Heckington Fen Wind Farm S36 Variation Application by Ecotricity

to

The Department of Energy & Climate Change

for

up to 22 Wind Turbines with a increased rotor diameter of up to 103 m whilst retaining consented tip height of 125 m

# **REPORT APPENDIX A**

Background Noise Surveys (BNS)
Supporting Documents & BNS Location Photos.

# Wind Turbine Noise Impact Assessment Appraisal by John Yelland MA DPhil (Oxon) MInstP FIET MIOA AMASA

Commissioned and funded by local communities comprising:

Heckington Parish Council South Kyme Parish Council Amber Hill Parish Council

Supported by:

Holland Fen with Brothertoft Parish Council Swineshead Parish Council Great Hale Parish Council

Local residents supported by:

Heckington Fen Wind Turbine Action Group

Secretary Heck Off

Chestnut House, Maryland Bank, Amber Hill Lincs PE20 3RW

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# Contents:

1. The Old Church.  1. BNS Location The Old Church. Table C1.	Dago 2
1. BNS Location The Oid Church. Table C1.  1. BNS Location Old Church. Figures C1,C2, C3, C4.	Page 3 Page 4 - 5
1. BNS Location Old Church. Aerial view ANIA1 Figure 7. Photo 1.1	Page 6
1. BNS Location Old Church. Photos 1.2 & 1.3.	Page 7
	-
2. College Farm.	D 0
2. BNS Location College Farm. Table C2	Page 8
2. BNS Location College Farm. Figures C5, C6, C7, C8.	Page 9 - 10
2. BNS Location College Farm. Fig 8 Aerial View & Photo 2.1	Page 11
2. BNS Location College Farm. Photo 2.2 & Caton House NIA Appraisal Fig 9.	Page 12
<ol> <li>BNS Location College Farm. Photo 2.3 Caton House &amp; 2.4 Caton House.</li> <li>BNS Location College Farm. Photo 2.5 Caton House &amp; 2.6 Caton House.</li> </ol>	Page 13 Page 14
2. BN3 Location College Farm. Frioto 2.3 Catom riouse & 2.0 Catom riouse.	Tage 14
3. No 2 The Council Houses.	
3. BNS No 2 The Council Houses. Table C3.	Page 15
3. BNS No 2 The Council Houses. Figures C9, C10, C11, C12.	Page 16 - 17
3. BNS No 2 The Council Houses. NIA Appraisal Aerial View Figure 10 & Photo 3.1.	Page 18
3. BNS No 2 The Council Houses. Photos 3.2, 3.3, 3.4 & 3.5.	Page 19 - 20
4. Side Bar Lane PROXY.	
4. BNS Side Bar Lane PROXY. Table C4	Page 21
4. BNS Side Bar Lane PROXY. NIA Appraisal Figure 11 & Figure 13 Aerial View.	Page 22
4. BNS Side Bar Lane PROXY. Figure C13 & Photo 4.1.	Page 23
4. BNS Side Bar Lane PROXY. Figure C15 & Photo 4.2	Page 24
4. BNS Side Bar Lane PROXY. Photo 4.3 & NIA Appraisal Figure 12	Page 25
4. BNS Side Bar Lane PROXY. Figure C14 & C16	Page 26
4. BNS Side Bar Lane PROXY. Photos 4.5 & 4.6	Page 27
5. Glebe Farm.	
5. BNS Glebe Farm. Table C5.	Page 28
5. BNS Glebe Farm. Figures C17, C18, C19, & C20	Page 29 - 30
5. BNS Glebe Farm. NIA Appraisal Figure 14. Aerial View.	Page 31
5. BNS Glebe Farm. BNS Location Photos 5.1 & 5.2	Page 32
5. BNS Glebe Farm. BNS Location A Photos 5.3, 5.4, 5.5 & 5.6	Page 33 - 34
5. BNS Glebe Farm. BNS Location A Photos 5.7, 5.8 & 5.9	Page 35 - 36
5. BNS Glebe Farm BNS Location B Photos. 5.10, 5.11, 5.12 & 5.13	Page 37 - 38
5. BNS Glebe Farm BNS Location B Photos. 5.14 & 5.16.	Page 39
6. Mill Green Farm PROXY.	
6. Mill Green Farm. PROXY. Table C6	Page 40
6. Mill Green Farm. PROXY. Figures C21, C22, C23 & C24	Pages 41 - 42
6. Mill Green Farm. PROXY Photos 6.1, 6.2, 6.3 & 6.4	Pages 43 - 44
·	<del>-</del>

1. BNS The Old Church. Hoare Lea NIA Appendix 10C Table C1 Figures C1-C4. NIA Appraisal Ref: Para 5.3 Page No 21. Figure 21 35db Contour Map Location R20.

