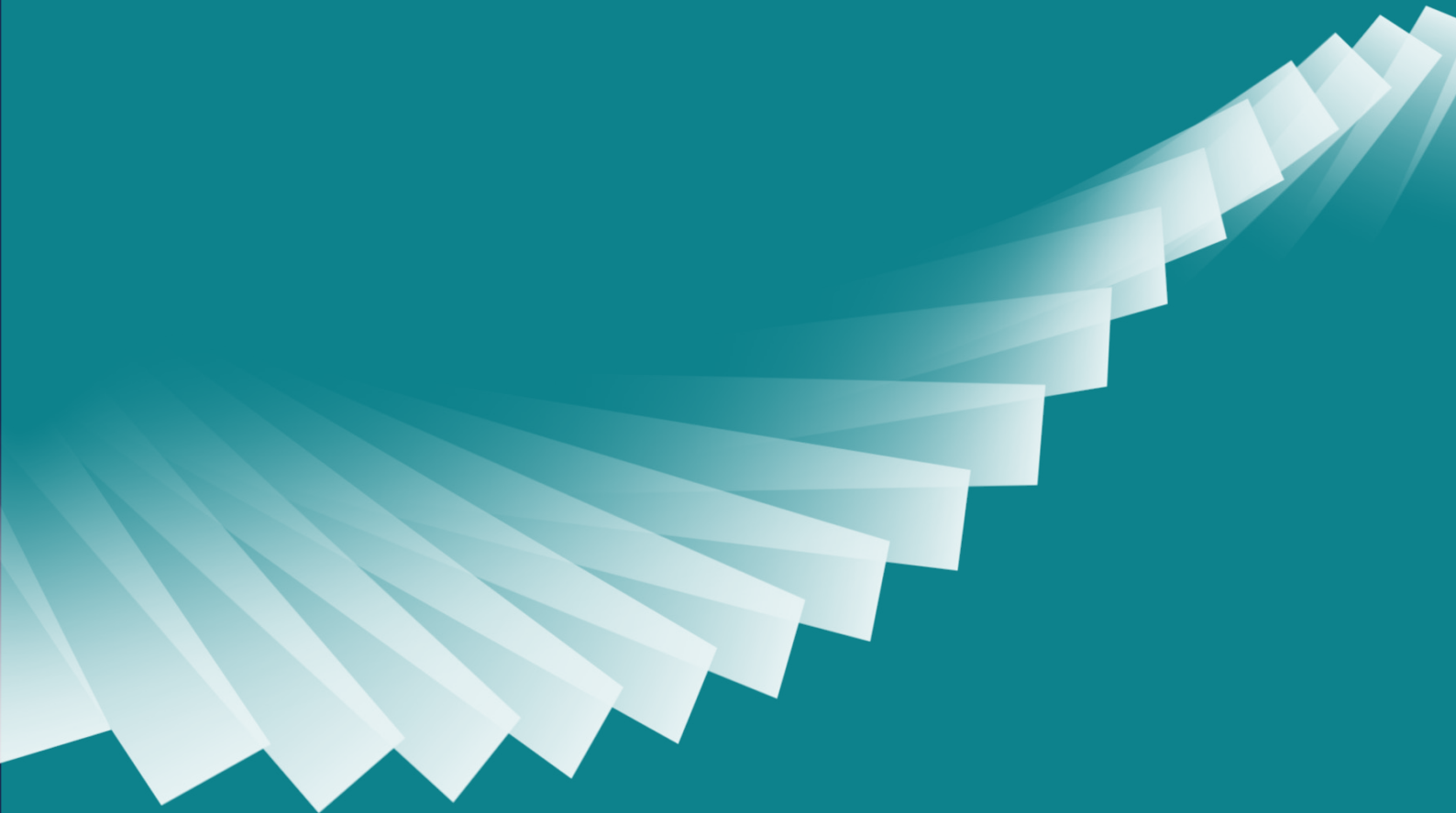




Bute Energy
Aberedw Energy Park

Appendix 2.5:

Shadow Flicker Assessment



Shadow Flicker Impact Assessment

Land Use Consultants

Aberedw Energy Park

June 2025

PLANNING SOLUTIONS FOR:

- Solar
- Defence
- Airports
- Telecoms
- Buildings
- Radar
- Railways
- Wind
- Mitigation

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ADMINISTRATION PAGE

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Issue	Date	Detail of Changes
1	April 2025	Initial issue
2	May 2025	Minor updates
3	June 2025	Minor updates

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EXECUTIVE SUMMARY

Report Purpose

Pager Power has been commissioned to investigate the potential shadow flicker impact of wind turbines within a proposed Energy Park development located near Aberedw, Powys, Wales upon residential amenity.

A total of 18 wind turbines are proposed, with a tip height of 200 metres above ground level and rotor diameter of 163 metres. Coordinate data is presented in Section 2.1.

Assessment Methodology

The model assumes that each dwelling receptor has a single window that is 1 metre by 1 metre and has a centre that is 1.5 metres above ground and directed towards the turbine. A minimum Sun elevation of 2 degrees has been considered. All results are with respect to the reference threshold limits of 30 minutes per day and/or 30 hours per year. See Section 5.2 for further details.

Conservative Approach

Shadow flicker effects can occur only on sunny days. Additionally, other factors could also diminish effects, including:

- Visibility from the receptor;
- Window position;
- Cloud cover;
- Varying wind direction;
- Low wind speed – which could result in the turbines not operating for a period of time.

The analysis used conservative assumptions, considering only clear daylight conditions and window locations with a direct line-of-sight of the turbines.

Results Overview

The overall conclusions are presented below:

- The modelling results indicate that 33 dwellings would receive shadow flicker effects for more than the reference threshold limit of 30 minutes per day and/or 30 hours per year;
- Mitigation in the form of a shutdown scheme is recommended unless it can be confirmed that views from windows towards the proposed turbines are obstructed by permanent screening or are confirmed to not exist under baseline conditions.

Mitigation

Aberedw Energy Park Limited is aware that shadow flicker (dependent on weather on certain days) may impact the assessed properties. The modelling results indicate that 33 dwellings would receive shadow flicker effects for more than the reference limits of 30 minutes per day and 30 hours per year. It is recommended that shadow flicker effects are reduced to less than these reference limits i.e. to less than 30 minutes per day and 30 hours per year. This could be achieved either by a shutdown scheme or a technical solution such as a light intensity detection system to determine if shadow flicker will occur during the dates/times it is geometrically possible alongside a shutdown scheme. If considered appropriate by the planning authority, the applicant would be willing to accept a condition attached to any grant of permission to limit shadow flicker for the assessed dwelling to below these reference limits.

A shutdown scheme defines the times between which a turbine should be shut down to either reduce shadow flicker effects to below the recommended threshold limits, or to eliminate all shadow flicker effects completely throughout the year, assuming clear sunny skies. The term 'shutdown' means that the rotating blade is completely still and does not move for the period of time specified.

The dates and times when shadow flicker may occur at the dwelling in question are presented in Appendix C. This information should be used to guide any shutdown scheme to mitigate shadow flicker effects.

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ABOUT PAGER POWER

Pager Power is a dedicated consultancy company based in Suffolk, UK. The company has undertaken projects in 62 countries internationally.

The company comprises a team of experts to provide technical expertise and guidance on a range of planning issues for large and small developments.

Pager Power was established in 1997. Initially the company focus was on modelling the impact of wind turbines on radar systems.

Over the years, the company has expanded into numerous fields including:

- Renewable energy projects.
- Building developments.
- Aviation and telecommunication systems.

Pager Power prides itself on providing comprehensive, understandable and accurate assessments of complex issues in line with national and international standards. This is underpinned by its custom software, longstanding relationships with stakeholders and active role in conferences and research efforts around the world.

Pager Power's assessments withstand legal scrutiny and the company can provide support for a project at any stage.

1 INTRODUCTION

1.1 Overview

Pager Power has been commissioned to investigate the potential shadow flicker impact of wind turbines within a proposed Energy Park development located near Aberedw, Powys, Wales upon residential amenity.

A total of 18 wind turbines are proposed, with a tip height of 200 metres above ground level and rotor diameter of 163 metres. Coordinate data is presented in Section 2.1.

This report contains the following:

- Proposed Energy Park details;
- Details of technical analysis;
- Shadow flicker explanation;
- Receptor details;
- Assessment of receptors;
- Assessment of hours per year/day;
- Shadow flicker hours chart (per receptor);
- Assessment of hours per year/day;
- Conclusions.

2 PROPOSED ENERGY PARK DETAILS

2.1 Turbine Details

The proposed wind turbine coordinates are presented in Table 1 below. The locations of the proposed wind turbines are shown in Figure 1 on the following page.

Turbine	Easting (British National Grid)	Northing (British National Grid)	Longitude	Latitude
1	308846	250156	-3.33343	52.14215
2	308501	250450	-3.33855	52.14474
3	308220	250783	-3.34274	52.14769
4	308814	251167	-3.33417	52.15124
5	308325	251350	-3.34136	52.15280
6	308491	251930	-3.33909	52.15804
7	310120	250040	-3.31479	52.14132
8	310411	250677	-3.31070	52.14709
9	310159	251095	-3.31449	52.15081
10	310100	251608	-3.31549	52.15541
11	309624	251861	-3.32252	52.15761
12	309120	252122	-3.32995	52.15987
13	309749	252329	-3.32081	52.16183
14	310439	252304	-3.31072	52.16172
15	310791	252015	-3.30550	52.15918
16	311040	252796	-3.30207	52.16624
17	311417	252520	-3.29649	52.16382
18	311496	251990	-3.29519	52.15907

Table 1 Assessed wind turbine details

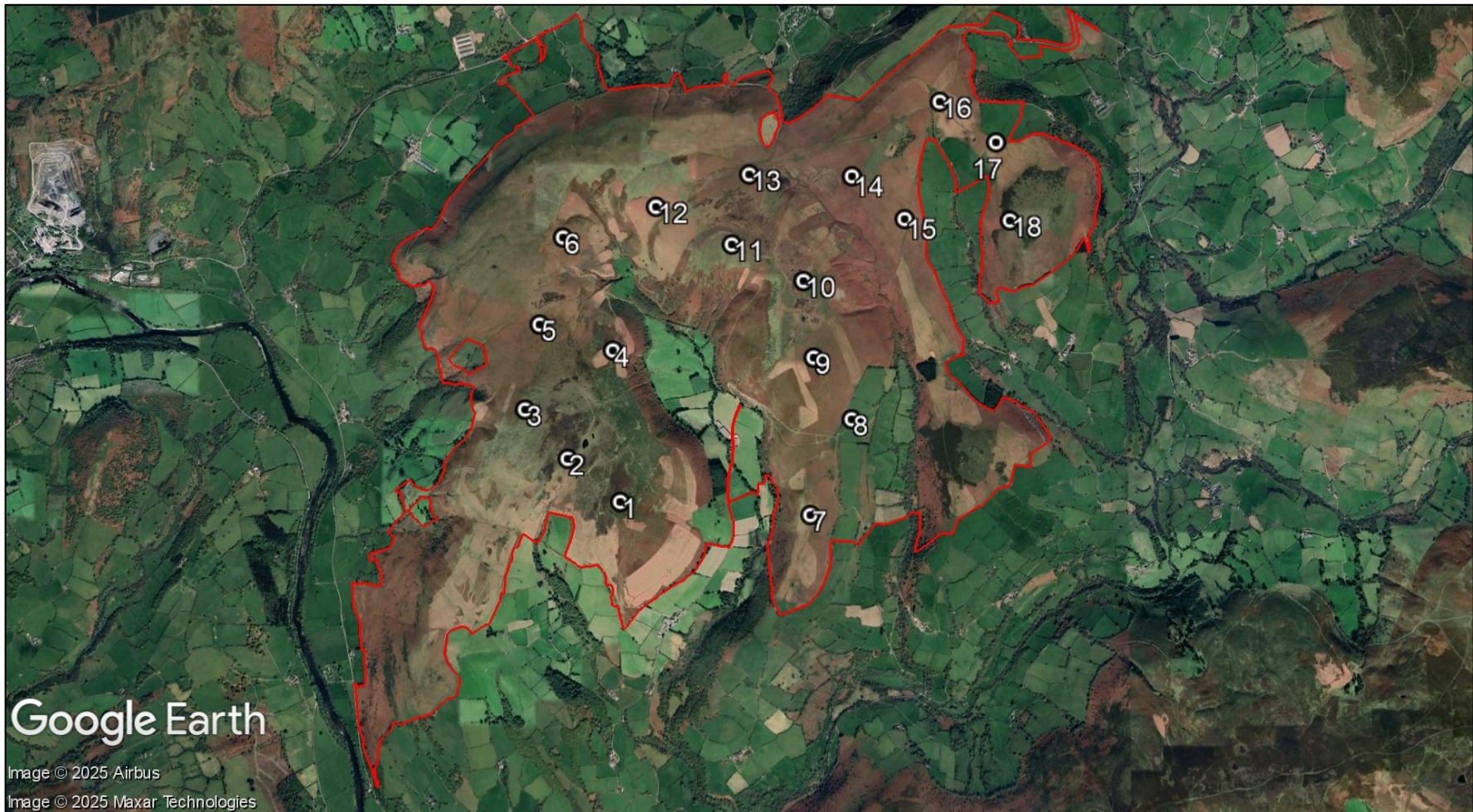


Figure 1 Energy Park development location

3 SHADOW FLICKER GUIDANCE REVIEW

3.1 Overview

Rotating wind turbine blades can cause brightness levels to vary periodically at locations where they obstruct the Sun's rays. This can result in a nuisance when the shadow is cast over the windows of residential properties. This intermittent shadow is described by the term 'shadow flicker' and it can be a cause of annoyance at residences near onshore wind turbines if it occurs for a significant period of time during the year. No significant negative health effects are anticipated.¹

3.2 Guidance Overview

There are various sources of guidance with regard to shadow flicker impacts caused by wind turbines. The most relevant extracts have been presented and summarised in Table 2 below and on the following pages. However, the material regarding shadow flicker is quite extensive and not all aspects have been summarised here.

Source	Extract	Remarks
Scottish Government Onshore wind turbines: planning advice	Under certain combinations of geographical position, time of day and time of year, the sun may pass behind the rotor and cast a shadow over neighbouring properties. When the blades rotate, the shadow flicks on and off; the effect is known as 'shadow flicker'. It occurs only within buildings where the flicker appears through a narrow window opening. The seasonal duration of this effect can be calculated from the geometry of the machine and the latitude of the potential site. Where this could be a problem, developers should provide calculations to quantify the effect. In most cases however, where separation is provided between wind turbines and nearby dwellings (as a general rule, 10 rotor diameters), 'shadow flicker' should not be a problem. However, there is scope to vary layout/reduce the height of turbines in extreme cases.	-

¹ See Table 2.

Source	Extract	Remarks
Parsons Brinckerhoff, 2011 – <i>Update of UK Shadow Flicker Evidence Base</i>	This report presents an update of the evidence base which has been produced by carrying out a thorough review of international guidance on shadow flicker, an academic literature review and by investigating current assessment methodologies employed by developers and case study evidence. Consultation (by means of a questionnaire) was carried out with stakeholders in the UK onshore wind industry including developers, consultants and Local Planning Authorities (LPAs). This exercise was used to gauge their opinion and operational experience with shadow flicker, current guidance and the mitigation strategies that can and have been implemented.	The report was read and understood by Pager Power and provides context for flicker reports.
Parsons Brinckerhoff, 2011 – <i>Update of UK Shadow Flicker Evidence Base</i>	The three key computer models used by the industry are WindPro, WindFarm and Windfarmer. It has been shown that the outputs of these packages do not have significant differences between them. All computer model assessment methods use a “worst case scenario” approach and don’t consider “realistic” factors such as wind speed and cloud cover which can reduce the duration of the shadow flicker impact.	Pager Power uses WindFarm software for its analysis. The exclusion of variable environmental factors within the model (such as cloud cover) produces the conservative results as shown in this report.
	Mitigation measures which have been employed to operational wind farms such as turbine shut down strategies, have proved very successful, to the extent that shadow flicker cannot be considered to be a major issue in the UK.	-

Source	Extract	Remarks
	Companion Guide to PPS22 makes the following statements: - Shadow flicker only occurs inside buildings where the flicker appears through a narrow window opening; - Only properties within 130 degrees either side of north of the turbines can be affected at UK latitudes; Shadow flicker has been proven to occur only within ten rotor diameters of a turbine position.	Note that this guidance was officially withdrawn as of March 2014 however the technical context pertaining to shadow flicker is still relevant for the purpose of this report.
Parsons Brinckerhoff, 2011 – Update of UK Shadow Flicker Evidence Base	On health: <i>'On health effects and nuisance of the shadow flicker effect, it is considered that the frequency of the flickering caused by the wind turbine rotation is such that it should not cause a significant risk to health. Mitigation measures which have been employed to operational wind farms such as turbine shut down strategies, have proved very successful, to the extent that shadow flicker can not be considered to be a major issue in the UK.'</i>	-
	[Onshore Wind Energy Planning Conditions Guidance Note, Renewables Advisory Board and BERR (2007)] states that only dwellings within 130 degrees either side of north relative to a turbine can be affected and the shadow can be experienced only within 10 rotor diameters of the wind farm.	Secondary source presented within the Parson Brinckerhoff report.

Source	Extract	Remarks
Department for Communities & Local Government (July 2013): Planning practice guidance for renewable and low carbon energy.	Under certain combinations of geographical position and time of day, the Sun may pass behind the rotors of a wind turbine and cast a shadow over neighbouring properties. When the blades rotate, the shadow flicks on and off; the impact is known as 'shadow flicker'. Only properties within 130 degrees either side of north, relative to the turbines.	This document replaced 'Planning for renewable energy: a companion guide to PPS22'. It should be noted that no maximum distance is given within this document.

Table 2 Guidance – shadow flicker

3.3 Discussion – 10 Rotor Diameter Exclusion Zone

It is common to use 10 rotor diameters as a maximum limit within which significant shadow flicker effects can occur. The validity of this limit is discussed at length within the relevant literature². The guidance on this particular criterion varies in different documents and countries, with some stating that effects can only occur within this distance and others stating that this is a general rule or that the risk beyond this distance is low.

Pager Power generally considers receptors within 10 rotor diameters. This is considered an appropriate zone for potentially significant effects based on the available guidance and because other features of the modelling are highly conservative³ as set out in Table 2.

If significant impacts are predicted towards dwellings near the 10 rotor diameter threshold, the assessment area will be expanded to consider the closest dwellings outside of the 10 rotor diameter area.

3.4 Acceptable Limits

There is no formal limit on the amount of shadow flicker that is considered acceptable within the UK. Other European countries do have limits, and these vary from one country to another⁴. A typical limit, which has been utilised in Northern Ireland, Germany, and Belgium, is 30 hours per year with a maximum of 30 minutes per any one day. Since there is no formal guidance on this subject in the UK, the discussion of the results relative to these limits is for reference purposes only.

² See Table 2 for references.

³ For example, the assumption that all properties have a single window facing the nearest wind turbine and ignoring potential cloud cover or low wind speeds that could reduce the effects.

⁴ Parsons Brinckerhoff (2011): *Update of UK Shadow Flicker Evidence Base*.

If shadow flicker effects are predicted beyond this limit, mitigation may be required to eradicate the occurrence of shadow flicker. This is typically controlled by remote automatic wind turbine shutdown so that, in effect, no neighbouring property will experience the occurrence of shadow flicker beyond the limits specified above. There are two approaches to mitigation:

- Complete removal of effects;
- Reduction of any effects to the acceptable limit specified above.

Shadow flicker effects can only occur under specific conditions so, in reality, turbine shutdown may not be required to eliminate effects i.e. shadow flicker cannot occur if the weather at the time of predicted effects is not clear and sunny or if the rotor does not face on to the receptor.

4 IDENTIFICATION OF RECEPTORS

4.1 Assessed Receptors

4.1.1 Dwelling Receptors Overview

The model is based on the conservative assumption that each assessed receptor has a window facing directly towards the proposed wind turbines, with a clear view of the rotating turbine blades. The model has considered windows with a size of 1 metre by 1 metre with a centre that is 1.5 metres above ground level.

In residential areas with multiple layers of dwellings, only the outer dwellings have been considered for assessment. This is because they will mostly obscure views of the wind turbine to the dwellings behind them, which will therefore not be impacted by the proposed development because line of sight will be removed, or they will experience comparable effects to the closest assessed dwelling.

Additionally, in some cases, a single receptor point may be used to represent a small number of separate addresses. In such cases, the results for the receptor will be representative of the adjacent observer locations, such that the overall level of effect in each area is captured reliably.

4.1.2 Identified Dwelling Receptors

In total, 66 dwelling receptors have been identified with the assessment area and have been considered for analysis. The 10-rotor diameter area (within a range of 130° either side of North) from the turbines is shown as the orange outline.

Figure 2 on the following page shows the receptor identification process for shadow flicker analysis and the wind turbine location, specifically:

- The proposed turbine positions (dot icon);
- The identified receptors (house icon).

Receptor details, including coordinates, distance and bearing to the proposed wind turbine, are shown in Appendix A.

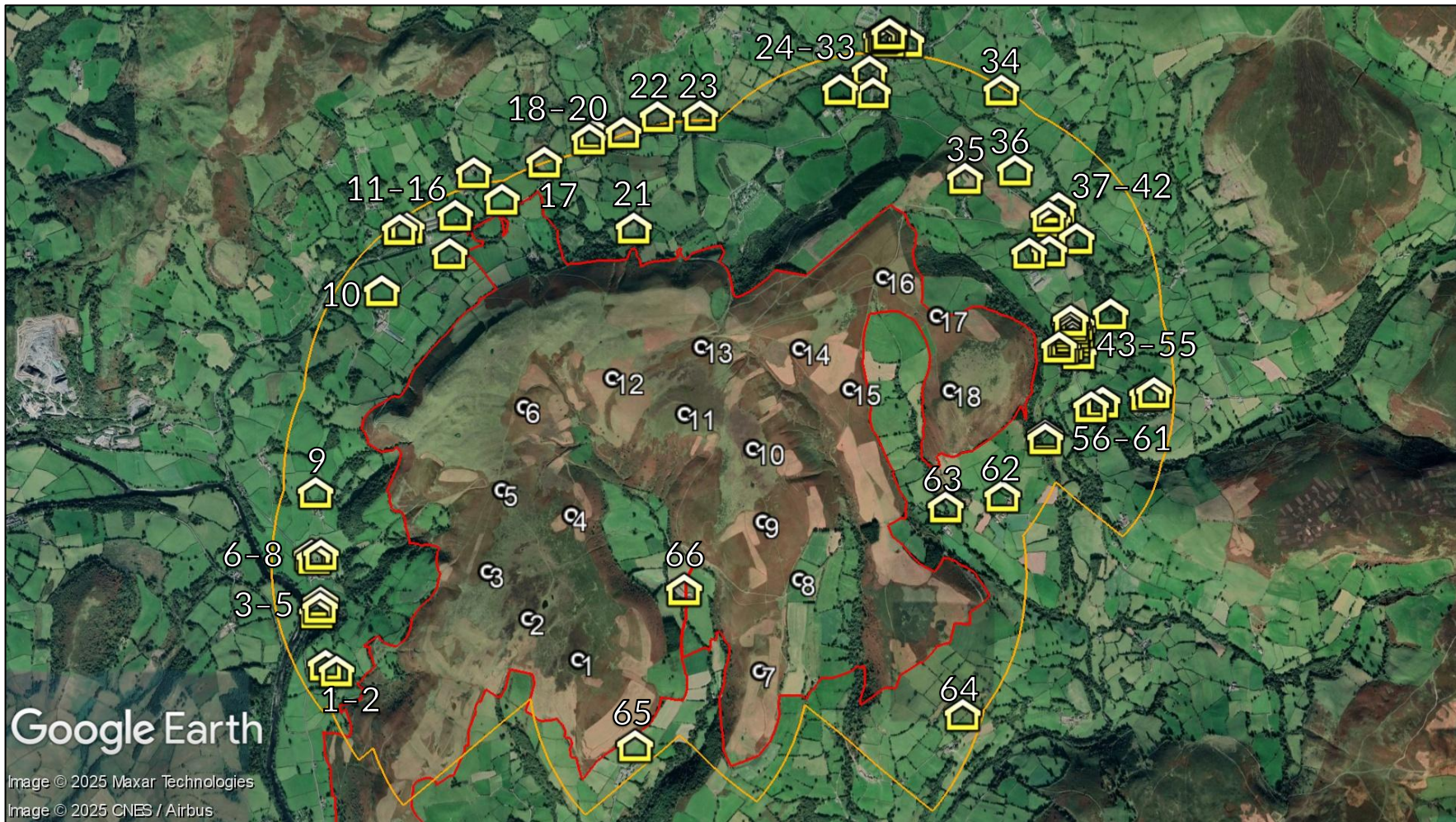


Figure 2 Assessed dwelling receptors with respect to the proposed wind turbines

5 TECHNICAL ASSESSMENT

5.1 Overview

The following sections present an overview of the methodology, assumptions and modelling results. Note that the time results are given as a decimal, where 0.5 hours = 30 minutes.

5.2 Methodology and Assumptions

The model considers terrain, the relative geometry of the turbine to the receptor, the dimensions of the wind turbine and the path of the Sun across the sky throughout a single year. All results are analysed with respect to reference limits of 30 minutes per day and/or 30 hours per year.

The main parameters for the assessment are presented in Table 3 below.

	Pager Power Assessment
Terrain Model	OSGB 50m DTM
Software	Windfarm R4
Turbines	18
Assessment area	N/A
Minimum sun height over horizon	2 degrees
Meteorological assessment	Assessment considered clear skies
Windows	1 window per dwelling 1 metre by 1 metre with a centre that is 1.5 metres above ground level Used orientation of windows based on the conservative assumption that windows face the nearest proposed wind turbine.
Eye height	1.5m above ground level

Table 3 Key parameters for the shadow flicker assessment

5.3 Shadow Flicker Results Summary

The result summary for the assessment for the 66 dwellings is presented in Table 4 below.

Number of receptors predicted to experience no shadow flicker	Number of receptors predicted to experience less than 30 minutes per day and less than 30 hours per year	Number of receptors predicted to experience more than 30 minutes per day and/or more than 30 hours per year	Maximum hours per day predicted at any receptor	Maximum hours per year predicted at any receptor
11	22	33	0.96 (Dwelling 35)	86.9 (Dwelling 42)

Table 4 Results summary – effects at receptors

5.4 Detailed Shadow Flicker Results

5.4.1 Shadow Flicker Effects Per Receptor

Table 5 below quantifies the shadow flicker effects per dwelling, where 0.5 (maximum) hours refers to the threshold limit of 30 minutes. Results are highlighted yellow where the shadow flicker goes above the threshold limits for a dwelling.

Dwelling	Days per year of shadow flicker	Maximum hours per day	Mean hours per day	Total hours per year
1	35	0.19	0.13	4.6
2	56	0.41	0.30	16.5
3	57	0.50	0.42	24.1
4	85	0.51	0.38	32.3
5	45	0.33	0.23	10.4
6	103	0.50	0.30	30.7
7	91	0.50	0.36	32.5
8	75	0.52	0.38	28.8
9	48	0.48	0.32	15.2
10	13	0.44	0.29	3.8
11	20	0.40	0.26	5.2

Dwelling	Days per year of shadow flicker	Maximum hours per day	Mean hours per day	Total hours per year
12	18	0.40	0.27	4.8
13	0	0.00	0.00	0.0
14	27	0.35	0.22	5.9
15	27	0.29	0.23	6.1
16	41	0.40	0.27	11.0
17	53	0.46	0.35	18.7
18	73	0.52	0.41	30.2
19	67	0.46	0.41	27.3
20	53	0.47	0.40	21.0
21	12	0.48	0.31	3.8
22	27	0.30	0.25	6.7
23	17	0.20	0.16	2.7
24	53	0.84	0.57	30.5
25	62	0.87	0.59	36.4
26	43	0.46	0.38	16.3
27	0	0.00	0.00	0.0
28	0	0.00	0.00	0.0
29	0	0.00	0.00	0.0
30	0	0.00	0.00	0.0
31	0	0.00	0.00	0.0
32	0	0.00	0.00	0.0
33	17	0.19	0.16	2.6

Dwelling	Days per year of shadow flicker	Maximum hours per day	Mean hours per day	Total hours per year
34	96	0.47	0.36	34.6
35	129	0.96	0.67	86.2
36	157	0.62	0.48	74.9
37	133	0.59	0.41	55.2
38	141	0.64	0.44	61.5
39	138	0.63	0.43	59.5
40	119	0.58	0.42	49.4
41	137	0.71	0.50	68.8
42	150	0.83	0.58	86.9
43	85	0.53	0.42	35.3
44	95	0.66	0.35	33.5
45	111	0.64	0.50	55.2
46	91	0.66	0.37	33.7
47	86	0.66	0.36	31.1
48	92	0.64	0.38	34.7
49	72	0.66	0.32	22.8
50	50	0.66	0.40	19.8
51	41	0.66	0.52	21.3
52	41	0.71	0.52	21.4
53	39	0.72	0.49	19.0
54	35	0.70	0.45	15.7
55	50	0.66	0.51	25.7

Dwelling	Days per year of shadow flicker	Maximum hours per day	Mean hours per day	Total hours per year
56	42	0.46	0.36	15.2
57	45	0.47	0.37	16.7
58	98	0.60	0.48	47.0
59	84	0.62	0.53	44.4
60	0	0.00	0.00	0.0
61	0	0.00	0.00	0.0
62	34	0.45	0.36	12.1
63	66	0.38	0.23	15.3
64	0	0.00	0.00	0.0
65	0	0.00	0.00	0.0
66	149	0.91	0.58	86.1

Table 5 Results – shadow flicker per receptor

5.5 Shadow Flicker Date Time Graph

Figure 3 below illustrates the combined shadow flicker times for all receptors from the proposed wind turbine (red hatched areas). The red lines illustrate the sunrise and sunset times. The shadow flicker is only possible within a few hours of sunrise/sunset when the sun is relatively low in the sky.

