

BRIEFING NOTE

Project Reference	Umma More Renewable Energy Development
Date & Time	05/04/2023
Subject	EIAR Main Report: Chapter 5 – Tables 5-9 to 5-11 amendments due to formatting error
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It has come to our attention that there is a formatting error within Table 5-9 in Chapter 5 of the EIAR for Umma More Renewable Energy Development (Proposed Development). The formatting error in question is in Table 5-9 'Maximum Potential Daily & Annual Shadow Flicker – Proposed Umma More Renewable Energy Development' and is relating to the identification of participating properties in the Proposed Development. Tables 5-10 (Daily) and Table 5-11(Annual) presents the shadow flicker mitigation strategy for the Proposed Development, identifying properties that are not participating in the Proposed Development. Due to the formatting error in identifying participating properties in Table 5-9, this carried through to Table 5-10 and Table 5-11.

For clarification, the shadow flicker assessment results and modelling presented within Table 5-9 and in Chapter 5 of the EIAR are accurate as are the mitigation measures that will be applied to ensure that Shadow Flicker levels do not exceed the required thresholds. The only discrepancy with Table 5-9 was the identification of participating properties in Columns 11 and 12.

Please find below clarification of the origin of the formatting error in Table 5-9 which has carried through to Table 5-10 and Table 5-11 in Chapter 5 of the EIAR.

Clarification of the origin of the formatting error in Table 5-9 to Table 5-11:

Within Table 5-9 there are seven instances in which the House ID identified as a participating property is incorrectly identified in Columns 11 (Mitigation Strategy Required (Daily)) and 12 (Mitigation Strategy Required (Annual)) in Table 5-9. From House ID number 9 onwards, the identified participating properties jumped down one cell in Table 5-9, resulting in a typographical error in the identification of a participating property. For example, property no. 9 is participating in the Proposed Development however, it was property number 10 that was identified as participating, Table 1 below presents a summary of the relevant properties relating to the formatting error.

Table 1 Clarification of Participating Property Formatting Error

House ID	Participating Properties within the Proposed Development	Formatting error regarding identification as Participating Properties within Table 5-9			
9	Yes	Not identified as a Participating Property			
10	No	Identified as a Participating Property			
12	Yes	Not identified as a Participating Property			
13	No	Identified as a Participating Property			
26	Yes	Not identified as a Participating Property			
27	No	Identified as a Participating Property			
29	Yes	Not identified as a Participating Property			
30	No	Identified as a Participating Property			
33	Yes	Not identified as a Participating Property			
34	No	Identified as a Participating Property			
80	Yes	Not identified as a Participating Property			
81	No	Identified as a Participating Property			
84	Yes	Not identified as a Participating Property			
85	No	Identified as a Participating Property			

With the above in mind, please find below corrected Table 5-9 in which, Columns 11 and 12 have been updated to correct this formatting error, therefore correctly identifying the participating properties.





Table 5.9 Maximum Potential Daily & Annual Shadow Flicker – Proposed Umma More Renewable Energy Development