# Copy of Appendix 10.C: Noise Monitoring Information Sheets

Noise Monitoring Information Sheet										
Location										
Name	The Old Church, Amber Hill									
Description	The meter was located on the patio area at a distance of approximately 20m from the property, on the side of the property nearest to the proposed site. The microphone was mounted at a height of 1.5m and at a distance of more than 3.5m from all acoustically hard surfaces other than the ground.  Sources of noise that were audible at this location included farm activities and farm animals, very occasional road traffic on Claydike Bank, bird song, occasional distant bird scarers and occasional military aircraft.  This location was selected as this property is the closest residential receptor to the North East of the proposed scheme.									
Equipment	SLM Location: 521866, 347304.  Type Serial Number Last Calibrated									
Sound Level Met	er	SVANT	EK SVAN 945A	11944			08/06/2010			
Pre-amplifier		SVANT	TEK SV-11 14035				08/06/2010			
Microphone		GRAS 4	OAN	80023			08/06/2010			
Calibrator		Rion No	C-74	34551669	9		18/02/2011			
SLM Range		130 dB								
Data Collected										
File	Time Start [GMT]	:	Time End [GMT]	Cal Start	Cal End	Drift	Notes			
@HEC	28/02/11	14:40	09/03/11 02:30	0.6	0.6	0.0	No significant drift			
@HEC2	15/03/11	12:00	26/03/11 09:50	0.6	0.5	-0.1	No significant drift			
@HEC2	29/03/11	09:50	07/04/11 19:10	0.5	0.5	0.0	No significant drift			
Data Exclusions										
registered rain a the data was in:	Data Exclusions  Data has been excluded from the assessment at this location during periods when the rain gauge registered rain and during periods when the sound level meter registered an overload. In addition, the data was inspected to identify those periods when noise levels were atypical. These periods have also been excluded from the assessment.									

Table C1 Information on the equipment, measurement location, and noise data at The Old Church.

# 1. BNS The Old Church Amber Hill.



Figure C1 View of the monitoring location at The Old Church looking North East.



Figure C2 View of the monitoring location at The Old Church looking North West.

# 1. BNS The Old Church.



Figure C3 View of the monitoring location at The Old Church looking South.



Figure C4 View of the monitoring location at The Old Church looking East.

# 1. BNS The Old Church. NIA Appraisal Page 22 Figure 7 Aerial View.



NIA Figure•7:•Yellow•dot•shows•applicant's•microphone•position•at•The•Old•Church. Red dot shows quieter alternative.



1.1 The Old Church Photo taken looking south west at BNS location. Photos C1-C4 taken March 2011 Leylandi hedging at that time recently planted.

#### 1. BNS The Old Church.



1.2 The Old Church BNS Location.
Looking North West further away from the comparable BNS location Figure C2.
Note over hanging branches of the Pear Tree reducing separation distance from the monitoring equipment approximate position identified by bag.



1.3 The Old Church BNS Location Looking South West.
Suggested correct location for Noise monitoring equipment. See Figure 7 Aerial map yellow spot is further away from over hanging branches of the Pear Tree and on soft ground (grass) not hard ground (paved area). Note separation distance from border hedging increased.

# 2. BNS College Farm. HL NIA Table C2 Figures C5-C8.

NIA Appraisal Ref: Para 5.4 Page No 22. Figure 21 35db Contour Map Location R17.

