
Appendix B

Cultural Heritage Features Identified Within Study Area

5 Pages

Table B1 Features of cultural heritage within the 500 m study area¹⁶

Entec No	GSMR/ NMRW No and Status	Grid Ref.	Name: Description	Distance from Application Area
1*	00875w/ 95177 SAM GM367	SN837001	Melin Court Camp: Roman marching camp, approximately square, with sides varying in length from 203m to 239m, located astride the natural route followed by the trackway known as Cefn Ffordd. Only about three-fifths of the perimeter defence can be traced. Condition unknown. (Survey by RCAHMM, 1974)	>500 m
7*	01086w/ 94699, 34099, 34100	SN825018	Melin Court Iron Works: Buildings and blast furnace -pMed	>500 m
8*	11789	SN82630170	Independent Chapel, identified from documentary sources	>500 m
9*	01713w/ 18813	SN83100127	Glyngwilym Uchaf: House -pMed	>500 m
10*	80588	SN82870104	Garth Merthyr Colliery: Disused coalmine, from documentary sources -pMed	>500 m
11*	00562w SAM GM385	SN82320075	Cairn, near destroyed -BA. See also 12	>500 m
12*	00563w SAM GM385	SN82390074	Cairn, damaged -BA See also 11	>500 m
13*	00565w	SN82990065	Platform house, part of poss Deserted rural settlement -Med	>500 m
14*	02261w/ 301358	SN825006	Carn Caca Pillar Stone: Inscribed stone Stone with incised H reported by W Downing in the Henllan area in 1987 -pMed	>500 m
15*	00806w	SN826006	Carn Caca: Inscribed stone, condition and date 'not known'	>500 m
16*	04333w	SN8270800485	Carn Caca Trig Point: Triangulation point as noted on OS 6 inch 2nd edition 1900 map. Condition unknown -pMed	>500 m
17*	02037w/ 15255	SN83640023	Platform house, part of Deserted rural settlement Condition unknown -Med	>500 m
18*	00564w/ 301306 SAM Gm 366	SN83850004	Camp 280 m S Of Melin Court Brook/ Carn Caca Hillfort: Earthwork enclosure on slope of Carn Caca -IA	>500 m
19*	01116w	SN837001 ¹⁷	Cairn: Condition unknown -BA. See also footnote.	>500 m

¹⁶ Refer to note in Section 8.2.2.¹⁷ No cairn was identified in the location of the grid reference given on GSMR records. A feature that might be consistent with a cairn was identified adjacent to the SW side of 1, at SS 83633 99963. This feature is also covered by the scheduling of SAM Gm 366.

Table B1 (continued) Features of cultural heritage within the 500 m study area

Entec No	GSMR/ NMRW No and Status	Grid Ref.	Name: Description	Distance from Application Area
20	80567	SS84209993	Cefn-Mawr Colliery: Disused coalmine, identified from documentary sources -pMed	325 m
21	15312	SS84109990	N of Ffynnon Oer: House remains, 5.5 m. x 2.5 m, possibly part of a deserted settlement -Med	350 m
22	00690w/ 15311	SS84059989 SS841099	N of Ffynnon Oer: Platform house; part of a possible deserted rural settlement -Med House remains 4.5 m. x 2.3 m (NMRW).	350 m
23	00691w	SS84129983	Cairn -BA	250 m
24	80568	SS84809973	Blaen-Y-Cwm Colliery: Disused coalmine, identified from documentary sources -pMed	250 m
25	00374w	SS84879942 - SN91930302	Cefn Ffordd: Former A54 roman road from Neath to Pendaren. This route, used until at least the late C18 as the ridge path between Neath and Merthyr -?Rom and later	200 m
26	04202w	SS8559599456	Twyn Y Ffarwel Boundary Stone V Boundary stone as noted on OS 6 inch 1st edition 1884 map. Not located during field visit. Possibly destroyed by afforestation. -pMed	475 m
27	04201w	SS8558699366	Twyn Y Ffarwel Boundary Stone Iv Boundary stone as noted on OS 6 inch 1st edition 1884 map. Not located during field visit. Possibly destroyed by afforestation. -pMed	400 m
28	04200w	SS8557599289	Twyn Y Ffarwel Boundary Stone Iii Boundary stone as noted on OS 6 inch 1st edition 1884 map. Not located during field visit. Possibly destroyed by afforestation. -pMed	375 m
29	04199w	SS8556999226	Twyn Y Ffarwel Boundary Stone li Boundary stone as noted on OS 6 inch 1st edition 1884 map. Not located during field visit. Possibly destroyed by afforestation. -pMed	350 m
30	04198w	SS8556499177	Twyn Y Ffarwel Boundary Stone I Boundary stone as noted on OS 6 inch 1st edition 1884 map. Not located during field visit. Possibly destroyed by afforestation. -pMed	350 m
31	04043w	SS8334598748	Waun Structure: Structure as noted on OS 6 inch 1st edition 1884 map. Not located in the field	475 m
32	04455w	SS8347998761	Taren Cefn Mawr Level II: Identified on OS 2 nd Ed map -pMed	375 m
33	04456w	SS8358498715	Taren Cefn Mawr Level III: Identified on OS 2 nd Ed map -pMed	250 m
34	04454w	SS8362598674	Taren Cefn Mawr Level I: Identified on OS 2 nd Ed map -pMed	175 m
35	04042w	SS8377298609	Waun Level: Level as noted on OS 6 inch 1st edition 1884 map. Destroyed -pMed	25 m
36	04041w	SS8378098532	Waun Tramway: Tramway as noted on OS 6 inch 1 st Edition 1884 map. Destroyed -pMed	<25 m

Table B1 (continued) Features of cultural heritage within the 500 m study area

Entec No	GSMR/ NMRW No and Status	Grid Ref.	Name: Description	Distance from Application Area
37	04451w	SS8550798843	Blaen Cregan Level VI: Located within plantation area -pMed	400 m
38	04450w	SS8539598801	Blaen Cregan Quarry I: Identified on OS 2 nd Ed map, located above FE road on steep hill -pMed	300 m
39	04452w	SS8547798772	Blaen Creggan Air Shaft: Identified on OS 2 nd Ed map, adjacent to FE road. Has been filled in and fenced off -pMed	375 m
40	04207w	SS8550398758	Blaen Cregan Colliery, Level ii: Level is adjacent to FE road and has been filled in. Brick wall survives up to 5m high marking the entrance on three sides. -pMed	400 m
41	04453w	SS8508598590	Blaen Cregan Quarry II: Identified on OS 2 nd Ed map, located above FE road on steep hill -pMed	75 m
42	04448w	SS8521098594	Blaen Cregan Tramway: Identified on OS 2 nd Ed map. Tramway now dismantled and forms part of FE road -pMed	225 m
43	04206w	SS8548798616	Blaen Cregan Plaque Plaque erected in memory of a miner who was killed by a roof collapse in 1990. Plaque is adjacent to FE road. -pMed	450 m
44	04205w	SS8547698574	Blaen Cregan Colliery, Level I "Coal level as noted on OS 6 inch 1st edition 1884 map. Has now been levelled by FE, during construction of road. Spoil heap still visible." -pMed	450 m
45	04449w	SS8504298527	Blaen Cregan Level V: Identified on OS 2 nd Ed map, on slope above old tramway -pMed	100 m
46	04208w	SS8498698432	Blaen Cregan Colliery, Level iii Level as noted during site visit. Located above old tramway on slope. -pMed	50 m
47	04209w	SS8493898307	Blaen Cregan Colliery, Level iv Level as noted during site visit. Located on slope above old tramway line. -pMed	50 m
48	04210w	SS8486198228	Blaen Cregan Quarry lii Quarry cutting as noted during site visit. Cutting is approx 20m wide and overgrown. -pMed	<25 m
49	04515w	SS8473598162	Bol-Las Coal Level Level as noted on OS 6 inch 2nd edition 1900 map. Located on edge of FE property. -pMed	<25 m
50	04507w	SS8485197912	Fforch-Las-Fach Farmstead Farmstead as noted on OS 6 inch 2nd edition 1900 map. Condition unknown -pMed	275 m
51	04040w	SS8357097795	Parson's Folly Tramroad: Tramway runs through the forest E-W. 2-3m wide and up to 1 m high in places. Continues out on both sides of the FE, the whole length of the tramway was never finished -pMed	On application area boundary
52	252	SS84349778	Ton Mawr: House -pMed	150 m
53	04508w	SS8453497763	Ty'n-Y-Cwm Farmstead Farmstead as located on OS 6 inch 2nd edition 1900 map. Condition unknown -pMed	225 m