House ID	ITM Coordinates (Easting)	ITM Coordinates (Northing)	Description	Distance to Nearest Turbine (metres)	Nearest Proposed Turbine No.	Max. Daily Shadow Flicker: Pre- Mitigation (hrs:min:sec)	Max. Annual Shadow Flicker: Pre- Mitigation (hrs:min:sec)	Max. Annual Shadow Flicker Adjusted for Average Regional Sunshine (hrs:min:sec)	Proposed Turbine(s) Giving Rise to Daly Shadow Flicker Exceedance	Mitigation Strategy Required (Daily)	Mitigation Strategy Required (Annual)
1	618187	745934	Derelict	571	T4	01:09:00	140:42:00	42:18:28	3, 4	No*	No*
2	618399	747936	Dwelling	757	T1	00:51:36	73:30:00	22:06:04	1, 2,	No**	No
3	619841	746630	Dwelling	759	T5	01:30:00	198:48:00	59:46:41	2, 3, 4, 5, 6, 7	Yes	Yes
4	621453	745239	Dwelling	759	T7	00:40:12	71:30:00	21:29:59	7, 9,	No**	No
5	618915	745338	Dwelling	763	T4	00:37:48	69:30:00	20:53:54	5, 8,	Yes	No
6	620556	746589	Dwelling	767	Т6	01:09:00	87:06:00	26:11:26	5, 6,	No**	No
7	618087	745667	Dwelling	770	T4	00:54:00	71:48:00	21:35:24	4,	Yes	No
8	621320	746366	Dwelling	777	T7	00:49:48	82:18:00	24:44:50	6, 7,	Yes	No
9	618475	748140	Dwelling	779	T1	00:51:36	42:48:00	12:52:11	1,	No**	No
10	621172	744654	Dwelling	808	Т9	00:51:36	55:48:00	16:46:43	8, 9,	Yes	No
11	618036	745676	Dwelling	809	T4	00:52:12	79:00:00	23:45:18	4,	Yes	No
12	618376	748045	Dwelling	818	T1	00:48:36	52:24:00	15:45:23	1,	No**	No
13	619889	747394	Dwelling	829	T1	00:49:12	128:18:00	38:34:45	1, 2, 3,	Yes	Yes
14	618287	747683	Dwelling	833	T1	00:46:48	73:30:00	22:06:04	1, 2,	Yes	No
15	618174	747340	Dwelling	847	T2	00:46:12	109:54:00	33:02:47	1, 2, 3,	Yes	Yes
16	618208	747455	Dwelling	847	T2	00:46:12	104:00:00	31:16:20	1, 2, 3,	Yes	Yes
17	618264	747610	Dwelling	860	T1	00:46:12	86:12:00	25:55:12	1, 2,	Yes	No
18	619952	747921	Dwelling	861	T1	00:45:00	61:24:00	18:27:45	1, 2,	Yes	No
19	620818	746596	Dwelling	868	T7	00:42:00	67:36:00	20:19:37	6,	Yes	No
20	618250	747779	Dwelling	873	T1	00:45:00	67:00:00	20:08:48	1, 2,	Yes	No
21	618929	745223	Dwelling	878	T4	00:34:48	57:12:00	17:11:59	8	Yes	No
22	618121	747256	Dwelling	885	T2	00:44:24	96:48:00	29:06:26	1, 2, 3,	Yes	No
23	621200	744540	Dwelling	898	Т9	00:39:00	33:12:00	9:58:59	8, 9,	Yes	No