Noise Monitoring Information Sheet										
Location										
Name	College Farm									
Description	The meter was located in the garden area of the property. The microphone was mounted at a height of 1.5m above ground level and was more than 3.5m from any acoustically reflective surfaces other than the ground.  Sources of noise that were audible at this location included farm machinery in use on neighbouring fields and at the farm buildings approximately 50m to the North East of the monitoring location, livestock at the farm buildings to the North East, distant road traffic, birdsong, distant bird scarers and occasional military aircraft movements.  The monitoring location was selected as it was the nearest residential property to the South East of the proposed site for which access permissions could be obtained.									
Equipment	SELVI EUCUL	Туре	865, 344434.	Serial N	Number		Last Calibrated			
Sound Level Me	ter	SVANT	EK SVAN 945A	6494			29/04/2010			
Pre-amplifier		SVANT	EK SV-11	5890			29/04/2010			
Microphone		GRAS 4	OAN .	42889			29/04/2010			
Calibrator		Rion N	C- <b>74</b>	345516	669		18/02/2011			
SLM Range		130 dB								
Data Collected										
File	Time Start [GMT]		Time End [GMT]	Cal Start	Cal End	Drift	Notes			
@HEC	01/03/11 0	9:10	09/03/11 12:00	-0.1	0.0	0.1	No significant drift			
@HEC2	15/03/11 1	2:50	24/03/11 14:30	0.0	0.3	0.3	No significant drift			
@HEC2	29/03/11 1	2:00	07/04/11 21:20	0.3	0.3	0.0	No significant drift			
Data Exclusions										

Data has been excluded from the assessment at this location during periods when the rain gauge registered rain and during periods when the sound level meter registered an overload. In addition, the data was inspected to identify those periods when noise levels were atypical. These periods have also been excluded from the assessment.

Table C2 Information on the equipment, measurement location, and noise data at College Farm.

# 2. BNS College Farm.



Figure C5 View of the monitoring location at College Farm looking North East.



Figure C6 View of the monitoring location at College Farm looking East.

# 2. BNS College Farm.



Figure C7 View of the monitoring location at College Farm looking South West.



Figure C8 View of the monitoring location at College Farm looking South.

# 2. BNS College Farm. NIA Appraisal Page 23 Figure 8 Aerial View.



NIA Figure 8: yellow dot shows applicant's microphone position at €ollege €arm.

Red dots show quieter alternatives.



2.1 College Farm BNS CF1. Photo taken looking North East in the proximity of Noise Monitoring Location towards main farm access and buildings.

# 2. BNS College Farm.



2.2 College Farm BNS CF2. Looking South East. Note the main access drive to the farm is other side of lawn boundary hedge.

# **CATON HOUSE.**



Figure 9: Caton House, omitted from ANIA1. Page 23 NIA Appraisal..

#### 2. BNS College Farm (Proxy for Caton House) 35db Contour Map Location R16.



2.3 Caton House Browns Drove.

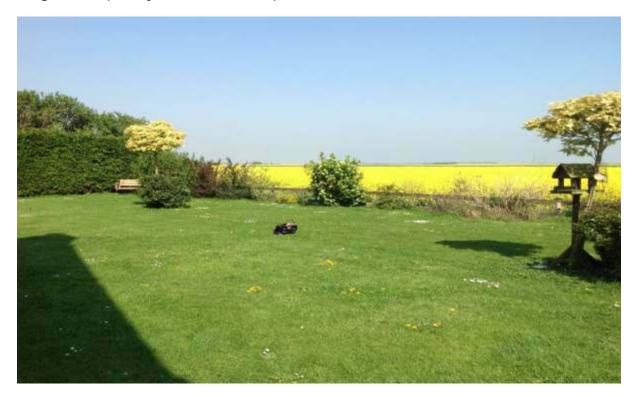
Side Garden on the northern aspect of property looking East note external door to the property's kitchen.

Potential Noise Monitoring Location College Farm used as proxy.



2.4 Caton House. Garden on the northern aspect of property looking North East towards College Farm NML. Potential BNS Location. College Farm used as proxy.

# **BNS College Farm. (Proxy for Caton House)**



2.5 Caton House looking North West towards wind farm site. Nearest turbine T20. Potential Noise Monitoring Location proxy for College Farm.



2.6 Caton House Looking West towards front aspect of Caton House & Annex, plus adjacent bungalow. Wind farm site is in view to the north of Caton House. Turbine T20 would be visible in this view.

# 3. BNS No 2 The Council Houses. HL NIA Table C3 Photos C9 - C12. NIA Appraisal Ref: Para 5.5 Page No 24. Figure 21 35db Contour Map Location R10.