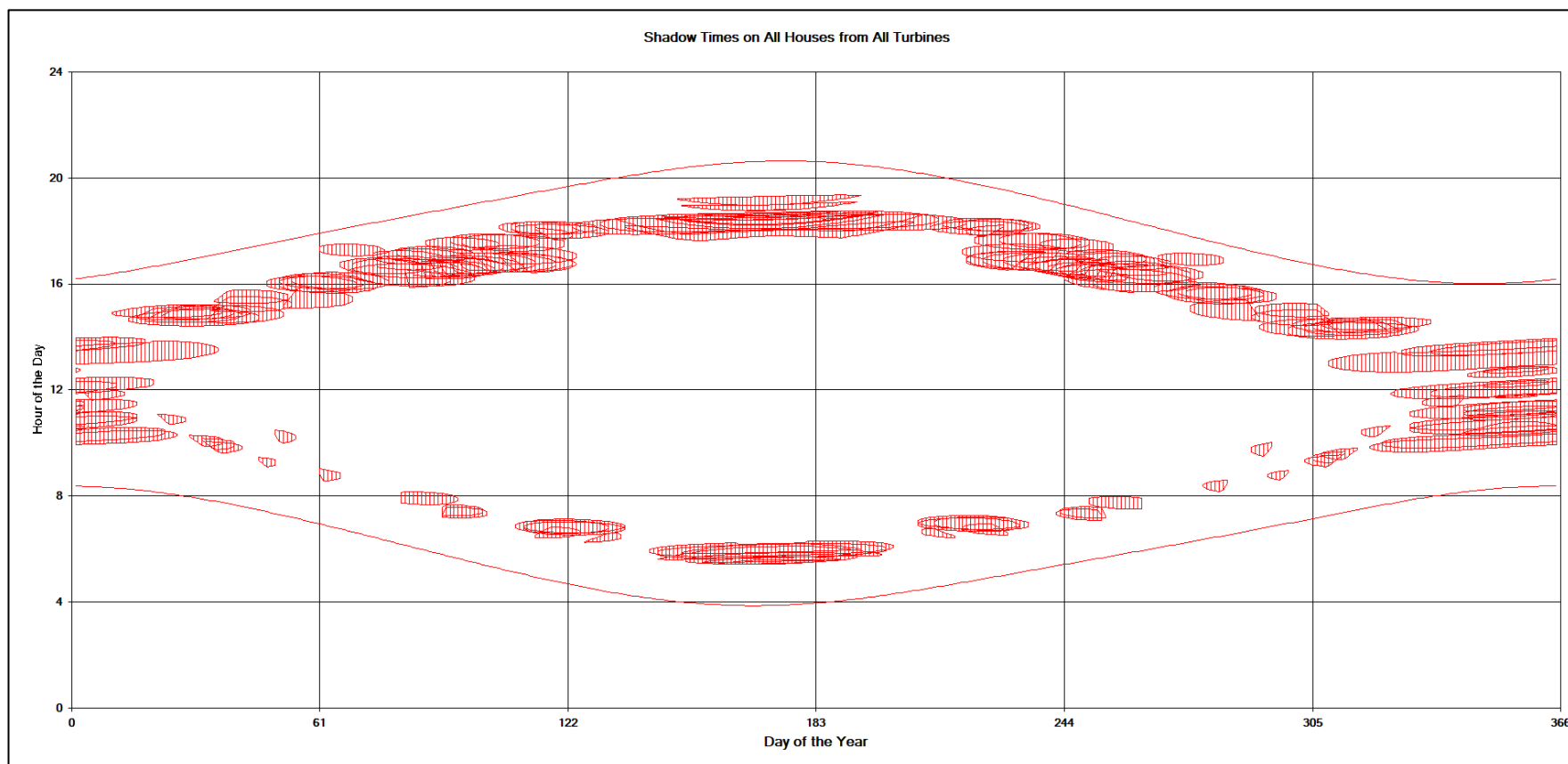


Figure 3 Shadow flicker times – all receptors

6 CONCLUSIONS

6.1 Results Overview

The overall conclusions are presented below:

- The modelling results indicate that 33 dwellings would receive shadow flicker effects for more than the reference threshold limit of 30 minutes per day and/or 30 hours per year;
- Mitigation in the form of a shutdown scheme is recommended unless it can be confirmed that views from windows towards the proposed turbines are obstructed by permanent screening, or are confirmed to not exist under baseline conditions.

6.2 Mitigation

The applicant is aware that shadow flicker (dependent on weather on certain days) may impact the assessed properties. The modelling results indicate that 33 dwellings would receive shadow flicker effects for more than the reference limits of 30 minutes per day and 30 hours per year. It is recommended that shadow flicker effects are reduced to less than these reference limits i.e. to less than 30 minutes per day and 30 hours per year. This could be achieved either by a shutdown scheme or a technical solution such as a light intensity detection system to determine if shadow flicker will occur during the dates/times it is geometrically possible alongside a shutdown scheme.

A shutdown scheme defines the times between which a turbine should be shut down to either reduce shadow flicker effects to below the recommended threshold limits, or to eliminate all shadow flicker effects completely throughout the year, assuming clear sunny skies. The term 'shutdown' means that the rotating blade is completely still and does not move for the period of time specified.

If considered appropriate by the planning authority, the applicant would be willing to accept a condition attached to any grant of permission to require investigation of any reports of shadow flicker as follows.

Within 28 days of a written request from the local planning authority, following a complaint alleging shadow flicker from an occupant of a dwelling which lawfully existed or had planning permission at the date of this permission, the wind farm operator shall commission and submit a report to the local planning authority assessing the reported shadow flicker event(s). Where the local planning authority, after having reviewed the report submitted to it, confirms in writing that the incident of shadow flicker is affecting the living conditions of the resident(s), the wind farm operator shall, within 21 days, submit for approval a scheme of mitigation to the local planning authority. The scheme shall be designed to mitigate the event of shadow flicker at that property and to prevent its future recurrence and shall specify timescales for implementation. The scheme shall be implemented as approved.

The dates and times when shadow flicker may occur at the dwelling in question are presented in Appendix C. This information should be used to guide any shutdown scheme to mitigate shadow flicker effects.

APPENDIX A – TECHNICAL INFORMATION

Receptor information

The table below shows the receptor information incorporated into the modelling.

Receptor	Easting	Northing	Latitude (°)	Longitude (°)	Distance to Nearest Turbine (m)	Bearing of Window (°)
1	307056	249908	52.13963	-3.35950	1455.94	53.07
2	306973	249949	52.13998	-3.36073	1500.34	56.22
3	306913	250326	52.14335	-3.36171	1384.63	70.71
4	306938	250362	52.14369	-3.36136	1349.72	71.84
5	306940	250403	52.14406	-3.36135	1335.59	73.48
6	306894	250715	52.14686	-3.36210	1327.98	87.08
7	306875	250741	52.14708	-3.36237	1345.22	88.22
8	306946	250743	52.14711	-3.36134	1274.58	88.19
9	306920	251194	52.15116	-3.36185	1363.38	107.53
10	307444	252634	52.16419	-3.35459	1261.76	123.90
11	307575	253071	52.16815	-3.35279	1463.62	141.25
12	307627	253081	52.16824	-3.35203	1439.44	143.11
13	307935	252890	52.16658	-3.34747	1109.59	149.94
14	307979	253166	52.16907	-3.34691	1338.25	157.49
15	308121	253465	52.17178	-3.34491	1579.32	166.46
16	308321	253270	52.17005	-3.34194	1350.69	172.76
17	308630	253531	52.17245	-3.33749	1491.58	160.82
18	308955	253690	52.17394	-3.33278	1575.81	149.76

Receptor	Easting	Northing	Latitude (°)	Longitude (°)	Distance to Nearest Turbine (m)	Bearing of Window (°)
19	308998	253725	52.17426	-3.33217	1585.50	151.72
20	309202	253734	52.17437	-3.32918	1507.22	158.73
21	309266	253041	52.16815	-3.32806	860.19	145.87
22	309448	253845	52.17541	-3.32561	1545.36	168.78
23	309755	253844	52.17545	-3.32113	1515.28	180.23
24	310764	254011	52.17711	-3.30643	1245.73	167.18
25	311000	253986	52.17693	-3.30297	1190.97	178.07
26	310979	254144	52.17835	-3.30332	1349.63	177.41
27	311066	254386	52.18054	-3.30210	1590.32	180.94
28	311097	254398	52.18065	-3.30166	1602.77	182.04
29	311114	254405	52.18071	-3.30141	1610.64	182.63
30	311126	254409	52.18076	-3.30123	1615.66	183.07
31	311138	254413	52.18079	-3.30106	1620.22	183.47
32	311116	254358	52.18029	-3.30137	1563.45	182.79
33	311249	254354	52.18027	-3.29942	1571.59	187.66
34	311927	253993	52.17714	-3.28941	1490.09	216.55
35	311644	253354	52.17135	-3.29339	821.93	227.25
36	312014	253417	52.17197	-3.28799	1077.38	213.67
37	312323	253144	52.16957	-3.28341	1099.61	235.45
38	312248	253079	52.16898	-3.28448	1001.50	236.07
39	312279	253043	52.16866	-3.28402	1008.21	238.74

Receptor	Easting	Northing	Latitude (°)	Longitude (°)	Distance to Nearest Turbine (m)	Bearing of Window (°)
40	312449	252918	52.16756	-3.28151	1105.76	248.90
41	312246	252829	52.16673	-3.28446	884.42	249.53
42	312099	252816	52.16659	-3.28659	743.79	246.57
43	312686	252374	52.16271	-3.27791	1250.20	252.10
44	312396	252331	52.16228	-3.28213	962.66	249.24
45	312437	252304	52.16204	-3.28152	992.19	251.56
46	312391	252302	52.16202	-3.28220	947.56	250.76
47	312406	252281	52.16183	-3.28197	955.54	252.28
48	312443	252252	52.16157	-3.28143	982.11	254.55
49	312408	252251	52.16156	-3.28193	948.72	254.02
50	312413	252220	52.16128	-3.28186	944.97	255.93
51	312429	252186	52.16098	-3.28161	953.11	258.11
52	312365	252162	52.16076	-3.28253	886.09	258.79
53	312332	252141	52.16056	-3.28301	849.68	259.79
54	312307	252141	52.16056	-3.28337	825.39	259.47
55	312452	252093	52.16014	-3.28125	961.06	263.87
56	312978	251803	52.15762	-3.27348	1493.87	277.20
57	312929	251788	52.15748	-3.27420	1446.83	278.03
58	312614	251742	52.15702	-3.27879	1145.03	282.52
59	312531	251710	52.15672	-3.28000	1072.12	285.15
60	312188	251512	52.15489	-3.28496	840.79	304.61

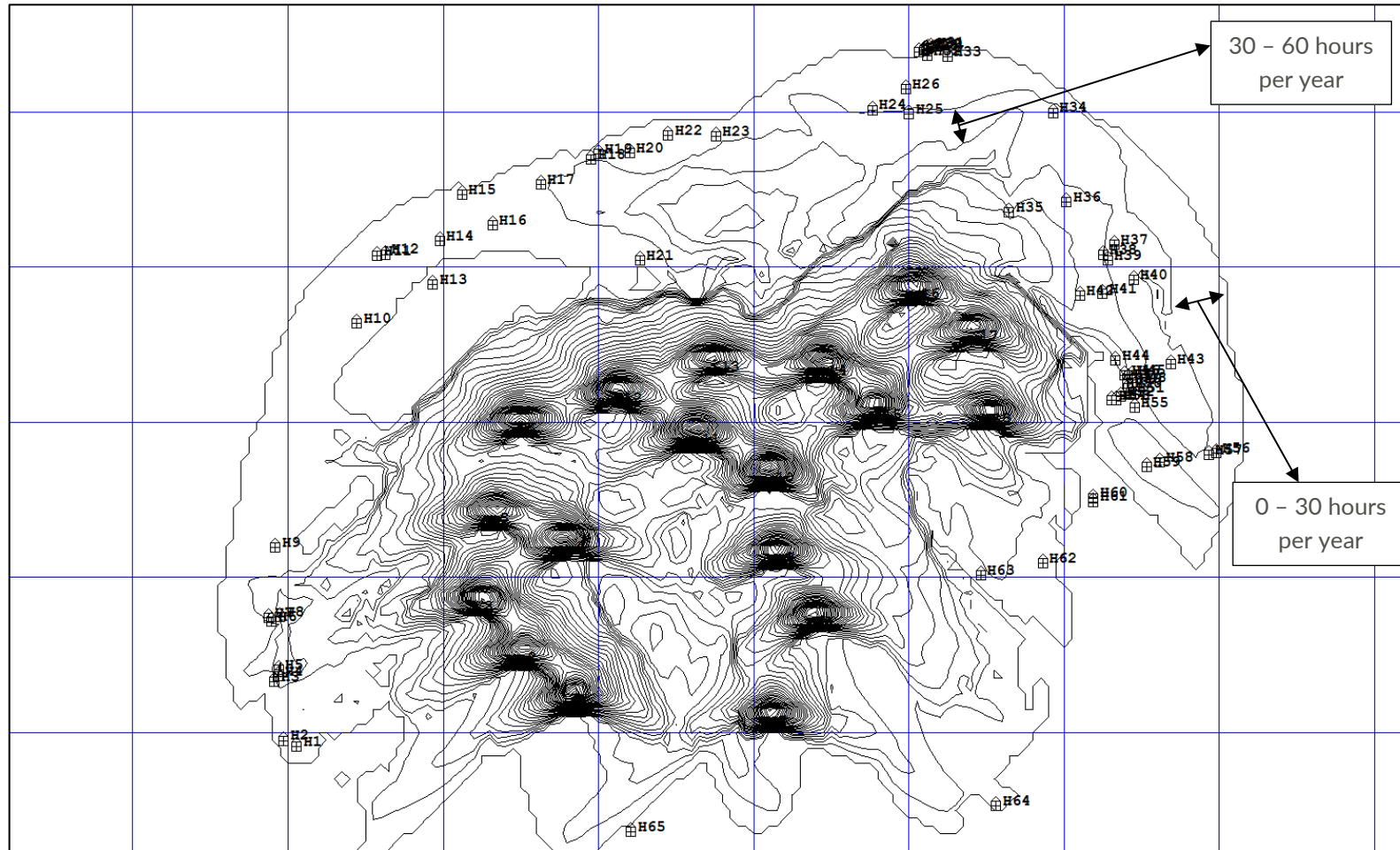
Receptor	Easting	Northing	Latitude (°)	Longitude (°)	Distance to Nearest Turbine (m)	Bearing of Window (°)
61	312188	251487	52.15466	-3.28495	855.73	306.02
62	311864	251088	52.15102	-3.28958	1509.81	254.22
63	311463	251013	52.15029	-3.29542	1104.55	252.27
64	311561	249527	52.13694	-3.29360	1529.92	289.60
65	309211	249360	52.13506	-3.32788	1135.47	53.19
66	309581	250461	52.14502	-3.32278	683.93	127.99

Assessed receptor details

APPENDIX B – SHADOW FLICKER CONTOUR MAP

Overview

The figure below shows the shadow flicker contours associated with the proposed wind turbines relative to the receptor locations. The contour spacing is 30 hours per year.



Contour Map

APPENDIX C – SHADOW FLICKER DATES AND TIMES

The dates and times (GMT) when shadow flicker may occur at dwellings 3 to 4, 6 to 8, 18, 24 to 25, 34 to 55 and 58 to 59 are presented in the table below and on the following pages. If the turbines are shutdown during all the times in the tables, then shadow flicker effects would be eliminated completely throughout the year for these 32 dwellings. This information should be used to guide a potential shutdown scheme, recommended as part of this report to mitigate shadow flicker effects. It is important to note that the duration should be reduced to less than 30 minutes per day and 30 hours per year.

Dwelling 3

Date	Start Time	End Time	Duration	% Cover
24-May	05:46:36	05:54:56	00:08:21	25.43
25-May	05:44:34	05:57:08	00:12:34	59.02
26-May	05:43:12	05:58:40	00:15:27	91.49
27-May	05:42:11	05:59:52	00:17:42	100
28-May	05:41:23	06:00:53	00:19:31	100
29-May	05:40:43	06:01:46	00:21:03	100
30-May	05:40:11	06:02:32	00:22:21	100
31-May	05:39:45	06:03:13	00:23:28	100
01-Jun	05:39:24	06:03:51	00:24:27	100
02-Jun	05:39:08	06:04:25	00:25:17	100
03-Jun	05:38:55	06:04:56	00:26:01	100
04-Jun	05:38:46	06:05:25	00:26:39	100
05-Jun	05:38:39	06:05:52	00:27:12	100
06-Jun	05:38:35	06:06:16	00:27:41	100
07-Jun	05:38:33	06:06:39	00:28:06	100
08-Jun	05:38:34	06:07:01	00:28:27	100

Date	Start Time	End Time	Duration	% Cover
09-Jun	05:38:36	06:07:22	00:28:46	100
10-Jun	05:38:39	06:07:41	00:29:02	100
11-Jun	05:38:44	06:08:00	00:29:16	100
12-Jun	05:38:51	06:08:18	00:29:27	100
13-Jun	05:38:58	06:08:35	00:29:37	100
14-Jun	05:39:07	06:08:52	00:29:45	100
15-Jun	05:39:16	06:09:08	00:29:52	100
16-Jun	05:39:26	06:09:23	00:29:57	100
17-Jun	05:39:37	06:09:38	00:30:01	100
18-Jun	05:39:48	06:09:53	00:30:04	100
19-Jun	05:40:00	06:10:07	00:30:07	100
20-Jun	05:40:13	06:10:21	00:30:08	100
21-Jun	05:40:26	06:10:34	00:30:08	100
22-Jun	05:40:39	06:10:47	00:30:08	100
23-Jun	05:40:53	06:10:59	00:30:06	100
24-Jun	05:41:07	06:11:11	00:30:04	100
25-Jun	05:41:22	06:11:22	00:30:00	100
26-Jun	05:41:37	06:11:33	00:29:56	100
27-Jun	05:41:53	06:11:43	00:29:50	100
28-Jun	05:42:09	06:11:52	00:29:43	100
29-Jun	05:42:25	06:11:59	00:29:35	100
30-Jun	05:42:42	06:12:07	00:29:24	100

Date	Start Time	End Time	Duration	% Cover
01-Jul	05:43:00	06:12:13	00:29:12	100
02-Jul	05:43:19	06:12:17	00:28:58	100
03-Jul	05:43:39	06:12:20	00:28:42	100
04-Jul	05:43:59	06:12:22	00:28:23	100
05-Jul	05:44:21	06:12:22	00:28:00	100
06-Jul	05:44:45	06:12:19	00:27:35	100
07-Jul	05:45:09	06:12:14	00:27:05	100
08-Jul	05:45:36	06:12:07	00:26:31	100
09-Jul	05:46:05	06:11:57	00:25:52	100
10-Jul	05:46:37	06:11:44	00:25:07	100
11-Jul	05:47:11	06:11:26	00:24:15	100
12-Jul	05:47:50	06:11:05	00:23:15	100
13-Jul	05:48:32	06:10:39	00:22:06	100
14-Jul	05:49:20	06:10:06	00:20:46	100
15-Jul	05:50:15	06:09:27	00:19:11	100
16-Jul	05:51:18	06:08:37	00:17:19	100
17-Jul	05:52:34	06:07:34	00:14:59	85.5
18-Jul	05:54:11	06:06:09	00:11:58	53.16
19-Jul	05:56:34	06:03:57	00:07:23	19.73

Shadow Flicker Dates and Times for Dwelling 3 – Turbine 3

Dwelling 4

Date	Start Time	End Time	Duration	% Cover
24-Apr	06:25:37	06:30:25	00:04:48	100
25-Apr	06:25:21	06:36:03	00:10:42	100
26-Apr	06:25:14	06:41:21	00:16:07	100
27-Apr	06:25:16	06:46:19	00:21:03	100
28-Apr	06:25:26	06:50:19	00:24:52	100
29-Apr	06:25:46	06:49:50	00:24:04	100
30-Apr	06:26:16	06:49:05	00:22:49	100
01-May	06:26:58	06:48:10	00:21:12	100
02-May	06:27:53	06:47:02	00:19:09	100
03-May	06:29:07	06:45:37	00:16:30	100
04-May	06:30:50	06:43:45	00:12:55	74.13
05-May	06:33:40	06:40:46	00:07:06	20.97
07-Aug	06:42:30	06:50:12	00:07:42	24.65
08-Aug	06:39:37	06:52:47	00:13:11	76.96
09-Aug	06:37:43	06:54:22	00:16:39	100
10-Aug	06:36:16	06:55:30	00:19:14	100
11-Aug	06:35:05	06:56:20	00:21:15	100
12-Aug	06:34:07	06:56:57	00:22:50	100
13-Aug	06:33:19	06:57:23	00:24:04	100
14-Aug	06:32:40	06:57:32	00:24:52	100
15-Aug	06:32:08	06:53:25	00:21:16	100
16-Aug	06:31:45	06:48:08	00:16:23	100

Date	Start Time	End Time	Duration	% Cover
17-Aug	06:31:29	06:42:32	00:11:03	100
18-Aug	06:31:20	06:36:34	00:05:14	100

Shadow Flicker Dates and Times for Dwelling 4 – Turbine 2

Date	Start Time	End Time	Duration	% Cover
22-May	05:52:30	05:58:53	00:06:23	14.53
23-May	05:49:53	06:01:37	00:11:44	50.35
24-May	05:48:17	06:03:21	00:15:04	85.05
25-May	05:47:06	06:04:41	00:17:35	100
26-May	05:46:11	06:05:47	00:19:35	100
27-May	05:45:26	06:06:43	00:21:17	100
28-May	05:44:50	06:07:32	00:22:42	100
29-May	05:44:20	06:08:15	00:23:55	100
30-May	05:43:55	06:08:54	00:24:59	100
31-May	05:43:36	06:09:30	00:25:53	100
01-Jun	05:43:21	06:10:02	00:26:41	100
02-Jun	05:43:09	06:10:31	00:27:22	100
03-Jun	05:43:01	06:10:59	00:27:58	100
04-Jun	05:42:55	06:11:24	00:28:29	100
05-Jun	05:42:52	06:11:47	00:28:56	100
06-Jun	05:42:50	06:12:09	00:29:19	100
07-Jun	05:42:51	06:12:30	00:29:39	100
08-Jun	05:42:54	06:12:50	00:29:56	100
09-Jun	05:42:58	06:13:08	00:30:10	100

Date	Start Time	End Time	Duration	% Cover
10-Jun	05:43:04	06:13:26	00:30:23	100
11-Jun	05:43:10	06:13:43	00:30:33	100
12-Jun	05:43:18	06:13:59	00:30:42	100
13-Jun	05:43:27	06:10:19	00:26:53	100
14-Jun	05:43:36	06:10:35	00:26:59	100
15-Jun	05:43:46	06:10:50	00:27:03	100
16-Jun	05:43:57	06:11:05	00:27:07	100
17-Jun	05:44:09	06:11:19	00:27:10	100
18-Jun	05:44:21	06:11:33	00:27:13	100
19-Jun	05:44:33	06:11:47	00:27:14	100
20-Jun	05:44:46	06:12:01	00:27:15	100
21-Jun	05:44:59	06:12:14	00:27:15	100
22-Jun	05:45:12	06:12:27	00:27:15	100
23-Jun	05:45:26	06:12:39	00:27:14	100
24-Jun	05:45:39	06:12:52	00:27:12	100
25-Jun	05:45:54	06:13:03	00:27:10	100
26-Jun	05:46:08	06:13:15	00:27:06	100
27-Jun	05:46:23	06:13:25	00:27:02	100
28-Jun	05:46:38	06:13:35	00:26:57	100
29-Jun	05:46:53	06:13:44	00:26:51	100
30-Jun	05:47:09	06:17:49	00:30:40	100
01-Jul	05:47:26	06:17:56	00:30:31	100

Date	Start Time	End Time	Duration	% Cover
02-Jul	05:47:43	06:18:02	00:30:20	100
03-Jul	05:48:00	06:18:07	00:30:07	100
04-Jul	05:48:19	06:18:11	00:29:52	100
05-Jul	05:48:39	06:18:13	00:29:34	100
06-Jul	05:48:59	06:18:13	00:29:14	100
07-Jul	05:49:21	06:18:11	00:28:50	100
08-Jul	05:49:45	06:18:07	00:28:22	100
09-Jul	05:50:10	06:18:00	00:27:50	100
10-Jul	05:50:37	06:17:51	00:27:13	100
11-Jul	05:51:07	06:17:38	00:26:31	100
12-Jul	05:51:40	06:17:22	00:25:42	100
13-Jul	05:52:16	06:17:02	00:24:46	100
14-Jul	05:52:56	06:16:37	00:23:41	100
15-Jul	05:53:41	06:16:07	00:22:26	100
16-Jul	05:54:31	06:15:30	00:20:59	100
17-Jul	05:55:30	06:14:45	00:19:15	100
18-Jul	05:56:38	06:13:48	00:17:10	100
19-Jul	05:58:01	06:12:36	00:14:34	78.9
20-Jul	05:59:51	06:10:55	00:11:04	44.38
21-Jul	06:02:58	06:07:57	00:04:59	8.78

Shadow Flicker Dates and Times for Dwelling 4 - Turbine 3

Dwelling 6

Date	Start Time	End Time	Duration	% Cover
01-Apr	07:12:29	07:17:42	00:05:12	100
02-Apr	07:11:36	07:35:03	00:23:27	100
03-Apr	07:10:56	07:35:10	00:24:14	100
04-Apr	07:10:28	07:35:03	00:24:34	100
05-Apr	07:10:13	07:34:44	00:24:31	100
06-Apr	07:10:09	07:34:14	00:24:05	100
07-Apr	07:10:17	07:33:31	00:23:14	100
08-Apr	07:10:39	07:32:36	00:21:57	100
09-Apr	07:11:17	07:31:25	00:20:08	100
10-Apr	07:12:16	07:29:55	00:17:38	100
11-Apr	07:13:46	07:27:53	00:14:07	100
12-Apr	07:16:25	07:24:45	00:08:20	32.56
30-Aug	07:17:07	07:23:52	00:06:46	20.99
31-Aug	07:13:30	07:26:49	00:13:18	87.85
01-Sep	07:11:19	07:28:22	00:17:03	100
02-Sep	07:09:40	07:29:21	00:19:41	100
03-Sep	07:08:23	07:29:59	00:21:36	100
04-Sep	07:07:21	07:30:20	00:22:59	100
05-Sep	07:06:33	07:30:28	00:23:55	100
06-Sep	07:05:56	07:30:23	00:24:27	100
07-Sep	07:05:31	07:30:07	00:24:37	100
08-Sep	07:05:16	07:29:40	00:24:24	100

Date	Start Time	End Time	Duration	% Cover
09-Sep	07:05:13	07:29:01	00:23:48	100
10-Sep	07:05:23	07:17:32	00:12:10	100

Shadow Flicker Dates and Times for Dwelling 6 – Turbine 2

Date	Start Time	End Time	Duration	% Cover
21-Apr	06:46:12	06:50:37	00:04:25	7.58
22-Apr	06:41:37	06:54:46	00:13:10	70.52
23-Apr	06:39:10	06:56:49	00:17:39	100
24-Apr	06:37:21	06:58:13	00:20:52	100
25-Apr	06:35:56	06:59:15	00:23:19	100
26-Apr	06:34:47	07:00:03	00:25:17	100
27-Apr	06:33:51	07:00:40	00:26:49	100
28-Apr	06:33:05	07:01:07	00:28:01	100
29-Apr	06:32:29	07:01:25	00:28:56	100
30-Apr	06:32:02	07:01:37	00:29:36	100
01-May	06:31:41	07:01:42	00:30:01	100
02-May	06:31:28	07:01:42	00:30:13	100
03-May	06:31:22	07:01:36	00:30:14	100
04-May	06:31:22	07:01:24	00:30:02	100
05-May	06:31:29	07:01:08	00:29:39	100
06-May	06:31:42	07:00:46	00:29:04	100
07-May	06:32:02	07:00:19	00:28:17	100
08-May	06:32:28	06:59:46	00:27:18	100
09-May	06:33:02	06:59:08	00:26:06	100