House ID	ITM Coordinates (Easting)	ITM Coordinates (Northing)	Description	Distance to Nearest Turbine (metres)	Nearest Proposed Turbine No.	Max. Daily Shadow Flicker: Pre- Mitigation (hrs:min:sec)	Max. Annual Shadow Flicker: Pre- Mitigation (hrs:min:sec)	Max. Annual Shadow Flicker Adjusted for Average Regional Sunshine (hrs:min:sec)	Proposed Turbine(s) Giving Rise to Daly Shadow Flicker Exceedance	Mitigation Strategy Required (Daily)	Mitigation Strategy Required (Annual)
24	621312	746517	Dwelling	900	T7	00:37:48	38:30:00	11:34:36	6, 7,	Yes	No
25	618422	748301	Dwelling	919	T1	00:42:00	40:54:00	12:17:54	1,	Yes	No
26	618380	748267	Dwelling	930	T1	00:43:48	33:18:00	10:00:47	1,	No**	No
27	621461	746453	Dwelling	931	T7	00:41:24	63:36:00	19:07:27	6, 7	Yes	No
28	618077	746968	Dwelling	941	Т3	00:42:36	120:54:00	36:21:14	1, 2, 3, 4	Yes	Yes
29	621434	744955	Dwelling	946	Т9	00:55:48	52:30:00	15:47:11	9,	No**	No
30	621149	744413	Dwelling	947	Т9	00:11:24	3:24:00	1:01:21	N/A	No	No
31	620140	746850	Dwelling	956	T6	00:45:00	70:06:00	21:04:43	2, 3	Yes	No
32	621238	744491	Dwelling	959	Т9	00:36:00	28:36:00	8:35:59	8	Yes	No
33	618042	747109	Dwelling	960	T2	00:40:48	108:18:00	32:33:55	1, 2, 3	No**	No**
34	620699	744161	Dwelling	963	Т9	00:00:00	0:00:00	0:00:00	N/A	No	No
35	620376	744130	Dwelling	981	Т9	00:00:00	0:00:00	0:00:00	N/A	No	No
36	621274	744492	Dwelling	986	Т9	00:37:48	32:12:00	9:40:57	9	Yes	No
37	621203	744407	Dwelling	989	Т9	00:22:12	10:18:00	3:05:50	N/A	No	No
38	621233	746652	Dwelling	989	T7	00:33:00	22:12:00	6:40:31	6	Yes	No
39	621280	746636	Dwelling	993	T7	00:32:24	17:54:00	5:22:57	6	Yes	No
40	621314	744527	Dwelling	997	Т9	00:42:36	41:24:00	12:26:55	9	Yes	No
41	617957	746743	Dwelling	998	Т3	00:40:12	98:06:00	29:29:53	2, 3, 4	Yes	No
42	621833	746010	Dwelling	999	T7	00:39:36	45:42:00	13:44:30	7	Yes	No
43	618447	748447	Dwelling	1003	T1	00:39:00	42:54:00	12:53:59	1	Yes	No
44	621462	744804	Dwelling	1007	Т9	00:48:00	33:06:00	9:57:11	9	Yes	No
45	618372	748380	Dwelling	1008	T1	00:38:24	40:48:00	12:16:06	1	Yes	No
46	621478	744839	Dwelling	1013	Т9	00:49:12	32:18:00	9:42:45	9	Yes	No
47	617996	746982	Dwelling	1020	T2	00:39:00	116:12:00	34:56:27	1, 2, 3, 4	Yes	Yes

House ID	ITM Coordinates (Easting)	ITM Coordinates (Northing)	Description	Distance to Nearest Turbine (metres)	Nearest Proposed Turbine No.	Max. Daily Shadow Flicker: Pre- Mitigation (hrs:min:sec)	Max. Annual Shadow Flicker: Pre- Mitigation (hrs:min:sec)	Max. Annual Shadow Flicker Adjusted for Average Regional Sunshine (hrs:min:sec)	Proposed Turbine(s) Giving Rise to Daly Shadow Flicker Exceedance	Mitigation Strategy Required (Daily)	Mitigation Strategy Required (Annual)
48	621453	744698	Dwelling	1035	Т9	00:41:24	36:00:00	10:49:30	9	Yes	No
49	620423	744066	Dwelling	1040	Т9	00:00:00	0:00:00	0:00:00	N/A	No	No
50	620144	747524	Dwelling	1040	T1	00:38:24	59:06:00	17:46:16	1, 2	Yes	No
51	617960	747157	Dwelling	1041	T2	00:37:48	84:48:00	25:29:56	1, 2, 3	Yes	No
52	620494	744059	Dwelling	1044	Т9	00:00:00	0:00:00	0:00:00	N/A	No	No
53	621347	744492	Dwelling	1044	Т9	00:40:48	37:54:00	11:23:47	9	Yes	No
54	618372	748440	Dwelling	1050	T1	00:36:36	42:36:00	12:48:35	1	Yes	No
55	618835	745029	Dwelling	1056	T4	00:32:24	20:00:00	6:00:50	8	Yes	No
56	620477	746929	Dwelling	1062	Т6	00:28:12	62:36:00	18:49:25	N/A	No	No
57	620936	744114	Dwelling	1081	Т9	00:00:00	0:00:00	0:00:00	N/A	No	No
58	617910	747172	Dwelling	1091	T2	00:36:36	77:36:00	23:20:02	1, 2, 3	Yes	No
59	621651	744955	Dwelling	1097	T7	00:34:12	17:36:00	5:17:32	9	Yes	No
60	621886	745261	Dwelling	1115	T7	00:36:36	35:36:00	10:42:17	7	Yes	No
61	620218	747506	Dwelling	1116	T1	00:36:00	50:36:00	15:12:55	1, 2	Yes	No
62	618449	748599	Dwelling	1119	T1	00:30:36	21:18:00	6:24:17	1	Yes	No
63	618359	748530	Dwelling	1123	T1	00:34:12	37:00:00	11:07:33	1	Yes	No
64	621608	744868	Dwelling	1132	T7	00:46:12	26:06:00	7:50:53	9	Yes	No
65	621814	746367	Dwelling	1135	T7	00:36:00	24:42:00	7:25:38	7	Yes	No
66	621953	746099	Dwelling	1140	T7	00:34:48	18:42:00	5:37:23	7	Yes	No
67	619592	748749	Dwelling	1148	T1	00:00:00	0:00:00	0:00:00	N/A	No	No
68	617851	747114	Dwelling	1151	T2	00:34:48	80:30:00	24:12:21	1, 2, 3	Yes	No
69	617846	747216	Dwelling	1156	T2	00:34:12	69:00:00	20:44:53	1, 2, 3	Yes	No
70	617831	747309	Dwelling	1180	T2	00:33:36	58:00:00	17:26:25	1, 2, 3	Yes	No
71	621896	746322	Dwelling	1181	T7	00:34:48	20:48:00	6:15:16	7	Yes	No