Noise Monitoring Information Sheet										
Location										
Name	2 Council l	2 Council House								
Description	property of of 1.5m at the rea allow acces building fathis location than the front sources of traffic on the Sources of traffic on the Sources of the Sources of traffic on the Sources of the Sour	The meter was located in the rear patio area of the property, on the side of the property closest to the proposed site. The microphone was positioned at a height of 1.5m above local ground level, however due to the small external amenity area at the rear of the property and the need to keep the meter off the driveway to allow access for vehicles, the meter was positioned at approximately 2m from the building façade. IT was decided to leave the meter at the rear of the property, as this location was more screened from noise generated by road traffic on the A17 than the front of the property.  Sources of noise that were noted as being audible at this location included road traffic on the A17, birdsong and occasional military aircraft movements.  This location was selected as being representative of the properties along the A17, to the South of the proposed site.  SLM Location: 520168, 343956.								
Equipment		Туре			Serial N	lumber		Last Calibrated		
Sound Level Me	ter	Rion N	L-31		005311	.45		21/02/2011		
Pre-amplifier		Rion N	H-21		07743			21/02/2011		
Microphone		Rion U	C53A		304546	i		21/02/2011		
Calibrator		Rion No	C-74		345516	69		18/02/2011		
SLM Range		20-100	dB							
Data Collected										
File	Time Start [GMT]				Cal Start	Cal End	Drift	Notes		
AU2_1300	01/03/11 1	0:50	15/03/11	12:50	93.8	93.8	0.0	No significant drift		
AU2_1301	15/03/11 1	3:30	29/03/11	10:00	93.8	93.8	0.0	No significant drift		
AU2_1302	29/03/11 1	0:30	12/04/11	10:30	93.8	93.7	-0.1	No significant drift		

#### Data Exclusions

Data has been excluded from the assessment at this location during periods when the rain gauge registered rain and during periods when the sound level meter registered an overload. In addition, the data was inspected to identify those periods when noise levels were atypical. These periods have also been excluded from the assessment.

In addition, data which was recorded with wind directions between 90 and 270 degrees (i.e. wind directions with a component from the South) have also been excluded to minimise the influence of road traffic noise from the A17 on the derived background noise.

Table C3 Information on the equipment, measurement location, and noise data at 2 Council House

#### 3. BNS No 2 The Council Houses.



Figure C9 View of the monitoring location at 2 Council House looking South West.



Figure C10 View of the monitoring location at 2 Council House looking South East.

# 3. BNS No 2 The Council Houses.



Figure C11 View of the monitoring location at 2 Council House looking North West.



Figure C12 View of the monitoring location at 2 Council House looking North East.

# 3. BNS 2 The Council Houses. NIA Appraisal Page 25 Figure 10 Aerial View.



NIA Figure 10: •East •Heckington •village •showing • applicant's •non-compliant microphone position at 2 Council Houses and proposed compliant position at Ashleigh House.



3.1 No 2 The Council Houses BNS Location
The washing line with clothes pegs attached is close to NML.
Tape measure confirms precise distance from the nearest wall.

#### 3. BNS No 2 The Council Houses.



3.2 No 2 The Council Houses BNS Location. Tape Measure confirms distance from nearest wall.



3.3 No 2 The Council Houses BNS location. Looking North East. Washing line in close proximity to noise monitoring equipment. (Equivalent BNS photo C12).

#### 3. BNS 2 The Council Houses.



3.4 No 2 The Council Houses BNS Location.

Tape Measure confirm size of patio tiles @ 18 inches square.



 $3.5\ \mbox{No}\ 2$  The Council Houses. BNS Location Showing patio area & entrance.

# 4. BNS Side Bar Lane NIA Table C4 Photos C13 - C16. (PROXY Derwent Cottage etc.,) NIA Appraisal Ref: Para 5.6 Page No 27. Figure 21 35db Contour Map Location R5.