Date	Start Time	End Time	Duration	% Cover
10-May	06:33:43	06:58:23	00:24:40	100
11-May	06:34:33	06:57:31	00:22:57	100
12-May	06:35:34	06:56:29	00:20:55	100
13-May	06:36:48	06:55:15	00:18:27	100
14-May	06:38:22	06:53:44	00:15:22	89.01
15-May	06:40:29	06:51:40	00:11:11	45.12
16-May	06:44:55	06:47:27	00:02:33	2.24
27-Jul	06:53:36	06:59:05	00:05:30	10.3
28-Jul	06:50:15	07:02:20	00:12:05	52.82
29-Jul	06:48:16	07:04:13	00:15:58	96.31
30-Jul	06:46:44	07:05:38	00:18:53	100
31-Jul	06:45:29	07:06:45	00:21:16	100
01-Aug	06:44:26	07:07:40	00:23:14	100
02-Aug	06:43:31	07:08:24	00:24:53	100
03-Aug	06:42:44	07:09:01	00:26:17	100
04-Aug	06:42:03	07:09:30	00:27:26	100
05-Aug	06:41:28	07:09:52	00:28:23	100
06-Aug	06:40:59	07:10:07	00:29:08	100
07-Aug	06:40:34	07:10:16	00:29:42	100
08-Aug	06:40:15	07:10:19	00:30:04	100
09-Aug	06:40:01	07:10:16	00:30:15	100
10-Aug	06:39:52	07:10:06	00:30:14	100

Date	Start Time	End Time	Duration	% Cover
11-Aug	06:39:49	07:09:50	00:30:01	100
12-Aug	06:39:52	07:09:28	00:29:36	100
13-Aug	06:40:01	07:08:58	00:28:57	100
14-Aug	06:40:17	07:08:19	00:28:03	100
15-Aug	06:40:41	07:07:33	00:26:52	100
16-Aug	06:41:14	07:06:35	00:25:21	100
17-Aug	06:41:59	07:05:26	00:23:26	100
18-Aug	06:42:59	07:04:02	00:21:02	100
19-Aug	06:44:20	07:02:16	00:17:56	100
20-Aug	06:46:15	06:59:54	00:13:39	75.53
21-Aug	06:49:51	06:55:50	00:05:59	13.87

Shadow Flicker Dates and Times for Dwelling 6 – Turbine 3

Date	Start Time	End Time	Duration	% Cover
08-Jun	05:27:02	05:27:34	00:00:32	55.15
09-Jun	05:26:29	05:28:36	00:02:07	70.86
10-Jun	05:26:04	05:29:33	00:03:29	85.32
11-Jun	05:25:46	05:30:27	00:04:40	98.52
12-Jun	05:25:33	05:31:16	00:05:43	100
13-Jun	05:25:24	05:32:02	00:06:37	100
14-Jun	05:25:19	05:32:43	00:07:24	100
15-Jun	05:25:17	05:33:21	00:08:04	100
16-Jun	05:25:18	05:33:55	00:08:36	100
17-Jun	05:25:22	05:34:25	00:09:03	100

Date	Start Time	End Time	Duration	% Cover
18-Jun	05:25:28	05:34:51	00:09:23	100
19-Jun	05:25:36	05:35:13	00:09:37	100
20-Jun	05:25:46	05:35:31	00:09:45	100
21-Jun	05:25:59	05:35:46	00:09:47	100
22-Jun	05:26:13	05:35:57	00:09:44	100
23-Jun	05:26:29	05:36:03	00:09:34	100
24-Jun	05:26:48	05:36:06	00:09:19	100
25-Jun	05:27:08	05:36:05	00:08:57	100
26-Jun	05:27:31	05:36:00	00:08:29	100
27-Jun	05:27:56	05:35:51	00:07:55	100
28-Jun	05:28:24	05:35:37	00:07:13	100
29-Jun	05:28:55	05:35:20	00:06:25	100
30-Jun	05:29:29	05:34:58	00:05:29	100
01-Jul	05:30:07	05:34:31	00:04:24	95.49
02-Jul	05:30:50	05:34:00	00:03:10	82.04
03-Jul	05:31:39	05:33:24	00:01:46	67.35
04-Jul	05:32:37	05:32:44	00:00:08	51.42

Shadow Flicker Dates and Times for Dwelling 6 – Turbine 5

Dwelling 7

Date	Start Time	End Time	Duration	% Cover
19-Apr	06:47:32	06:56:04	00:08:32	29.32
20-Apr	06:44:08	06:59:01	00:14:53	93.47
21-Apr	06:41:57	07:00:46	00:18:49	100

Date	Start Time	End Time	Duration	% Cover
22-Apr	06:40:16	07:01:59	00:21:44	100
23-Apr	06:38:56	07:02:55	00:23:59	100
24-Apr	06:37:52	07:03:37	00:25:46	100
25-Apr	06:36:59	07:04:08	00:27:08	100
26-Apr	06:36:18	07:04:29	00:28:11	100
27-Apr	06:35:45	07:04:43	00:28:57	100
28-Apr	06:35:21	07:04:49	00:29:28	100
29-Apr	06:35:05	07:04:48	00:29:44	100
30-Apr	06:34:55	07:04:42	00:29:47	100
01-May	06:34:53	07:04:30	00:29:36	100
02-May	06:34:58	07:04:12	00:29:13	100
03-May	06:35:10	07:03:48	00:28:37	100
04-May	06:35:29	07:03:18	00:27:48	100
05-May	06:35:56	07:02:42	00:26:46	100
06-May	06:36:31	07:01:59	00:25:28	100
07-May	06:37:15	07:01:08	00:23:53	100
08-May	06:38:09	07:00:08	00:21:59	100
09-May	06:39:17	06:58:56	00:19:40	100
10-May	06:40:42	06:57:28	00:16:46	100
11-May	06:42:36	06:55:33	00:12:57	63.1
12-May	06:45:42	06:52:28	00:06:47	16.3
31-Jul	06:55:07	07:03:14	00:08:08	23.63

Date	Start Time	End Time	Duration	% Cover
01-Aug	06:52:17	07:05:54	00:13:37	69.92
02-Aug	06:50:23	07:07:37	00:17:14	100
03-Aug	06:48:54	07:08:54	00:19:59	100
04-Aug	06:47:41	07:09:55	00:22:14	100
05-Aug	06:46:39	07:10:44	00:24:05	100
06-Aug	06:45:46	07:11:22	00:25:37	100
07-Aug	06:45:00	07:11:52	00:26:52	100
08-Aug	06:44:21	07:12:14	00:27:53	100
09-Aug	06:43:49	07:12:29	00:28:41	100
10-Aug	06:43:22	07:12:37	00:29:15	100
11-Aug	06:43:01	07:12:39	00:29:38	100
12-Aug	06:42:46	07:12:33	00:29:47	100
13-Aug	06:42:36	07:12:21	00:29:45	100
14-Aug	06:42:33	07:12:02	00:29:29	100
15-Aug	06:42:36	07:11:35	00:28:59	100
16-Aug	06:42:47	07:11:01	00:28:14	100
17-Aug	06:43:05	07:10:17	00:27:12	100
18-Aug	06:43:32	07:09:24	00:25:51	100
19-Aug	06:44:11	07:08:19	00:24:08	100
20-Aug	06:45:03	07:06:59	00:21:57	100
21-Aug	06:46:14	07:05:23	00:19:09	100
22-Aug	06:47:52	07:03:16	00:15:24	99.81

Date	Start Time	End Time	Duration	% Cover
23-Aug	06:50:31	07:00:07	00:09:36	36.98

Shadow Flicker Dates and Times for Dwelling 7 - Turbine 3

Date	Start Time	End Time	Duration	% Cover
31-May	05:32:01	05:37:49	00:05:48	16.83
01-Jun	05:30:18	05:39:20	00:09:02	42.33
02-Jun	05:29:12	05:40:46	00:11:34	66.63
03-Jun	05:28:24	05:42:08	00:13:43	89.72
04-Jun	05:27:48	05:43:25	00:15:37	100
05-Jun	05:27:19	05:44:38	00:17:19	100
06-Jun	05:26:56	05:45:24	00:18:28	100
07-Jun	05:26:39	05:46:02	00:19:23	100
08-Jun	05:26:26	05:46:36	00:20:10	100
09-Jun	05:26:16	05:47:07	00:20:51	100
10-Jun	05:26:10	05:47:36	00:21:26	100
11-Jun	05:26:07	05:48:03	00:21:56	100
12-Jun	05:26:06	05:48:28	00:22:22	100
13-Jun	05:26:07	05:48:51	00:22:44	100
14-Jun	05:26:10	05:49:13	00:23:03	100
15-Jun	05:26:15	05:49:33	00:23:19	100
16-Jun	05:26:21	05:49:52	00:23:31	100
17-Jun	05:26:29	05:50:10	00:23:41	100
18-Jun	05:26:38	05:50:27	00:23:49	100
19-Jun	05:26:48	05:50:42	00:23:54	100

Date	Start Time	End Time	Duration	% Cover
20-Jun	05:26:59	05:50:57	00:23:57	100
21-Jun	05:27:12	05:51:11	00:23:58	100
22-Jun	05:27:26	05:51:23	00:23:57	100
23-Jun	05:27:41	05:51:34	00:23:53	100
24-Jun	05:27:57	05:51:45	00:23:47	100
25-Jun	05:28:14	05:51:54	00:23:39	100
26-Jun	05:28:33	05:52:01	00:23:29	100
27-Jun	05:28:52	05:52:07	00:23:15	100
28-Jun	05:29:13	05:52:12	00:22:59	100
29-Jun	05:29:35	05:52:14	00:22:39	100
30-Jun	05:29:59	05:52:15	00:22:16	100
01-Jul	05:30:24	05:52:14	00:21:50	100
02-Jul	05:30:52	05:52:10	00:21:18	100
03-Jul	05:31:21	05:52:04	00:20:42	100
04-Jul	05:31:54	05:51:54	00:20:00	100
05-Jul	05:32:29	05:51:41	00:19:11	100
06-Jul	05:33:09	05:51:23	00:18:15	100
07-Jul	05:33:53	05:50:51	00:16:59	100
08-Jul	05:34:43	05:49:58	00:15:14	100
09-Jul	05:35:40	05:48:59	00:13:18	84.87
10-Jul	05:36:49	05:47:55	00:11:06	61.7
11-Jul	05:38:17	05:46:45	00:08:29	37.36

Date	Start Time	End Time	Duration	% Cover
12-Jul	05:40:30	05:45:31	00:05:01	11.84

Shadow Flicker Dates and Times for Dwelling 7 - Turbine 5

Dwelling 8

Date	Start Time	End Time	Duration	% Cover
01-Apr	07:16:42	07:34:01	00:17:19	100
02-Apr	07:16:03	07:40:55	00:24:52	100
03-Apr	07:15:36	07:40:46	00:25:10	100
04-Apr	07:15:21	07:40:27	00:25:05	100
05-Apr	07:15:18	07:39:56	00:24:38	100
06-Apr	07:15:26	07:39:13	00:23:47	100
07-Apr	07:15:48	07:38:17	00:22:29	100
08-Apr	07:16:26	07:37:06	00:20:40	100
09-Apr	07:17:24	07:35:36	00:18:12	100
10-Apr	07:18:52	07:33:36	00:14:44	100
11-Apr	07:21:22	07:30:35	00:09:12	39.18
31-Aug	07:21:27	07:29:11	00:07:44	27.03
01-Sep	07:18:02	07:31:56	00:13:55	94.32
02-Sep	07:15:51	07:33:27	00:17:36	100
03-Sep	07:14:13	07:34:26	00:20:12	100
04-Sep	07:12:56	07:35:03	00:22:07	100
05-Sep	07:11:54	07:35:24	00:23:31	100
06-Sep	07:11:05	07:35:32	00:24:28	100
07-Sep	07:10:27	07:35:28	00:25:01	100

Date	Start Time	End Time	Duration	% Cover
08-Sep	07:10:01	07:35:13	00:25:12	100
09-Sep	07:09:45	07:34:46	00:25:01	100
10-Sep	07:09:41	07:33:31	00:23:50	100
11-Sep	07:09:49	07:13:22	00:03:33	100

Shadow Flicker Dates and Times for Dwelling 8 – Turbine 2

Date	Start Time	End Time	Duration	% Cover
21-Apr	06:47:57	06:59:40	00:11:43	53.39
22-Apr	06:45:09	07:02:03	00:16:55	100
23-Apr	06:43:09	07:03:38	00:20:29	100
24-Apr	06:41:35	07:04:47	00:23:12	100
25-Apr	06:40:19	07:05:41	00:25:22	100
26-Apr	06:39:17	07:06:22	00:27:04	100
27-Apr	06:38:27	07:06:53	00:28:26	100
28-Apr	06:37:46	07:07:15	00:29:29	100
29-Apr	06:37:14	07:07:30	00:30:16	100
30-Apr	06:36:49	07:07:39	00:30:49	100
01-May	06:36:32	07:07:41	00:31:09	100
02-May	06:36:22	07:07:38	00:31:16	100
03-May	06:36:18	07:07:30	00:31:12	100
04-May	06:36:20	07:07:16	00:30:56	100
05-May	06:36:29	07:06:58	00:30:29	100
06-May	06:36:44	07:06:34	00:29:50	100
07-May	06:37:05	07:06:05	00:29:00	100

Date	Start Time	End Time	Duration	% Cover
08-May	06:37:33	07:05:31	00:27:58	100
09-May	06:38:08	07:04:51	00:26:43	100
10-May	06:38:51	07:04:05	00:25:14	100
11-May	06:39:43	07:03:11	00:23:28	100
12-May	06:40:46	07:02:08	00:21:22	100
13-May	06:42:01	07:00:52	00:18:51	100
14-May	06:43:36	06:59:19	00:15:43	89.91
15-May	06:45:45	06:57:14	00:11:30	46.02
16-May	06:50:02	06:53:08	00:03:06	3.14
27-Jul	06:58:49	07:04:43	00:05:54	11.52
28-Jul	06:55:30	07:07:55	00:12:26	54.04
29-Jul	06:53:29	07:09:50	00:16:21	97.54
30-Jul	06:51:56	07:11:16	00:19:20	100
31-Jul	06:50:40	07:12:25	00:21:44	100
01-Aug	06:49:35	07:13:21	00:23:45	100
02-Aug	06:48:39	07:14:07	00:25:28	100
03-Aug	06:47:50	07:14:45	00:26:54	100
04-Aug	06:47:08	07:15:15	00:28:07	100
05-Aug	06:46:31	07:15:38	00:29:07	100
06-Aug	06:46:00	07:15:56	00:29:55	100
07-Aug	06:45:34	07:16:06	00:30:32	100
08-Aug	06:45:13	07:16:11	00:30:58	100

Date	Start Time	End Time	Duration	% Cover
09-Aug	06:44:57	07:16:10	00:31:13	100
10-Aug	06:44:46	07:16:03	00:31:17	100
11-Aug	06:44:40	07:15:49	00:31:09	100
12-Aug	06:44:40	07:15:29	00:30:49	100
13-Aug	06:44:46	07:15:02	00:30:16	100
14-Aug	06:44:58	07:14:28	00:29:30	100
15-Aug	06:45:18	07:13:45	00:28:27	100
16-Aug	06:45:46	07:12:53	00:27:07	100
17-Aug	06:46:24	07:11:50	00:25:27	100
18-Aug	06:47:14	07:10:35	00:23:21	100
19-Aug	06:48:21	07:09:03	00:20:42	100
20-Aug	06:49:52	07:07:07	00:17:15	100
21-Aug	06:52:06	07:04:25	00:12:20	58.91

Shadow Flicker Dates and Times for Dwelling 8 – Turbine 3

Dwelling 18

Date	Start Time	End Time	Duration	% Cover
16-Dec	11:41:56	11:45:23	00:03:27	4.74
17-Dec	11:41:27	11:46:51	00:05:23	11.66
18-Dec	11:41:23	11:47:54	00:06:31	17.09
19-Dec	11:41:32	11:48:45	00:07:13	21.03
20-Dec	11:41:49	11:49:26	00:07:37	23.48
21-Dec	11:42:15	11:50:01	00:07:46	24.43
22-Dec	11:42:47	11:50:28	00:07:41	23.89

Date	Start Time	End Time	Duration	% Cover
23-Dec	11:43:27	11:50:48	00:07:21	21.84
24-Dec	11:44:15	11:50:59	00:06:44	18.3
25-Dec	11:45:15	11:50:59	00:05:45	13.26
26-Dec	11:46:34	11:50:40	00:04:06	6.73

Shadow Flicker Dates and Times for Dwelling 18 – Turbine 12

Date	Start Time	End Time	Duration	% Cover
01-Jan	09:56:19	10:21:52	00:25:33	100
02-Jan	09:56:38	10:22:29	00:25:51	100
03-Jan	09:56:57	10:23:05	00:26:08	100
04-Jan	09:57:16	10:23:41	00:26:25	100
05-Jan	09:57:35	10:24:16	00:26:41	100
06-Jan	09:57:54	10:24:49	00:26:56	100
07-Jan	09:58:14	10:25:22	00:27:08	100
08-Jan	09:58:34	10:25:52	00:27:18	100
09-Jan	09:58:55	10:26:21	00:27:25	100
10-Jan	09:59:18	10:26:47	00:27:29	100
11-Jan	09:59:41	10:27:11	00:27:30	100
12-Jan	10:00:06	10:27:32	00:27:26	100
13-Jan	10:00:33	10:27:50	00:27:17	100
14-Jan	10:01:02	10:28:05	00:27:03	100
15-Jan	10:01:34	10:28:17	00:26:43	100
16-Jan	10:02:08	10:28:24	00:26:16	100
17-Jan	10:02:46	10:28:27	00:25:41	100

Date	Start Time	End Time	Duration	% Cover
18-Jan	10:03:27	10:28:24	00:24:57	100
19-Jan	10:04:13	10:28:16	00:24:03	100
20-Jan	10:05:05	10:28:01	00:22:56	100
21-Jan	10:06:03	10:27:37	00:21:34	100
22-Jan	10:07:10	10:27:04	00:19:54	100
23-Jan	10:08:30	10:26:18	00:17:48	100
24-Jan	10:10:07	10:25:13	00:15:06	100
25-Jan	10:12:16	10:23:36	00:11:21	56.83
26-Jan	10:15:54	10:20:26	00:04:32	8.73
15-Nov	09:47:59	09:52:30	00:04:30	8.59
16-Nov	09:44:46	09:56:04	00:11:18	56.04
17-Nov	09:43:03	09:58:05	00:15:02	100
18-Nov	09:41:53	09:59:37	00:17:44	100
19-Nov	09:41:03	10:00:52	00:19:50	100
20-Nov	09:40:25	10:01:56	00:21:30	100
21-Nov	09:39:59	10:02:51	00:22:52	100
22-Nov	09:39:40	10:03:40	00:23:59	100
23-Nov	09:39:29	10:04:23	00:24:54	100
24-Nov	09:39:24	10:05:02	00:25:38	100
25-Nov	09:39:24	10:05:37	00:26:14	100
26-Nov	09:39:28	10:06:10	00:26:41	100
27-Nov	09:39:37	10:06:39	00:27:02	100

Date	Start Time	End Time	Duration	% Cover
28-Nov	09:39:50	10:07:06	00:27:16	100
29-Nov	09:40:06	10:07:32	00:27:26	100
30-Nov	09:40:25	10:07:55	00:27:30	100
01-Dec	09:40:47	10:08:17	00:27:30	100
02-Dec	09:41:12	10:08:38	00:27:26	100
03-Dec	09:41:38	10:08:58	00:27:19	100
04-Dec	09:42:07	10:09:17	00:27:10	100
05-Dec	09:42:38	10:09:36	00:26:58	100
06-Dec	09:43:10	10:09:54	00:26:44	100
07-Dec	09:43:43	10:10:11	00:26:28	100
08-Dec	09:44:18	10:10:29	00:26:11	100
09-Dec	09:44:53	10:10:47	00:25:54	100
10-Dec	09:45:29	10:11:06	00:25:36	100
11-Dec	09:46:06	10:11:25	00:25:19	100
12-Dec	09:46:43	10:11:44	00:25:01	100
13-Dec	09:47:19	10:12:04	00:24:45	100
14-Dec	09:47:56	10:12:25	00:24:29	100
15-Dec	09:48:32	10:12:47	00:24:15	100
16-Dec	09:49:08	10:13:10	00:24:02	100
17-Dec	09:49:43	10:13:33	00:23:51	100
18-Dec	09:50:17	10:13:59	00:23:42	100
19-Dec	09:50:50	10:14:25	00:23:35	100

Date	Start Time	End Time	Duration	% Cover
20-Dec	09:51:22	10:14:53	00:23:31	100
21-Dec	09:51:53	10:15:22	00:23:29	100
22-Dec	09:52:22	10:15:52	00:23:30	100
23-Dec	09:52:51	10:16:24	00:23:33	100
24-Dec	09:53:18	10:16:56	00:23:39	100
25-Dec	09:53:43	10:17:30	00:23:47	100
26-Dec	09:54:08	10:18:05	00:23:57	100
27-Dec	09:54:31	10:18:40	00:24:09	100
28-Dec	09:54:54	10:19:16	00:24:23	100
29-Dec	09:55:15	10:19:53	00:24:38	100
30-Dec	09:55:36	10:20:30	00:24:54	100
31-Dec	09:55:55	10:21:07	00:25:12	100

Shadow Flicker Dates and Times for Dwelling 18 – Turbine 13

Dwelling 24

Date	Start Time	End Time	Duration	% Cover
01-Jan	11:07:10	11:38:08	00:30:58	100
02-Jan	11:07:50	11:38:24	00:30:34	100
03-Jan	11:08:32	11:38:38	00:30:06	100
04-Jan	11:09:16	11:38:50	00:29:33	100
05-Jan	11:10:02	11:38:58	00:28:56	100
06-Jan	11:10:50	11:39:04	00:28:14	100
07-Jan	11:11:41	11:39:05	00:27:25	100
08-Jan	11:12:35	11:39:03	00:26:29	100

Date	Start Time	End Time	Duration	% Cover
09-Jan	11:13:32	11:38:56	00:25:24	100
10-Jan	11:14:35	11:38:44	00:24:09	100
11-Jan	11:15:42	11:38:25	00:22:42	100
12-Jan	11:16:58	11:37:58	00:20:59	100
13-Jan	11:18:22	11:37:20	00:18:58	100
14-Jan	11:19:58	11:36:28	00:16:30	96.27
15-Jan	11:21:56	11:35:13	00:13:18	61.18
16-Jan	11:24:38	11:33:12	00:08:34	24.82
25-Nov	11:01:49	11:10:31	00:08:42	25.55
26-Nov	10:59:48	11:13:09	00:13:21	61.55
27-Nov	10:58:32	11:15:04	00:16:31	96.31
28-Nov	10:57:39	11:16:37	00:18:58	100
29-Nov	10:56:58	11:17:58	00:20:59	100
30-Nov	10:56:27	11:19:09	00:22:42	100
01-Dec	10:56:06	11:20:14	00:24:08	100
02-Dec	10:55:50	11:21:13	00:25:23	100
03-Dec	10:55:41	11:22:08	00:26:27	100
04-Dec	10:55:37	11:22:59	00:27:23	100
05-Dec	10:55:36	11:23:48	00:28:12	100
06-Dec	10:55:40	11:24:34	00:28:55	100
07-Dec	10:55:46	11:25:18	00:29:32	100
08-Dec	10:55:56	11:26:00	00:30:05	100

Date	Start Time	End Time	Duration	% Cover
09-Dec	10:56:08	11:26:41	00:30:33	100
10-Dec	10:56:23	11:27:20	00:30:57	100
11-Dec	10:56:39	11:27:58	00:31:19	100
12-Dec	10:56:58	11:28:35	00:31:37	100
13-Dec	10:57:18	11:29:11	00:31:52	100
14-Dec	10:57:40	11:29:46	00:32:06	100
15-Dec	10:58:03	11:30:20	00:32:17	100
16-Dec	10:58:28	11:30:53	00:32:26	100
17-Dec	10:58:53	11:31:26	00:32:33	100
18-Dec	10:59:20	11:31:58	00:32:38	100
19-Dec	10:59:48	11:32:30	00:32:42	100
20-Dec	11:00:16	11:33:01	00:32:45	100
21-Dec	11:00:46	11:33:31	00:32:46	100
22-Dec	11:01:16	11:34:01	00:32:45	100
23-Dec	11:01:47	11:34:30	00:32:43	100
24-Dec	11:02:19	11:34:58	00:32:40	100
25-Dec	11:02:51	11:35:26	00:32:35	100
26-Dec	11:03:24	11:35:52	00:32:28	100
27-Dec	11:03:58	11:36:17	00:32:19	100
28-Dec	11:04:33	11:36:42	00:32:09	100
29-Dec	11:05:08	11:37:05	00:31:56	100
30-Dec	11:05:45	11:37:26	00:31:42	100

Date	Start Time	End Time	Duration	% Cover
31-Dec	11:06:22	11:37:46	00:31:24	100

Shadow Flicker Dates and Times for Dwelling 24 - Turbine 16

Date	Start Time	End Time	Duration	% Cover
01-Jan	10:27:54	10:38:52	00:10:57	51.24
02-Jan	10:29:21	10:38:21	00:08:59	34.09
03-Jan	10:31:16	10:37:23	00:06:06	15.48
08-Dec	10:18:53	10:24:32	00:05:39	13.2
09-Dec	10:17:47	10:26:30	00:08:43	31.87
10-Dec	10:17:13	10:27:58	00:10:45	49.12
11-Dec	10:16:54	10:29:11	00:12:16	64.93
12-Dec	10:16:46	10:30:15	00:13:29	79.29
13-Dec	10:16:44	10:31:12	00:14:29	92.2
14-Dec	10:16:47	10:32:04	00:15:17	100
15-Dec	10:16:56	10:32:53	00:15:57	100
16-Dec	10:17:09	10:33:37	00:16:29	100
17-Dec	10:17:25	10:34:19	00:16:54	100
18-Dec	10:17:45	10:34:58	00:17:13	100
19-Dec	10:18:08	10:35:34	00:17:26	100
20-Dec	10:18:33	10:36:08	00:17:35	100
21-Dec	10:19:01	10:36:40	00:17:38	100
22-Dec	10:19:32	10:37:09	00:17:37	100
23-Dec	10:20:05	10:37:36	00:17:30	100
24-Dec	10:20:41	10:37:59	00:17:19	100

Date	Start Time	End Time	Duration	% Cover
25-Dec	10:21:20	10:38:21	00:17:02	100
26-Dec	10:22:01	10:38:40	00:16:39	100
27-Dec	10:22:45	10:38:55	00:16:09	100
28-Dec	10:23:33	10:39:06	00:15:33	100
29-Dec	10:24:26	10:39:13	00:14:48	96.71
30-Dec	10:25:23	10:39:15	00:13:52	84.31
31-Dec	10:26:26	10:39:10	00:12:45	70.44

Shadow Flicker Dates and Times for Dwelling 24 – Turbine 17

Dwelling 25

Date	Start Time	End Time	Duration	% Cover
01-Jan	11:52:17	12:26:52	00:34:35	100
02-Jan	11:52:52	12:27:14	00:34:22	100
03-Jan	11:53:28	12:27:34	00:34:06	100
04-Jan	11:54:04	12:27:52	00:33:48	100
05-Jan	11:54:42	12:28:09	00:33:27	100
06-Jan	11:55:21	12:28:23	00:33:02	100
07-Jan	11:56:01	12:28:34	00:32:33	100
08-Jan	11:56:43	12:28:43	00:31:59	100
09-Jan	11:57:28	12:28:49	00:31:22	100
10-Jan	11:58:14	12:28:52	00:30:37	100
11-Jan	11:59:04	12:28:50	00:29:46	100
12-Jan	11:59:56	12:28:44	00:28:48	100
13-Jan	12:00:53	12:28:33	00:27:40	100

Date	Start Time	End Time	Duration	% Cover
14-Jan	12:01:54	12:28:17	00:26:22	100
15-Jan	12:03:01	12:27:53	00:24:52	100
16-Jan	12:04:16	12:27:21	00:23:05	100
17-Jan	12:05:38	12:26:38	00:21:00	100
18-Jan	12:07:13	12:25:41	00:18:28	100
19-Jan	12:09:09	12:24:22	00:15:13	79.09
20-Jan	12:11:43	12:22:22	00:10:39	37.76
20-Nov	11:51:04	11:52:17	00:01:13	0.48
21-Nov	11:46:17	11:57:34	00:11:17	42.38
22-Nov	11:44:23	11:59:59	00:15:37	83.13
23-Nov	11:43:06	12:01:50	00:18:45	100
24-Nov	11:42:09	12:03:22	00:21:13	100
25-Nov	11:41:26	12:04:41	00:23:15	100
26-Nov	11:40:51	12:05:51	00:24:59	100
27-Nov	11:40:26	12:06:55	00:26:29	100
28-Nov	11:40:07	12:07:53	00:27:46	100
29-Nov	11:39:54	12:08:46	00:28:52	100
30-Nov	11:39:47	12:09:36	00:29:50	100
01-Dec	11:39:43	12:10:23	00:30:40	100
02-Dec	11:39:44	12:11:08	00:31:24	100
03-Dec	11:39:48	12:11:50	00:32:02	100
04-Dec	11:39:55	12:12:30	00:32:34	100