Table B1 (continued) Features of cultural heritage within the 500 m study area

Entec No	GSMR/ NMRW No and Status	Grid Ref.	Name: Description	Distance from Application Area
54	04512w	SS8444197716	Ty'n-Y-Cwm Trial Level li Trial level as noted on OS 6 inch 2 nd edition 1900 map. Condition unknown -pMed	225 m
55	04510w	SS8452597725	Ty'n-Y-Cwm Coal Level li Level as noted on OS 6 inch 2 nd edition 1900 map. Condition unknown -pMed	275 m
56	04511w	SS8448597711	Ty'n-Y-Cwm Trial Level I Trial level as noted on OS 6 inch 2 nd edition 1900 map. Condition unknown -pMed	275 m
57	04509w	SS8445097691	Ty'n-Y-Cwm Coal Level I Level as noted on OS 6 inch 2 nd edition 1900 map. Condition unknown -pMed	275 m
58	04549w	SS8447997597	Ty'n-Y-Cwm Building Building as noted on OS 6 inch 2 nd edition 1900 map. Condition unknown -pMed	375 m

AP: Aerial Photograph(s); BA; Bronze Age; C: Century; Ed: Edition; Rom: Roman; RB: Romano-British; Med: Medieval; OS: Ordnance Survey (map source); pMed: post Medieval;

Compass points given as N, S, E, W, etc.

* Features outside the current study area (refer to explanatory note, Section 8.2.2.)

Table B2 Features of Cultural Heritage Interest Identified During this Assessment

Entec Ref.	Source/ Ref.	Grid Ref.	Name: Description	Approx Distance from Development
A	1992 AP	SN 84119935	Square feature, identified from AP; possible building.	150 m
B	Site walkover	SN 8412499320	Track of former tram way seen protruding through ground.	100 m
C	AP (several)	SN 84609933	Circular cropmark, indicative of negative feature, possibly related to mining activity.	75 m
D	Site walkover	SN 8501199329	Pile of large rounded stones on a break in slope and coinciding with a N-S aligned land drain.	50 m
E	Site walkover	SN 8507399276	Large hollow (c. 8 m across); possible quarry for drystone walling.	50 m
F	Site walkover	SN 8485499203	Depression, probably related to coal working	100 m
G	Site walkover	SN 8467499180	Depression, probably related to coal working	100 m

Table B2 (continued) Features of Cultural Heritage Interest Identified During this Assessment

Entec Ref.	Source/ Ref.	Grid Ref.	Name: Description	Approx Distance from Development
H	Site walkover	SN 8460999142	Depression, probably related to coal working	75 m
I	Site walkover	SN 8490299058	Triangulation Post, not shown on current OS editions -presumed pMed	125 m
J	OS 2 nd and later Eds	SN 84189900	Cefn Fford: Nominal point along track, currently in use and shown on OS 2 nd Ed and later maps as 'Cefn Fford' -see also 25.	Crossed by access track
K	Site walkover	SN 8475898923	Shallow hollow noted during walkover.	75 m
L	Site walkover	SN 8440798801	Depression consistent with collapsed coal measures.	150 m
M	1982 and 1992 AP	SN 84259867	Circular cropmark, indicative of negative feature, possibly relating to mining activity.	50 m
N	AP	SN 8464198637	Low mound and associated hollow, also in vicinity of a circular cropmark noted from AP. This may be a natural feature.	125 m
O	OS 2 nd Ed	SN 84059858	Quarry noted on the OS 2 nd Ed, which seems otherwise to be shown as former coal working.	100 m
P	Site walkover	SN 8477898549	Hollow on south side of Cefn Mawr; may be a quarry for drystone walling.	<25 m
Q	Site walkover	SN 8409398370	Earthwork cut into bottom of slope to SW of Cefn Mawr; possible mine shaft entrance.	50 m
R	Site walkover/ OS eds	SN 84009804	Nominal point along ?drainage ditch to southwest of Cefn Mawr, which is revetted on its E side by (in places) substantial drystone walling.	Crossed by access track
S	Site walkover	SN 84059810	Rectangular enclosure, with clear SE entrance, measuring c. 16 m (N -S) by c. 11 m(E-W), marked by a low mound of pebble-like stones, up to 1 m wide and 0.15 m high. Date uncertain.	Possibly crossed by access track
T	Site walkover	SN 8390798097	Remains of possible badly damaged cairn, marked by a tangible ring of stones -elliptical in shape.	125 m
U	Site walkover	SN 8418598068 -8422997985	Channel-like earthwork, which appears to be related to the upcast earthwork of the dismantled tram way. Also a general reference to the tramway, which runs through the SW part of the application area, linking the former Ty'n-Y-Cwm trial levels to those on Cefn Mawr, does not appear to be represented on the GSMR.	Crossed by access track
V	Site walkover	SS 8320000470	Outside the application area: Prominent accumulation of stones on the E -facing slope of Carn Caca. Noted here as it is not recorded on other sources consulted.	See footnote ¹⁸

AP: Aerial Photograph(s); BA; Bronze Age; C: Century; Ed: Edition; Rom: Roman; RB: Romano-British; Med: Medieval; OS: Ordnance Survey (map source); pMed: post Medieval

¹⁸ This feature lies c. 250 m from the track included as part of original proposals. This feature lies over 1.6 km from the current application area.