House ID	ITM Coordinates (Easting)	ITM Coordinates (Northing)	Description	Distance to Nearest Turbine (metres)	Nearest Proposed Turbine No.	Max. Daily Shadow Flicker: Pre- Mitigation (hrs:min:sec)	Max. Annual Shadow Flicker: Pre- Mitigation (hrs:min:sec)	Max. Annual Shadow Flicker Adjusted for Average Regional Sunshine (hrs:min:sec)	Proposed Turbine(s) Giving Rise to Daly Shadow Flicker Exceedance	Mitigation Strategy Required (Daily)	Mitigation Strategy Required (Annual)
72	621926	746313	Dwelling	1202	T7	00:34:12	19:36:00	5:53:37	7	Yes	No
73	621990	745273	Dwelling	1206	T7	00:34:12	28:12:00	8:28:47	7	Yes	No
74	617548	746289	Dwelling	1207	T4	00:33:00	29:36:00	8:54:02	4	Yes	No
75	620952	746948	Dwelling	1220	T7	00:23:24	10:12:00	3:04:02	N/A	No	No
76	620298	743884	Dwelling	1238	Т9	00:00:00	0:00:00	0:00:00	N/A	No	No
77	621296	744152	Derelict	1240	T9	00:00:00	0:00:00	0:00:00	N/A	No	No
78	619544	748873	Dwelling	1245	T1	00:00:00	0:00:00	0:00:00	N/A	No	No
79	620373	743851	Dwelling	1258	T9	00:00:00	0:00:00	0:00:00	N/A	No	No
80	622071	745331	Dwelling	1261	T7	00:32:24	24:30:00	7:22:01	7	No**	No
81	621174	746964	Dwelling	1270	T7	00:28:48	25:00:00	7:31:03	N/A	No	No
82	621000	747004	Dwelling	1280	T7	00:22:48	10:00:00	3:00:25	N/A	No	No
83	620245	743844	Dwelling	1285	T9	00:00:00	0:00:00	0:00:00	N/A	No	No
84	618416	748813	Dwelling	1314	T1	00:00:00	0:00:00	0:00:00	N/A	No	No
85	622082	746291	Dwelling	1332	T7	00:30:36	15:00:00	4:30:38	7	Yes	No
86	619669	744029	Dwelling	1355	T8	00:00:00	0:00:00	0:00:00	N/A	No	No
87	617397	745840	Dwelling	1361	T4	00:29:24	13:00:00	3:54:32	N/A	No	No
88	622205	746027	Dwelling	1363	T7	00:29:24	12:12:00	3:40:07	N/A	No	No
89	617498	745482	Dwelling	1376	T4	00:30:36	20:30:00	6:09:51	4	Yes	No
90	620170	743767	Dwelling	1376	Т9	00:00:00	0:00:00	0:00:00	N/A	No	No
91	617444	745580	Dwelling	1386	T4	00:30:00	16:24:00	4:55:53	4	Yes	No
92	617494	745416	Dwelling	1409	T4	00:30:00	23:06:00	6:56:46	4	Yes	No
93	617586	746998	Dwelling	1415	Т3	00:28:48	42:18:00	12:43:10	N/A	No	No
94	621151	747129	Dwelling	1426	T7	00:22:12	10:12:00	3:04:02	N/A	No	No
95	622285	745942	Dwelling	1426	T7	00:28:12	10:48:00	3:14:51	N/A	No	No