Date	Start Time	End Time	Duration	% Cover
05-Dec	11:40:06	12:13:09	00:33:03	100
06-Dec	11:40:18	12:13:46	00:33:28	100
07-Dec	11:40:33	12:14:22	00:33:49	100
08-Dec	11:40:50	12:14:57	00:34:07	100
09-Dec	11:41:09	12:15:31	00:34:22	100
10-Dec	11:41:29	12:16:05	00:34:35	100
11-Dec	11:41:51	12:16:37	00:34:46	100
12-Dec	11:42:14	12:17:10	00:34:55	100
13-Dec	11:42:39	12:17:42	00:35:03	100
14-Dec	11:43:04	12:18:13	00:35:09	100
15-Dec	11:43:30	12:18:45	00:35:14	100
16-Dec	11:43:57	12:19:16	00:35:18	100
17-Dec	11:44:25	12:19:47	00:35:21	100
18-Dec	11:44:53	12:20:17	00:35:24	100
19-Dec	11:45:22	12:20:48	00:35:25	100
20-Dec	11:45:52	12:21:18	00:35:26	100
21-Dec	11:46:21	12:21:48	00:35:27	100
22-Dec	11:46:51	12:22:18	00:35:26	100
23-Dec	11:47:22	12:22:47	00:35:26	100
24-Dec	11:47:52	12:23:17	00:35:24	100
25-Dec	11:48:23	12:23:45	00:35:22	100
26-Dec	11:48:54	12:24:14	00:35:19	100

Date	Start Time	End Time	Duration	% Cover
27-Dec	11:49:26	12:24:41	00:35:15	100
28-Dec	11:49:58	12:25:08	00:35:10	100
29-Dec	11:50:30	12:25:34	00:35:05	100
30-Dec	11:51:03	12:25:59	00:34:57	100
31-Dec	11:51:36	12:26:24	00:34:48	100

Shadow Flicker Dates and Times for Dwelling 25 - Turbine 16

Date	Start Time	End Time	Duration	% Cover
01-Jan	11:04:07	11:12:02	00:07:55	24.71
02-Jan	11:06:21	11:10:45	00:04:24	7.53
09-Dec	10:54:51	10:58:51	00:04:00	6.22
10-Dec	10:53:26	11:01:09	00:07:43	23.42
11-Dec	10:52:47	11:02:42	00:09:55	39.19
12-Dec	10:52:26	11:03:58	00:11:32	53.51
13-Dec	10:52:17	11:05:04	00:12:47	66.38
14-Dec	10:52:16	11:06:02	00:13:47	77.78
15-Dec	10:52:20	11:06:55	00:14:34	87.71
16-Dec	10:52:30	11:07:43	00:15:13	96.17
17-Dec	10:52:45	11:08:27	00:15:42	100
18-Dec	10:53:03	11:09:08	00:16:05	100
19-Dec	10:53:24	11:09:46	00:16:21	100
20-Dec	10:53:49	11:10:20	00:16:31	100
21-Dec	10:54:17	11:10:52	00:16:35	100
22-Dec	10:54:48	11:11:21	00:16:33	100

Date	Start Time	End Time	Duration	% Cover
23-Dec	10:55:22	11:11:47	00:16:25	100
24-Dec	10:55:59	11:12:10	00:16:11	100
25-Dec	10:56:39	11:12:30	00:15:51	100
26-Dec	10:57:22	11:12:46	00:15:23	98.68
27-Dec	10:58:10	11:12:57	00:14:48	90.7
28-Dec	10:59:01	11:13:05	00:14:03	81.23
29-Dec	10:59:58	11:13:06	00:13:08	70.28
30-Dec	11:01:02	11:13:00	00:11:58	57.85
31-Dec	11:02:15	11:12:44	00:10:29	43.95

Shadow Flicker Dates and Times for Dwelling 25 - Turbine 17

Dwelling 34

Date	Start Time	End Time	Duration	% Cover
10-Jan	14:51:26	14:55:01	00:03:35	5
11-Jan	14:48:57	14:58:18	00:09:22	34.99
12-Jan	14:47:40	15:00:23	00:12:44	66.31
13-Jan	14:46:45	15:02:06	00:15:21	98.94
14-Jan	14:46:02	15:03:33	00:17:31	100
15-Jan	14:45:28	15:04:51	00:19:23	100
16-Jan	14:45:01	15:06:01	00:21:00	100
17-Jan	14:44:38	15:07:04	00:22:26	100
18-Jan	14:44:20	15:08:01	00:23:41	100
19-Jan	14:44:06	15:08:52	00:24:46	100
20-Jan	14:43:56	15:09:39	00:25:42	100

Date	Start Time	End Time	Duration	% Cover
21-Jan	14:43:50	15:10:19	00:26:30	100
22-Jan	14:43:47	15:10:55	00:27:08	100
23-Jan	14:43:47	15:11:26	00:27:38	100
24-Jan	14:43:52	15:11:51	00:27:59	100
25-Jan	14:43:59	15:12:11	00:28:11	100
26-Jan	14:44:11	15:12:25	00:28:14	100
27-Jan	14:44:28	15:12:33	00:28:06	100
28-Jan	14:44:48	15:12:36	00:27:47	100
29-Jan	14:45:14	15:12:31	00:27:17	100
30-Jan	14:45:45	15:12:19	00:26:34	100
31-Jan	14:46:22	15:11:59	00:25:37	100
01-Feb	14:47:06	15:11:31	00:24:24	100
02-Feb	14:47:59	15:10:51	00:22:52	100
03-Feb	14:49:03	15:09:59	00:20:56	100
04-Feb	14:50:23	15:08:49	00:18:26	100
05-Feb	14:52:07	15:07:13	00:15:06	100
06-Feb	14:54:40	15:04:46	00:10:06	43.94
03-Nov	14:26:15	14:32:14	00:05:59	14.99
04-Nov	14:22:48	14:35:44	00:12:55	73.16
05-Nov	14:20:52	14:37:44	00:16:52	100
06-Nov	14:19:30	14:39:12	00:19:43	100
07-Nov	14:18:28	14:40:22	00:21:54	100

Date	Start Time	End Time	Duration	% Cover
08-Nov	14:17:40	14:41:18	00:23:37	100
09-Nov	14:17:05	14:42:04	00:24:59	100
10-Nov	14:16:38	14:42:42	00:26:04	100
11-Nov	14:16:20	14:43:14	00:26:55	100
12-Nov	14:16:09	14:43:40	00:27:32	100
13-Nov	14:16:04	14:44:01	00:27:57	100
14-Nov	14:16:06	14:44:17	00:28:11	100
15-Nov	14:16:15	14:44:29	00:28:14	100
16-Nov	14:16:28	14:44:37	00:28:08	100
17-Nov	14:16:47	14:44:41	00:27:53	100
18-Nov	14:17:12	14:44:41	00:27:29	100
19-Nov	14:17:41	14:44:38	00:26:56	100
20-Nov	14:18:16	14:44:31	00:26:15	100
21-Nov	14:18:55	14:44:21	00:25:25	100
22-Nov	14:19:40	14:44:07	00:24:27	100
23-Nov	14:20:30	14:43:49	00:23:19	100
24-Nov	14:21:26	14:43:27	00:22:01	100
25-Nov	14:22:27	14:43:00	00:20:33	100
26-Nov	14:23:36	14:42:28	00:18:52	100
27-Nov	14:24:53	14:41:49	00:16:56	100
28-Nov	14:26:20	14:40:59	00:14:40	89.37
29-Nov	14:28:02	14:39:56	00:11:54	57.39

Date	Start Time	End Time	Duration	% Cover
30-Nov	14:30:14	14:38:27	00:08:13	26.7

Shadow Flicker Dates and Times for Dwelling 34 - Turbine 16

Date	Start Time	End Time	Duration	% Cover
01-Jan	13:29:51	13:51:52	00:22:01	100
02-Jan	13:30:38	13:52:00	00:21:22	100
03-Jan	13:31:28	13:52:05	00:20:37	100
04-Jan	13:32:22	13:52:05	00:19:43	100
05-Jan	13:33:20	13:52:00	00:18:41	100
06-Jan	13:34:23	13:51:49	00:17:27	100
07-Jan	13:35:33	13:51:30	00:15:58	100
08-Jan	13:36:53	13:51:01	00:14:08	85.84
09-Jan	13:38:27	13:50:15	00:11:48	58.59
10-Jan	13:40:29	13:49:01	00:08:32	29.98
11-Jan	13:45:02	13:45:14	00:00:12	0.02
30-Nov	13:24:01	13:27:45	00:03:44	5.61
01-Dec	13:21:38	13:30:52	00:09:14	35.08
02-Dec	13:20:31	13:32:46	00:12:15	63.23
03-Dec	13:19:48	13:34:16	00:14:28	90.04
04-Dec	13:19:20	13:35:33	00:16:13	100
05-Dec	13:19:02	13:36:41	00:17:39	100
06-Dec	13:18:52	13:37:43	00:18:51	100
07-Dec	13:18:47	13:38:39	00:19:52	100
08-Dec	13:18:48	13:39:31	00:20:44	100

Date	Start Time	End Time	Duration	% Cover
09-Dec	13:18:52	13:40:20	00:21:28	100
10-Dec	13:19:00	13:41:06	00:22:06	100
11-Dec	13:19:12	13:41:50	00:22:38	100
12-Dec	13:19:26	13:42:32	00:23:06	100
13-Dec	13:19:43	13:43:12	00:23:30	100
14-Dec	13:20:01	13:43:51	00:23:50	100
15-Dec	13:20:22	13:44:28	00:24:06	100
16-Dec	13:20:44	13:45:04	00:24:20	100
17-Dec	13:21:08	13:45:39	00:24:31	100
18-Dec	13:21:34	13:46:13	00:24:39	100
19-Dec	13:22:00	13:46:45	00:24:45	100
20-Dec	13:22:28	13:47:17	00:24:49	100
21-Dec	13:22:58	13:47:47	00:24:50	100
22-Dec	13:23:28	13:48:17	00:24:49	100
23-Dec	13:23:59	13:48:45	00:24:46	100
24-Dec	13:24:32	13:49:12	00:24:40	100
25-Dec	13:25:06	13:49:38	00:24:32	100
26-Dec	13:25:41	13:50:02	00:24:21	100
27-Dec	13:26:17	13:50:25	00:24:08	100
28-Dec	13:26:55	13:50:46	00:23:52	100
29-Dec	13:27:33	13:51:06	00:23:32	100
30-Dec	13:28:14	13:51:23	00:23:09	100

Date	Start Time	End Time	Duration	% Cover
31-Dec	13:28:56	13:51:37	00:22:42	100

Shadow Flicker Dates and Times for Dwelling 34 - Turbine 17

Dwelling 35

Date	Start Time	End Time	Duration	% Cover
21-Feb	15:06:15	15:10:37	00:04:22	100
22-Feb	15:05:42	15:21:40	00:15:58	100
23-Feb	15:05:29	15:33:40	00:28:11	100
24-Feb	15:05:21	15:46:43	00:41:22	100
25-Feb	15:05:19	15:51:17	00:45:58	100
26-Feb	15:05:22	15:50:54	00:45:32	100
27-Feb	15:05:31	15:50:24	00:44:53	100
28-Feb	15:05:46	15:49:47	00:44:01	100
01-Mar	15:06:08	15:49:03	00:42:55	100
02-Mar	15:06:35	15:48:10	00:41:35	100
03-Mar	15:07:10	15:47:08	00:39:58	100
04-Mar	15:07:54	15:45:57	00:38:03	100
05-Mar	15:08:48	15:44:35	00:35:47	100
06-Mar	15:09:56	15:42:59	00:33:03	100
07-Mar	15:11:20	15:41:06	00:29:46	100
08-Mar	15:13:07	15:38:49	00:25:42	100
09-Mar	15:15:31	15:35:54	00:20:23	100
10-Mar	15:19:17	15:31:36	00:12:19	40.46
02-Oct	14:58:28	15:10:42	00:12:14	39.53

Date	Start Time	End Time	Duration	% Cover
03-Oct	14:54:09	15:14:23	00:20:15	100
04-Oct	14:51:12	15:16:43	00:25:31	100
05-Oct	14:48:53	15:18:27	00:29:34	100
06-Oct	14:46:56	15:19:48	00:32:51	100
07-Oct	14:45:18	15:20:52	00:35:34	100
08-Oct	14:43:52	15:21:43	00:37:51	100
09-Oct	14:42:38	15:22:25	00:39:46	100
10-Oct	14:41:34	15:22:58	00:41:24	100
11-Oct	14:40:39	15:23:24	00:42:45	100
12-Oct	14:39:50	15:23:42	00:43:52	100
13-Oct	14:39:08	15:23:54	00:44:46	100
14-Oct	14:38:34	15:24:00	00:45:27	100
15-Oct	14:38:06	15:24:01	00:45:55	100
16-Oct	14:37:45	15:22:04	00:44:19	100
17-Oct	14:37:30	15:08:43	00:31:13	100
18-Oct	14:37:21	14:56:25	00:19:04	100
19-Oct	14:37:35	14:45:04	00:07:30	100

Shadow Flicker Dates and Times for Dwelling 35 – Turbine 16

Date	Start Time	End Time	Duration	% Cover
01-Jan	12:58:13	13:39:32	00:41:20	100
02-Jan	12:58:34	13:40:07	00:41:33	100
03-Jan	12:58:55	13:40:42	00:41:47	100
04-Jan	12:59:16	13:41:16	00:42:00	100

Date	Start Time	End Time	Duration	% Cover
05-Jan	12:59:36	13:41:50	00:42:13	100
06-Jan	12:59:56	13:42:22	00:42:26	100
07-Jan	13:00:17	13:42:54	00:42:37	100
08-Jan	13:00:37	13:43:25	00:42:48	100
09-Jan	13:00:57	13:43:54	00:42:57	100
10-Jan	13:01:18	13:44:22	00:43:04	100
11-Jan	13:01:39	13:44:48	00:43:09	100
12-Jan	13:02:01	13:45:13	00:43:12	100
13-Jan	13:02:23	13:45:36	00:43:13	100
14-Jan	13:02:46	13:45:56	00:43:10	100
15-Jan	13:03:10	13:46:14	00:43:04	100
16-Jan	13:03:35	13:46:30	00:42:55	100
17-Jan	13:04:02	13:46:43	00:42:42	100
18-Jan	13:04:29	13:46:53	00:42:24	100
19-Jan	13:04:59	13:47:00	00:42:01	100
20-Jan	13:05:30	13:51:01	00:45:31	100
21-Jan	13:06:03	13:51:01	00:44:58	100
22-Jan	13:06:39	13:50:58	00:44:19	100
23-Jan	13:07:18	13:50:51	00:43:33	100
24-Jan	13:07:59	13:50:39	00:42:40	100
25-Jan	13:08:44	13:50:23	00:41:39	100
26-Jan	13:09:32	13:50:00	00:40:29	100

Date	Start Time	End Time	Duration	% Cover
27-Jan	13:10:24	13:49:32	00:39:09	100
28-Jan	13:11:21	13:48:57	00:37:37	100
29-Jan	13:12:23	13:48:15	00:35:52	100
30-Jan	13:13:33	13:47:23	00:33:50	100
31-Jan	13:14:52	13:46:21	00:31:29	100
01-Feb	13:16:23	13:45:06	00:28:43	100
02-Feb	13:18:09	13:43:33	00:25:24	100
03-Feb	13:20:19	13:41:35	00:21:16	100
04-Feb	13:23:12	13:38:52	00:15:39	64.01
05-Feb	13:28:39	13:33:33	00:04:54	6.12
05-Nov	12:55:35	13:05:56	00:10:21	27.4
06-Nov	12:51:51	13:09:45	00:17:54	84.01
07-Nov	12:49:28	13:12:16	00:22:49	100
08-Nov	12:47:39	13:14:14	00:26:35	100
09-Nov	12:46:12	13:15:52	00:29:40	100
10-Nov	12:44:59	13:17:16	00:32:16	100
11-Nov	12:44:00	13:18:29	00:34:29	100
12-Nov	12:43:10	13:19:35	00:36:24	100
13-Nov	12:42:29	13:20:33	00:38:04	100
14-Nov	12:41:55	13:21:27	00:39:32	100
15-Nov	12:41:27	13:22:15	00:40:48	100
16-Nov	12:41:04	13:22:59	00:41:55	100

Date	Start Time	End Time	Duration	% Cover
17-Nov	12:40:46	13:23:40	00:42:54	100
18-Nov	12:40:33	13:24:18	00:43:45	100
19-Nov	12:40:24	13:24:53	00:44:29	100
20-Nov	12:40:19	13:25:25	00:45:06	100
21-Nov	12:40:19	13:25:56	00:45:37	100
22-Nov	12:40:21	13:22:28	00:42:07	100
23-Nov	12:40:27	13:22:55	00:42:28	100
24-Nov	12:40:36	13:23:21	00:42:45	100
25-Nov	12:40:48	13:23:45	00:42:57	100
26-Nov	12:41:03	13:24:08	00:43:06	100
27-Nov	12:41:19	13:24:31	00:43:11	100
28-Nov	12:41:39	13:24:52	00:43:13	100
29-Nov	12:41:59	13:25:12	00:43:12	100
30-Nov	12:42:23	13:25:32	00:43:09	100
01-Dec	12:42:48	13:25:51	00:43:03	100
02-Dec	12:43:14	13:26:10	00:42:56	100
03-Dec	12:43:42	13:26:29	00:42:47	100
04-Dec	12:44:12	13:26:48	00:42:36	100
05-Dec	12:44:42	13:27:06	00:42:25	100
06-Dec	12:45:13	13:27:25	00:42:12	100
07-Dec	12:45:45	13:27:44	00:41:59	100
08-Dec	12:46:18	13:28:04	00:41:46	100

Date	Start Time	End Time	Duration	% Cover
09-Dec	12:46:51	13:28:23	00:41:32	100
10-Dec	12:47:25	13:28:44	00:41:19	100
11-Dec	12:47:59	13:29:04	00:41:05	100
12-Dec	12:48:33	13:29:26	00:40:53	100
13-Dec	12:49:07	13:29:48	00:40:41	100
14-Dec	12:49:41	13:30:11	00:40:30	100
15-Dec	12:50:15	13:30:35	00:40:20	100
16-Dec	12:50:48	13:30:59	00:40:12	100
17-Dec	12:51:21	13:31:26	00:40:04	100
18-Dec	12:51:54	13:31:52	00:39:59	100
19-Dec	12:52:25	13:32:20	00:39:54	100
20-Dec	12:52:57	13:32:48	00:39:52	100
21-Dec	12:53:27	13:33:18	00:39:51	100
22-Dec	12:53:57	13:33:48	00:39:51	100
23-Dec	12:54:25	13:34:19	00:39:54	100
24-Dec	12:54:53	13:34:51	00:39:58	100
25-Dec	12:55:20	13:35:24	00:40:03	100
26-Dec	12:55:47	13:35:57	00:40:10	100
27-Dec	12:56:12	13:36:31	00:40:19	100
28-Dec	12:56:37	13:37:05	00:40:28	100
29-Dec	12:57:00	13:37:40	00:40:39	100
30-Dec	12:57:23	13:38:14	00:40:51	100

Date	Start Time	End Time	Duration	% Cover
31-Dec	12:57:46	13:38:49	00:41:04	100

Shadow Flicker Dates and Times for Dwelling 35 - Turbine 17

Date	Start Time	End Time	Duration	% Cover
01-Jan	12:40:42	12:49:10	00:08:28	25.7
02-Jan	12:42:58	12:47:50	00:04:52	8.42
09-Dec	12:31:06	12:36:17	00:05:11	9.52
10-Dec	12:29:50	12:38:27	00:08:37	26.62
11-Dec	12:29:12	12:40:00	00:10:48	42.29
12-Dec	12:28:51	12:41:17	00:12:26	56.51
13-Dec	12:28:41	12:42:24	00:13:42	69.28
14-Dec	12:28:39	12:43:23	00:14:43	80.58
15-Dec	12:28:44	12:44:16	00:15:32	90.41
16-Dec	12:28:53	12:45:05	00:16:12	98.77
17-Dec	12:29:07	12:45:50	00:16:42	100
18-Dec	12:29:25	12:46:31	00:17:06	100
19-Dec	12:29:47	12:47:09	00:17:22	100
20-Dec	12:30:12	12:47:44	00:17:32	100
21-Dec	12:30:40	12:48:15	00:17:36	100
22-Dec	12:31:11	12:48:44	00:17:33	100
23-Dec	12:31:45	12:49:10	00:17:24	100
24-Dec	12:32:23	12:49:32	00:17:09	100
25-Dec	12:33:03	12:49:51	00:16:47	100
26-Dec	12:33:47	12:50:06	00:16:18	100

Date	Start Time	End Time	Duration	% Cover
27-Dec	12:34:36	12:50:16	00:15:41	92.19
28-Dec	12:35:29	12:50:22	00:14:53	82.63
29-Dec	12:36:27	12:50:22	00:13:55	71.58
30-Dec	12:37:32	12:50:14	00:12:41	59.05
31-Dec	12:38:48	12:49:56	00:11:08	45.05

Shadow Flicker Dates and Times for Dwelling 35 - Turbine 18

Dwelling 36

Date	Start Time	End Time	Duration	% Cover
20-Feb	16:03:34	16:12:43	00:09:10	29.54
21-Feb	15:59:52	16:16:12	00:16:20	98.26
22-Feb	15:57:30	16:18:21	00:20:51	100
23-Feb	15:55:42	16:19:54	00:24:12	100
24-Feb	15:54:16	16:21:04	00:26:48	100
25-Feb	15:53:05	16:21:57	00:28:52	100
26-Feb	15:52:06	16:22:36	00:30:30	100
27-Feb	15:51:18	16:23:04	00:31:46	100
28-Feb	15:50:39	16:23:21	00:32:42	100
01-Mar	15:50:09	16:23:29	00:33:20	100
02-Mar	15:49:47	16:23:27	00:33:40	100
03-Mar	15:49:33	16:23:16	00:33:42	100
04-Mar	15:49:27	16:22:56	00:33:28	100
05-Mar	15:49:30	16:22:26	00:32:56	100
06-Mar	15:49:42	16:21:47	00:32:05	100

Date	Start Time	End Time	Duration	% Cover
07-Mar	15:50:01	16:20:57	00:30:56	100
08-Mar	15:50:32	16:19:56	00:29:24	100
09-Mar	15:51:15	16:18:41	00:27:26	100
10-Mar	15:52:14	16:17:11	00:24:57	100
11-Mar	15:53:34	16:15:18	00:21:44	100
12-Mar	15:55:28	16:12:52	00:17:24	100
13-Mar	15:58:33	16:09:13	00:10:40	41.48
29-Sep	15:39:03	15:50:32	00:11:29	47.83
30-Sep	15:35:34	15:53:21	00:17:47	100
01-Oct	15:33:09	15:55:07	00:21:57	100
02-Oct	15:31:17	15:56:21	00:25:05	100
03-Oct	15:29:45	15:57:15	00:27:31	100
04-Oct	15:28:29	15:57:55	00:29:26	100
05-Oct	15:27:26	15:58:23	00:30:57	100
06-Oct	15:26:35	15:58:40	00:32:05	100
07-Oct	15:25:52	15:58:47	00:32:55	100
08-Oct	15:25:19	15:58:46	00:33:28	100
09-Oct	15:24:54	15:58:37	00:33:43	100
10-Oct	15:24:39	15:58:20	00:33:41	100
11-Oct	15:24:32	15:57:55	00:33:23	100
12-Oct	15:24:34	15:57:22	00:32:48	100
13-Oct	15:24:46	15:56:41	00:31:55	100

Date	Start Time	End Time	Duration	% Cover
14-Oct	15:25:07	15:55:50	00:30:43	100
15-Oct	15:25:40	15:54:50	00:29:10	100
16-Oct	15:26:25	15:53:38	00:27:12	100
17-Oct	15:27:26	15:52:11	00:24:45	100
18-Oct	15:28:48	15:50:25	00:21:37	100
19-Oct	15:30:40	15:48:08	00:17:28	100
20-Oct	15:33:34	15:44:51	00:11:17	44.97

Shadow Flicker Dates and Times for Dwelling 36 – Turbine 16

Date	Start Time	End Time	Duration	% Cover
14-Jan	14:35:10	14:42:58	00:07:47	18
15-Jan	14:32:48	14:46:03	00:13:15	53.22
16-Jan	14:31:17	14:48:19	00:17:02	89.71
17-Jan	14:30:07	14:50:11	00:20:03	100
18-Jan	14:29:10	14:51:48	00:22:37	100
19-Jan	14:28:23	14:53:14	00:24:51	100
20-Jan	14:27:42	14:54:31	00:26:49	100
21-Jan	14:27:07	14:55:42	00:28:34	100
22-Jan	14:26:37	14:56:45	00:30:08	100
23-Jan	14:26:11	14:57:43	00:31:31	100
24-Jan	14:25:50	14:58:35	00:32:45	100
25-Jan	14:25:32	14:59:21	00:33:50	100
26-Jan	14:25:17	15:00:03	00:34:46	100
27-Jan	14:25:06	15:00:39	00:35:33	100

Date	Start Time	End Time	Duration	% Cover
28-Jan	14:24:58	15:01:10	00:36:12	100
29-Jan	14:24:54	15:01:36	00:36:43	100
30-Jan	14:24:53	15:01:57	00:37:05	100
31-Jan	14:24:55	15:02:13	00:37:18	100
01-Feb	14:25:01	15:02:23	00:37:22	100
02-Feb	14:25:11	15:02:28	00:37:17	100
03-Feb	14:25:25	15:02:27	00:37:01	100
04-Feb	14:25:44	15:02:20	00:36:36	100
05-Feb	14:26:07	15:02:06	00:35:59	100
06-Feb	14:26:35	15:01:45	00:35:10	100
07-Feb	14:27:09	15:01:17	00:34:08	100
08-Feb	14:27:50	15:00:42	00:32:52	100
09-Feb	14:28:36	14:59:57	00:31:21	100
10-Feb	14:29:32	14:59:02	00:29:30	100
11-Feb	14:30:39	14:57:54	00:27:15	100
12-Feb	14:32:01	14:56:29	00:24:28	100
13-Feb	14:33:44	14:54:42	00:20:58	100
14-Feb	14:36:02	14:52:17	00:16:15	88.87
15-Feb	14:39:50	14:48:21	00:08:31	23.53
26-Oct	14:07:11	14:20:52	00:13:41	61.62
27-Oct	14:04:22	14:23:31	00:19:10	100
28-Oct	14:02:21	14:25:24	00:23:03	100

Date	Start Time	End Time	Duration	% Cover
29-Oct	14:00:46	14:26:51	00:26:05	100
30-Oct	13:59:30	14:28:02	00:28:31	100
31-Oct	13:58:28	14:28:59	00:30:32	100
01-Nov	13:57:37	14:29:48	00:32:11	100
02-Nov	13:56:55	14:30:28	00:33:33	100
03-Nov	13:56:21	14:31:02	00:34:41	100
04-Nov	13:55:54	14:31:30	00:35:36	100
05-Nov	13:55:34	14:31:53	00:36:18	100
06-Nov	13:55:21	14:32:10	00:36:49	100
07-Nov	13:55:14	14:32:24	00:37:10	100
08-Nov	13:55:12	14:32:33	00:37:21	100
09-Nov	13:55:16	14:32:38	00:37:22	100
10-Nov	13:55:26	14:32:40	00:37:14	100
11-Nov	13:55:40	14:32:38	00:36:57	100
12-Nov	13:56:00	14:32:33	00:36:32	100
13-Nov	13:56:25	14:32:24	00:35:59	100
14-Nov	13:56:54	14:32:12	00:35:17	100
15-Nov	13:57:29	14:31:56	00:34:27	100
16-Nov	13:58:09	14:31:37	00:33:29	100
17-Nov	13:58:53	14:31:15	00:32:22	100
18-Nov	13:59:43	14:30:49	00:31:05	100
19-Nov	14:00:39	14:30:19	00:29:39	100

Date	Start Time	End Time	Duration	% Cover
20-Nov	14:01:41	14:29:44	00:28:03	100
21-Nov	14:02:49	14:29:04	00:26:15	100
22-Nov	14:04:05	14:28:18	00:24:13	100
23-Nov	14:05:30	14:27:25	00:21:55	100
24-Nov	14:07:06	14:26:21	00:19:15	100
25-Nov	14:08:58	14:25:02	00:16:04	79.19
26-Nov	14:11:17	14:23:18	00:12:01	43.4
27-Nov	14:14:52	14:20:21	00:05:29	8.85

Shadow Flicker Dates and Times for Dwelling 36 – Turbine 17

Date	Start Time	End Time	Duration	% Cover
01-Jan	13:29:13	13:57:14	00:28:01	100
02-Jan	13:29:47	13:57:36	00:27:49	100
03-Jan	13:30:22	13:57:57	00:27:35	100
04-Jan	13:30:57	13:58:16	00:27:19	100
05-Jan	13:31:34	13:58:33	00:26:59	100
06-Jan	13:32:12	13:58:48	00:26:35	100
07-Jan	13:32:53	13:58:59	00:26:07	100
08-Jan	13:33:35	13:59:08	00:25:33	100
09-Jan	13:34:20	13:59:13	00:24:54	100
10-Jan	13:35:07	13:59:14	00:24:07	100
11-Jan	13:35:57	13:59:11	00:23:13	100
12-Jan	13:36:52	13:59:02	00:22:10	100
13-Jan	13:37:52	13:58:46	00:20:54	100