Appendix D

Noise Calculations

2 Pages

SPREADSHEET FOR NOISE PREDICTIONS

JS

CLIENT: National Wind Power		JOB No: 07568			DATE: 11/09/02				
Receiver location	Plant type	Lwa dB(A)	On-time correction	Distance (m)	Distance correction	Lpa sound level	Soft ground correction	Barrier correction	Activity LAeq dB
Troed y Rhiew	Track Laying between turbine 10 and 16	110	0	675	64.6	45.4	8.5	0	36.9
		1no. Excavator							
		1no. Roller							
		1no. Dumper							
	Foundation at Turbine 16	110	0	675	64.6	45.4	8.5	0	36.9
		2no. Excavator							
		1no. Cement Truck							
	Foundation at Turbine 11	112	0	675	64.6	47.4	8.5	0	38.9
		2no. Excavator							
		1no. Cement Truck							
		1no. Cement Truck	110	0	1200	69.6	40.4	8.5	0
Prossers Terrace	Track Laying between turbine 10 and 16	110	0	1200	69.6	42.4	8.5	0	33.9
		1no. Excavator							
		1no. Roller							
		1no. Dumper							
	Foundation at Turbine 16	110	0	1275	70.1	39.9	8.5	0	31.4
		2no. Excavator							
		1no. Cement Truck							
	Foundation at Turbine 11	105	0	1275	70.1	34.9	8.5	0	26.4
		1no. Excavator							
		1no. Roller							
		1no. Dumper	110	0	1275	70.1	39.9	8.5	0
Prossers Terrace	Track Laying between turbine 10 and 16	110	0	1800	73.1	36.9	8.5	0	28.4
		1no. Excavator							
		1no. Roller							
		1no. Dumper							
	Foundation at Turbine 16	110	0	1800	73.1	36.9	8.5	0	23.4
		2no. Excavator							
		1no. Cement Truck							
	Foundation at Turbine 11	112	0	1690	72.6	37.4	8.5	0	28.4
		2no. Excavator							
		1no. Cement Truck							
	Foundation at Turbine 11	110	0	1690	72.6	39.4	8.5	0	28.9
	2no. Excavator								
	1no. Cement Truck								
	1no. Cement Truck	112	0	2190	74.8	35.2	8.5	0	30.9
Prossers Terrace	Track Laying between turbine 10 and 16	110	0	2190	74.8	37.2	8.5	0	26.7
		1no. Excavator							
		1no. Roller							
		1no. Dumper							
	Foundation at Turbine 11	110	0	2180	74.8	35.2	8.5	0	28.7
		2no. Excavator							
		1no. Cement Truck							
	Foundation at Turbine 11	105	0	2180	74.8	30.2	8.5	0	26.7
		1no. Excavator							
		1no. Roller							
		1no. Dumper	110	0	2180	74.8	35.2	8.5	0
	1no. Dumper								
	1no. Dumper	110	0	2180	74.8	35.2	8.5	0	26.7

Ffynnon Oer Windfarm
Construction Noise Calculations

SPREADSHEET FOR NOISE PREDICTIONS					
CLIENT: National Wind Power		JOB No: 07568			
CALCULATION OF RESULTANT LAeq dB		DATE: 11/09/02			
Receiver location	Activity LAeq	LAeq/10	10^LAeq/10	Sum	Resultant LAeq dB
Troed y Rhiew	37	3.7	4913.5	31290.2	<u>45.0</u>
	32	3.2	1553.8		
	37	3.7	4913.5		
	37	3.7	4913.5		
	39	3.9	7787.4		
	32	3.2	1554.7		
	34	3.4	2464.0		
	31	3.1	1377.1		
	26	2.6	435.5		
	31	3.1	1377.1		
Prossers Terrace	28	2.8	691.0	5924.3	<u>37.7</u>
	23	2.3	218.5		
	28	2.8	691.0		
	29	2.9	783.8		
	31	3.1	1242.3		
	27	2.7	466.8		
	29	2.9	739.8		
	27	2.7	471.1		
	22	2.2	149.0		
	27	2.7	471.1		

Appendix C

Analysis of Landscape and Visual Impacts

30 Pages

Table C1 Predicted Construction Visual Changes and Consequences

Receptor Type and Location	Visual Changes	Overview of Predicted Visual Consequences
Public Right of Ways		
Coed Morgannwg Way	- Views of construction vehicles on forest tracks including large vehicles - Views of activity and materials in the context of an operational construction site	Predicted to sustain large scale visual impacts due to proximity of construction works. For the most part access route will follow the route of the Coed Morgannwg Way leading to potential further large scale visual impacts. Existing coniferous plantation likely reduce locations where views are available of construction activities
Section Four passes close to the northeast corner of the proposed site snaking its way up Blaen Cregan from the east towards the edge of Cefn Mawr at Cefen Ffordd on the northern side of the mountain, before veering northeast towards Carn Caglau.		
St Iltyd's Walk	- Views of construction vehicles on forest tracks - Views of activity and materials in the context of an active construction site - New temporary accommodation, prefabricated hut and parking. Would be seen in the context of the operational construction site.	Construction activities will be visually obtrusive causing large scale visual changes to the composition of existing views over Blaen Creggan, especially where they break the horizon. New temporary elements will intrude and foreshorten existing views.
Running along the northern boundary of the site before descending northwards to Resolven		
Sarn Helen	- Views of crane activity - Views of activity and materials in context of an active construction site	From section nearest to the site predicted mid-range views of crane activity breaking the skyline and foreshortening views. Visibility would be affected by weather conditions. Views from distant sections within Brecon Beacons are likely to be too distant to have any significant consequence of views and would be affected by weather conditions.
The nearest section of this Roman road runs from Tonna in the Vale of Neath approximately 5 km west of the proposed site. Distant section lies within Brecon Beacons approximately 18 km northeast of site.		

Table C1 (continued) Predicted Construction Visual Changes and Consequences

Receptor Type and Location	Visual Changes	Overview of Predicted Visual Consequences
Ogwr Ridge Way Walk approx. 12 km south of site	Views of crane activity	Distant too great to have any dramatic impact of views. Weather conditions permitting it could be possible to see the tops of cranes breaking through the skyline providing looking in the correct direction.
Celtic Trail / High Level Route 47	Views of construction vehicles on forest tracks including large vehicles	Construction activities will be visually obtrusive causing large scale visual changes to the composition of existing views over Blaen Creggan.
Follows the same route of St Illtyd's Walk along the northern boundary of the site	Views of activity and materials in the context of an operational construction site	New temporary elements will intrude and foreshorten existing views.
	New temporary accommodation, prefabricated hut and parking. Would be seen in the context of the active construction site	
Bridleway and Byway on Foel Trawnant	Movement and activity associated with construction site	Mid-range views of crane activity, however intervening coniferous plantation on the south facing aspect of Afan Valley likely to restrict views of ground level activities.
Approx. 4 km south of site	Views of crane activity	
Footpath on Werfa	Views of crane activity	Distant views of crane activity on the skyline would be dependant on clear weather conditions
Approx. 7 km southwest of site		
PROW leading up to the Black Mountain in the Brecon Beacons	Views of crane activity	Users of the public rights of way are likely to experience little visual impact of cranes breaking the skyline. Visibility of cranes would depend on clear atmospheric conditions and looking in the correct direction.
Approx. 17 km north-northeast of site		

Table C1 (continued) Predicted Construction Visual Changes and Consequences

Receptor Type and Location	Visual Changes	Overview of Predicted Visual Consequences
Residential Communities		
Abercragan: Approx. 1.5 km south of site	- Views of construction vehicles in the context of an active construction site. - Views of activity and materials in context of an operational construction site - Views of crane activities - New temporary accommodation, prefabricated hut and parking seen in context of construction site	Orientation of the properties themselves would restrict visibility of construction activities. However from outside the properties views up the valley would be framed by the topography and coniferous plantation cover, limiting the visual impact of ground level construction activities. Visibility of cranes breaking the skyline likely to have the most impact.
Cymmer Approx. 3 km south of site	Views of crane activities	Mid-range views foreshortened by tall plant equipment such as cranes breaking the skyline above the village Visual impacts of ground level construction activities predicted to be restricted by intervening landform and forest cover
Croesnew Approx. 4.5 km southeast of site	- Views of construction vehicles in the context of an active construction site. - Views of activity and materials in context of an operational construction site - Views of crane activities	Mid-range views foreshortened by tall plant equipment such as cranes breaking the skyline above the village Visual impacts of ground level construction activities predicted to be restricted by intervening landform and forest cover.