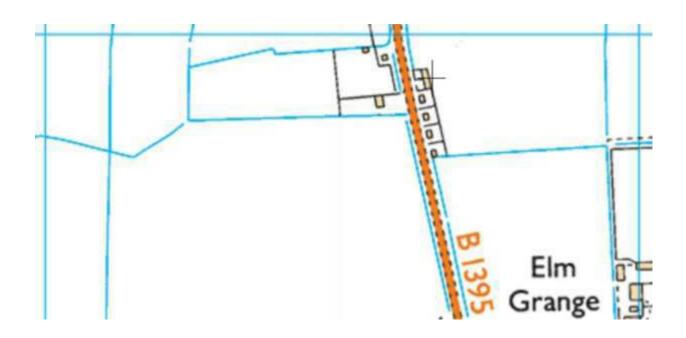
Location											
Name	Side Bar I	Side Bar Lane									
Description	House on The micro ground le surfaces of the A17 ( road trai movement This moni- levels from not locate	The meter was located in the agricultural land immediately to the rear of Derwent House on Side Bar Lane, on the same side of the property as the proposed site. The microphone was positioned at a height of approximately 1.5m above local ground level and at a distance of more than 3.5m from any acoustically reflective surfaces other than the ground.  Sources of noise that were audible at this location included road traffic noise on the A17 (approximately 450m to the South East of the meter position), occasional road traffic on Side Bar Lane, birdsong and occasional military aircraft movements.  This monitoring location was selected to provide representative background noise levels from the properties towards the South end of Side Bar Lane. The meter was not located in the amenity space of a residential property as access permissions could not be agreed.  SLM Location: 518653, 344925.									
	F1000000000000000000000000000000000000										
Equipment	F1000000000000000000000000000000000000			Serial	Number		Last Calibrated				
30 PM (1277)	SLM Loca	tion: 51	8653, 344925.	Serial	CEC11		Last Calibrated 04/01/2010				
Sound Level 1	SLM Loca	Type	8653, 344925. IL-31		060		(a) (b) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c				
Sound Level 1 Pre-amplifier	SLM Loca	Type Rion N	8653, 344925. IL-31	00110	060		04/01/2010				
Sound Level 1 Pre-amplifier Microphone	SLM Loca	Type Rion N	8653, 344925. IL-31 IH-21 IC-53A	00110	9		04/01/2010				
Equipment Sound Level 1 Pre-amplifier Microphone Calibrator SLM Range	SLM Loca	Type Rion N Rion U	8653, 344925. IL-31 IH-21 IC-53A IC-74	00110 07772 30478	9		04/01/2010 04/01/2010 04/01/2010				
Sound Level N Pre-amplifier Microphone Calibrator	SLM Loca	Type Rion N Rion N Rion N Rion N	8653, 344925. IL-31 IH-21 IC-53A IC-74	00110 07772 30478	9		04/01/2010 04/01/2010 04/01/2010				
Sound Level No Pre-amplifier Microphone Calibrator SLM Range Data Collected	SLM Loca	Type Rion N Rion N Rion N 20-110	8653, 344925. IL-31 IH-21 IC-53A IC-74	00110 07772 30478	9	Drift	04/01/2010 04/01/2010 04/01/2010				
Found Level Notes amplifier Microphone Calibrator SLM Range Data Collected	SLM Loca  Meter  d  Time S  [GMT]	Type Rion N Rion N Rion N 20-110	8653, 344925. IL-31 IH-21 IC-53A IC-74 0 dB	00110 07772 30478 34551	060 9 669	*	04/01/2010 04/01/2010 04/01/2010 18/02/2011				
Sound Level No Pre-amplifier Microphone Calibrator SLM Range	SLM Loca  Meter  d  Time 5  [GMT]  15/03/1	Type Rion N Rion N Rion N Rion N 20-110	8653, 344925.  IL-31  IH-21  IC-53A  IC-74  I dB  Time End  [GMT]	00110 07772 30478 34551 Cal Start	060 9 669 Cal End	Drift	04/01/2010 04/01/2010 04/01/2010 18/02/2011				

Data has been excluded from the assessment at this location during periods when the rain gauge registered rain and during periods when the sound level meter registered an overload. In addition, the data was inspected to identify those periods when noise levels were atypical. These periods have also been excluded from the assessment.

In addition, data which was recorded with wind directions between 90 and 270 degrees (i.e. wind directions with a component from the South) have also been excluded to minimise the influence of road traffic noise from the A17 on the derived background noise.

Table C4 Information on the equipment, measurement location, and noise data at Side Bar Lane.

# 4. BNS Side Bar Lane. PROXY NIA Appraisal Page 27 Figure 11 OS Map. Aerial Map Figure 13: Page 28 Microphone position at Derwent Cottage PROXY.