Date	Start Time	End Time	Duration	% Cover
14-Jan	13:38:58	13:58:22	00:19:24	100
15-Jan	13:40:14	13:57:48	00:17:34	100
16-Jan	13:41:42	13:56:59	00:15:18	100
17-Jan	13:43:31	13:55:49	00:12:18	63.75
18-Jan	13:46:05	13:53:52	00:07:47	24.77
23-Nov	13:21:27	13:30:31	00:09:04	33.7
24-Nov	13:19:45	13:32:49	00:13:04	72.03
25-Nov	13:18:40	13:34:31	00:15:50	100
26-Nov	13:17:55	13:35:54	00:17:59	100
27-Nov	13:17:23	13:37:07	00:19:44	100
28-Nov	13:16:59	13:38:10	00:21:10	100
29-Nov	13:16:45	13:39:08	00:22:23	100
30-Nov	13:16:36	13:40:00	00:23:24	100
01-Dec	13:16:33	13:40:49	00:24:16	100
02-Dec	13:16:33	13:41:34	00:25:01	100
03-Dec	13:16:37	13:42:17	00:25:40	100
04-Dec	13:16:45	13:42:57	00:26:12	100
05-Dec	13:16:55	13:43:35	00:26:39	100
06-Dec	13:17:09	13:44:11	00:27:02	100
07-Dec	13:17:25	13:44:47	00:27:22	100
08-Dec	13:17:43	13:45:21	00:27:38	100
09-Dec	13:18:03	13:45:54	00:27:51	100

Date	Start Time	End Time	Duration	% Cover
10-Dec	13:18:25	13:46:27	00:28:02	100
11-Dec	13:18:48	13:46:59	00:28:11	100
12-Dec	13:19:12	13:47:30	00:28:18	100
13-Dec	13:19:38	13:48:01	00:28:24	100
14-Dec	13:20:04	13:48:32	00:28:28	100
15-Dec	13:20:31	13:49:03	00:28:31	100
16-Dec	13:20:59	13:49:33	00:28:34	100
17-Dec	13:21:28	13:50:03	00:28:36	100
18-Dec	13:21:56	13:50:33	00:28:37	100
19-Dec	13:22:26	13:51:04	00:28:38	100
20-Dec	13:22:55	13:51:34	00:28:38	100
21-Dec	13:23:25	13:52:04	00:28:38	100
22-Dec	13:23:55	13:52:33	00:28:38	100
23-Dec	13:24:25	13:53:03	00:28:38	100
24-Dec	13:24:56	13:53:33	00:28:37	100
25-Dec	13:25:26	13:54:02	00:28:36	100
26-Dec	13:25:57	13:54:31	00:28:34	100
27-Dec	13:26:27	13:54:59	00:28:32	100
28-Dec	13:26:58	13:55:27	00:28:28	100
29-Dec	13:27:29	13:55:54	00:28:24	100
30-Dec	13:28:01	13:56:20	00:28:19	100
31-Dec	13:28:33	13:56:45	00:28:12	100

Shadow Flicker Dates and Times for Dwelling 36 - Turbine 18

Dwelling 37

Date	Start Time	End Time	Duration	% Cover
15-Mar	16:56:08	17:09:13	00:13:05	72.45
16-Mar	16:53:21	17:11:28	00:18:07	100
17-Mar	16:51:20	17:12:56	00:21:36	100
18-Mar	16:49:45	17:13:56	00:24:11	100
19-Mar	16:48:30	17:14:37	00:26:08	100
20-Mar	16:47:28	17:15:03	00:27:35	100
21-Mar	16:46:40	17:15:17	00:28:37	100
22-Mar	16:46:03	17:15:18	00:29:16	100
23-Mar	16:45:36	17:15:10	00:29:34	100
24-Mar	16:45:19	17:14:51	00:29:32	100
25-Mar	16:45:12	17:14:22	00:29:09	100
26-Mar	16:45:15	17:13:42	00:28:27	100
27-Mar	16:45:29	17:12:51	00:27:22	100
28-Mar	16:45:55	17:11:48	00:25:53	100
29-Mar	16:46:36	17:10:29	00:23:53	100
30-Mar	16:47:36	17:08:53	00:21:18	100
31-Mar	16:49:02	17:06:51	00:17:49	100
01-Apr	16:51:16	17:04:01	00:12:45	67.92
09-Sep	16:46:50	16:55:27	00:08:37	29.85
10-Sep	16:43:06	16:58:28	00:15:22	100
11-Sep	16:40:41	17:00:11	00:19:30	100
12-Sep	16:38:50	17:01:20	00:22:30	100

Date	Start Time	End Time	Duration	% Cover
13-Sep	16:37:20	17:02:07	00:24:47	100
14-Sep	16:36:07	17:02:39	00:26:32	100
15-Sep	16:35:06	17:02:57	00:27:50	100
16-Sep	16:34:18	17:03:04	00:28:46	100
17-Sep	16:33:39	17:02:59	00:29:20	100
18-Sep	16:33:10	17:02:45	00:29:36	100
19-Sep	16:32:50	17:02:22	00:29:32	100
20-Sep	16:32:40	17:01:48	00:29:07	100
21-Sep	16:32:41	17:01:04	00:28:22	100
22-Sep	16:32:54	17:00:09	00:27:15	100
23-Sep	16:33:19	16:59:01	00:25:42	100
24-Sep	16:33:59	16:57:38	00:23:39	100
25-Sep	16:34:59	16:55:55	00:20:56	100
26-Sep	16:36:28	16:53:43	00:17:15	100
27-Sep	16:38:51	16:50:38	00:11:48	57.76

Shadow Flicker Dates and Times for Dwelling 37 – Turbine 16

Date	Start Time	End Time	Duration	% Cover
17-Feb	15:56:09	16:06:34	00:10:25	36.36
18-Feb	15:52:41	16:09:52	00:17:11	100
19-Feb	15:50:23	16:12:01	00:21:38	100
20-Feb	15:48:37	16:13:37	00:24:59	100
21-Feb	15:47:11	16:14:50	00:27:39	100
22-Feb	15:45:59	16:15:47	00:29:48	100

Date	Start Time	End Time	Duration	% Cover
23-Feb	15:45:00	16:16:31	00:31:31	100
24-Feb	15:44:11	16:17:03	00:32:52	100
25-Feb	15:43:31	16:17:26	00:33:55	100
26-Feb	15:42:58	16:17:39	00:34:40	100
27-Feb	15:42:34	16:17:42	00:35:09	100
28-Feb	15:42:17	16:17:38	00:35:21	100
01-Mar	15:42:07	16:17:24	00:35:17	100
02-Mar	15:42:06	16:17:02	00:34:57	100
03-Mar	15:42:12	16:16:31	00:34:20	100
04-Mar	15:42:25	16:15:51	00:33:26	100
05-Mar	15:42:48	16:15:01	00:32:13	100
06-Mar	15:43:20	16:13:59	00:30:38	100
07-Mar	15:44:05	16:12:44	00:28:39	100
08-Mar	15:45:04	16:11:15	00:26:10	100
09-Mar	15:46:24	16:09:24	00:22:59	100
10-Mar	15:48:14	16:07:02	00:18:48	100
11-Mar	15:51:04	16:03:40	00:12:36	55.69
01-Oct	15:30:35	15:43:35	00:13:00	59.01
02-Oct	15:27:16	15:46:15	00:18:59	100
03-Oct	15:24:55	15:47:59	00:23:05	100
04-Oct	15:23:03	15:49:14	00:26:11	100
05-Oct	15:21:31	15:50:10	00:28:39	100

Date	Start Time	End Time	Duration	% Cover
06-Oct	15:20:15	15:50:51	00:30:36	100
07-Oct	15:19:11	15:51:21	00:32:10	100
08-Oct	15:18:18	15:51:41	00:33:23	100
09-Oct	15:17:35	15:51:52	00:34:17	100
10-Oct	15:16:59	15:51:54	00:34:55	100
11-Oct	15:16:33	15:51:49	00:35:16	100
12-Oct	15:16:15	15:51:37	00:35:22	100
13-Oct	15:16:05	15:51:17	00:35:12	100
14-Oct	15:16:03	15:50:50	00:34:46	100
15-Oct	15:16:10	15:50:15	00:34:05	100
16-Oct	15:16:26	15:49:32	00:33:06	100
17-Oct	15:16:52	15:48:41	00:31:49	100
18-Oct	15:17:28	15:47:40	00:30:12	100
19-Oct	15:18:17	15:46:28	00:28:11	100
20-Oct	15:19:21	15:45:02	00:25:42	100
21-Oct	15:20:44	15:43:18	00:22:34	100
22-Oct	15:22:35	15:41:05	00:18:30	100
23-Oct	15:25:20	15:38:03	00:12:44	54.61

Shadow Flicker Dates and Times for Dwelling 37 – Turbine 17

Date	Start Time	End Time	Duration	% Cover
16-Jan	14:42:10	14:46:24	00:04:13	100
17-Jan	14:41:21	14:50:31	00:09:10	100
18-Jan	14:40:41	14:54:50	00:14:09	100

Date	Start Time	End Time	Duration	% Cover
19-Jan	14:40:08	14:59:21	00:19:13	100
20-Jan	14:39:42	15:03:23	00:23:41	100
21-Jan	14:39:21	15:04:19	00:24:58	100
22-Jan	14:39:04	15:05:09	00:26:04	100
23-Jan	14:38:52	15:05:52	00:27:01	100
24-Jan	14:38:43	15:06:31	00:27:47	100
25-Jan	14:38:39	15:07:03	00:28:24	100
26-Jan	14:38:39	15:07:30	00:28:51	100
27-Jan	14:38:42	15:07:51	00:29:09	100
28-Jan	14:38:50	15:08:06	00:29:16	100
29-Jan	14:39:02	15:08:16	00:29:13	100
30-Jan	14:39:19	15:08:18	00:28:59	100
31-Jan	14:39:41	15:08:15	00:28:34	100
01-Feb	14:40:08	15:08:03	00:27:56	100
02-Feb	14:40:41	15:07:44	00:27:03	100
03-Feb	14:41:20	15:07:16	00:25:56	100
04-Feb	14:42:08	15:06:39	00:24:31	100
05-Feb	14:43:06	15:05:49	00:22:43	100
06-Feb	14:44:19	15:04:44	00:20:25	100
07-Feb	14:45:51	15:03:17	00:17:26	100
08-Feb	14:47:57	15:01:14	00:13:17	75.21
09-Feb	14:51:40	14:57:32	00:05:52	14.05

Date	Start Time	End Time	Duration	% Cover
01-Nov	14:18:45	14:29:20	00:10:34	46.31
02-Nov	14:16:13	14:31:51	00:15:38	100
03-Nov	14:14:31	14:33:34	00:19:03	100
04-Nov	14:13:15	14:34:52	00:21:38	100
05-Nov	14:12:16	14:35:55	00:23:38	100
06-Nov	14:11:31	14:36:45	00:25:14	100
07-Nov	14:10:57	14:37:26	00:26:29	100
08-Nov	14:10:32	14:38:01	00:27:29	100
09-Nov	14:10:14	14:38:28	00:28:15	100
10-Nov	14:10:03	14:38:50	00:28:47	100
11-Nov	14:09:59	14:39:07	00:29:07	100
12-Nov	14:10:02	14:39:19	00:29:16	100
13-Nov	14:10:11	14:39:26	00:29:15	100
14-Nov	14:10:26	14:39:30	00:29:04	100
15-Nov	14:10:46	14:39:29	00:28:43	100
16-Nov	14:11:12	14:39:24	00:28:12	100
17-Nov	14:11:43	14:39:16	00:27:32	100
18-Nov	14:12:20	14:39:03	00:26:43	100
19-Nov	14:13:03	14:38:46	00:25:44	100
20-Nov	14:13:51	14:38:25	00:24:34	100
21-Nov	14:14:46	14:37:27	00:22:41	100
22-Nov	14:15:47	14:33:24	00:17:37	100

Date	Start Time	End Time	Duration	% Cover
23-Nov	14:16:57	14:29:34	00:12:38	100
24-Nov	14:18:15	14:25:58	00:07:43	100
25-Nov	14:19:46	14:22:35	00:02:48	95.25

Shadow Flicker Dates and Times for Dwelling 37 – Turbine 18

Dwelling 38

Date	Start Time	End Time	Duration	% Cover
18-Mar	17:04:22	17:07:59	00:03:37	4.97
19-Mar	16:58:49	17:12:56	00:14:07	79.45
20-Mar	16:56:01	17:15:10	00:19:08	100
21-Mar	16:53:58	17:16:39	00:22:41	100
22-Mar	16:52:21	17:17:41	00:25:21	100
23-Mar	16:51:02	17:18:25	00:27:24	100
24-Mar	16:49:57	17:18:54	00:28:57	100
25-Mar	16:49:05	17:19:11	00:30:07	100
26-Mar	16:48:23	17:19:17	00:30:54	100
27-Mar	16:47:51	17:19:13	00:31:21	100
28-Mar	16:47:29	17:18:59	00:31:30	100
29-Mar	16:47:17	17:18:36	00:31:19	100
30-Mar	16:47:14	17:18:04	00:30:50	100
31-Mar	16:47:19	17:17:22	00:30:03	100
01-Apr	16:47:35	17:16:29	00:28:54	100
02-Apr	16:48:03	17:15:25	00:27:22	100
03-Apr	16:48:44	17:14:07	00:25:23	100

Date	Start Time	End Time	Duration	% Cover
04-Apr	16:49:43	17:12:33	00:22:50	100
05-Apr	16:51:05	17:10:36	00:19:31	100
06-Apr	16:53:06	17:08:00	00:14:54	87.54
07-Apr	16:56:53	17:03:39	00:06:46	17.17
04-Sep	16:51:09	17:03:16	00:12:06	56
05-Sep	16:48:03	17:05:41	00:17:38	100
06-Sep	16:45:50	17:07:14	00:21:23	100
07-Sep	16:44:05	17:08:18	00:24:13	100
08-Sep	16:42:38	17:09:04	00:26:26	100
09-Sep	16:41:25	17:09:36	00:28:10	100
10-Sep	16:40:25	17:09:55	00:29:30	100
11-Sep	16:39:35	17:10:03	00:30:27	100
12-Sep	16:38:55	17:10:01	00:31:06	100
13-Sep	16:38:23	17:09:50	00:31:27	100
14-Sep	16:37:59	17:09:29	00:31:30	100
15-Sep	16:37:46	17:08:59	00:31:14	100
16-Sep	16:37:41	17:08:21	00:30:40	100
17-Sep	16:37:46	17:07:32	00:29:46	100
18-Sep	16:38:02	17:06:32	00:28:30	100
19-Sep	16:38:31	17:05:20	00:26:49	100
20-Sep	16:39:15	17:03:52	00:24:37	100
21-Sep	16:40:18	17:02:05	00:21:47	100

Date	Start Time	End Time	Duration	% Cover
22-Sep	16:41:50	16:59:48	00:17:58	100
23-Sep	16:44:17	16:56:40	00:12:23	59.91

Shadow Flicker Dates and Times for Dwelling 38 – Turbine 16

Date	Start Time	End Time	Duration	% Cover
20-Feb	15:54:18	16:06:55	00:12:37	49.78
21-Feb	15:50:58	16:10:02	00:19:04	100
22-Feb	15:48:38	16:12:09	00:23:31	100
23-Feb	15:46:48	16:13:44	00:26:57	100
24-Feb	15:45:17	16:14:59	00:29:41	100
25-Feb	15:44:02	16:15:57	00:31:55	100
26-Feb	15:42:57	16:16:42	00:33:45	100
27-Feb	15:42:03	16:17:16	00:35:13	100
28-Feb	15:41:18	16:17:40	00:36:22	100
01-Mar	15:40:40	16:17:55	00:37:15	100
02-Mar	15:40:10	16:18:01	00:37:51	100
03-Mar	15:39:48	16:17:59	00:38:11	100
04-Mar	15:39:32	16:17:49	00:38:17	100
05-Mar	15:39:24	16:17:31	00:38:07	100
06-Mar	15:39:23	16:17:04	00:37:42	100
07-Mar	15:39:29	16:16:29	00:37:00	100
08-Mar	15:39:43	16:15:46	00:36:03	100
09-Mar	15:40:05	16:14:52	00:34:47	100
10-Mar	15:40:36	16:13:48	00:33:12	100

Date	Start Time	End Time	Duration	% Cover
11-Mar	15:41:20	16:12:32	00:31:13	100
12-Mar	15:42:16	16:11:03	00:28:46	100
13-Mar	15:43:31	16:09:15	00:25:43	100
14-Mar	15:45:12	16:07:01	00:21:49	100
15-Mar	15:47:35	16:04:03	00:16:28	89.24
16-Mar	15:52:07	15:58:57	00:06:50	14.75
26-Sep	15:33:56	15:42:38	00:08:42	23.81
27-Sep	15:29:22	15:46:32	00:17:10	96.65
28-Sep	15:26:29	15:48:44	00:22:15	100
29-Sep	15:24:17	15:50:17	00:25:59	100
30-Sep	15:22:28	15:51:25	00:28:57	100
01-Oct	15:20:58	15:52:17	00:31:20	100
02-Oct	15:19:41	15:52:57	00:33:16	100
03-Oct	15:18:36	15:53:25	00:34:50	100
04-Oct	15:17:41	15:53:44	00:36:04	100
05-Oct	15:16:54	15:53:55	00:37:00	100
06-Oct	15:16:16	15:53:57	00:37:42	100
07-Oct	15:15:45	15:53:52	00:38:07	100
08-Oct	15:15:23	15:53:40	00:38:18	100
09-Oct	15:15:08	15:53:21	00:38:13	100
10-Oct	15:15:01	15:52:55	00:37:54	100
11-Oct	15:15:02	15:52:22	00:37:20	100

Date	Start Time	End Time	Duration	% Cover
12-Oct	15:15:11	15:51:42	00:36:31	100
13-Oct	15:15:29	15:50:54	00:35:24	100
14-Oct	15:15:57	15:49:57	00:34:00	100
15-Oct	15:16:35	15:48:51	00:32:16	100
16-Oct	15:17:25	15:47:34	00:30:09	100
17-Oct	15:18:30	15:46:03	00:27:33	100
18-Oct	15:19:54	15:44:13	00:24:19	100
19-Oct	15:21:46	15:41:57	00:20:11	100
20-Oct	15:24:26	15:38:55	00:14:29	65.78

Shadow Flicker Dates and Times for Dwelling 38 - Turbine 17

Date	Start Time	End Time	Duration	% Cover
18-Jan	14:36:03	14:38:40	00:02:38	100
19-Jan	14:35:20	14:43:12	00:07:52	100
20-Jan	14:34:45	14:47:56	00:13:10	100
21-Jan	14:34:16	14:52:53	00:18:37	100
22-Jan	14:33:53	14:58:05	00:24:12	100
23-Jan	14:33:34	15:01:06	00:27:32	100
24-Jan	14:33:19	15:01:50	00:28:31	100
25-Jan	14:33:09	15:02:29	00:29:21	100
26-Jan	14:33:02	15:03:03	00:30:01	100
27-Jan	14:32:59	15:03:30	00:30:31	100
28-Jan	14:33:00	15:03:52	00:30:52	100
29-Jan	14:33:06	15:04:09	00:31:03	100

Date	Start Time	End Time	Duration	% Cover
30-Jan	14:33:15	15:04:19	00:31:04	100
31-Jan	14:33:29	15:04:23	00:30:54	100
01-Feb	14:33:47	15:04:21	00:30:33	100
02-Feb	14:34:11	15:04:11	00:30:00	100
03-Feb	14:34:41	15:03:54	00:29:14	100
04-Feb	14:35:16	15:03:29	00:28:14	100
05-Feb	14:35:58	15:02:56	00:26:58	100
06-Feb	14:36:49	15:02:12	00:25:22	100
07-Feb	14:37:52	15:01:14	00:23:22	100
08-Feb	14:39:10	15:00:00	00:20:51	100
09-Feb	14:40:49	14:58:22	00:17:33	100
10-Feb	14:43:08	14:56:03	00:12:54	66.41
11-Feb	14:48:01	14:51:09	00:03:09	3.77
30-Oct	14:14:09	14:24:01	00:09:53	37.9
31-Oct	14:11:14	14:26:52	00:15:38	99.05
01-Nov	14:09:20	14:28:44	00:19:24	100
02-Nov	14:07:55	14:30:08	00:22:13	100
03-Nov	14:06:49	14:31:15	00:24:26	100
04-Nov	14:05:57	14:32:09	00:26:12	100
05-Nov	14:05:16	14:32:53	00:27:36	100
06-Nov	14:04:45	14:33:29	00:28:44	100
07-Nov	14:04:22	14:33:59	00:29:37	100

Date	Start Time	End Time	Duration	% Cover
08-Nov	14:04:06	14:34:23	00:30:17	100
09-Nov	14:03:57	14:34:42	00:30:44	100
10-Nov	14:03:55	14:34:55	00:31:00	100
11-Nov	14:03:59	14:35:04	00:31:05	100
12-Nov	14:04:08	14:35:09	00:31:00	100
13-Nov	14:04:24	14:35:10	00:30:46	100
14-Nov	14:04:45	14:35:06	00:30:21	100
15-Nov	14:05:11	14:34:59	00:29:48	100
16-Nov	14:05:43	14:34:48	00:29:05	100
17-Nov	14:06:21	14:34:33	00:28:12	100
18-Nov	14:07:04	14:34:14	00:27:10	100
19-Nov	14:07:53	14:30:12	00:22:19	100
20-Nov	14:08:49	14:25:40	00:16:51	100
21-Nov	14:09:51	14:21:22	00:11:31	100
22-Nov	14:11:01	14:17:19	00:06:18	100
23-Nov	14:12:21	14:13:30	00:01:09	100

Shadow Flicker Dates and Times for Dwelling 38 - Turbine 18

Dwelling 39

Date	Start Time	End Time	Duration	% Cover
21-Mar	17:06:15	17:17:37	00:11:22	51.31
22-Mar	17:02:58	17:20:17	00:17:19	100
23-Mar	17:00:43	17:21:59	00:21:16	100
24-Mar	16:58:58	17:23:09	00:24:11	100

Date	Start Time	End Time	Duration	% Cover
25-Mar	16:57:34	17:23:58	00:26:24	100
26-Mar	16:56:25	17:24:31	00:28:06	100
27-Mar	16:55:29	17:24:51	00:29:22	100
28-Mar	16:54:45	17:25:00	00:30:16	100
29-Mar	16:54:11	17:24:59	00:30:48	100
30-Mar	16:53:46	17:24:48	00:31:02	100
31-Mar	16:53:31	17:24:28	00:30:57	100
01-Apr	16:53:26	17:23:58	00:30:32	100
02-Apr	16:53:29	17:23:19	00:29:50	100
03-Apr	16:53:42	17:22:29	00:28:47	100
04-Apr	16:54:07	17:21:28	00:27:22	100
05-Apr	16:54:45	17:20:14	00:25:30	100
06-Apr	16:55:39	17:18:45	00:23:06	100
07-Apr	16:56:55	17:16:55	00:20:00	100
08-Apr	16:58:45	17:14:32	00:15:47	100
09-Apr	17:01:53	17:10:51	00:08:58	30.8
01-Sep	17:03:13	17:06:27	00:03:13	3.87
02-Sep	16:57:44	17:11:17	00:13:32	71.73
03-Sep	16:54:58	17:13:24	00:18:25	100
04-Sep	16:52:55	17:14:47	00:21:53	100
05-Sep	16:51:16	17:15:46	00:24:30	100
06-Sep	16:49:54	17:16:28	00:26:34	100

Date	Start Time	End Time	Duration	% Cover
07-Sep	16:48:46	17:16:56	00:28:10	100
08-Sep	16:47:49	17:17:12	00:29:22	100
09-Sep	16:47:03	17:17:17	00:30:14	100
10-Sep	16:46:25	17:17:12	00:30:47	100
11-Sep	16:45:56	17:16:58	00:31:02	100
12-Sep	16:45:36	17:16:35	00:30:59	100
13-Sep	16:45:25	17:16:03	00:30:38	100
14-Sep	16:45:24	17:15:21	00:29:57	100
15-Sep	16:45:32	17:14:28	00:28:56	100
16-Sep	16:45:52	17:13:25	00:27:32	100
17-Sep	16:46:26	17:12:07	00:25:41	100
18-Sep	16:47:16	17:10:33	00:23:17	100
19-Sep	16:48:29	17:08:36	00:20:07	100
20-Sep	16:50:17	17:06:03	00:15:47	100
21-Sep	16:53:29	17:02:09	00:08:40	29.15

Shadow Flicker Dates and Times for Dwelling 39 – Turbine 16

Date	Start Time	End Time	Duration	% Cover
23-Feb	16:04:51	16:13:59	00:09:08	26.11
24-Feb	16:00:41	16:17:52	00:17:11	96.24
25-Feb	15:58:03	16:20:13	00:22:10	100
26-Feb	15:56:02	16:21:56	00:25:54	100
27-Feb	15:54:24	16:23:15	00:28:50	100
28-Feb	15:53:02	16:24:15	00:31:13	100

Date	Start Time	End Time	Duration	% Cover
01-Mar	15:51:53	16:25:02	00:33:09	100
02-Mar	15:50:55	16:25:37	00:34:42	100
03-Mar	15:50:06	16:26:02	00:35:55	100
04-Mar	15:49:26	16:26:17	00:36:51	100
05-Mar	15:48:53	16:26:23	00:37:30	100
06-Mar	15:48:28	16:26:20	00:37:53	100
07-Mar	15:48:10	16:26:10	00:37:59	100
08-Mar	15:47:59	16:25:51	00:37:51	100
09-Mar	15:47:57	16:25:24	00:37:27	100
10-Mar	15:48:02	16:24:48	00:36:46	100
11-Mar	15:48:14	16:24:04	00:35:50	100
12-Mar	15:48:35	16:23:09	00:34:35	100
13-Mar	15:49:06	16:22:04	00:32:59	100
14-Mar	15:49:48	16:20:47	00:30:59	100
15-Mar	15:50:44	16:19:17	00:28:33	100
16-Mar	15:51:59	16:17:28	00:25:29	100
17-Mar	15:53:40	16:15:12	00:21:33	100
18-Mar	15:56:05	16:12:12	00:16:07	85.85
19-Mar	16:00:51	16:06:50	00:05:59	11.37
23-Sep	15:44:06	15:52:55	00:08:50	24.66
24-Sep	15:39:34	15:56:45	00:17:11	97.47
25-Sep	15:36:42	15:58:55	00:22:13	100

Date	Start Time	End Time	Duration	% Cover
26-Sep	15:34:30	16:00:27	00:25:57	100
27-Sep	15:32:41	16:01:34	00:28:53	100
28-Sep	15:31:10	16:02:24	00:31:14	100
29-Sep	15:29:53	16:03:03	00:33:09	100
30-Sep	15:28:48	16:03:30	00:34:42	100
01-Oct	15:27:53	16:03:47	00:35:54	100
02-Oct	15:27:06	16:03:56	00:36:49	100
03-Oct	15:26:28	16:03:56	00:37:29	100
04-Oct	15:25:57	16:03:49	00:37:52	100
05-Oct	15:25:34	16:03:35	00:38:01	100
06-Oct	15:25:20	16:03:13	00:37:54	100
07-Oct	15:25:13	16:02:44	00:37:32	100
08-Oct	15:25:14	16:02:08	00:36:54	100
09-Oct	15:25:24	16:01:24	00:36:00	100
10-Oct	15:25:43	16:00:32	00:34:49	100
11-Oct	15:26:12	15:59:31	00:33:19	100
12-Oct	15:26:52	15:58:20	00:31:28	100
13-Oct	15:27:45	15:56:56	00:29:11	100
14-Oct	15:28:55	15:55:17	00:26:22	100
15-Oct	15:30:27	15:53:16	00:22:49	100
16-Oct	15:32:32	15:50:43	00:18:11	100
17-Oct	15:35:50	15:46:59	00:11:09	38.88

Shadow Flicker Dates and Times for Dwelling 39 - Turbine 17

Date	Start Time	End Time	Duration	% Cover
22-Jan	14:44:03	14:46:36	00:02:33	100
23-Jan	14:43:18	14:51:32	00:08:15	100
24-Jan	14:42:40	14:56:42	00:14:02	100
25-Jan	14:42:10	15:02:07	00:19:57	100
26-Jan	14:41:45	15:07:46	00:26:02	100
27-Jan	14:41:25	15:09:58	00:28:32	100
28-Jan	14:41:10	15:10:36	00:29:26	100
29-Jan	14:41:00	15:11:08	00:30:08	100
30-Jan	14:40:54	15:11:34	00:30:39	100
31-Jan	14:40:53	15:11:53	00:31:00	100
01-Feb	14:40:57	15:12:07	00:31:10	100
02-Feb	14:41:05	15:12:13	00:31:09	100
03-Feb	14:41:17	15:12:13	00:30:56	100
04-Feb	14:41:36	15:12:06	00:30:31	100
05-Feb	14:41:59	15:11:52	00:29:52	100
06-Feb	14:42:30	15:11:29	00:28:59	100
07-Feb	14:43:07	15:10:57	00:27:51	100
08-Feb	14:43:52	15:10:16	00:26:24	100
09-Feb	14:44:47	15:09:22	00:24:35	100
10-Feb	14:45:56	15:08:14	00:22:17	100
11-Feb	14:47:24	15:06:44	00:19:20	100
12-Feb	14:49:22	15:04:43	00:15:21	95.81