Table C1 (continued) Predicted Construction Visual Changes and Consequences

Receptor Type and Location	Visual Changes	Overview of Predicted Visual Consequences
Proposed Afan Valley Holiday Park	Views of construction vehicles in the context of an active construction site.	Presuming the Holiday Park has already been constructed at the time before the construction of the proposed wind farm middle distance views up the valley are likely to be restricted by the topography and surrounding coniferous plantations.
Approx. 3.5 km south of site	Views of activity and materials in context of an operational construction site	
Properties on western side of Maesteg	- Views of crane activities - Views of crane activities	
Approx. 7.5 km south of site		
Llangynwd	Views of crane activity	Visual impacts of the construction period considered to be minimal due distance and intervening topography.
Approx. 10 km south of site		
Properties on eastern edge of Cliffrw	Views of construction vehicles in the context of an active construction site.	Intervening topography and blanket coniferous plantations of mountain tops would obscure ground level construction activities, however it is likely that cranes would be visible on the skyline in mid to long distance views.
Approx. 7 km west of site	Views of activity and materials in context of an operational construction site	
Properties on northern edge of Neath	- Views of crane activities - Views of crane activities	
Approx. 11.5 km west of site		

Long distance views would be restricted by built environment. No readily available views

Table C1 (continued) Predicted Construction Visual Changes and Consequences

Receptor Type and Location	Visual Changes	Overview of Predicted Visual Consequences
Properties within the northern quarter of Swansea Approx. 18 km west of site	Views of crane activities	As above
Cwmlllynfell Approx. 17 km northwest of site	Views of crane activities	Long distant views predicted to have little visual impact. Visibility of cranes on the horizon would depend on clear atmospheric conditions and looking in the correct direction.
Isolated Residential Receptors		
Bryn-caws Farm Approx. 8 km west of site	- Views of construction vehicles in the context of an active construction site. - Views of activity and materials in context of an operational construction site - Views of crane activities	Mid to long distance views of ground level construction activities are likely however the scale of visual impact of these activities will be affected by the distance and the clarity of weather conditions. The activities of cranes would be visually prominent on the skyline, although also affected by weather conditions
Hawdref-fawr Approx. 8 km southwest of site	Views of crane activities	Mid to long distant views predicted to have little visual impact due to the intervening landform and forest cover. Visibility of cranes on the skyline would depend on clear atmospheric conditions and looking in the correct direction.

Table C1 (continued) Predicted Construction Visual Changes and Consequences

Receptor Type and Location	Visual Changes	Overview of Predicted Visual Consequences
Public and Private Recreational Space		
Afan Argoed Country Park Approx. 5 km southwest of site	Views of crane activity on the skyline	Topography of steep sided valley covered by blanket forestry precludes possible views.
Neath Abbey Approx. 11 km west of site	Views of crane activity on the skyline	Views of cranes obscured by surrounding vegetation and landform.
Public Rights of Way Associated with Highways		
A4107 Running east - west the nearest section lies approx. 3 km on the south side of the site	- Views of crane activity - Views of activity and materials in context of an operational construction site	From the nearest section of road the visual impact of ground level construction activities on road users is likely to be small due to the narrow visibility gap framed by the valley topography and vegetation. The height of cranes would be visually prominent on the skyline from further afield, however visibility would be affected by the atmospheric conditions.
A4063 Running south through Llynfi Valley towards Bridgend, approximately 3 km south of the site at the nearest section	Views of constructions vehicles on public roads	Availability of close to long distance views restricted by topography and built form.

Table C1 (continued) Predicted Construction Visual Changes and Consequences

Receptor Type and Location	Visual Changes	Overview of Predicted Visual Consequences
A465(T) Running along the valley floor of the Vale of Neath in a northeast direction approx. 4 km from the site at the nearest section	Views of crane activity	Potential for road users to gain rare glimpsed views of crane activity severely limited due to speed and direction of travel. Focus of road users visibility is directed along the valley floor.
A4067 Running along the valley floor of Swansea Valley in a northeast direction approx. 12 km from the site at the nearest section	Views of crane activity	Visibility of cranes would be obscured by landform and vegetation
A4061 Running from Hirwaun south along Ogmore Vale to Bridgend, approx. 8.5 km west of the site at the nearest section	Views of construction vehicles on public roads.	Around the area of Tower Colliery road users would sustain a considerable visual impacts from increase numbers of construction vehicles driving to and away from the site access route. This would include heavy goods vehicles.
M4 Running northwest following the coastline towards Swansea, situated approx. 12km west of the site at the nearest section	Views of crane activity	Long distant views would have little visual impact on road users. The speed, direction of travel and the built environment reduce the opportunity for glimpsed views.

Table C1 (continued) Predicted Construction Visual Changes and Consequences

Receptor Type and Location	Visual Changes	Overview of Predicted Visual Consequences
Business and Industries		
Cymmer Highways Depot Approx. 2 km south of the site	- Views of construction vehicles in the context of an operational construction site. - Views of activity and materials in context of an operational construction site - Views of crane activities - New temporary accommodation, prefabricated hut and parking seen in context of construction site	Visibility of construction activities would be framed by the topography and coniferous plantation cover limiting the visual impact of ground level construction activities. Visibility of cranes breaking the skyline likely to have the most impact on views.
Oil refinery, Neath Approx. 13 km west of the site	Views of crane activities	Availability of long distant views restricted by built form and clarity of weather conditions.
Hwdref Ganol Farm Approx. 7.5 km southwest of the site	Views of crane activities	Mid to long distant views predicted to have little visual impact due to the intervening landform and forest cover. Visibility of cranes on the skyline would depend on clear atmospheric conditions and looking in the correct direction.

Table C2 Predicted Operation Visual Changes and Consequences

Receptor Type and Location	Visual Changes	Overview of Predicted Visual Consequences
Public Rights of Way		
Coed Morgannwg Way	- Views of turbines - Occasional views of maintenance vehicles along access route within forest	Turbines and moving blades will have a considerable visual impact on views which are not screened by existing forestry plantation. Should deforestation take place along the western boundary this would dramatically increase the area where turbines could be seen. The introduction of moving turbine blades will change the visual composition of the mountain plateau. Increased movement and activity within the site and along access tracks within the forest. See wire frame Figure 9.6 a
Section Four passes close to the northeast corner of the proposed site snaking its way up Blaen Cregan from the east towards the edge of Cefn Mawr at Cefen Ffordd on the northern side of the mountain, before veering northeast towards Carn Caglau.		
St Illtyd's Walk	- Views of turbines - Views of anemometry mast - Views of maintenance vehicles and new internal access road - Views of turbines	Close distance views of all the turbines and moving blade will be the dominant focus changing the composition of existing views over Blaen Creggan. See photoviewpoint Figure 9.7 a
Running along the northern boundary of the site		
Sam Helen		
The nearest section of this Roman road runs from Tonna in the Vale of Neath approximately 5 km west of the proposed site. Distant section lies within Brecon Beacons approximately 18 km northeast of site.		From section nearest to the site mid-range views are predicted to sustain views of a high number of turbine towers and blades breaking the skyline. Base of towers is likely to be screened by intervening forest plantation. See wire frame Figure 9.6 b Views from distant sections within the Brecon Beacons are likely to be see the wind farm as a minor element of a wider landscape composition. Visibility will also be greatly affected by the clarity of weather conditions See photomontage Figure 9.9 a - c