NIA Figure 11: Microphone position given by applicant's OS reference, with which I and residents concur.



NIA Figure 13: Page 28 Aerial View Microphone position at Derwent Cottage PROXY.

# 4. BNS Side Bar Lane. PROXY Derwent Cottage etc.,



Figure C13 View of the monitoring location at Side Bar Lane looking South.



4.1 Figure C13A Actual View close to Noise monitoring location at Side Bar Lane looking South

# 4. BNS Side Bar Lane. PROXY Derwent Cottage etc.,



Figure C15 View of the monitoring location at Side Bar Lane looking North.



4.2 Actual View of the noise monitoring location from Fig C15 Looking North Hoare Lea chose to ignore.

# 4. BNS Side Bar Lane. PROXY Derwent Cottage etc,.



4.3 Figure C15 Wider angle of the view at noise monitoring location looking North HL chose to ignore.



NIA Figure 12: My photograph from Derwent Cottage microphone position, view looking west, as this •view •was •missing •from •applicant's •views •in •ANIA1. Page 27.

# 4. BNS Side Bar Lane. PROXY Derwent Cottage etc.,

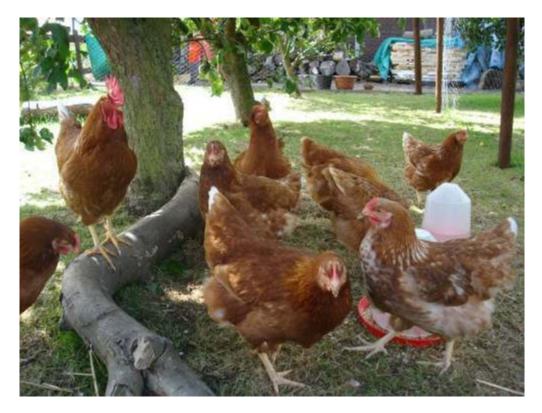


Figure C14 View of the monitoring location at Side Bar Lane looking South East.



Figure C16 View of the monitoring location at Side Bar Lane looking North East.

#### 4. BNS Side Bar Lane. PROXY Derwent Cottage etc,.



4.5 Derwent Cottage Photo taken of part of the flock of Chickens within the rear grounds of Derwent Cottage adjacent to the equipment during the BNS Side Bar Lane PROXY March/April 2011.



4.6 Derwent Cottage Photo taken of part of the flock of Chickens and one of the cockerels within the rear grounds of Derwent Cottage present during the BNS Location Side Bar Lane March/April 2011.

#### 5. BNS Glebe Farm. NIA Table C5 Figures \*C17 - C20.

(\*Resident Stated that noise monitoring was not conducted at the location shown in these figures). NIA Appraisal Ref: Para 5.7. Page No 29. Figure 21 35db Contour Map Location R2.

Noise Monitor Location	ing Informat	ion Sh	eet								
Name	Glebe Farr	Glebe Farm									
Description	The meter was located in a paddock immediately adjacent to the rear garden of the property. The microphone was positioned at a height of 1.5m above local ground level and more than 3.5m from any acoustically reflective surfaces other than the ground.  Audible sources of noise at this location included cockerels and dogs at Glebe Farm, occasional road traffic on Side Bar Lane, birdsong and occasional military aircraft.  This monitoring location was selected to provide background noise levels that are representative for the properties at the North end of Side Bar Lane, further from the influence of the A17.										
Equipment	T.	Туре	18409, 346134	12 501	Numbe	er:	Last Calibrated				
Sound Level N	Meter	SVAN	TEK SVAN 949	6749			15/09/2009				
Pre-amplifier		SVAN	TEK SV-12	5916	15/09/2009						
Microphone		GRAS	40AE	49372	2		15/09/2009				
	librator Rion NC-74 34551669 18/02/2011										
Calibrator		Rion N	IC-74	34551	1669		18/02/2011				
Calibrator SLM Range	- 4	Rion N 130 di	0	34551	1669		18/02/2011				
SLM Range Data Collected		130 di	0	34551 Cal Start		Drift					
SLM Range Data Collected	d Time Si	130 di	Time End	Cal	Cal	A Commence of the Commence of	1				
SLM Range Data Collecter File	d Time Si [GMT]	130 di	Time End	Cal Start	Cal End	Drift	Notes				

Data has been excluded from the assessment at this location during periods when the rain gauge registered rain and during periods when the sound level meter registered an overload. In addition, the data was inspected to identify those periods when noise levels were atypical. These periods have also been excluded from the assessment.