Date	Start Time	End Time	Duration	% Cover
13-Feb	14:52:29	15:01:32	00:09:02	31.77
27-Oct	14:24:50	14:28:39	00:03:49	5.51
28-Oct	14:20:05	14:33:15	00:13:10	68.65
29-Oct	14:17:43	14:35:30	00:17:48	100
30-Oct	14:16:01	14:37:06	00:21:05	100
31-Oct	14:14:43	14:38:20	00:23:37	100
01-Nov	14:13:42	14:39:19	00:25:37	100
02-Nov	14:12:54	14:40:06	00:27:12	100
03-Nov	14:12:16	14:40:44	00:28:28	100
04-Nov	14:11:48	14:41:15	00:29:27	100
05-Nov	14:11:26	14:41:39	00:30:13	100
06-Nov	14:11:13	14:41:57	00:30:45	100
07-Nov	14:11:06	14:42:10	00:31:04	100
08-Nov	14:11:06	14:42:18	00:31:11	100
09-Nov	14:11:13	14:42:20	00:31:08	100
10-Nov	14:11:25	14:42:19	00:30:53	100
11-Nov	14:11:44	14:42:12	00:30:28	100
12-Nov	14:12:09	14:42:02	00:29:53	100
13-Nov	14:12:40	14:41:46	00:29:07	100
14-Nov	14:13:17	14:41:27	00:28:09	100
15-Nov	14:14:01	14:37:43	00:23:42	100
16-Nov	14:14:52	14:32:38	00:17:46	100

Date	Start Time	End Time	Duration	% Cover
17-Nov	14:15:50	14:27:49	00:11:59	100
18-Nov	14:16:57	14:23:15	00:06:19	100
19-Nov	14:18:14	14:18:57	00:00:43	100

Shadow Flicker Dates and Times for Dwelling 39 - Turbine 18

Dwelling 40

Date	Start Time	End Time	Duration	% Cover
28-Mar	17:29:11	17:37:25	00:08:13	29.05
29-Mar	17:25:31	17:40:29	00:14:59	100
30-Mar	17:23:11	17:42:15	00:19:03	100
31-Mar	17:21:27	17:43:25	00:21:58	100
01-Apr	17:20:04	17:44:13	00:24:09	100
02-Apr	17:18:59	17:44:44	00:25:46	100
03-Apr	17:18:06	17:45:02	00:26:56	100
04-Apr	17:17:26	17:45:09	00:27:43	100
05-Apr	17:16:56	17:45:05	00:28:09	100
06-Apr	17:16:36	17:44:51	00:28:14	100
07-Apr	17:16:27	17:44:27	00:28:00	100
08-Apr	17:16:26	17:43:53	00:27:27	100
09-Apr	17:16:36	17:43:10	00:26:34	100
10-Apr	17:16:57	17:42:15	00:25:17	100
11-Apr	17:17:32	17:41:07	00:23:35	100
12-Apr	17:18:23	17:39:44	00:21:21	100
13-Apr	17:19:35	17:38:01	00:18:26	100

Date	Start Time	End Time	Duration	% Cover
14-Apr	17:21:21	17:35:44	00:14:23	90.66
15-Apr	17:24:30	17:32:06	00:07:36	23.99
26-Aug	17:28:14	17:32:00	00:03:46	5.76
27-Aug	17:23:24	17:36:16	00:12:52	70.92
28-Aug	17:20:51	17:38:13	00:17:22	100
29-Aug	17:18:58	17:39:30	00:20:32	100
30-Aug	17:17:29	17:40:24	00:22:55	100
31-Aug	17:16:15	17:41:01	00:24:46	100
01-Sep	17:15:15	17:41:24	00:26:10	100
02-Sep	17:14:25	17:41:36	00:27:10	100
03-Sep	17:13:46	17:41:36	00:27:50	100
04-Sep	17:13:15	17:41:27	00:28:12	100
05-Sep	17:12:53	17:41:08	00:28:14	100
06-Sep	17:12:41	17:40:39	00:27:58	100
07-Sep	17:12:38	17:39:59	00:27:21	100
08-Sep	17:12:46	17:39:09	00:26:23	100
09-Sep	17:13:06	17:38:06	00:25:00	100
10-Sep	17:13:40	17:36:49	00:23:09	100
11-Sep	17:14:32	17:35:13	00:20:41	100
12-Sep	17:15:49	17:33:10	00:17:21	100
13-Sep	17:17:53	17:30:23	00:12:30	68.79

Shadow Flicker Dates and Times for Dwelling 40 – Turbine 16

Date	Start Time	End Time	Duration	% Cover
07-Mar	16:37:24	16:49:08	00:11:43	47.97
08-Mar	16:33:54	16:52:08	00:18:14	100
09-Mar	16:31:29	16:54:04	00:22:35	100
10-Mar	16:29:37	16:55:27	00:25:51	100
11-Mar	16:28:05	16:56:29	00:28:24	100
12-Mar	16:26:48	16:57:13	00:30:25	100
13-Mar	16:25:45	16:57:45	00:31:59	100
14-Mar	16:24:52	16:58:05	00:33:13	100
15-Mar	16:24:09	16:58:14	00:34:05	100
16-Mar	16:23:35	16:58:14	00:34:39	100
17-Mar	16:23:10	16:58:05	00:34:55	100
18-Mar	16:22:54	16:57:47	00:34:54	100
19-Mar	16:22:45	16:57:21	00:34:35	100
20-Mar	16:22:46	16:56:45	00:33:59	100
21-Mar	16:22:54	16:55:59	00:33:06	100
22-Mar	16:23:12	16:55:04	00:31:52	100
23-Mar	16:23:42	16:53:58	00:30:16	100
24-Mar	16:24:24	16:52:38	00:28:14	100
25-Mar	16:25:22	16:51:03	00:25:41	100
26-Mar	16:26:42	16:49:07	00:22:26	100
27-Mar	16:28:34	16:46:39	00:18:05	100
28-Mar	16:31:33	16:43:04	00:11:30	46.08

Date	Start Time	End Time	Duration	% Cover
13-Sep	16:27:22	16:29:03	00:01:40	0.94
14-Sep	16:20:40	16:35:02	00:14:22	72.5
15-Sep	16:17:36	16:37:23	00:19:47	100
16-Sep	16:15:19	16:38:57	00:23:38	100
17-Sep	16:13:29	16:40:04	00:26:35	100
18-Sep	16:11:57	16:40:52	00:28:55	100
19-Sep	16:10:41	16:41:28	00:30:47	100
20-Sep	16:09:36	16:41:51	00:32:15	100
21-Sep	16:08:41	16:42:04	00:33:22	100
22-Sep	16:07:57	16:42:07	00:34:10	100
23-Sep	16:07:20	16:42:01	00:34:42	100
24-Sep	16:06:51	16:41:47	00:34:56	100
25-Sep	16:06:31	16:41:25	00:34:54	100
26-Sep	16:06:20	16:40:55	00:34:35	100
27-Sep	16:06:17	16:40:16	00:33:58	100
28-Sep	16:06:24	16:39:28	00:33:04	100
29-Sep	16:06:41	16:38:30	00:31:49	100
30-Sep	16:07:09	16:37:22	00:30:13	100
01-Oct	16:07:50	16:36:00	00:28:10	100
02-Oct	16:08:48	16:34:23	00:25:36	100
03-Oct	16:10:06	16:32:25	00:22:18	100
04-Oct	16:11:58	16:29:55	00:17:57	100

Date	Start Time	End Time	Duration	% Cover
05-Oct	16:14:58	16:26:19	00:11:21	44.55

Shadow Flicker Dates and Times for Dwelling 40 – Turbine 17

Date	Start Time	End Time	Duration	% Cover
04-Feb	15:20:16	15:22:04	00:01:49	100
05-Feb	15:19:09	15:28:14	00:09:04	100
06-Feb	15:18:16	15:34:43	00:16:27	100
07-Feb	15:17:33	15:41:34	00:24:01	100
08-Feb	15:16:59	15:45:03	00:28:04	100
09-Feb	15:16:32	15:45:34	00:29:01	100
10-Feb	15:16:13	15:45:55	00:29:43	100
11-Feb	15:15:59	15:46:09	00:30:09	100
12-Feb	15:15:54	15:46:13	00:30:20	100
13-Feb	15:15:54	15:46:10	00:30:16	100
14-Feb	15:16:02	15:45:58	00:29:56	100
15-Feb	15:16:17	15:45:37	00:29:20	100
16-Feb	15:16:39	15:45:06	00:28:27	100
17-Feb	15:17:09	15:44:25	00:27:15	100
18-Feb	15:17:51	15:43:32	00:25:41	100
19-Feb	15:18:46	15:42:25	00:23:39	100
20-Feb	15:19:58	15:40:59	00:21:01	100
21-Feb	15:21:35	15:39:06	00:17:32	100
22-Feb	15:23:59	15:36:26	00:12:26	63.63
18-Oct	14:56:35	15:07:18	00:10:43	46.31

Date	Start Time	End Time	Duration	% Cover
19-Oct	14:53:33	15:09:58	00:16:25	100
20-Oct	14:51:30	15:11:41	00:20:11	100
21-Oct	14:49:57	15:12:55	00:22:59	100
22-Oct	14:48:44	15:13:51	00:25:08	100
23-Oct	14:47:45	15:14:34	00:26:49	100
24-Oct	14:46:59	15:15:06	00:28:07	100
25-Oct	14:46:24	15:15:29	00:29:05	100
26-Oct	14:45:57	15:15:43	00:29:46	100
27-Oct	14:45:39	15:15:50	00:30:11	100
28-Oct	14:45:29	15:15:50	00:30:21	100
29-Oct	14:45:27	15:15:43	00:30:16	100
30-Oct	14:45:34	15:15:29	00:29:56	100
31-Oct	14:45:48	15:15:09	00:29:21	100
01-Nov	14:46:11	15:14:42	00:28:31	100
02-Nov	14:46:42	15:14:02	00:27:19	100
03-Nov	14:47:23	15:07:13	00:19:49	100
04-Nov	14:48:15	15:00:45	00:12:29	100
05-Nov	14:49:20	14:54:38	00:05:18	100

Shadow Flicker Dates and Times for Dwelling 40 – Turbine 18

Dwelling 41

Date	Start Time	End Time	Duration	% Cover
03-Apr	17:35:03	17:43:34	00:08:32	26.81
04-Apr	17:31:03	17:47:00	00:15:57	98.27

Date	Start Time	End Time	Duration	% Cover
05-Apr	17:28:31	17:48:59	00:20:27	100
06-Apr	17:26:36	17:50:22	00:23:46	100
07-Apr	17:25:04	17:51:22	00:26:18	100
08-Apr	17:23:48	17:52:06	00:28:18	100
09-Apr	17:22:45	17:52:37	00:29:52	100
10-Apr	17:21:54	17:52:57	00:31:03	100
11-Apr	17:21:12	17:53:07	00:31:55	100
12-Apr	17:20:40	17:53:09	00:32:29	100
13-Apr	17:20:16	17:53:03	00:32:47	100
14-Apr	17:20:00	17:52:50	00:32:49	100
15-Apr	17:19:53	17:52:28	00:32:36	100
16-Apr	17:19:52	17:51:59	00:32:08	100
17-Apr	17:19:59	17:51:24	00:31:24	100
18-Apr	17:20:16	17:50:39	00:30:24	100
19-Apr	17:20:41	17:49:46	00:29:05	100
20-Apr	17:21:18	17:48:43	00:27:26	100
21-Apr	17:22:06	17:47:29	00:25:23	100
22-Apr	17:23:09	17:46:02	00:22:52	100
23-Apr	17:24:33	17:44:15	00:19:41	100
24-Apr	17:26:29	17:41:56	00:15:27	87.24
25-Apr	17:29:40	17:38:24	00:08:44	26.68
16-Aug	17:36:44	17:44:03	00:07:19	18.52

Date	Start Time	End Time	Duration	% Cover
17-Aug	17:32:50	17:47:31	00:14:41	77.82
18-Aug	17:30:25	17:49:31	00:19:06	100
19-Aug	17:28:33	17:50:56	00:22:23	100
20-Aug	17:27:01	17:51:59	00:24:58	100
21-Aug	17:25:44	17:52:48	00:27:04	100
22-Aug	17:24:39	17:53:25	00:28:46	100
23-Aug	17:23:43	17:53:51	00:30:08	100
24-Aug	17:22:55	17:54:07	00:31:12	100
25-Aug	17:22:16	17:54:15	00:31:59	100
26-Aug	17:21:43	17:54:14	00:32:30	100
27-Aug	17:21:17	17:54:05	00:32:48	100
28-Aug	17:20:58	17:53:48	00:32:50	100
29-Aug	17:20:46	17:53:23	00:32:38	100
30-Aug	17:20:41	17:52:50	00:32:09	100
31-Aug	17:20:45	17:52:08	00:31:23	100
01-Sep	17:20:57	17:51:17	00:30:20	100
02-Sep	17:21:19	17:50:15	00:28:56	100
03-Sep	17:21:52	17:49:00	00:27:08	100
04-Sep	17:22:40	17:47:31	00:24:52	100
05-Sep	17:23:46	17:45:42	00:21:57	100
06-Sep	17:25:20	17:43:25	00:18:05	100
07-Sep	17:27:47	17:40:16	00:12:30	58.25

Shadow Flicker Dates and Times for Dwelling 41 - Turbine 16

Date	Start Time	End Time	Duration	% Cover
10-Mar	16:32:53	16:46:17	00:13:24	51.4
11-Mar	16:29:02	16:49:36	00:20:33	100
12-Mar	16:26:20	16:51:46	00:25:26	100
13-Mar	16:24:11	16:53:24	00:29:12	100
14-Mar	16:22:24	16:54:39	00:32:15	100
15-Mar	16:20:53	16:55:37	00:34:44	100
16-Mar	16:19:35	16:56:22	00:36:48	100
17-Mar	16:18:27	16:56:56	00:38:29	100
18-Mar	16:17:29	16:57:20	00:39:51	100
19-Mar	16:16:39	16:57:35	00:40:56	100
20-Mar	16:15:57	16:57:42	00:41:44	100
21-Mar	16:15:23	16:57:41	00:42:18	100
22-Mar	16:14:56	16:57:33	00:42:37	100
23-Mar	16:14:35	16:57:17	00:42:42	100
24-Mar	16:14:22	16:56:55	00:42:33	100
25-Mar	16:14:16	16:56:25	00:42:09	100
26-Mar	16:14:17	16:55:49	00:41:32	100
27-Mar	16:14:24	16:55:04	00:40:41	100
28-Mar	16:14:39	16:54:12	00:39:34	100
29-Mar	16:15:02	16:53:11	00:38:09	100
30-Mar	16:15:35	16:52:01	00:36:26	100
31-Mar	16:16:19	16:50:40	00:34:21	100

Date	Start Time	End Time	Duration	% Cover
01-Apr	16:17:15	16:49:08	00:31:53	100
02-Apr	16:18:28	16:47:20	00:28:52	100
03-Apr	16:20:02	16:45:11	00:25:09	100
04-Apr	16:22:09	16:42:29	00:20:20	100
05-Apr	16:25:23	16:38:41	00:13:18	49.86
05-Sep	16:24:26	16:31:44	00:07:18	14.59
06-Sep	16:19:09	16:36:19	00:17:10	83.93
07-Sep	16:15:59	16:38:47	00:22:48	100
08-Sep	16:13:34	16:40:31	00:26:58	100
09-Sep	16:11:33	16:41:50	00:30:17	100
10-Sep	16:09:50	16:42:50	00:32:59	100
11-Sep	16:08:21	16:43:37	00:35:16	100
12-Sep	16:07:04	16:44:14	00:37:10	100
13-Sep	16:05:56	16:44:40	00:38:44	100
14-Sep	16:04:57	16:44:57	00:40:01	100
15-Sep	16:04:05	16:45:06	00:41:01	100
16-Sep	16:03:22	16:45:08	00:41:46	100
17-Sep	16:02:44	16:45:03	00:42:19	100
18-Sep	16:02:12	16:44:50	00:42:38	100
19-Sep	16:01:48	16:44:31	00:42:43	100
20-Sep	16:01:31	16:44:05	00:42:34	100
21-Sep	16:01:20	16:43:32	00:42:12	100

Date	Start Time	End Time	Duration	% Cover
22-Sep	16:01:17	16:42:52	00:41:35	100
23-Sep	16:01:21	16:42:05	00:40:44	100
24-Sep	16:01:34	16:41:10	00:39:37	100
25-Sep	16:01:55	16:40:07	00:38:12	100
26-Sep	16:02:25	16:38:54	00:36:29	100
27-Sep	16:03:07	16:37:30	00:34:23	100
28-Sep	16:04:02	16:35:54	00:31:51	100
29-Sep	16:05:14	16:34:00	00:28:46	100
30-Sep	16:06:48	16:31:44	00:24:56	100
01-Oct	16:08:57	16:28:56	00:19:59	100
02-Oct	16:12:20	16:24:56	00:12:36	44.88

Shadow Flicker Dates and Times for Dwelling 41 – Turbine 17

Date	Start Time	End Time	Duration	% Cover
03-Feb	14:59:36	15:00:45	00:01:08	100
04-Feb	14:58:54	15:07:09	00:08:15	100
05-Feb	14:58:18	15:13:53	00:15:35	100
06-Feb	14:57:49	15:20:59	00:23:10	100
07-Feb	14:57:25	15:28:28	00:31:03	100
08-Feb	14:57:07	15:31:38	00:34:31	100
09-Feb	14:56:55	15:31:54	00:34:59	100
10-Feb	14:56:48	15:32:03	00:35:15	100
11-Feb	14:56:46	15:32:05	00:35:19	100
12-Feb	14:56:50	15:31:59	00:35:10	100

Date	Start Time	End Time	Duration	% Cover
13-Feb	14:56:59	15:31:47	00:34:47	100
14-Feb	14:57:16	15:31:27	00:34:11	100
15-Feb	14:57:37	15:30:58	00:33:21	100
16-Feb	14:58:06	15:30:20	00:32:14	100
17-Feb	14:58:43	15:29:33	00:30:50	100
18-Feb	14:59:30	15:28:34	00:29:05	100
19-Feb	15:00:29	15:27:23	00:26:54	100
20-Feb	15:01:44	15:25:54	00:24:10	100
21-Feb	15:03:21	15:24:02	00:20:41	100
22-Feb	15:05:36	15:21:30	00:15:55	90.62
23-Feb	15:09:30	15:17:18	00:07:48	20.92
17-Oct	14:43:57	14:46:59	00:03:03	3.15
18-Oct	14:38:09	14:52:25	00:14:16	71.52
19-Oct	14:35:21	14:54:52	00:19:30	100
20-Oct	14:33:19	14:56:34	00:23:15	100
21-Oct	14:31:43	14:57:51	00:26:08	100
22-Oct	14:30:25	14:58:52	00:28:26	100
23-Oct	14:29:22	14:59:39	00:30:18	100
24-Oct	14:28:30	15:00:17	00:31:48	100
25-Oct	14:27:47	15:00:47	00:32:59	100
26-Oct	14:27:14	15:01:09	00:33:55	100
27-Oct	14:26:48	15:01:24	00:34:36	100

Date	Start Time	End Time	Duration	% Cover
28-Oct	14:26:30	15:01:33	00:35:03	100
29-Oct	14:26:18	15:01:36	00:35:17	100
30-Oct	14:26:14	15:01:33	00:35:19	100
31-Oct	14:26:16	15:01:25	00:35:09	100
01-Nov	14:26:26	15:01:11	00:34:46	100
02-Nov	14:26:42	15:00:49	00:34:07	100
03-Nov	14:27:05	14:53:54	00:26:49	100
04-Nov	14:27:35	14:46:49	00:19:14	100
05-Nov	14:28:13	14:40:08	00:11:55	100
06-Nov	14:28:59	14:33:48	00:04:49	100

Shadow Flicker Dates and Times for Dwelling 41 - Turbine 18

Dwelling 42

Date	Start Time	End Time	Duration	% Cover
06-Apr	17:29:52	17:42:01	00:12:08	48.71
07-Apr	17:26:22	17:44:58	00:18:36	100
08-Apr	17:23:56	17:46:54	00:22:58	100
09-Apr	17:22:01	17:48:18	00:26:17	100
10-Apr	17:20:26	17:49:22	00:28:56	100
11-Apr	17:19:08	17:50:11	00:31:03	100
12-Apr	17:18:01	17:50:48	00:32:47	100
13-Apr	17:17:05	17:51:14	00:34:09	100
14-Apr	17:16:18	17:51:32	00:35:14	100
15-Apr	17:15:40	17:51:42	00:36:02	100

Date	Start Time	End Time	Duration	% Cover
16-Apr	17:15:09	17:51:45	00:36:36	100
17-Apr	17:14:46	17:51:41	00:36:56	100
18-Apr	17:14:29	17:51:31	00:37:02	100
19-Apr	17:14:20	17:51:15	00:36:55	100
20-Apr	17:14:17	17:50:53	00:36:36	100
21-Apr	17:14:21	17:50:25	00:36:04	100
22-Apr	17:14:31	17:49:50	00:35:20	100
23-Apr	17:14:48	17:49:09	00:34:22	100
24-Apr	17:15:13	17:48:22	00:33:09	100
25-Apr	17:15:46	17:47:26	00:31:41	100
26-Apr	17:16:28	17:46:22	00:29:54	100
27-Apr	17:17:21	17:45:09	00:27:48	100
28-Apr	17:18:27	17:43:45	00:25:18	100
29-Apr	17:19:50	17:42:04	00:22:15	100
30-Apr	17:21:37	17:40:01	00:18:24	100
01-May	17:24:09	17:37:13	00:13:04	53.14
10-Aug	17:32:39	17:45:19	00:12:40	49.44
11-Aug	17:29:48	17:47:52	00:18:04	100
12-Aug	17:27:42	17:49:39	00:21:57	100
13-Aug	17:25:59	17:51:01	00:25:02	100
14-Aug	17:24:33	17:52:06	00:27:33	100
15-Aug	17:23:18	17:52:58	00:29:40	100

Date	Start Time	End Time	Duration	% Cover
16-Aug	17:22:13	17:53:40	00:31:28	100
17-Aug	17:21:16	17:54:13	00:32:57	100
18-Aug	17:20:26	17:54:38	00:34:11	100
19-Aug	17:19:43	17:54:54	00:35:11	100
20-Aug	17:19:06	17:55:04	00:35:58	100
21-Aug	17:18:35	17:55:06	00:36:31	100
22-Aug	17:18:09	17:55:02	00:36:53	100
23-Aug	17:17:48	17:54:50	00:37:02	100
24-Aug	17:17:33	17:54:32	00:36:59	100
25-Aug	17:17:24	17:54:07	00:36:43	100
26-Aug	17:17:21	17:53:35	00:36:14	100
27-Aug	17:17:25	17:52:56	00:35:30	100
28-Aug	17:17:37	17:52:08	00:34:31	100
29-Aug	17:17:56	17:51:11	00:33:15	100
30-Aug	17:18:24	17:50:05	00:31:40	100
31-Aug	17:19:03	17:48:46	00:29:43	100
01-Sep	17:19:55	17:47:14	00:27:19	100
02-Sep	17:21:05	17:45:23	00:24:19	100
03-Sep	17:22:39	17:43:06	00:20:27	100
04-Sep	17:24:57	17:40:07	00:15:09	76.57
05-Sep	17:29:46	17:34:37	00:04:51	7.54

Shadow Flicker Dates and Times for Dwelling 42 – Turbine 16

Date	Start Time	End Time	Duration	% Cover
09-Mar	16:18:24	16:30:10	00:11:46	33.8
10-Mar	16:13:41	16:34:22	00:20:41	100
11-Mar	16:10:32	16:36:58	00:26:26	100
12-Mar	16:08:04	16:38:56	00:30:52	100
13-Mar	16:06:00	16:40:28	00:34:28	100
14-Mar	16:04:14	16:41:42	00:37:28	100
15-Mar	16:02:42	16:42:41	00:39:59	100
16-Mar	16:01:21	16:43:29	00:42:08	100
17-Mar	16:00:10	16:44:06	00:43:57	100
18-Mar	15:59:07	16:44:35	00:45:28	100
19-Mar	15:58:12	16:44:55	00:46:44	100
20-Mar	15:57:24	16:45:08	00:47:45	100
21-Mar	15:56:42	16:45:15	00:48:32	100
22-Mar	15:56:07	16:45:14	00:49:07	100
23-Mar	15:55:39	16:45:07	00:49:29	100
24-Mar	15:55:16	16:44:54	00:49:39	100
25-Mar	15:54:59	16:44:35	00:49:36	100
26-Mar	15:54:48	16:44:10	00:49:22	100
27-Mar	15:54:44	16:43:39	00:48:56	100
28-Mar	15:54:45	16:43:02	00:48:17	100
29-Mar	15:54:52	16:42:19	00:47:27	100
30-Mar	15:55:05	16:41:28	00:46:23	100

Date	Start Time	End Time	Duration	% Cover
31-Mar	15:55:25	16:40:31	00:45:06	100
01-Apr	15:55:53	16:39:26	00:43:33	100
02-Apr	15:56:30	16:38:13	00:41:43	100
03-Apr	15:57:16	16:36:51	00:39:35	100
04-Apr	15:58:13	16:35:19	00:37:06	100
05-Apr	15:59:23	16:33:34	00:34:11	100
06-Apr	16:00:51	16:31:32	00:30:42	100
07-Apr	16:02:41	16:29:08	00:26:26	100
08-Apr	16:05:09	16:26:07	00:20:57	100
09-Apr	16:08:59	16:21:44	00:12:45	38.85
01-Sep	16:11:07	16:16:35	00:05:29	7.02
02-Sep	16:04:43	16:22:20	00:17:37	74.87
03-Sep	16:01:13	16:25:11	00:23:58	100
04-Sep	15:58:31	16:27:12	00:28:41	100
05-Sep	15:56:18	16:28:45	00:32:28	100
06-Sep	15:54:23	16:29:59	00:35:36	100
07-Sep	15:52:42	16:30:58	00:38:17	100
08-Sep	15:51:13	16:31:46	00:40:34	100
09-Sep	15:49:53	16:32:25	00:42:32	100
10-Sep	15:48:42	16:32:55	00:44:13	100
11-Sep	15:47:39	16:33:17	00:45:38	100
12-Sep	15:46:42	16:33:32	00:46:49	100

Date	Start Time	End Time	Duration	% Cover
13-Sep	15:45:53	16:33:39	00:47:47	100
14-Sep	15:45:09	16:33:41	00:48:32	100
15-Sep	15:44:30	16:33:36	00:49:06	100
16-Sep	15:43:57	16:33:26	00:49:29	100
17-Sep	15:43:30	16:33:09	00:49:39	100
18-Sep	15:43:09	16:32:47	00:49:38	100
19-Sep	15:42:53	16:32:18	00:49:25	100
20-Sep	15:42:44	16:31:44	00:49:00	100
21-Sep	15:42:41	16:31:04	00:48:23	100
22-Sep	15:42:44	16:30:18	00:47:34	100
23-Sep	15:42:54	16:29:25	00:46:31	100
24-Sep	15:43:12	16:28:25	00:45:13	100
25-Sep	15:43:37	16:27:17	00:43:40	100
26-Sep	15:44:11	16:26:01	00:41:50	100
27-Sep	15:44:55	16:24:35	00:39:40	100
28-Sep	15:45:50	16:22:58	00:37:08	100
29-Sep	15:47:00	16:21:07	00:34:07	100
30-Sep	15:48:28	16:18:58	00:30:30	100
01-Oct	15:50:21	16:16:24	00:26:03	100
02-Oct	15:52:56	16:13:12	00:20:16	100
03-Oct	15:57:10	16:08:20	00:11:10	30.11

Shadow Flicker Dates and Times for Dwelling 42 – Turbine 17

Date	Start Time	End Time	Duration	% Cover
02-Feb	14:33:16	14:38:52	00:05:36	100
03-Feb	14:32:57	14:45:59	00:13:03	100
04-Feb	14:32:42	14:53:30	00:20:48	100
05-Feb	14:32:31	15:01:24	00:28:53	100
06-Feb	14:32:25	15:09:44	00:37:19	100
07-Feb	14:32:23	15:10:58	00:38:35	100
08-Feb	14:32:25	15:11:00	00:38:35	100
09-Feb	14:32:32	15:10:56	00:38:24	100
10-Feb	14:32:44	15:10:46	00:38:01	100
11-Feb	14:33:02	15:10:28	00:37:27	100
12-Feb	14:33:24	15:10:04	00:36:40	100
13-Feb	14:33:52	15:09:31	00:35:40	100
14-Feb	14:34:26	15:08:51	00:34:24	100
15-Feb	14:35:09	15:08:01	00:32:52	100
16-Feb	14:36:01	15:07:01	00:30:59	100
17-Feb	14:37:05	15:05:47	00:28:43	100
18-Feb	14:38:23	15:04:17	00:25:54	100
19-Feb	14:40:03	15:02:25	00:22:22	100
20-Feb	14:42:16	14:59:58	00:17:41	100
21-Feb	14:45:48	14:56:11	00:10:23	34.16
19-Oct	14:19:15	14:25:35	00:06:21	12.51
20-Oct	14:14:22	14:30:08	00:15:45	80.01