House ID	ITM Coordinates (Easting)	ITM Coordinates (Northing)	Description	Distance to Nearest Turbine (metres)	Nearest Proposed Turbine No.	Max. Daily Shadow Flicker: Pre- Mitigation (hrs:min:sec)	Max. Annual Shadow Flicker: Pre- Mitigation (hrs:min:sec)	Max. Annual Shadow Flicker Adjusted for Average Regional Sunshine (hrs:min:sec)	Proposed Turbine(s) Giving Rise to Daly Shadow Flicker Exceedance	Mitigation Strategy Required (Daily)	Mitigation Strategy Required (Annual)
96	622295	745509	Dwelling	1438	T7	00:27:36	10:30:00	3:09:26	N/A	No	No
97	618860	749119	Dwelling	1439	T1	00:00:00	0:00:00	0:00:00	N/A	No	No
98	617289	746117	Dwelling	1448	T4	00:27:36	10:06:00	3:02:13	N/A	No	No
99	617278	746093	Dwelling	1459	T4	00:27:36	10:24:00	3:07:38	N/A	No	No
100	620195	743672	Dwelling	1463	Т9	00:00:00	0:00:00	0:00:00	N/A	No	No
101	622364	745714	Dwelling	1490	T7	00:26:24	9:48:00	2:56:49	N/A	No	No
102	620071	743671	Dwelling	1495	Т9	00:00:00	0:00:00	0:00:00	N/A	No	No
103	618406	749020	Dwelling	1498	T1	00:00:00	0:00:00	0:00:00	N/A	No	No
104	619132	749208	Dwelling	1505	T1	00:00:00	0:00:00	0:00:00	N/A	No	No
105	621024	743677	Dwelling	1519	Т9	00:00:00	0:00:00	0:00:00	N/A	No	No
106	620058	743635	Dwelling	1533	Т9	00:00:00	0:00:00	0:00:00	N/A	No	No
107	619204	749238	Dwelling	1537	T1	00:00:00	0:00:00	0:00:00	N/A	No	No
108	621159	747263	Dwelling	1559	T7	00:00:00	0:00:00	0:00:00	N/A	No	No
109	622263	745001	Dwelling	1568	T7	00:27:00	14:00:00	4:12:35	N/A	No	No
110	617260	745546	Dwelling	1571	T4	00:26:24	11:54:00	3:34:42	N/A	No	No
111	618430	749128	Dwelling	1583	T1	00:00:00	0:00:00	0:00:00	N/A	No	No
112	622455	745549	Dwelling	1591	T7	00:25:12	7:48:00	2:20:44	N/A	No	No
113	619965	743600	Dwelling	1595	Т9	00:00:00	0:00:00	0:00:00	N/A	No	No
114	617184	746449	Dwelling	1596	T4	00:25:12	9:00:00	2:42:23	N/A	No	No
115	619373	749288	Dwelling	1605	T1	00:00:00	0:00:00	0:00:00	N/A	No	No

^{*} Derelict Property

^{**}Participating Property

The clarification in the formatting error in identification of participating properties in Table 5-9 thus requires an update to Table 5-10 and Table 5-11 in which properties that are not participating in the Proposed Development are identified in the shadow flicker mitigation strategy in the EIAR. The amended tables are included below:

Table 5-10 Shadow Flicker Mitigation Strategy for Daily Shadow Flicker Exceedance – Turbine Numbers and Dates