Table C2 (continued) Predicted Operation Visual Changes and Consequences

Receptor Type and Location	Visual Changes	Overview of Predicted Visual Consequences
Ogwr Ridge Way Walk Approx. 12 km south of site	Views of turbines	Long Distance views of a high number of turbines likely to be seen as part of the wider landscape composition. Visibility will also be affected by the clarity of weather conditions. See photoviewpoint Figure 9.7 b
Celtic Trail / High Level Route 47 Follows the same route of St Illtyd's Walk along the northern boundary of the site	- Views of turbines - Views of anemometry mast - Views of maintenance vehicles and new internal access road	Close distance views of all the turbines and moving blade will be the dominant focus changing the composition of existing views and having a high visual impact. See photoviewpoint Figure 9.7 a
Bridleway and Byway on Foel Trawsnant Approx. 4 km south of site	- Views of turbines - Views of anemometry mast	Predicted large visual impact on users of the PROW. Prolonged views and high number of turbines and moving blades likely to be seen up the valley, although coniferous plantations will screen lower sections of turbine towers on southern end of the site. See wire frame Figure 9.6 c
Footpath on Werfa Approx. 7 km southwest of site	Views of turbines	Long exposure of distant views predicted to be interrupted by presence of turbines on the skyline. Moving blades likely to be visible however, visibility of the turbines will depend on clear weather conditions. See wire frame Figure 9.6 d
PROW leading up to the Black Mountain in the Brecon Beacons Approx. 17 km north-northeast of site	Views of turbines	Users of the public rights of way are likely to experience little visual impact of turbines breaking the skyline. Visibility of turbines would depend on clear atmospheric conditions and looking in the correct direction. See photomontage Figure 9.10 a-c

Table C2 (continued) Predicted Operation Visual Changes and Consequences

Receptor Type and Location	Visual Changes	Overview of Predicted Visual Consequences
Residential Communities		
Abercragan: Approx. 1.5 km south of site	Views of turbines	Views of turbines from inside properties of Abercragan would be restricted due to the orientation of the buildings. Outside the buildings residents looking up the valley are likely to have their views partly foreshortened by a small number of turbines framed by valley topography and forests. Movement of turbine blades would be clearly visible. See wire frame Figure 9.6 e
Cymmer Approx. 3 km south of site	Views of turbines	Availability of views restricted by mountainous topography. See photoviewpoint Figure 9.7 c
Croeserw Approx. 4.5 km southeast of site	Views of turbines	A large number of turbines would be visible on the skyline. The height of the intervening topography and forest would reduce the visibility of the lower part of the towers however, the visible turbines would be a prominent feature of the landscape causing large scale visual impact to the residents. Movement of turbine blades would be clearly visible See photomontage Figure 9.11 a-c
Proposed Afan Valley Holiday Park Approx. 3.5 km south of site	Views of turbines	A number of turbines are likely to be visible, however views would be restricted by forest immediately surrounding the holiday park. Where visible the turbines and their moving blades would be a prominent feature of the landscape causing large scale visual impact. See photomontage Figure 9.12 a-c

Properties on western side of Maesteg Approx. 7.5 km south of site	Views of turbines	Availability of middle to long distance views of turbines predicted to be limited by topography and built environment. Weather conditions would also affect visibility. See photoviewpoint Figure 9.7 d
---	---	---

Table C2 (continued) Predicted Operation Visual Changes and Consequences

Receptor Type and Location	Visual Changes	Overview of Predicted Visual Consequences
Llangynwd Approx. 10 km south of site	Views of turbines	Orientation of the properties likely to restrict the visibility of turbines. See photoviewpoint Figure 9.7 e
Properties on eastern edge of Clifrew Approx. 7 km west of site	Views of turbines	Mid to long distant views of a large number of turbines predicted to be visible on the skyline and seen as a prominent element within the composition of the landscape. Visibility of the turbines would be affected by atmospheric conditions. See photomontage Figure 9.13 a-c
Properties on northern edge of Neath Approx. 11.5 km west of site	Views of turbines	Availability of views containing turbines likely to be obscured by intervening vegetation and topography. See wire frame Figure 9.6 f
Properties within the northern quarter of Swansea Approx. 18 km west of site	Views of turbines	Availability of long distance views restricted by built form and clarity of weather conditions. Any possibly views are of turbines are likely to be observed as a minor element of the overall landscape composition. See wire frame Figure 9.6 g
Cwmllynfell Approx. 17 km northwest of site	Views of turbines	Long distance combined with intervening topography likely to prevent views of the wind farm See wire frame Figure 9.6 h

Table C2 (continued) Predicted Operation Visual Changes and Consequences

Receptor Type and Location	Visual Changes	Overview of Predicted Visual Consequences
Isolated Residential Receptors		
Bryn-Caws Farm Approx. 8 km west of site	Views of turbines	Mid to long distance views of turbines would be visually prominent upon the skyline, however the distance and the clarity of weather conditions will affect the scale of visual impact. See photoviewpoint Figure 9.7 f
Hawdref Ganol Farm Approx. 7.5 km southwest of the site	Views of turbines	Mid to long distance views predicted to have little visual impact due to the intervening landform and forest cover. Visibility of turbines on the skyline would depend on clear atmospheric conditions and looking in the correct direction. See wire frame Figure 9.6 m
Hawdref-fawr Approx. 8 km southwest of site	Views of turbines	Mid to long distance views of turbines predicted to largely obscured by intervening landform and vegetation. Visibility would also be affected atmospheric conditions. See photomontage Figure 9.14 a-c
Public and Private Recreational Space		
Afan Argoed Country Park Approx. 5 km southwest of site	Views of turbines	Topography of steep sided valley covered by blanket forestry precludes possible views of turbines.
Neath Abbey Approx. 11 km west of site	Views of turbines	Availability of views containing turbines likely to be limited by intervening built form and topography.

Table C2 (continued) Predicted Operation Visual Changes and Consequences

Receptor Type and Location	Visual Changes	Overview of Predicted Visual Consequences
Public Rights of Way associated with Highways		
A4107 Running east - west the nearest section lies approx. 3 km on the south side of the site	Views of turbines	Landform and topography would obscure any possible views of the wind farm See photomontage Figure 9.15 a-c
A4063 Running south through Llynfi Valley towards Bridgend, approximately 3 km south of the site at the nearest section	Views of turbines	Availability of close to long distance views restricted by screening provided by intervening topography and built form. See wire frame Figure 9.6 i
A465(T) Running along the valley floor of the Vale of Neath in a northeast direction approx. 4 km from the site at the nearest section	Views of turbines	Potential for road users to gain rare glimpsed views of turbines severely limited due to speed and direction of travel. Focus of road users view is directed along the valley floor. See wire frame Figure 9.6 j
A4067 Running along the valley floor of Swansea Valley in a northeast direction approx. 12 km from the site at the nearest section	Views of turbines	Visibility of turbines screened by landform and vegetation

Table C2 (continued) Predicted Operation Visual Changes and Consequences

Receptor Type and Location	Visual Changes	Overview of Predicted Visual Consequences
A4061 Running along Ogmore Vale south from Rhondda to Bridgend, approx. 10 km southeast from the site at the nearest section	• Views of turbines • Views of maintenance vehicles on public roads	Availability of turbines would be severely restricted by intervening topography and coniferous forest plantations. Maintenance vehicles would have little visual impact on road users.
M4 Running northwest following the coastline towards Swansea, situated approx. 12km west of the site at the nearest section	• Views of turbines	Long distant views would have little visual impact on road users. The speed, direction of travel and the built environment reduce the opportunity for glimpsed views. See wire frame Figure 9.6 k
Business and Industries		
Cymmer Highways Depot Approx. 2 km south of the site	• Views of turbines	Visibility of turbines would be framed by the topography and coniferous plantation cover. The remaining views of turbines breaking the skyline is likely to foreshorten views and have the greatest visual impact. See photoviewpoint Figure 9.7 g
Oil refinery, Neath Approx. 13 km west of the site	• Views of turbines	Availability of long distance views restricted by built form and clarity of weather conditions. Any possibly views are of turbines are likely to be observed as a minor element of the overall landscape composition. See wire frame Figure 9.6.l