Date	Start Time	End Time	Duration	% Cover
21-Oct	14:11:37	14:32:34	00:20:57	100
22-Oct	14:09:34	14:34:20	00:24:46	100
23-Oct	14:07:57	14:35:42	00:27:46	100
24-Oct	14:06:36	14:36:48	00:30:12	100
25-Oct	14:05:30	14:37:41	00:32:11	100
26-Oct	14:04:35	14:38:25	00:33:50	100
27-Oct	14:03:49	14:38:59	00:35:11	100
28-Oct	14:03:12	14:39:29	00:36:16	100
29-Oct	14:02:43	14:39:51	00:37:08	100
30-Oct	14:02:19	14:40:07	00:37:48	100
31-Oct	14:02:03	14:40:19	00:38:16	100
01-Nov	14:01:53	14:40:25	00:38:32	100
02-Nov	14:01:49	14:40:26	00:38:37	100
03-Nov	14:01:51	14:40:23	00:38:32	100
04-Nov	14:01:59	14:35:06	00:33:06	100
05-Nov	14:02:14	14:27:14	00:25:00	100
06-Nov	14:02:33	14:19:48	00:17:14	100
07-Nov	14:02:59	14:12:45	00:09:46	100
08-Nov	14:03:31	14:06:05	00:02:34	100

Shadow Flicker Dates and Times for Dwelling 42 – Turbine 18

Dwelling 43

Date	Start Time	End Time	Duration	% Cover
19-Apr	18:01:04	18:09:41	00:08:38	100
20-Apr	17:54:09	18:11:08	00:16:59	100
21-Apr	17:47:42	18:12:12	00:24:31	100
22-Apr	17:46:23	18:13:01	00:26:38	100
23-Apr	17:45:26	18:13:38	00:28:12	100
24-Apr	17:44:39	18:14:05	00:29:26	100
25-Apr	17:44:01	18:14:23	00:30:22	100
26-Apr	17:43:32	18:14:34	00:31:03	100
27-Apr	17:43:10	18:14:39	00:31:29	100
28-Apr	17:42:55	18:14:37	00:31:42	100
29-Apr	17:42:47	18:14:29	00:31:42	100
30-Apr	17:42:45	18:14:15	00:31:30	100
01-May	17:42:50	18:13:56	00:31:07	100
02-May	17:43:00	18:13:32	00:30:31	100
03-May	17:43:17	18:13:01	00:29:44	100
04-May	17:43:41	18:12:24	00:28:43	100
05-May	17:44:12	18:11:41	00:27:29	100
06-May	17:44:52	18:10:51	00:25:59	100
07-May	17:45:40	18:09:53	00:24:13	100
08-May	17:46:39	18:08:46	00:22:07	100
09-May	17:47:52	18:07:26	00:19:34	100
10-May	17:49:24	18:05:47	00:16:23	99.95

Date	Start Time	End Time	Duration	% Cover
11-May	17:51:30	18:03:37	00:12:07	52.63
12-May	17:55:23	17:59:39	00:04:16	6.28
30-Jul	18:04:54	18:10:25	00:05:32	10.55
31-Jul	18:01:21	18:13:54	00:12:33	56.33
01-Aug	17:59:15	18:15:54	00:16:39	100
02-Aug	17:57:38	18:17:23	00:19:45	100
03-Aug	17:56:19	18:18:34	00:22:14	100
04-Aug	17:55:12	18:19:31	00:24:18	100
05-Aug	17:54:15	18:20:18	00:26:03	100
06-Aug	17:53:25	18:20:56	00:27:31	100
07-Aug	17:52:41	18:21:26	00:28:45	100
08-Aug	17:52:04	18:21:49	00:29:44	100
09-Aug	17:51:33	18:22:04	00:30:32	100
10-Aug	17:51:06	18:22:13	00:31:07	100
11-Aug	17:50:45	18:22:15	00:31:30	100
12-Aug	17:50:28	18:22:11	00:31:43	100
13-Aug	17:50:17	18:22:00	00:31:43	100
14-Aug	17:50:11	18:21:42	00:31:31	100
15-Aug	17:50:11	18:21:18	00:31:07	100
16-Aug	17:50:17	18:20:45	00:30:28	100
17-Aug	17:50:31	18:20:05	00:29:34	100
18-Aug	17:50:52	18:19:16	00:28:24	100

Date	Start Time	End Time	Duration	% Cover
19-Aug	17:51:22	18:18:16	00:26:54	100
20-Aug	17:52:03	18:17:04	00:25:01	100
21-Aug	17:57:16	18:15:36	00:18:20	100
22-Aug	18:03:31	18:13:48	00:10:17	100
23-Aug	18:10:14	18:11:28	00:01:13	93.56

Shadow Flicker Dates and Times for Dwelling 43 - Turbine 17

Date	Start Time	End Time	Duration	% Cover
16-Mar	16:38:59	17:00:22	00:21:22	100
17-Mar	16:37:15	17:01:32	00:24:17	100
18-Mar	16:35:52	17:02:22	00:26:30	100
19-Mar	16:34:43	17:02:56	00:28:12	100
20-Mar	16:33:48	17:03:16	00:29:28	100
21-Mar	16:33:04	17:03:25	00:30:21	100
22-Mar	16:32:30	17:03:23	00:30:53	100
23-Mar	16:32:06	17:03:12	00:31:06	100
24-Mar	16:31:52	17:02:51	00:30:59	100
25-Mar	16:31:47	17:02:20	00:30:32	100
26-Mar	16:31:51	17:01:38	00:29:47	100
27-Mar	16:32:06	17:00:46	00:28:41	100
28-Mar	16:32:33	16:59:42	00:27:10	100
29-Mar	16:33:13	16:58:24	00:25:11	100
30-Mar	16:34:12	16:56:49	00:22:38	100
31-Mar	16:35:35	16:54:51	00:19:16	100

Date	Start Time	End Time	Duration	% Cover
01-Apr	16:37:38	16:52:12	00:14:33	85.01
02-Apr	16:41:43	16:47:32	00:05:49	12.89
09-Sep	16:32:59	16:43:50	00:10:51	45.55
10-Sep	16:29:37	16:46:30	00:16:53	100
11-Sep	16:27:17	16:48:07	00:20:50	100
12-Sep	16:25:28	16:49:14	00:23:46	100
13-Sep	16:23:59	16:50:01	00:26:02	100
14-Sep	16:22:45	16:50:33	00:27:48	100
15-Sep	16:21:44	16:50:52	00:29:08	100
16-Sep	16:20:54	16:51:00	00:30:06	100
17-Sep	16:20:14	16:50:58	00:30:44	100
18-Sep	16:19:42	16:50:46	00:31:04	100
19-Sep	16:19:20	16:50:25	00:31:05	100
20-Sep	16:19:07	16:49:54	00:30:47	100
21-Sep	16:19:04	16:49:14	00:30:10	100
22-Sep	16:19:11	16:48:23	00:29:12	100
23-Sep	16:19:30	16:47:22	00:27:52	100
24-Sep	16:20:02	16:46:07	00:26:05	100
25-Sep	16:20:50	16:44:36	00:23:46	100
26-Sep	16:21:59	16:42:43	00:20:43	100

Shadow Flicker Dates and Times for Dwelling 43 - Turbine 18

Dwelling 44

Date	Start Time	End Time	Duration	% Cover
16-May	18:08:28	18:11:18	00:02:50	100
17-May	18:05:43	18:11:11	00:05:28	100
18-May	18:03:06	18:11:02	00:07:56	100
19-May	18:00:38	18:10:52	00:10:13	100
20-May	17:58:19	18:10:39	00:12:21	100
21-May	17:56:06	18:10:26	00:14:19	100
22-May	17:54:02	18:10:11	00:16:09	100
23-May	17:52:04	18:09:54	00:17:50	100
24-May	17:50:14	18:09:36	00:19:22	100
25-May	17:48:30	18:09:17	00:20:48	100
26-May	17:46:52	18:08:58	00:22:05	100
27-May	17:45:21	18:08:37	00:23:16	100
28-May	17:43:55	18:08:15	00:24:19	100
29-May	17:42:35	18:07:52	00:25:16	100
30-May	17:41:21	18:07:29	00:26:08	100
31-May	17:40:12	18:07:05	00:26:53	100
01-Jun	17:39:08	18:06:41	00:27:33	100
02-Jun	17:38:09	18:06:17	00:28:08	100
03-Jun	17:37:28	18:05:52	00:28:23	100
04-Jun	17:38:14	18:05:27	00:27:13	100
05-Jun	17:38:40	18:05:01	00:26:21	100
06-Jun	17:39:26	18:04:36	00:25:10	100

Date	Start Time	End Time	Duration	% Cover
07-Jun	17:40:12	18:04:11	00:23:59	100
08-Jun	17:40:58	18:03:46	00:22:48	100
09-Jun	17:41:45	18:03:22	00:21:37	100
10-Jun	17:42:31	18:02:58	00:20:27	100
11-Jun	17:43:17	18:02:36	00:19:19	95.78
12-Jun	17:44:02	18:02:15	00:18:13	84.59
13-Jun	17:44:45	18:01:55	00:17:10	74.66
14-Jun	17:45:27	18:01:38	00:16:11	65.99
15-Jun	17:46:06	18:01:23	00:15:17	58.57
16-Jun	17:46:43	18:01:12	00:14:29	52.41
17-Jun	17:47:16	18:01:05	00:13:49	47.52
18-Jun	17:47:44	18:01:02	00:13:17	43.9
19-Jun	17:48:08	18:01:04	00:12:56	41.54
20-Jun	17:48:26	18:01:12	00:12:46	40.45
21-Jun	17:48:39	18:01:26	00:12:48	40.62
22-Jun	17:48:45	18:01:46	00:13:01	42.06
23-Jun	17:48:46	18:02:12	00:13:25	44.76
24-Jun	17:48:43	18:02:42	00:13:59	48.73
25-Jun	17:48:34	18:03:16	00:14:42	53.95
26-Jun	17:48:23	18:03:54	00:15:31	60.43
27-Jun	17:48:08	18:04:35	00:16:27	68.16
28-Jun	17:47:51	18:05:18	00:17:27	77.15

Date	Start Time	End Time	Duration	% Cover
29-Jun	17:47:31	18:06:02	00:18:31	87.38
30-Jun	17:47:11	18:06:48	00:19:37	98.86
01-Jul	17:46:49	18:07:34	00:20:46	100
02-Jul	17:46:26	18:08:21	00:21:56	100
03-Jul	17:46:02	18:09:08	00:23:06	100
04-Jul	17:45:38	18:09:55	00:24:17	100
05-Jul	17:45:14	18:10:42	00:25:28	100
06-Jul	17:44:49	18:11:28	00:26:39	100
07-Jul	17:44:43	18:12:13	00:27:30	100
08-Jul	17:44:26	18:12:57	00:28:31	100
09-Jul	17:45:40	18:13:41	00:28:01	100
10-Jul	17:46:57	18:14:23	00:27:25	100
11-Jul	17:48:19	18:15:03	00:26:44	100
12-Jul	17:49:45	18:15:43	00:25:58	100
13-Jul	17:51:16	18:16:21	00:25:06	100
14-Jul	17:52:50	18:16:58	00:24:08	100
15-Jul	17:54:30	18:17:33	00:23:03	100
16-Jul	17:56:15	18:18:06	00:21:52	100
17-Jul	17:58:04	18:18:38	00:20:34	100
18-Jul	17:59:59	18:19:07	00:19:08	100
19-Jul	18:01:59	18:19:34	00:17:34	100
20-Jul	18:04:05	18:19:58	00:15:53	100

Date	Start Time	End Time	Duration	% Cover
21-Jul	18:06:17	18:20:20	00:14:03	100
22-Jul	18:08:35	18:20:40	00:12:04	100
23-Jul	18:11:00	18:20:57	00:09:57	100
24-Jul	18:13:32	18:21:11	00:07:39	100
25-Jul	18:16:11	18:21:22	00:05:12	100
26-Jul	18:18:57	18:21:31	00:02:34	100

Shadow Flicker Dates and Times for Dwelling 44 – Turbine 17

Date	Start Time	End Time	Duration	% Cover
23-Mar	16:30:03	16:32:08	00:02:05	100
24-Mar	15:52:35	16:31:45	00:39:10	100
25-Mar	15:52:41	16:31:02	00:38:21	100
26-Mar	15:52:56	16:30:10	00:37:14	100
27-Mar	15:53:20	16:29:08	00:35:49	100
28-Mar	15:53:54	16:27:57	00:34:03	100
29-Mar	15:54:40	16:26:34	00:31:54	100
30-Mar	15:55:40	16:24:58	00:29:17	100
31-Mar	15:56:59	16:23:03	00:26:04	100
01-Apr	15:58:44	16:20:42	00:21:58	100
02-Apr	16:01:15	16:17:36	00:16:21	81.77
03-Apr	16:06:13	16:12:03	00:05:49	9.96
08-Sep	15:57:46	16:09:24	00:11:38	40.16
09-Sep	15:53:46	16:12:41	00:18:55	100
10-Sep	15:51:01	16:14:44	00:23:43	100

Date	Start Time	End Time	Duration	% Cover
11-Sep	15:48:50	16:16:12	00:27:23	100
12-Sep	15:47:00	16:17:19	00:30:18	100
13-Sep	15:45:27	16:18:09	00:32:42	100
14-Sep	15:44:07	16:18:48	00:34:41	100
15-Sep	15:42:57	16:19:16	00:36:18	100
16-Sep	15:41:57	16:19:34	00:37:36	100
17-Sep	15:41:06	16:19:43	00:38:37	100
18-Sep	15:40:22	16:19:44	00:39:22	100

Shadow Flicker Dates and Times for Dwelling 44 – Turbine 18

Dwelling 45

Date	Start Time	End Time	Duration	% Cover
30-May	18:56:54	18:57:45	00:00:51	100
31-May	18:55:36	18:57:48	00:02:13	100
01-Jun	18:54:23	18:57:50	00:03:28	100
02-Jun	18:53:15	18:57:52	00:04:37	100
03-Jun	18:52:13	18:57:52	00:05:39	100
04-Jun	18:51:16	18:57:53	00:06:37	100
05-Jun	18:50:24	18:57:53	00:07:29	100
06-Jun	18:49:37	18:57:53	00:08:16	100
07-Jun	18:48:54	18:57:53	00:08:58	100
08-Jun	18:48:16	18:57:53	00:09:37	100
09-Jun	18:47:43	18:57:53	00:10:10	100
10-Jun	18:47:14	18:57:54	00:10:41	100

Date	Start Time	End Time	Duration	% Cover
11-Jun	18:46:49	18:57:56	00:11:07	100
12-Jun	18:46:28	18:57:58	00:11:30	100
13-Jun	18:46:11	18:58:01	00:11:50	100
14-Jun	18:45:59	18:58:05	00:12:07	100
15-Jun	18:45:50	18:58:11	00:12:21	100
16-Jun	18:45:45	18:58:17	00:12:32	100
17-Jun	18:45:44	18:58:25	00:12:41	100
18-Jun	18:45:47	18:58:34	00:12:47	100
19-Jun	18:45:53	18:58:45	00:12:51	100
20-Jun	18:46:04	18:58:57	00:12:53	100
21-Jun	18:46:17	18:59:10	00:12:53	100
22-Jun	18:46:35	18:59:25	00:12:50	100
23-Jun	18:46:56	18:59:41	00:12:45	100
24-Jun	18:47:20	18:59:58	00:12:38	100
25-Jun	18:47:48	19:00:17	00:12:28	100
26-Jun	18:48:20	19:00:36	00:12:16	100
27-Jun	18:48:55	19:00:57	00:12:01	100
28-Jun	18:49:34	19:01:18	00:11:44	100
29-Jun	18:50:17	19:01:40	00:11:23	100
30-Jun	18:51:03	19:02:02	00:10:59	100
01-Jul	18:51:53	19:02:24	00:10:31	100
02-Jul	18:52:46	19:02:47	00:10:00	100

Date	Start Time	End Time	Duration	% Cover
03-Jul	18:53:44	19:03:09	00:09:25	100
04-Jul	18:54:45	19:03:31	00:08:46	100
05-Jul	18:55:50	19:03:52	00:08:02	100
06-Jul	18:56:59	19:04:13	00:07:14	100
07-Jul	18:58:13	19:04:33	00:06:20	100
08-Jul	18:59:31	19:04:52	00:05:21	100
09-Jul	19:00:52	19:05:10	00:04:17	100
10-Jul	19:02:19	19:05:26	00:03:07	100
11-Jul	19:03:50	19:05:41	00:01:51	100
12-Jul	19:05:26	19:05:54	00:00:28	100

Shadow Flicker Dates and Times for Dwelling 45 - Turbine 16

Date	Start Time	End Time	Duration	% Cover
14-May	18:25:39	18:26:52	00:01:13	100
15-May	18:22:41	18:27:06	00:04:25	100
16-May	18:19:52	18:27:16	00:07:24	100
17-May	18:17:12	18:27:24	00:10:12	100
18-May	18:14:40	18:27:30	00:12:49	100
19-May	18:12:17	18:27:33	00:15:16	100
20-May	18:10:02	18:27:35	00:17:32	100
21-May	18:07:55	18:27:34	00:19:40	100
22-May	18:05:54	18:27:32	00:21:38	100
23-May	18:04:01	18:27:29	00:23:28	100
24-May	18:02:14	18:27:24	00:25:10	100

Date	Start Time	End Time	Duration	% Cover
25-May	18:00:34	18:27:18	00:26:44	100
26-May	17:59:00	18:27:11	00:28:11	100
27-May	17:57:32	18:27:03	00:29:31	100
28-May	17:56:10	18:26:54	00:30:44	100
29-May	17:54:53	18:26:44	00:31:52	100
30-May	17:53:42	18:26:34	00:32:53	100
31-May	17:52:35	18:22:27	00:29:52	100
01-Jun	17:52:36	18:22:16	00:29:40	100
02-Jun	17:52:58	18:22:05	00:29:07	100
03-Jun	17:53:28	18:21:53	00:28:26	100
04-Jun	17:53:58	18:21:42	00:27:44	100
05-Jun	17:54:29	18:21:31	00:27:02	100
06-Jun	17:54:59	18:21:20	00:26:20	100
07-Jun	17:55:31	18:24:51	00:29:20	100
08-Jun	17:56:02	18:24:56	00:28:54	100
09-Jun	17:56:33	18:24:49	00:28:16	100
10-Jun	17:57:03	18:24:42	00:27:38	100
11-Jun	17:57:33	18:24:35	00:27:02	100
12-Jun	17:58:02	18:24:30	00:26:28	100
13-Jun	17:58:30	18:24:27	00:25:57	100
14-Jun	17:58:56	18:24:25	00:25:29	100
15-Jun	17:59:21	18:24:25	00:25:04	100

Date	Start Time	End Time	Duration	% Cover
16-Jun	17:59:44	18:24:27	00:24:43	100
17-Jun	18:00:06	18:24:32	00:24:26	100
18-Jun	18:00:25	18:24:38	00:24:13	100
19-Jun	18:00:42	18:24:47	00:24:05	100
20-Jun	18:00:57	18:24:58	00:24:01	100
21-Jun	18:01:10	18:25:12	00:24:01	100
22-Jun	18:01:21	18:25:28	00:24:07	100
23-Jun	18:01:29	18:25:46	00:24:17	100
24-Jun	18:01:35	18:26:06	00:24:31	100
25-Jun	18:01:39	18:26:28	00:24:49	100
26-Jun	18:01:41	18:26:52	00:25:11	100
27-Jun	18:01:41	18:27:18	00:25:37	100
28-Jun	18:01:39	18:27:45	00:26:06	100
29-Jun	18:01:36	18:28:14	00:26:38	100
30-Jun	18:01:31	18:28:43	00:27:13	100
01-Jul	18:01:25	18:29:14	00:27:49	100
02-Jul	18:01:17	18:29:44	00:28:27	100
03-Jul	18:01:09	18:30:15	00:29:06	100
04-Jul	18:01:00	18:26:51	00:25:51	100
05-Jul	18:00:50	18:27:22	00:26:32	100
06-Jul	18:00:40	18:27:54	00:27:14	100
07-Jul	18:00:30	18:28:25	00:27:55	100

Date	Start Time	End Time	Duration	% Cover
08-Jul	18:00:19	18:28:56	00:28:37	100
09-Jul	18:00:08	18:29:26	00:29:18	100
10-Jul	18:00:04	18:29:55	00:29:51	100
11-Jul	18:00:44	18:30:23	00:29:39	100
12-Jul	18:02:07	18:34:46	00:32:39	100
13-Jul	18:03:35	18:35:11	00:31:37	100
14-Jul	18:05:06	18:35:35	00:30:29	100
15-Jul	18:06:43	18:35:57	00:29:14	100
16-Jul	18:08:24	18:36:18	00:27:54	100
17-Jul	18:10:10	18:36:36	00:26:26	100
18-Jul	18:12:01	18:36:52	00:24:51	100
19-Jul	18:13:58	18:37:06	00:23:08	100
20-Jul	18:15:59	18:37:18	00:21:18	100
21-Jul	18:18:08	18:37:27	00:19:19	100
22-Jul	18:20:22	18:37:33	00:17:11	100
23-Jul	18:22:42	18:37:36	00:14:54	100
24-Jul	18:25:09	18:37:36	00:12:27	100
25-Jul	18:27:43	18:37:33	00:09:50	100
26-Jul	18:30:24	18:37:27	00:07:02	100
27-Jul	18:33:13	18:37:16	00:04:03	100
28-Jul	18:36:10	18:37:02	00:00:52	100

Shadow Flicker Dates and Times for Dwelling 45 – Turbine 17

Date	Start Time	End Time	Duration	% Cover
25-Mar	16:19:38	16:55:12	00:35:34	100
26-Mar	16:18:49	16:55:26	00:36:36	100
27-Mar	16:18:09	16:55:30	00:37:21	100
28-Mar	16:17:37	16:55:27	00:37:50	100
29-Mar	16:17:13	16:55:15	00:38:03	100
30-Mar	16:16:56	16:54:56	00:38:00	100
31-Mar	16:16:48	16:54:30	00:37:42	100
01-Apr	16:16:47	16:53:55	00:37:09	100
02-Apr	16:16:53	16:53:13	00:36:20	100
03-Apr	16:17:07	16:52:22	00:35:15	100
04-Apr	16:17:31	16:51:22	00:33:51	100
05-Apr	16:18:06	16:50:12	00:32:06	100
06-Apr	16:18:52	16:48:50	00:29:58	100
07-Apr	16:19:53	16:47:14	00:27:21	100
08-Apr	16:21:14	16:45:20	00:24:06	100
09-Apr	16:23:04	16:42:58	00:19:54	100
10-Apr	16:25:46	16:39:43	00:13:57	61.53
31-Aug	16:26:41	16:36:56	00:10:15	32.37
01-Sep	16:22:40	16:40:18	00:17:38	99.82
02-Sep	16:19:59	16:42:21	00:22:22	100
03-Sep	16:17:52	16:43:48	00:25:56	100
04-Sep	16:16:06	16:44:54	00:28:47	100

Date	Start Time	End Time	Duration	% Cover
05-Sep	16:14:37	16:45:43	00:31:06	100
06-Sep	16:13:20	16:46:21	00:33:01	100
07-Sep	16:12:13	16:46:47	00:34:34	100
08-Sep	16:11:16	16:47:04	00:35:48	100
09-Sep	16:10:27	16:47:12	00:36:45	100
10-Sep	16:09:46	16:47:11	00:37:25	100
11-Sep	16:09:11	16:47:03	00:37:52	100
12-Sep	16:08:43	16:46:47	00:38:04	100
13-Sep	16:08:23	16:46:24	00:38:01	100
14-Sep	16:08:11	16:45:53	00:37:42	100
15-Sep	16:08:06	16:45:14	00:37:09	100
16-Sep	16:08:09	16:44:27	00:36:19	100
17-Sep	16:20:58	16:43:32	00:22:33	100

Shadow Flicker Dates and Times for Dwelling 45 – Turbine 18

Dwelling 46

Date	Start Time	End Time	Duration	% Cover
23-May	18:28:12	18:28:58	00:00:46	100
24-May	18:26:10	18:29:03	00:02:53	100
25-May	18:24:16	18:29:07	00:04:51	100
26-May	18:22:29	18:29:10	00:06:42	100
27-May	18:20:48	18:29:12	00:08:25	100
28-May	18:19:13	18:29:13	00:10:00	100
29-May	18:17:45	18:29:14	00:11:29	100

Date	Start Time	End Time	Duration	% Cover
30-May	18:16:23	18:29:14	00:12:51	100
31-May	18:15:06	18:29:13	00:14:07	100
01-Jun	18:13:55	18:29:12	00:15:17	100
02-Jun	18:12:49	18:29:11	00:16:22	100
03-Jun	18:11:49	18:29:09	00:17:21	100
04-Jun	18:10:53	18:29:08	00:18:15	100
05-Jun	18:10:02	18:29:06	00:19:04	100
06-Jun	18:09:16	18:29:05	00:19:49	100
07-Jun	18:08:35	18:29:05	00:20:30	100
08-Jun	18:07:58	18:29:04	00:21:06	100
09-Jun	18:07:26	18:29:05	00:21:39	100
10-Jun	18:06:57	18:29:06	00:22:08	100
11-Jun	18:06:33	18:29:07	00:22:34	100
12-Jun	18:06:13	18:29:10	00:22:57	100
13-Jun	18:05:57	18:29:14	00:23:17	100
14-Jun	18:05:45	18:29:18	00:23:33	100
15-Jun	18:05:37	18:29:24	00:23:48	100
16-Jun	18:05:32	18:29:31	00:23:59	100
17-Jun	18:05:31	18:29:39	00:24:08	100
18-Jun	18:05:34	18:29:49	00:24:15	100
19-Jun	18:05:41	18:29:59	00:24:19	100
20-Jun	18:05:51	18:30:12	00:24:21	100

Date	Start Time	End Time	Duration	% Cover
21-Jun	18:06:05	18:30:25	00:24:21	100
22-Jun	18:06:22	18:30:40	00:24:18	100
23-Jun	18:06:42	18:30:56	00:24:13	100
24-Jun	18:07:07	18:31:12	00:24:06	100
25-Jun	18:07:34	18:31:31	00:23:56	100
26-Jun	18:08:06	18:31:50	00:23:44	100
27-Jun	18:08:40	18:32:09	00:23:29	100
28-Jun	18:09:19	18:32:30	00:23:11	100
29-Jun	18:10:00	18:32:51	00:22:51	100
30-Jun	18:10:46	18:33:13	00:22:27	100
01-Jul	18:11:35	18:33:35	00:22:01	100
02-Jul	18:12:27	18:33:58	00:21:31	100
03-Jul	18:13:23	18:34:20	00:20:57	100
04-Jul	18:14:23	18:34:43	00:20:19	100
05-Jul	18:15:27	18:35:05	00:19:38	100
06-Jul	18:16:35	18:35:27	00:18:52	100
07-Jul	18:17:47	18:35:48	00:18:01	100
08-Jul	18:19:03	18:36:09	00:17:06	100
09-Jul	18:20:23	18:36:29	00:16:06	100
10-Jul	18:21:47	18:36:48	00:15:01	100
11-Jul	18:23:16	18:37:06	00:13:50	100
12-Jul	18:24:50	18:37:23	00:12:33	100

Date	Start Time	End Time	Duration	% Cover
13-Jul	18:26:28	18:37:38	00:11:10	100
14-Jul	18:28:12	18:37:52	00:09:40	100
15-Jul	18:30:00	18:38:04	00:08:04	100
16-Jul	18:31:54	18:38:14	00:06:20	100
17-Jul	18:33:54	18:38:23	00:04:29	100
18-Jul	18:35:59	18:38:29	00:02:30	100
19-Jul	18:38:10	18:38:22	00:00:13	100

Shadow Flicker Dates and Times for Dwelling 46 – Turbine 17

Date	Start Time	End Time	Duration	% Cover
27-Mar	16:43:36	16:51:50	00:08:13	100
28-Mar	16:12:44	16:51:50	00:39:06	100
29-Mar	16:12:16	16:51:43	00:39:27	100
30-Mar	16:11:55	16:51:29	00:39:34	100
31-Mar	16:11:42	16:51:07	00:39:25	100
01-Apr	16:11:36	16:50:38	00:39:02	100
02-Apr	16:11:37	16:50:01	00:38:24	100
03-Apr	16:11:45	16:49:17	00:37:32	100
04-Apr	16:12:02	16:48:24	00:36:23	100
05-Apr	16:12:27	16:47:23	00:34:56	100
06-Apr	16:13:03	16:46:12	00:33:08	100
07-Apr	16:13:51	16:44:49	00:30:58	100
08-Apr	16:14:53	16:43:13	00:28:20	100
09-Apr	16:16:13	16:41:19	00:25:06	100

