)	NT 37437 69897
START DATE (this season)	06 January 2014
END DATE (this season)	07 January 2014
PREVIOUS WORK (incl. <i>DES</i> ref.)	None
MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields)	An archaeological archive assessment and monitored soil strip were carried out at Hillhead Farm for the construction of a wind turbine. The monitored soil strip did not identify any features, deposits or artefacts of archaeological significance.
PROPOSED FUTURE WORK:	None
CAPTION(S) FOR ILLUSTRS:	N/A
SPONSOR OR FUNDING BODY:	Ms Elayne Blackwood
ADDRESS OF MAIN CONTRIBUTOR:	The Old Engine House, Eskmills Park, Musselburgh, EH21 7PQ
EMAIL ADDRESS:	cfa@cfa-archaeology.co.uk
ARCHIVE LOCATION (intended/deposited)	RCAHMS East Lothian Council Sites and Monuments Record



Key:



Fig. No: 1 Revision: A Client: Elayne Blackwood

Title: Location map and areas monitored

Project: Wind Turbine at Hillhead Farm

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Scale at A4: 1:2500

Drawn by: TB Checked: MK Report No: 3115



Fig. 2 - Turbine location pre-excavation



Fig. 3 - Turbine base excavated to natural subsoil




Fig. No: 2-3		Revision: A	Project: Wind Turbine at Hillhead Farm
Drawn by: TB	Checked: MK	Report No: 3115	Client: Elayne Blackwood
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Fig. 4 - Turbine base excavated to full depth



Fig. 5 - Line of cable trench looking NW

Fig. No: 4-5	Revision: A	Project: Wind Turbine at Hillhead Farm			CFA ARCHAEOLOGY LTD The Old Engine House Eskmills Park, Musselburgh East Lothian, Eh21 7PQ
Drawn by: TB	Checked: MK	Report No: 3115			Client: Elayne Blackwood

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