Property No.	No. of Days 30min/day Threshold is Exceeded	Turbine(s) Producing Shadow Flicker Exceedance	Days of Year When Mitigation May be Required (Days)	Days of Year When Mitigation May be Required (Dates)*
3	237	2, 3, 4, 5, 6, 7	1-18, 20-27, 44-53, 80-	1st January – 18th January, 20th January - 27th January, 13th February - 22nd
			99, 140-203, 245-264,	February, 21st March - 31st March, 20th May - 22nd July, 1st - 21st
			292-300, 319-365	September, 19 th - 27 th October, 15 th November - 31 st December
5	40	5, 8,	85-95, 164-181 250-	26 th March - 5 th April, 13 th June - 30 th June, 7 th -17 th September
			260,	
7	69	4	138-206	18 th May – 25 th July
8	88	6, 7,	1-29, 50-58, 316-365,	1st January - 29th January, 19th February - 27th February, 12th November -
				31st December
9	47	1	29 51, 294 317	30 th January 20 th February, 21 st October 13 th November
10	87	8, 9	129-215	9 th May – 3 rd August
11	80	4	133-212	13 th May - 31 st July
12	39	1	45 63, 282 301,	14th February 4th March, 9th October 28th October
13	249	1, 2, 3	12-50, 78-107, 238-	12 th January – 19 th February, 19 th March – 17 th April, 26 th August - 24 th
			267, 295-334, 353-358	September, 22 nd October – 30 th November, 19 th December – 24 th
				December
14	83	1,2	26-46, 85-103, 241-	26 th January - 15 th February, 26 th March - 13 th April, 29 th August - 18 th
			261, 299-320	September, 26 th October - 16 th November
15	125	1, 2, 3,	10-31, 64-83, 118-137,	10 th January - 31 st January, 5 th March - 24 th March, 28 th April - 17 th May,
			207-227, 262-281, 315-	26 th July - 15 th August, 19 th September - 8 th October, 11 th November - 2nd
			336	December
16	136	1, 2, 3,	1-15, 17-18, 52-71, 1st January - 15th January, 17th-18th January, 21 February - 12th	
			107-126, 219-238, 274-	April - 6 th May, 7 August - 2 th August, 1 October - 21 October, 23 rd - 25 th
			294, 327-329, 331-365	November, 27 th November - 31 st December

Property No.	No. of Days 30min/day Threshold is Exceeded	Turbine(s) Producing Shadow Flicker Exceedance	Days of Year When Mitigation May be Required (Days)	Days of Year When Mitigation May be Required (Dates)*
17	85	1, 2,	33-53, 92-111, 233- 253, 291-312,	4 th February - 22nd February, 2nd April - 21 st April, 21 August - 10 September, 18 th October - 8 th November
18	72	1, 2,	21-35, 60-80, 264-284, 310-324	21st January - 4th February, 1st March - 21st March, 21 September - 11th October, 6th November - 20th November
19	73	6	1-26, 319-365	1 st January - 26 th January, 12 th November - 31 st December
20	75	1, 2,	20-38, 75-92, 253-270, , 307-326,	20 th January - 7 th April, 16 th March - 2nd April, 10 th September - 27 th September, 3 rd November - 22 November
21	24	8	94-105, 240-251,	4 th April - 15 th April, 28 August – 8 th September
22	108	1, 2, 3,	23-39, 74-91, 124-142, 203-220, 254-272, 306- 322,	23 January - 8 th February, 15 th March - 1 st April, 4 th May – 22nd May, 22 July - 8 th August, 11 th September – 29 th September, 2 November - 18 th November
23	58	8, 9,	153-190, 162-181,	3 rd June - 9 th July,
24	45	6, 7,	1-11, 46-47, 298-299, 335-336, 338-365	1st January - 11th January, 15th February – 16th February, 25th-26th October, 1st-2nd December, 4th December - 31st December
25	41	1,	17-36, 309-329,	17 th January - 5 th February, 5 th November - 25 th November
26	35	1,	24-41, 305-321,	24 th January - 10 th February, 1 st November-17 th November
27	121	6, 7	40-59, 285-305	9 th February – 28 th February, 12 th October - 1 st November
28	148	1, 2, 3, 4	1-7, 11, 49-65, 101- 119, 153-191, 225-243, 280-297, 335, 339-365	1st January - 7th January, 11th January, 18th February - 6th March, 11th April - 29th April, 3rd June - 10th July, 13th August - 31st August, 7th October - 24th October, 1st December, 5th December - 31st December
29	32	9	97-112, 232-247,	7 th April - 21st April, 20 August - 4th September
31	33	2, 3	68-73, 109-118, 226- 235, 271-277,	9 th March - 14 th March, 19 th - 28 th April, 14 August – 23 rd August, 28 th September - 4 th October
32	30	8	157-186,	6 th June - 5 th July
33	97	1,2,3	39 53, 88 103, 135 151, 193 209, 242 257, 292 307,	8 th -February 22nd February, 29 th -March 13 th -April, 15 th -May 31 st -May, 12 th -July 28 th -July, 30 th -August 14 th -September, 19 th -October 3 rd November
36	20	9	162-181,	11 th June – 30 th June
38	20	6	26-35, 310-319	26 th January – 4 th February, 6 th November - 15 th November