Table C3 Landscape Effects and Evaluation of Significance: Construction

Identified Activity	Landscape Resource Impacted	Sensitivity of Resource	Type of Effect	Magnitude of Impacts	Significance	Significance Rationale
Movement of plant and vehicles	Landscape elements	Low	Neutral	Low	Not Significant	No direct loss of landscape resources as existing access tracks used to reach site.
	Landscape characteristics	High	Adverse	Medium	Minor	Tranquillity and calm are key landscape characteristics of the site which will be underlined by predicted movement. However the brevity of the construction period reduces the magnitude as does the comparative lack of open close distance views.
	Landscape character	Medium	Adverse	Low	Minor	The site is not distinctive within the context of the Upland Forest Plateau Moorland landscape character type and the dominant characteristics such as exposure and relative isolation will not be modified by vehicle movement.
Use of cranes	Landscape element	Low	Adverse	Medium	Minor	Use of crane only likely to have small scale direct impact upon the site's landscape resources
	Landscape characteristics	High	Adverse	High	Major	Introduces a new moving large -scale element into the landscape that is out of proportion with other elements. However tall structures such as radio masts are not uncommon within surrounding landscape
	Landscape character	Medium	Adverse	Medium	Minor	The presence and movement of cranes will have negative impacts upon the open characteristics of the Upland Forest Plateau Moorland that is more redolent of urban areas
Construction of internal site access roads	Landscape element	Low	Adverse	Medium	Minor	Forest tracks and disused tramline are common features of the site and immediate environs, however their construction will require localised loss of the existing surface vegetation and possible loss of sections of the stone wall
	Landscape characteristics	High	Adverse	Medium	Major	Loss of acid grassland/raised blanket bog would be localised but undermine the visual harmony of the site by partitioning it into separate parcels

Table C3 (continued) Landscape Effects and Evaluation of Significance: Construction

Identified Activity	Landscape Resource Impacted	Sensitivity of Resource	Type of Effect	Magnitude of Impacts	Significance	Significance Rationale
Construction of internal site access roads	Landscape character	Medium	Adverse	Low	Minor	Loss of tranquility and calmness within landscape character area and changes to dominant textures and colours in sensitive upland landscape, however scale insufficient to undermine landscape character of the entire character area
Materials stockpiles	Landscape element	Low	Adverse	Medium	Minor	Minor loss of landscape elements to accommodate materials stockpiles, however brevity of construction period should minimise permanent damage to areas beneath stockpiles
	Landscape characteristics	High	Adverse	Medium	Major	Introduction of numerous alien elements into landscape characterised by its simplicity, unity and openness temporarily undermining these valued characteristics and introducing new, unnatural patterns and combinations of elements
	Landscape character	Medium	Adverse	Medium	Minor	Careful location of stockpiles in less exposed parts of the site allied with the brevity of construction should ensure that the wider landscape character area is not substantially undermined
On-site accommodation and contractors' offices	Landscape element	Low	Adverse	Low	Minor	Very small-scale loss of landscape elements and introduction of new temporary alien elements
	Landscape characteristics	High	Adverse	Low	Minor	Will help to modify existing patterns in local landscape and undermine sense of isolation and harmony
	Landscape character	Medium	Adverse	Low	Minor	Careful location of offices in less exposed parts of the site allied with the brevity of construction should ensure that the wider landscape character area is not substantially undermined
Lighting	Landscape element	Low	Not Applicable	None	None	No lighting proposed
	Landscape characteristics	High	Not Applicable	None	None	No lighting required

Table C3 (continued) Landscape Effects and Evaluation of Significance: Construction

Identified Activity	Landscape Resource Impacted	Sensitivity of Resource	Type of Effect	Magnitude of Impacts	Significance	Significance Rationale
Lighting	Landscape character	Medium	No Applicable	None	None	No lighting required
Temporary protection and security fencing	Landscape element	Low	Adverse	Low	Not Significant	No loss of existing landscape elements likely and new elements likely to be very low key e.g. chestnut pale fencing around excavations and metal palisade around the main compound
	Landscape characteristics	High	Adverse	Low	Minor	Will reinforce the new patterns and spatial relationship between elements such as materials stockpiles, plant, vehicles and contractors' offices. Fences and other linear boundaries are established landscape components in open upland areas
	Landscape character	Medium	Adverse	Low	Not Significant	Temporary fencing etc too small-scale to have any separate adverse effects upon the wider landscape character area
Disposal areas for excavated material (assumed to be on-site)	Landscape element	Low	Adverse initially then neutral	Medium	Minor	Localised loss of existing landscape elements and introduction of new ones which should be contoured to be naturalistic
	Landscape characteristics	High	Adverse initially then neutral	Medium	Minor	Re-vegetated spoil heaps left over from past mining activities are a common feature of the upland landscape. However during the construction period excavated material will be un-vegetated and therefore provide strong colour and textural contrasts with existing retained surrounding grassland and bog
	Landscape character	Medium	Neutral	Low	Not Significant	Once re-vegetated the excavated materials will easily assimilate into the existing landscape character area
Key		High	Beneficial	High	Major	
		Medium	Neutral	Medium	Minor	
		Low	Adverse	Low	Not Significant	
				None		

Table C4 Landscape Effects and Evaluation of Significance: Operation

Identified Activity	Landscape Resource Impacted	Sensitivity	Type of Effect	Magnitude of Impacts	Significance	Significance Rationale
Operation of the turbines	Landscape element	Low	Neutral	N/A	Not Significant	The operation of the turbines will not directly impact upon any landscape element
	Landscape Characteristics	High	Neutral	High	Major	The 16 turbines will be the tallest elements within the landscape and will introduce a previously unknown regular, mechanised type of movement into the landscape. This new combination of elements and movement generates a series of new patterns and undermines existing tranquillity
Land-take required for turbines and any other permanent on-site elements	Landscape character	Medium	Neutral	High	Major	The effects upon the defined landscape upland forestry plateau landscape character area will be a combination of both adverse and beneficial. However they will not undermine the prime constituents of the defined character such as topography, settlement, vegetation patterns etc. The operation of the turbines emphasises the elevation and openness of the landscape whilst demonstrating that the landscape is essentially man-made. The new patterns of movement, light and shade and colours will be accommodated within the existing landscape character area which is capable of absorbing change
	Landscape element	Low	Adverse	Low	Minor	Land take does not affect any landscape elements except small areas of acid grass land and raised bog. Vegetation could be re-established up to the base of the turbine minimising loss during operation
	Landscape characteristics	High	Adverse	Low	Minor	The loss of 16 areas of grassland and bog to be replaced with hardstandings and turbine bases will undermine the unity of the site and introduce new colour and textural contrast, increase complexity and contrast as well as helping to introduce modern elements into what is perceived as a long-established landscape. However all impacts will be relatively small-scale within such an extensive landscape