Table C5 Information on the equipment, measurement location, and noise data at Glebe Farm.

# 5. BNS Glebe Farm.



Figure C17 View of the monitoring location at Glebe Farm looking West.



Figure C18 View of the monitoring location at Glebe Farm looking South East.

# 5. BNS Glebe Farm.



Figure C19 View of the monitoring location at Glebe Farm looking North East.



Figure C20 View of the monitoring location at Glebe Farm looking North West.

# 5. BNS Glebe Farm. Aerial View Figure 14 Page 30.



NIA Figure 14 Glebe Farm. A. marks the position of one microphone and B. the position of the second microphone. O. marks the position claimed by the applicant and the yellow spot marks the grid reference provided by the applicant.

These are identified as BNS GFA Photos & BNS GFB Photos.

#### 5.BNS Glebe Farm.



5.1 Reference Glebe Farm Hoare Lea BNS Location Fig C17 March 2011. Now a static caravan at this location which was not in situ March 2011. BNS original position C17/GFA1 taken to the west of the monitoring location, looking south on the access track between the two paddocks.



5.2 Reference Glebe Farm Hoare Lea BNS Location Fig C17 March 2011. Now a static caravan at this location which was not in situ March 2011. Fig BNS original position C17/GFA2 taken to the east of the monitoring location looking west in the paddock where monitoring equipment was purported to have been placed in Figs C17, C18, C19 & C20. Note static caravan in Fig C17 still in situ.

# 5. BNS Glebe Farm. Actual BNS Location A Photos.



5.3. BNS GFA1 Actual Location A denoted by (Pitch Fork) within paddock looking South East. Photo taken April 2016.



5.4 BNS GFA2 Longer view from outside paddock boundary looking south east towards BNS location A.

#### 5. BNS Glebe Farm. Location A.



5.5 BNS GFA3 Outside of Paddock looking south towards the corner of paddock where BNS was located.

Note the raised bank running alongside the other side of the paddock fence
on paddock's eastern boundary.



5.6 BNS GFA4 within paddock looking east towards wind farm site. Note raised bank other side of paddock fence. Digger was in use around this area at the time of monitoring.

#### 5. BNS Glebe Farm. Location A.



5.7 BNS GFA5 Looking east towards wind farm site within paddock.



5.8 BNS GFA6 Looking North towards BNS Location B. other side of paddock fence located near to Electrical Power Transmission Pole visible in the photo. (The northern paddock boundary fence is the View Point position of photos GFA2 & GFA3). The monitoring position is less than 3.5m from boundary fence.

# 5. BNS Glebe Farm. Location A.



5.9 BNS GFA7. Looking south west. (Monitor was less than 3.5m from foliage in photo on the other side of boundary fence)

END BNS A Photos.

#### 5. BNS Glebe Farm Actual BNS Location B Photos.



5.10 Glebe Farm BNS Location B Photo GFB1. Looking towards the south and in the same direction of BNS Location A positioned within the paddock adjacent to the mound visible in the photo. Note the end of the mound is also visible cut away in this view.

This linear mound originally marked the full length of the eastern & Northern boundary of Glebe Farm at the time of the monitoring during March/April 2011. The mound around the whole area was being levelled by resident throughout the monitoring period using a mechanical digger. See Para 5.7.2 NIA Appraisal.



5.11 Glebe Farm BNS Location B Photo GFB2.

Looking due west and over the area which was being levelled during the entire noise monitoring period.

#### 5.Glebe Farm. BNS Location B.



5.12 Glebe Farm BNS GFB3. Looking North East towards wind farm site.
Note the extent of the ground levelling undertaken along this eastern boundary of Glebe Farm visible in the photo at the time of the BNS. Aerial View Fig 14 shows the length of the boundary mound in view.



5.13 Glebe Farm BNS GFB4. Looking due east towards wind farm site. Note the land surrounding the monitoring position is level to up to the adjacent field boundary.