Property No.	No. of Days 30min/day Th reshold is Exceeded	Turbine(s) Producing Shadow Flicker Exceedance	Days of Year When Mitigation May be Required (Days)	Days of Year When Mitigation May be Required (Dates)*
39	9	6	34-37, 308-312	3 rd February - 6 th February, 4 November - 8 th November
40	46	9	149-194	29 th May - 13 th July
41	98	2,3,4	18-37, 72-85, 120-134, 211-225, 260-273, 309- 328,	18 th January - 6 th February, 13 th March- 26 th March, 30 th April - 14 th May, 30 th July - 13 th August, 17 th September – 30 th September, 5 th November - 24 th November
42	27	7	59-71, 273-286,	28 th February - 12 th March, 30 th September - 13 th October
43	64	1	1-22, 324-365	1 st January - 22 January, 20 November – 31 st December
44	34	9	111-127, 217-233	21 April – 7 th May, 5 th August – 21 st August
45	37	1	14-31, 314-332,	14 th January – 31 st January, 10 th November – 28 th November
46	31	9	107-122, 222-236	17 th April - 2nd May, 10 th August – 24 th August
47	131	1, 2, 3, 4	1-8, 51-64, 100-113, 146-163, 182-199, , 232-245, 281-294, 332- 333, 337-365	1st January - 8th January, 20th February - 5th march, 10th April - 23rd April, 26th May - 12th June, 1st July - 18th July, 20th August - 2nd September, 8th October - 21st October, 18th November - 29th November, 3rd December - 31st December
48	40	9	121-140, 203-222	1 st May – 20 th May, 22nd July - 10 th August
50	44	1, 2	58-65, 99-112, 231- 245, 280-286,	27 th February – 6 th March, 9 th April - 22nd April, 19 th August – 2 nd September, 7 th October – 13 th October
51	69	1,2,3	40-50, 84-96, 128-137, 208-217, 249-261, 295-306,	9 th February - 19 th February, 25 th March - 6 th April, 8 th May -17 th May, 27 th July - 5 th August, 6 th September – 18 th September, 22 nd October – 2 nd November
53	42	9	151-192	31 may - 11 th July
54	48	1	2-3, 6-26, 319-340, 342-344	2nd January - 3 rd January, 6 th January - 26 th January, 15 th November - 6 th December, 8 December - 10 th December
55	18	8	108-116, 229-237	18 th April - 26 th April, 17 th August - 25 th August
58	54	1,2,3	41-50, 84-93, 125-131, 213-219, 252-261, 296- 305,	10 th February - 19 th February, 25 th March - 3 rd April, 5 th May - 11 th May, 1 st August - 7 th August, 9 th September - 18 th September, 23 rd October - 1 st November
59	15	9	96-103, 241-247	6 th April - 13 th April, 29 th August - 4 th September