Table C4 (continued) Landscape Effects and Evaluation of Significance: Operation

Identified Activity	Landscape Resource Impacted	Sensitivity	Type of Effect	Magnitude of Impacts	Significance	Significance Rationale
Land-take required for turbines and any other permanent on-site elements	Landscape character	Medium	Adverse	Low	Minor	Individual changes such as this comparatively small-scale permanent land-take are unlikely to be of sufficient magnitude to be of major significance in their own right: the upland landscape is relatively sensitive but has the tolerance to accommodate the impacts of the loss of 16 areas of grassland/bog, hence the effects upon the landscape character will only be minor for such individual activities, although cumulatively they have the potential to greater levels of effects
Operation of access route	Landscape element	Low	Neutral	Low	Minor	Forest tracks used by quarry and logging vehicles already occur within the forest and the operation of an access route would not be a new feature or entail the loss of any existing features
	Landscape characteristics	High	Adverse	Low	Not Significant	Very low level of predicted usage allied with high levels of tree cover result in very low potential magnitude of landscape impacts
	Landscape character	Medium	Neutral	Low	Not Significant	Very low level of predicted usage allied with high levels of tree cover result in no effects on a scale that could have any adverse impacts upon the wider landscape character area
Movement associated with on-site maintenance activities	Landscape element	Low	Neutral	None	Not Significant	No additional loss of elements from construction period and much reduced levels of movement result in very low potential landscape impacts - a couple of vehicles a day. A situation that reflects present usage by farmers and forestry vehicles
	Landscape characteristics	High	Neutral	None	Not Significant	Low levels of movement will not be of sufficient magnitude to generate significant landscape effects
	Landscape character	Medium	Neutral	Low	Minor	No effects upon wider landscape character area

Table C4 (continued) Landscape Effects and Evaluation of Significance: Operation

Identified Activity	Landscape Resource Impacted	Sensitivity	Type of Effect	Magnitude of Impacts	Significance	Significance Rationale
Signs and boundary treatments	Landscape element	Low	Beneficial	Low	Minor	Information signs along the surrounding footpaths and bridleways enables the wind farm and the wider landscape to be interpreted and explained increasing the understanding and enjoyment of visitors
	Landscape characteristics	High	Neutral	Low	Minor	Introduction of signs would too small-scale to have an effect the landscape characteristics
	Landscape character	Medium	Neutral	Low	Minor	Direct effects will be negligible, however a suitably designed interpretation package could have positive effect by encouraging public to appreciate the wider landscape context of the wind farm
Land-take associated with connection to the National Grid network south of Croeserw	Landscape element	Low	Adverse	Low	Minor	Introduction of new small-scale elements
	Landscape Characteristics	High	Adverse	Low	Minor	The connection can be absorbed within the existing arrangement of landscape characteristics due to existence of extensive blocks of forestry along route. Magnitude of impacts could increase if closest sections were to be cleared.
	Landscape character	Medium	Neutral	Low	Not Significant	Too small scale and unintrusive to undermine existing landscape character in which similar elements are already a periodic feature
Key						
		High	Beneficial	High	Major	
		Medium	Neutral	Medium	Minor	
		Low	Adverse	Low	Not Significant	
				None		

Table C5 Visual Effects and Evaluation of Significance: Construction

Visual Receptor Viewpoints and Routes	Type of Effect	Distance Between Farm and Receptor Viewpoint	Receptor Sensitivity	Magnitude of Effect	Significance	
					Level	Rationale
Public Rights of Way						
Coed Morgannwg Way	Adverse	Close	High	High	Major	Very close views of access road, limited views of construction from some sections
St Iltyd's Walk	Adverse	Close	High	High	Major	Very close clear views from northern edge of site
Sarn Helen	Adverse	Middle / Long	High	Medium	Minor	Distance too great to discern any activities clearly except possibly use of cranes on clear days on sections which are closer to site
Ogwr Ridge Way Walk	Adverse	Long	High	Low	Not significant	Distance too great to discern any activities clearly
Celtic Trail / High Level Route 47	Adverse	Close	High	High	Major	Very close clear views from northern edge of site
Bridleway and Byway on Foel Trawsnant	Adverse	Middle	High	Medium	Minor	Limited views of activities due to distance and intervening plantations, possible views of cranes from elevated sections
Footpath on Werfa	Adverse	Long	High	Low	Minor	Visibility dependant on clear weather conditions only potential visible activity would be operation of cranes above the skyline
Footpaths leading up to the Black Mountain in the Brecon Beacons	Adverse	Long	High	None	Not significant	As above – but unlikely to be able of see cranes due to distance
Residential communities						
Abercragan	Adverse	Close / Middle	High	High	Minor	Orientation of properties limits possible views filtered views may be glimpsed of crane
Glyncorrwg	Not Applicable	Middle	High	None	Not significant	ZVI prediction analysis indicates that no views available even of cranes due to differences in elevation and intervening topography

Table C5 (continued) Visual Effects and Evaluation of Significance: Construction

Visual Receptor Viewpoints and Routes	Type of Effect	Distance Between Farm and Receptor Viewpoint	Receptor Sensitivity	Magnitude of Effect	Significance	Level	Rationale
Resolven	Adverse	Middle	High	Low	Minor	Minor	No views from main areas of town, however potential for some views of cranes from the Craig Nedd area to west of River Neath
Melincourt	Adverse	Middle	High	Low	Minor	Minor	Potential for partial, glimpsed or filtered views from some properties away from B4434
Cymmer	Adverse	Middle	High	Low	Minor	Minor	Views limited by topography and vegetation
Croeserw	Adverse	Middle	High	High	Major	Major	Views of construction activities screened by topography and coniferous plantations on mountaintops. But possible views of crane movements elevated above plantations producing a stark visual contrast
Proposed Afan Valley Holiday Park	Adverse	Middle	High	Medium	Major	Major	At time of writing no information available about development period of holiday park proposal.
Properties on western side of Maesteg	Adverse	Long	High	None	Not significant	Not significant	Views limited by distance, topography and screening vegetation
Llangynwd	Adverse	Long	High	None	Not significant	Not significant	Orientation and location of buildings and screening vegetation restricts views towards the site
Properties on eastern edge of Cilfrew	Adverse	Middle / Long	High	Low	Minor	Minor	Views limited by orientation of some properties, possible views of cranes on clear visibility days
Properties on northern edge of Neath	Adverse	Long	High	None	Not Significant	Not Significant	Views of construction activities would be limited due to distance. Restricted views of cranes may be possible on clear days
Properties within the northern quarter of Swansea	Adverse	Long	High	None	Not significant	Not significant	Views limited due to distance and possible obstructions from built environment
Cwmlllynfell	Adverse	Long	High	Low	Not significant	Not significant	Distance too great to discern any activities clearly

Table C5 (continued) Visual Effects and Evaluation of Significance: Construction

Visual Receptor Viewpoints and Routes	Type of Effect	Distance Between Farm and Receptor Viewpoint	Receptor Sensitivity	Magnitude of Effect	Significance	Level	Rationale
Isolated residential receptors							
Bryn-caws Farm	Adverse	Middle / Long	Medium	Medium	Minor	Minor	Distant views of activity possible on days of clear visibility
Hwdref Ganol Farm	Adverse	Long	Medium	Medium	Minor	Minor	Topographical differences and distance too great to discern any activities
Hawdref-fawr	Adverse	Middle / Long	Medium	Medium	Not significant	Not significant	Distance too great to discern any activities
Public and private recreational open space							
Afan Argoed Country Park	Adverse	Middle	Medium	Low	Not significant	Not significant	Surrounding forest plantations and topography restrict views
Neath Abbey	Adverse	Long	Medium	None	Not significant	Not significant	Views screened by surrounding vegetation
Rights of way associated with highways							
A4107	Adverse	Middle / Long	Low	Low	Not significant	Not significant	Potential glimpsed views of crane activity above the skyline, visibility dependant on clarity of weather
A4063	Adverse	Middle / Long	Low	Low	Not significant	Not significant	Distance, topographical differences and built environment intervene and restrict views.
M4	Adverse	Long	Low	None	Not significant	Not significant	No views, distance too great