#### 5.Glebe Farm. BNS Location B.



5.14 Glebe Farm BNS GFB5. Looking South East slightly further away from monitoring position than GFB1, to enable distance from the electrical power transmission pole to be cross referenced. Note the position of the remaining bank in line with the adjacent boundary. This angle of view confirms that the BNS location B was in line with the edge of the raised bank at the time of the BNS monitoring.



5.16 Glebe Farm GFB6 photo of the mechanical digger resident used to move and spread the soil from the raised bank while BNS monitoring equipment at locations A & B was in situ.

# 6. Mill Green Farm. PROXY NIA Table C6 Figures C21- C24. NIA Appraisal Ref: Para 5.8. Page No 30. Figure 21 35db Contour Map Location R23.

Noise Monitoring Information Sheet									
Location									
Name	Mill Green Farm (proxy)								
Description	The meter was located on agricultural land at the northern end of the proposed wind farm site. The meter location was at a distance of approximately 1.1km from the property known as Mill Green Farm. The microphone was positioned at 1.5m above local ground level and more than 3.5m from any acoustically reflective surface other than the ground.  Sources of noise that were audible at this location included distant noise from farm plant and machinery, sheep in the adjoining field approximately 200m from the monitoring location and occasional military aircraft movements.  This monitoring location was selected to provide a proxy for Mill Green Farm, which is the closest property to the North of the proposed site. Access permission for monitoring at Mill Green Farm was not granted and there are no alternative nearby residential properties. The selected monitoring position was considered likely to experience lower levels of background noise than Mill Green Farm as there are several mature trees in the near vicinity of the property that are not evident near the monitoring location.								
Equipment	SLM Locati	ion: 518 Type	409, 346134.	Sorial N	lumber		Last Calibrated		
Sound Level Met	er	Rion N		010305	53		21/02/2011		
Pre-amplifier		Rion N		08179			21/02/2011		
Microphone Calibrator		Rion U		304789			21/02/2011		
SLM Range		Rion No 20-110		345516	909		18/02/2011		
Data Collected		20-110	uu	I					
File	Time Start Time End [GMT]			Cal Start	Cal End	Drift	Notes		
AU2_2601	15/03/11	16:00	29/03/11 13:30	94.2	93.9	-0.3	No significant drift		
AU2_2602	29/03/11	14:00	12/04/11 12:20	93.9	94.0	0.1	No significant drift		
Data Exclusions									

Data has been excluded from the assessment at this location during periods when the rain gauge registered rain and during periods when the sound level meter registered an overload. In addition, the data was inspected to identify those periods when noise levels were atypical. These periods have also been excluded from the assessment.

Table C6 Information on the equipment, measurement location, and noise data at Mill Green Farm Proxy Location.



Figure C21 View of the monitoring location at Mill Green Farm (proxy) looking North.



Figure C22 View of the monitoring location at Mill Green Farm (proxy) looking East.



Figure C23 View of the monitoring location at Mill Green Farm (proxy) looking South.

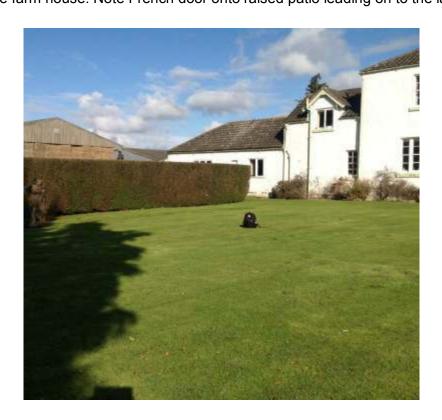


Figure C24 View of the monitoring location at Mill Green Farm (proxy) looking West.



6.1 Mill Green Farm BNS MGF1.

Looking South East within Mill Green Farm Residential Amenity area lawn on the west elevation of the farm house. Note French door onto raised patio leading on to the lawn.



6.2 Mill Green Farm BNS MGF2. Looking North East within Mill Green Farm Residential Amenity area lawn on the west elevation of the farm house.



6.3 Mill Green Farm BNS MGF3. Looking South West within Mill Green Farm Residential Amenity area lawn on the west elevation of the farm house.



6.4 Mill Green Farm BNS MGF4 Looking North West within Mill Green Farm Residential Amenity area lawn on the west elevation of the farm house.

**END**