Property No.	No. of Days 30min/day Th reshold is Exceeded	Turbine(s) Producing Shadow Flicker Exceedance	Days of Year When Mitigation May be Required (Days)	Days of Year When Mitigation May be Required (Dates)*
60	25	7	126-138, 206-217	6 th May - 18 th May, 25 th July-5 th August
61	31	1,2	62-65, 100-110, 234- 244, 279-283,	3 rd March-6 th March, 10 th April -20 th April, 22nd August-1 st September, 6 th October- 10 th October
62	10	1	351-360	17 th December - 26 th December
63	55	1	1-16, 327-365	1stJanuary -16th January, 23rd November - 31st December
64	19	9	103-112, 232-240	13 th April - 22nd April, 20 th August - 28 th August
65	26	7	30-42, 303-315	30 th January - 11 th February, 30 th October - 11 th November
66	17	7	56-64, 281-288	25 th February - 5 th March, 8 th October - 15 th October
68	37	1,2,3	47-54,89-96, 128-130, 215-216, 249-259, 291- 298	16 th February - 23 rd February, 30 th March - 6 th April, 8 th May - 10 th May, 3 rd August - 4 th August, 6 th September - 16 th September, 18 th October - 25 th October
69	36	1,2,3	41-47,81-88, 121-123, 222-224, , 257-264, 299-305	10 th February - 16 th February, 22nd March - 29 th March, 1 st May - 3 rd May, 10 th August - 12 th August, 14 th September - 21 st September, 26 th October - 1 st November
70	31	1,2,3	36-40, 74-81, 114-116, 229-231, 265-271, 306-310	5 th February - 9 th February, 15 th March - 22nd March, 24 th April - 26 th April, 17 th August - 19 th August, 22nd September - 28 th September, 2nd November - 6 th November
71	20	7	38-47, 298-307	7 th February - 16 th February, 25 th October - 3 rd November
72	18	7	40-48, 297-305	9 th February - 17 th February, 24 th October - 1 st November
73	16	7	122-129, 215-222	2nd May - 9 th May, 3 rd August - 10 th August
74	13	4	71-76, 269-275	12 th March - 17 th March, 26 th September - 2nd October
80	9	7	116 119, 224 228	26 th -April 29 th -April, 12 th -August 16 th -August
85	42	7	38-58, 286-306	7 th February – 27 th February, 13 th October – 2 nd November
89	9	4	130-133, 211-215	10 th May - 13 th May, 30 th July - 3 rd August
91	2	4	121,223	1st May, 11th August
92	6	4	135-137, 207-209	15 th May – 17 th May, 26 th July – 28 th July

*Note: days of year are based on the year 2022

Table 5-11 Shadow Flicker Mitigation Strategy for Annual Shadow Flicker Exceedance

Property No.	Max. Annual Shadow Flicker Adjusted for Average Regional Sunshine (hrs:min:sec)	Turbine(s) Producing Shadow Flicker Exceedance	Post-mitigation Maximum Annual Shadow Flicker (hrs:mins:sec)
3	59:46:41	2,3,4,5,6,7	≤30:00:00
13	38:34:35	1, 2, 3	≤30:00:00
15	33:02:47	1,2,3	≤30:00:00
16	31:16:20	1,2,3	≤30:00:00
28	36:21:14	1,2,3,4	≤30:00:00
33	32:33:55	1,2,3	≤30:00:00
47	34:56:27	1,2,3,4,	≤30:00:00

Summary

For clarification, the shadow flicker assessment results, including the modelling presented within Chapter 5 of the EIAR are accurate and the above tables do not present any changes in the residual impact assessment. The formatting error which gave rise to the incorrect identification of participating properties in Table 5-9 and subsequent updates to Table 5-10 and Table 5-11 has been rectified and updated tables are presented in this briefing note. The *Likely Significance of Effects and Associated Mitigation Measures* (EIAR Chapter 5, Section 5.9.3.10) remains the same, as does the findings of the shadow flicker assessment.