Table C5 (continued) Visual Effects and Evaluation of Significance: Construction

Visual Receptor Viewpoints and Routes	Type of Effect	Distance Between Farm and Receptor Viewpoint	Receptor Sensitivity	Magnitude of Effect	
				Level	Rationale
Business and industry					
Cymmer Highways Depot	Adverse	Middle	Low	Medium	Minor
Oil refinery, Neath	Neutral	Long	Low	None	Filtered views up the valley
Distance, topographical differences and built environment intervene views					
Key	Beneficial	Long 5 km +	High	High	Major
	Neutral	Middle 2-5km	Medium	Medium	Minor
	Adverse	Close 0-2km	Low	Low	Not Significant
					None

Table C6 Visual Effects and Evaluation of Significance: Operation

Visual Receptor Viewpoints and Routes	Type of Effect	Distance Between Wind Farm and Receptor Viewpoint	Receptor Sensitivity	Magnitude of Effect	Significance	
					Level	Rationale
Public Rights of Way						
Coed Morgannwg Way	Adverse	Close	High	High	Major	Very close views of access road. glimpsed views of turbines through forest plantation with full view on a number of turbines at junction of St Illyd's Walk and Cefn Ffordd
St Illyd's Walk	Adverse	Close	High	High	Major	Very close, full views of the wind farm from northern end of site See Figure 9.7a
Sarn Helen	Adverse	Middle / Long	High	High	Major	Turbines would be a dominant feature of the on the skyline and blade rotation would visible from sections nearer the site. From distant sections of Sarn Helen visibility would greatly be affected by clarity of atmospheric conditions. See Figures 9.6b and 9.9a-c
Ogwr Ridge Way Walk	Adverse	Long	High	Medium	Minor	Distant views of top section of turbine tower and blades affected by clarity of weather conditions. See Figure 9.7b
Celtic Trail / High Level Route 47	Adverse	Close	High	High	Major	Very close, full views of the wind farm from northern end of site
Bridleway and Byway on Foel Trawsant	Adverse	Middle	High	High	Major	Prominent views of turbine towers and blades from both PROWs.
Footpath on Werfa	Adverse	Long	High	High	Major	Long distant views of wind farm on the skyline affected by atmospheric conditions.
Footpaths leading up to the Black Mountain in the Brecon Beacons	Adverse	Long	High	Low	Minor	Long distant views of wind farm affected by clarity of weather conditions. See Figure 9.10a-c

Table C6 (Continued) Visual Effects and Evaluation of Significance: Operation

Visual Receptor Viewpoints and Routes	Type of Effect	Distance Between Wind Farm and Receptor Viewpoint	Receptor Sensitivity	Magnitude of Effect	Significance	Level	Rationale
Residential communities							
Abercragan	Adverse	Close / Middle	High	High	Major		Intervening plantations and topography combined with orientation of properties limits visibility and number of turbines. Blades and top sections of towers will be clearly visible.
Glyncornwg	Not Applicable	Middle	High	None	Not Significant		ZVI analysis demonstrates no views from village itself
Resolven	Adverse	Middle	High	Low	Minor		Limited views of some turbines from Craig Nedd area
Melincourt	Adverse	Middle	High	Low	Minor		Potential for partial, glimpsed or filtered views from some properties away from B4434
Cymmer	Adverse	Middle	High	High	Major		Intervening topography and forestry plantations limits the number and height of turbines seen. Turbines will be a major feature of views due to distance from site. See Figure 9.7c
Croesnew	Adverse	Middle	High	High	Major		High numbers of turbine towers and blades clearly visible on skyline. See Figure 9.11a-c
Proposed Afan Valley Holiday Park	Adverse	Middle	High	Medium	Major		Glimpsed view of turbines through forestry plantation. Visibility of wind farm / turbines also dependant on amount of forest removed / retained. See Figure 9.12a-c. (Visibility shown at present time with no tree removal)
Properties on western side of Maesteg	Adverse	Long	High	Medium	Minor		Views restricted to properties on higher ground and orientated towards the site. Many views interrupted by built environment, topography and vegetation
Llangynwd	Adverse	Long	High	Medium	Minor		Orientation and location of buildings combined with screening vegetation restricts views. See Figure 9.7e
Properties on eastern edge of Clifffre	Adverse	Middle / Long	High	High	Major		Visibility of a large proportion of the wind farm on the skyline. Visibility restricted by orientation of some properties and tall vegetation along the roadside obscures some views. See Figure 9.13a-c
Properties on northwest side of Neath	Adverse	Long	High	Low	Minor		Built environment and intervening topography and vegetation restrict distant views. Visibility also affected by atmospheric conditions

Table C6 (continued) Visual Effects and Evaluation of Significance: Operation

Visual Receptor Viewpoints and Routes	Type of Effect	Distance Between Wind Farm and Receptor Viewpoint	Receptor Sensitivity of Effect	Magnitude of Effect	Level	Rationale
Properties within the northern quarter of Swansea	Neutral	Long	High	Low	Not significant	As above, but increased distance from site
Cwmilynfell	Adverse	Long	High	Low	Minor	As above
Isolated Residential Receptors						
Bryn-caws Farm	Adverse	Middle / Long	Medium	Medium	Minor	Distant views of turbine towers and blades. Majority of wind farm visible on the skyline. See Figure 9.7f
Hwdref Ganol Farm	Adverse	Long	Medium	Low	Minor	Long distances views of wind farm affected by topography, forestry plantations and atmospheric conditions
Hawdref-fawr	Adverse	Middle / Long	Medium	Low	Minor	Distant views of wind farm affected by clarity of weather conditions. See Figure 9.14a-c
Public and Private Recreational Open Space						
Afan Argoed Country Park	Adverse	Middle	Medium	Low	Minor	Surrounding forest plantations and topography restrict views of wind farm
Neath Abbey	Neutral	Long	Medium	None	Not significant	Views screened by surrounding vegetation.
Rights of Way Associated with Highways						
A4107	Adverse	Middle / Long	Low	Medium	Minor	Long distance short-lived views of wind farm on the skyline. Visibly dependant on clarity of weather conditions. See Figure 9.15a-c

Table C6 (continued) Visual Effects and Evaluation of Significance: Operation

Visual Receptor Viewpoints and Routes	Type of Effect	Distance Between Wind Farm and Receptor Viewpoint	Receptor Sensitivity	Magnitude of Effect	Level	Rationale
A4063	Adverse	Middle / Long	Low	Low	Minor / Not significant	Views from distant sections restricted by topography, vegetation and built environment. Sections close to Croeserw likely to glimpse views of tower and blades of a small number of turbines
M4	Adverse	Long	Low	Low	Not Significant	Very short lived views glimpsed at speed and interrupted by topography and built environment
Business and Industry						
Cymmer Highways Depot	Adverse	Middle	Low	High	Minor	Clear views of tower and blades. Topography of valley limits the number of turbines visible. See Figure 9.7g
Oil refinery, Neath	Neutral	Long	Low	Low	Not significant	Distance of view and interruptions of a built environment restrict visibility of wind farm
Key	Beneficial	Close 0-2km	High	High	Major	
	Neutral	Middle 2-5km	Medium	Medium	Minor	
	Adverse	Long 5 km +	Low	Low	Not Significant	
				None		