Date	Start Time	End Time	Duration	% Cover
10-Apr	16:18:01	16:38:59	00:20:58	100
11-Apr	16:20:36	16:35:52	00:15:16	70.99
12-Apr	16:26:26	16:29:31	00:03:05	2.8
30-Aug	16:21:54	16:33:51	00:11:57	42.49
31-Aug	16:18:10	16:36:58	00:18:48	100
01-Sep	16:15:32	16:38:57	00:23:25	100
02-Sep	16:13:27	16:40:24	00:26:58	100
03-Sep	16:11:41	16:41:30	00:29:48	100
04-Sep	16:10:12	16:42:20	00:32:09	100
05-Sep	16:08:54	16:42:59	00:34:05	100
06-Sep	16:07:46	16:43:27	00:35:41	100
07-Sep	16:06:47	16:43:46	00:36:58	100
08-Sep	16:05:57	16:43:55	00:37:58	100
09-Sep	16:05:14	16:43:57	00:38:43	100
10-Sep	16:04:37	16:43:51	00:39:14	100
11-Sep	16:04:07	16:43:38	00:39:31	100
12-Sep	16:03:44	16:43:18	00:39:34	100
13-Sep	16:03:28	16:42:50	00:39:22	100
14-Sep	16:12:01	16:42:15	00:30:14	100

Shadow Flicker Dates and Times for Dwelling 46 – Turbine 18

Dwelling 47

Date	Start Time	End Time	Duration	% Cover
26-May	18:30:26	18:32:33	00:02:07	100
27-May	18:28:42	18:32:39	00:03:57	100
28-May	18:27:06	18:32:44	00:05:39	100
29-May	18:25:35	18:32:49	00:07:14	100
30-May	18:24:11	18:32:53	00:08:42	100
31-May	18:22:52	18:32:56	00:10:04	100
01-Jun	18:21:39	18:32:58	00:11:19	100
02-Jun	18:20:32	18:33:01	00:12:29	100
03-Jun	18:19:29	18:33:03	00:13:33	100
04-Jun	18:18:32	18:33:04	00:14:32	100
05-Jun	18:17:40	18:33:06	00:15:26	100
06-Jun	18:16:53	18:33:08	00:16:16	100
07-Jun	18:16:10	18:33:11	00:17:00	100
08-Jun	18:15:32	18:33:13	00:17:41	100
09-Jun	18:14:59	18:33:16	00:18:18	100
10-Jun	18:14:29	18:33:20	00:18:50	100
11-Jun	18:14:04	18:33:24	00:19:19	100
12-Jun	18:13:44	18:33:29	00:19:45	100
13-Jun	18:13:27	18:33:34	00:20:07	100
14-Jun	18:13:14	18:33:41	00:20:26	100
15-Jun	18:13:05	18:33:48	00:20:43	100
16-Jun	18:13:00	18:33:56	00:20:56	100

Date	Start Time	End Time	Duration	% Cover
17-Jun	18:12:59	18:34:05	00:21:06	100
18-Jun	18:13:02	18:34:16	00:21:14	100
19-Jun	18:13:08	18:34:27	00:21:19	100
20-Jun	18:13:18	18:34:39	00:21:21	100
21-Jun	18:13:32	18:34:53	00:21:21	100
22-Jun	18:13:49	18:35:07	00:21:17	100
23-Jun	18:14:10	18:35:22	00:21:12	100
24-Jun	18:14:35	18:35:38	00:21:03	100
25-Jun	18:15:03	18:35:55	00:20:52	100
26-Jun	18:15:35	18:36:13	00:20:38	100
27-Jun	18:16:10	18:36:31	00:20:21	100
28-Jun	18:16:49	18:36:50	00:20:01	100
29-Jun	18:17:31	18:37:09	00:19:38	100
30-Jun	18:18:17	18:37:29	00:19:12	100
01-Jul	18:19:07	18:37:49	00:18:42	100
02-Jul	18:20:01	18:38:08	00:18:08	100
03-Jul	18:20:58	18:38:28	00:17:30	100
04-Jul	18:21:59	18:38:48	00:16:49	100
05-Jul	18:23:04	18:39:07	00:16:03	100
06-Jul	18:24:13	18:39:26	00:15:12	100
07-Jul	18:25:27	18:39:44	00:14:17	100
08-Jul	18:26:44	18:40:01	00:13:17	100

Date	Start Time	End Time	Duration	% Cover
09-Jul	18:28:06	18:40:18	00:12:12	100
10-Jul	18:29:32	18:40:33	00:11:01	100
11-Jul	18:31:03	18:40:48	00:09:45	100
12-Jul	18:32:39	18:41:01	00:08:22	100
13-Jul	18:34:19	18:41:12	00:06:53	100
14-Jul	18:36:05	18:41:22	00:05:17	100
15-Jul	18:37:56	18:41:30	00:03:34	100
16-Jul	18:39:52	18:41:36	00:01:44	100

Shadow Flicker Dates and Times for Dwelling 47 – Turbine 17

Date	Start Time	End Time	Duration	% Cover
29-Mar	16:27:33	16:55:42	00:28:08	100
30-Mar	16:16:54	16:55:43	00:38:49	100
31-Mar	16:16:25	16:55:36	00:39:11	100
01-Apr	16:16:04	16:55:23	00:39:19	100
02-Apr	16:15:50	16:55:02	00:39:12	100
03-Apr	16:15:44	16:54:34	00:38:50	100
04-Apr	16:15:44	16:53:58	00:38:14	100
05-Apr	16:15:52	16:53:15	00:37:23	100
06-Apr	16:16:08	16:52:24	00:36:16	100
07-Apr	16:16:32	16:51:24	00:34:51	100
08-Apr	16:17:07	16:50:14	00:33:07	100
09-Apr	16:17:54	16:48:54	00:31:00	100
10-Apr	16:18:54	16:47:21	00:28:27	100

Date	Start Time	End Time	Duration	% Cover
11-Apr	16:20:12	16:45:31	00:25:19	100
12-Apr	16:21:55	16:43:16	00:21:21	100
13-Apr	16:24:22	16:40:18	00:15:56	77.94
14-Apr	16:29:04	16:35:06	00:06:02	10.74
28-Aug	16:26:30	16:39:41	00:13:10	52.04
29-Aug	16:23:04	16:42:31	00:19:27	100
30-Aug	16:20:34	16:44:24	00:23:50	100
31-Aug	16:18:34	16:45:47	00:27:13	100
01-Sep	16:16:53	16:46:50	00:29:58	100
02-Sep	16:15:26	16:47:39	00:32:14	100
03-Sep	16:14:10	16:48:16	00:34:06	100
04-Sep	16:13:05	16:48:43	00:35:39	100
05-Sep	16:12:08	16:49:01	00:36:53	100
06-Sep	16:11:19	16:49:10	00:37:51	100
07-Sep	16:10:37	16:49:11	00:38:33	100
08-Sep	16:10:02	16:49:04	00:39:03	100
09-Sep	16:09:33	16:48:50	00:39:17	100
10-Sep	16:09:11	16:48:29	00:39:18	100
11-Sep	16:08:56	16:48:01	00:39:05	100
12-Sep	16:08:49	16:47:25	00:38:37	100
13-Sep	16:28:51	16:46:42	00:17:51	100

Shadow Flicker Dates and Times for Dwelling 47 – Turbine 18

Dwelling 48

Date	Start Time	End Time	Duration	% Cover
25-May	18:34:12	18:36:26	00:02:14	100
26-May	18:32:24	18:36:36	00:04:13	100
27-May	18:30:42	18:36:45	00:06:03	100
28-May	18:29:06	18:36:53	00:07:46	100
29-May	18:27:37	18:36:59	00:09:22	100
30-May	18:26:14	18:37:05	00:10:51	100
31-May	18:24:56	18:37:10	00:12:13	100
01-Jun	18:23:45	18:37:14	00:13:30	100
02-Jun	18:22:38	18:37:18	00:14:40	100
03-Jun	18:21:37	18:37:22	00:15:45	100
04-Jun	18:20:41	18:37:25	00:16:45	100
05-Jun	18:19:49	18:37:29	00:17:39	100
06-Jun	18:19:03	18:37:32	00:18:29	100
07-Jun	18:18:21	18:37:36	00:19:14	100
08-Jun	18:17:44	18:37:39	00:19:55	100
09-Jun	18:17:11	18:37:43	00:20:32	100
10-Jun	18:16:42	18:37:48	00:21:06	100
11-Jun	18:16:18	18:37:53	00:21:35	100
12-Jun	18:15:58	18:37:59	00:22:01	100
13-Jun	18:15:41	18:38:05	00:22:24	100
14-Jun	18:15:29	18:38:12	00:22:43	100
15-Jun	18:15:20	18:38:20	00:22:59	100

Date	Start Time	End Time	Duration	% Cover
16-Jun	18:15:16	18:38:29	00:23:13	100
17-Jun	18:15:15	18:38:38	00:23:23	100
18-Jun	18:15:18	18:38:49	00:23:31	100
19-Jun	18:15:24	18:39:00	00:23:36	100
20-Jun	18:15:34	18:39:13	00:23:38	100
21-Jun	18:15:48	18:39:26	00:23:38	100
22-Jun	18:16:05	18:39:40	00:23:35	100
23-Jun	18:16:26	18:39:55	00:23:29	100
24-Jun	18:16:50	18:40:11	00:23:21	100
25-Jun	18:17:18	18:40:28	00:23:09	100
26-Jun	18:17:50	18:40:45	00:22:55	100
27-Jun	18:18:25	18:41:02	00:22:38	100
28-Jun	18:19:03	18:41:21	00:22:17	100
29-Jun	18:19:45	18:41:39	00:21:54	100
30-Jun	18:20:31	18:41:58	00:21:27	100
01-Jul	18:21:20	18:42:17	00:20:56	100
02-Jul	18:22:13	18:42:35	00:20:22	100
03-Jul	18:23:10	18:42:54	00:19:44	100
04-Jul	18:24:10	18:43:12	00:19:02	100
05-Jul	18:25:15	18:43:30	00:18:16	100
06-Jul	18:26:23	18:43:48	00:17:25	100
07-Jul	18:27:35	18:44:04	00:16:29	100

Date	Start Time	End Time	Duration	% Cover
08-Jul	18:28:52	18:44:20	00:15:28	100
09-Jul	18:30:13	18:44:35	00:14:22	100
10-Jul	18:31:38	18:44:49	00:13:11	100
11-Jul	18:33:08	18:45:01	00:11:54	100
12-Jul	18:34:42	18:45:12	00:10:30	100
13-Jul	18:36:22	18:45:22	00:09:00	100
14-Jul	18:38:06	18:45:29	00:07:24	100
15-Jul	18:39:55	18:45:35	00:05:40	100
16-Jul	18:41:50	18:45:39	00:03:48	100
17-Jul	18:43:51	18:45:40	00:01:49	100

Shadow Flicker Dates and Times for Dwelling 48 - Turbine 17

Date	Start Time	End Time	Duration	% Cover
29-Mar	16:56:09	17:01:39	00:05:30	100
30-Mar	16:30:36	17:02:03	00:31:27	100
31-Mar	16:25:26	17:02:17	00:36:52	100
01-Apr	16:24:45	17:02:23	00:37:38	100
02-Apr	16:24:12	17:02:21	00:38:09	100
03-Apr	16:23:47	17:02:11	00:38:24	100
04-Apr	16:23:30	17:01:54	00:38:24	100
05-Apr	16:23:20	17:01:30	00:38:10	100
06-Apr	16:23:18	17:00:59	00:37:41	100
07-Apr	16:23:22	17:00:20	00:36:58	100
08-Apr	16:23:34	16:59:33	00:35:59	100

Date	Start Time	End Time	Duration	% Cover
09-Apr	16:23:55	16:58:38	00:34:44	100
10-Apr	16:24:25	16:57:34	00:33:09	100
11-Apr	16:25:06	16:56:20	00:31:13	100
12-Apr	16:26:00	16:54:54	00:28:54	100
13-Apr	16:27:10	16:53:13	00:26:03	100
14-Apr	16:28:41	16:51:11	00:22:30	100
15-Apr	16:30:47	16:48:36	00:17:50	100
16-Apr	16:34:07	16:44:47	00:10:40	34.72
25-Aug	16:38:30	16:45:06	00:06:36	13.04
26-Aug	16:33:37	16:49:26	00:15:49	77.68
27-Aug	16:30:44	16:51:44	00:21:01	100
28-Aug	16:28:31	16:53:22	00:24:51	100
29-Aug	16:26:42	16:54:35	00:27:53	100
30-Aug	16:25:09	16:55:31	00:30:22	100
31-Aug	16:23:50	16:56:15	00:32:25	100
01-Sep	16:22:40	16:56:47	00:34:07	100
02-Sep	16:21:40	16:57:09	00:35:29	100
03-Sep	16:20:49	16:57:23	00:36:34	100
04-Sep	16:20:04	16:57:28	00:37:24	100
05-Sep	16:19:27	16:57:25	00:37:58	100
06-Sep	16:18:56	16:57:15	00:38:20	100
07-Sep	16:18:31	16:56:58	00:38:27	100

Date	Start Time	End Time	Duration	% Cover
08-Sep	16:18:13	16:56:33	00:38:19	100
09-Sep	16:18:03	16:56:01	00:37:58	100
10-Sep	16:17:59	16:55:21	00:37:21	100
11-Sep	16:18:05	16:54:33	00:36:28	100
12-Sep	16:31:51	16:53:36	00:21:44	100

Shadow Flicker Dates and Times for Dwelling 48 - Turbine 18

Dwelling 49

Date	Start Time	End Time	Duration	% Cover
03-Jun	18:37:57	18:38:44	00:00:47	100
04-Jun	18:36:55	18:38:52	00:01:58	100
05-Jun	18:35:58	18:39:01	00:03:03	100
06-Jun	18:35:06	18:39:09	00:04:03	100
07-Jun	18:34:19	18:39:17	00:04:58	100
08-Jun	18:33:38	18:39:26	00:05:48	100
09-Jun	18:33:01	18:39:34	00:06:33	100
10-Jun	18:32:28	18:39:42	00:07:14	100
11-Jun	18:32:01	18:39:51	00:07:50	100
12-Jun	18:31:37	18:39:59	00:08:23	100
13-Jun	18:31:18	18:40:09	00:08:51	100
14-Jun	18:31:04	18:40:19	00:09:15	100
15-Jun	18:30:53	18:40:29	00:09:36	100
16-Jun	18:30:47	18:40:40	00:09:53	100
17-Jun	18:30:45	18:40:51	00:10:06	100

Date	Start Time	End Time	Duration	% Cover
18-Jun	18:30:46	18:41:02	00:10:16	100
19-Jun	18:30:52	18:41:15	00:10:22	100
20-Jun	18:31:02	18:41:27	00:10:25	100
21-Jun	18:31:16	18:41:40	00:10:25	100
22-Jun	18:31:33	18:41:54	00:10:21	100
23-Jun	18:31:55	18:42:08	00:10:13	100
24-Jun	18:32:20	18:42:23	00:10:02	100
25-Jun	18:32:50	18:42:38	00:09:48	100
26-Jun	18:33:23	18:42:53	00:09:30	100
27-Jun	18:33:59	18:43:08	00:09:08	100
28-Jun	18:34:41	18:43:24	00:08:43	100
29-Jun	18:35:26	18:43:39	00:08:14	100
30-Jun	18:36:14	18:43:54	00:07:40	100
01-Jul	18:37:07	18:44:10	00:07:03	100
02-Jul	18:38:04	18:44:24	00:06:21	100
03-Jul	18:39:05	18:44:39	00:05:34	100
04-Jul	18:40:10	18:44:53	00:04:43	100
05-Jul	18:41:19	18:45:06	00:03:47	100
06-Jul	18:42:32	18:45:18	00:02:46	100
07-Jul	18:43:50	18:45:30	00:01:40	100
08-Jul	18:45:13	18:45:40	00:00:28	100

Shadow Flicker Dates and Times for Dwelling 49 – Turbine 17

Date	Start Time	End Time	Duration	% Cover
31-Mar	16:56:40	16:59:27	00:02:47	100
01-Apr	16:34:52	16:59:37	00:24:45	100
02-Apr	16:20:38	16:59:40	00:39:01	100
03-Apr	16:20:09	16:59:34	00:39:26	100
04-Apr	16:19:47	16:59:22	00:39:35	100
05-Apr	16:19:32	16:59:03	00:39:31	100
06-Apr	16:19:25	16:58:37	00:39:12	100
07-Apr	16:19:24	16:58:04	00:38:40	100
08-Apr	16:19:30	16:57:23	00:37:54	100
09-Apr	16:19:44	16:56:36	00:36:52	100
10-Apr	16:20:06	16:55:40	00:35:33	100
11-Apr	16:20:38	16:54:35	00:33:57	100
12-Apr	16:21:20	16:53:19	00:31:59	100
13-Apr	16:22:15	16:51:53	00:29:39	100
14-Apr	16:23:25	16:50:13	00:26:48	100
15-Apr	16:24:56	16:48:12	00:23:17	100
16-Apr	16:26:59	16:45:40	00:18:42	100
17-Apr	16:30:08	16:42:03	00:11:56	42.17
24-Aug	16:34:41	16:43:13	00:08:32	21.19
25-Aug	16:30:16	16:47:05	00:16:48	85.3
26-Aug	16:27:28	16:49:19	00:21:51	100
27-Aug	16:25:18	16:50:56	00:25:38	100

Date	Start Time	End Time	Duration	% Cover
28-Aug	16:23:29	16:52:09	00:28:39	100
29-Aug	16:21:57	16:53:05	00:31:08	100
30-Aug	16:20:37	16:53:50	00:33:13	100
31-Aug	16:19:27	16:54:23	00:34:56	100
01-Sep	16:18:26	16:54:47	00:36:21	100
02-Sep	16:17:33	16:55:02	00:37:29	100
03-Sep	16:16:48	16:55:09	00:38:21	100
04-Sep	16:16:09	16:55:09	00:38:59	100
05-Sep	16:15:36	16:55:01	00:39:24	100
06-Sep	16:15:10	16:54:45	00:39:36	100
07-Sep	16:14:50	16:54:23	00:39:33	100
08-Sep	16:14:37	16:53:54	00:39:17	100
09-Sep	16:17:49	16:53:17	00:35:28	100
10-Sep	16:36:40	16:52:33	00:15:52	100

Shadow Flicker Dates and Times for Dwelling 49 - Turbine 18

Dwelling 50

Date	Start Time	End Time	Duration	% Cover
15-Jun	18:45:55	18:46:26	00:00:30	100
16-Jun	18:45:48	18:46:38	00:00:50	100
17-Jun	18:45:45	18:46:50	00:01:06	100
18-Jun	18:45:46	18:47:03	00:01:17	100
19-Jun	18:45:51	18:47:16	00:01:25	100
20-Jun	18:46:01	18:47:29	00:01:28	100

Date	Start Time	End Time	Duration	% Cover
21-Jun	18:46:15	18:47:42	00:01:27	100
22-Jun	18:46:33	18:47:56	00:01:23	100
23-Jun	18:46:55	18:48:09	00:01:14	100
24-Jun	18:47:21	18:48:22	00:01:01	100
25-Jun	18:47:51	18:48:36	00:00:45	100
26-Jun	18:48:25	18:48:38	00:00:13	100

Shadow Flicker Dates and Times for Dwelling 50 – Turbine 17

Date	Start Time	End Time	Duration	% Cover
03-Apr	16:49:08	17:04:09	00:15:01	100
04-Apr	16:32:39	17:04:20	00:31:41	100
05-Apr	16:25:11	17:04:22	00:39:12	100
06-Apr	16:24:41	17:04:18	00:39:36	100
07-Apr	16:24:20	17:04:07	00:39:47	100
08-Apr	16:24:05	17:03:48	00:39:43	100
09-Apr	16:23:57	17:03:24	00:39:26	100
10-Apr	16:23:56	17:02:52	00:38:56	100
11-Apr	16:24:02	17:02:14	00:38:12	100
12-Apr	16:24:15	17:01:28	00:37:14	100
13-Apr	16:24:36	17:00:35	00:35:59	100
14-Apr	16:25:06	16:59:34	00:34:28	100
15-Apr	16:25:46	16:58:23	00:32:37	100
16-Apr	16:26:37	16:57:02	00:30:25	100
17-Apr	16:27:42	16:55:29	00:27:46	100

Date	Start Time	End Time	Duration	% Cover
18-Apr	16:29:06	16:53:38	00:24:32	100
19-Apr	16:30:55	16:51:22	00:20:27	100
20-Apr	16:33:31	16:48:20	00:14:49	65.28
21-Apr	16:39:23	16:42:03	00:02:40	2.04
21-Aug	16:38:49	16:51:36	00:12:46	47.64
22-Aug	16:35:26	16:54:29	00:19:03	100
23-Aug	16:32:59	16:56:25	00:23:26	100
24-Aug	16:31:01	16:57:52	00:26:51	100
25-Aug	16:29:21	16:58:59	00:29:37	100
26-Aug	16:27:56	16:59:51	00:31:56	100
27-Aug	16:26:41	17:00:33	00:33:52	100
28-Aug	16:25:36	17:01:04	00:35:29	100
29-Aug	16:24:38	17:01:26	00:36:48	100
30-Aug	16:23:49	17:01:40	00:37:52	100
31-Aug	16:23:06	17:01:46	00:38:40	100
01-Sep	16:22:30	17:01:45	00:39:16	100
02-Sep	16:21:58	17:01:37	00:39:38	100
03-Sep	16:21:34	17:01:22	00:39:48	100
04-Sep	16:21:15	17:00:59	00:39:44	100
05-Sep	16:21:03	17:00:30	00:39:26	100
06-Sep	16:20:58	16:59:53	00:38:55	100
07-Sep	16:35:11	16:59:09	00:23:58	100

Date	Start Time	End Time	Duration	% Cover
08-Sep	16:51:51	16:58:17	00:06:26	100

Shadow Flicker Dates and Times for Dwelling 50 – Turbine 18

Dwelling 51

Date	Start Time	End Time	Duration	% Cover
05-Apr	16:53:59	17:09:49	00:15:51	100
06-Apr	16:39:42	17:10:09	00:30:28	100
07-Apr	16:32:05	17:10:21	00:38:16	100
08-Apr	16:31:28	17:10:25	00:38:57	100
09-Apr	16:30:59	17:10:22	00:39:23	100
10-Apr	16:30:37	17:10:12	00:39:36	100
11-Apr	16:30:22	17:09:56	00:39:35	100
12-Apr	16:30:13	17:09:33	00:39:20	100
13-Apr	16:30:12	17:09:04	00:38:52	100
14-Apr	16:30:16	17:08:29	00:38:12	100
15-Apr	16:30:28	17:07:47	00:37:18	100
16-Apr	16:30:48	17:06:57	00:36:09	100
17-Apr	16:31:16	17:05:59	00:34:44	100
18-Apr	16:31:53	17:04:54	00:33:01	100
19-Apr	16:32:41	17:03:38	00:30:58	100
20-Apr	16:33:41	17:02:12	00:28:31	100
21-Apr	16:34:57	17:00:31	00:25:34	100
22-Apr	16:36:35	16:58:29	00:21:55	100
23-Apr	16:38:47	16:55:54	00:17:07	87.99

Date	Start Time	End Time	Duration	% Cover
24-Apr	16:42:21	16:51:57	00:09:36	26.71
17-Aug	16:49:40	16:56:36	00:06:56	13.75
18-Aug	16:45:02	17:00:49	00:15:47	73.7
19-Aug	16:42:15	17:03:09	00:20:54	100
20-Aug	16:40:06	17:04:50	00:24:44	100
21-Aug	16:38:19	17:06:07	00:27:48	100
22-Aug	16:36:48	17:07:08	00:30:20	100
23-Aug	16:35:29	17:07:57	00:32:28	100
24-Aug	16:34:20	17:08:36	00:34:15	100
25-Aug	16:33:20	17:09:05	00:35:45	100
26-Aug	16:32:27	17:09:25	00:36:58	100
27-Aug	16:31:41	17:09:37	00:37:56	100
28-Aug	16:31:02	17:09:42	00:38:41	100
29-Aug	16:30:28	17:09:40	00:39:12	100
30-Aug	16:29:59	17:09:31	00:39:31	100
31-Aug	16:29:37	17:09:15	00:39:38	100
01-Sep	16:29:21	17:08:52	00:39:31	100
02-Sep	16:29:11	17:08:22	00:39:11	100
03-Sep	16:29:08	17:07:45	00:38:37	100
04-Sep	16:30:23	17:07:01	00:36:37	100
05-Sep	16:43:03	17:06:08	00:23:05	100
06-Sep	16:57:21	17:05:06	00:07:45	100

Shadow Flicker Dates and Times for Dwelling 51 - Turbine 18

Dwelling 52

Date	Start Time	End Time	Duration	% Cover
10-Apr	16:58:42	17:10:05	00:11:23	100
11-Apr	16:47:28	17:10:11	00:22:43	100
12-Apr	16:37:14	17:10:11	00:32:57	100
13-Apr	16:27:51	17:10:04	00:42:13	100
14-Apr	16:27:33	17:09:52	00:42:19	100
15-Apr	16:27:22	17:09:34	00:42:12	100
16-Apr	16:27:17	17:09:10	00:41:53	100
17-Apr	16:27:19	17:08:41	00:41:22	100
18-Apr	16:27:25	17:08:06	00:40:40	100
19-Apr	16:27:39	17:07:25	00:39:46	100
20-Apr	16:27:59	17:06:38	00:38:38	100
21-Apr	16:28:28	17:05:44	00:37:16	100
22-Apr	16:29:04	17:04:43	00:35:39	100
23-Apr	16:29:48	17:03:33	00:33:45	100
24-Apr	16:30:44	17:02:15	00:31:32	100
25-Apr	16:31:51	17:00:47	00:28:55	100
26-Apr	16:33:14	16:59:03	00:25:48	100
27-Apr	16:34:59	16:56:58	00:21:59	100
28-Apr	16:37:20	16:54:19	00:16:59	79.76
29-Apr	16:41:08	16:50:13	00:09:05	22.09
12-Aug	16:49:50	16:56:59	00:07:09	13.5
13-Aug	16:45:14	17:01:15	00:16:00	69.98

Date	Start Time	End Time	Duration	% Cover
14-Aug	16:42:27	17:03:40	00:21:13	100
15-Aug	16:40:17	17:05:27	00:25:10	100
16-Aug	16:38:30	17:06:51	00:28:21	100
17-Aug	16:36:57	17:07:58	00:31:01	100
18-Aug	16:35:36	17:08:53	00:33:17	100
19-Aug	16:34:25	17:09:39	00:35:14	100
20-Aug	16:33:22	17:10:16	00:36:54	100
21-Aug	16:32:25	17:10:44	00:38:19	100
22-Aug	16:31:35	17:11:05	00:39:29	100
23-Aug	16:30:52	17:11:18	00:40:27	100
24-Aug	16:30:14	17:11:25	00:41:12	100
25-Aug	16:29:41	17:11:26	00:41:45	100
26-Aug	16:29:12	17:11:20	00:42:08	100
27-Aug	16:28:49	17:11:08	00:42:19	100
28-Aug	16:28:31	17:10:50	00:42:19	100
29-Aug	16:33:51	17:10:25	00:36:34	100
30-Aug	16:43:02	17:09:54	00:26:52	100
31-Aug	16:53:06	17:09:16	00:16:10	100
01-Sep	17:04:12	17:08:31	00:04:19	100

Shadow Flicker Dates and Times for Dwelling 52 – Turbine 18

Dwelling 53

Date	Start Time	End Time	Duration	% Cover
15-Apr	17:04:04	17:11:53	00:07:48	100
16-Apr	16:54:57	17:11:45	00:16:48	100
17-Apr	16:46:30	17:11:32	00:25:02	100
18-Apr	16:38:39	17:11:15	00:32:35	100
19-Apr	16:31:22	17:10:52	00:39:30	100
20-Apr	16:27:24	17:10:23	00:42:59	100
21-Apr	16:27:31	17:09:50	00:42:19	100
22-Apr	16:27:45	17:09:11	00:41:26	100
23-Apr	16:28:05	17:08:27	00:40:22	100
24-Apr	16:28:32	17:07:37	00:39:05	100
25-Apr	16:29:06	17:06:40	00:37:34	100
26-Apr	16:29:48	17:05:37	00:35:49	100
27-Apr	16:30:39	17:04:26	00:33:47	100
28-Apr	16:31:40	17:03:06	00:31:26	100
29-Apr	16:32:53	17:01:36	00:28:42	100
30-Apr	16:34:22	16:59:50	00:25:28	100
01-May	16:36:13	16:57:43	00:21:30	100
02-May	16:38:42	16:54:59	00:16:17	69.48
03-May	16:42:53	16:50:34	00:07:41	15
08-Aug	16:52:27	16:58:39	00:06:12	9.67
09-Aug	16:47:37	17:03:13	00:15:36	63.11
10-Aug	16:44:48	17:05:45	00:20:57	100

Date	Start Time	End Time	Duration	% Cover
11-Aug	16:42:38	17:07:37	00:24:59	100
12-Aug	16:40:50	17:09:06	00:28:16	100
13-Aug	16:39:16	17:10:19	00:31:02	100
14-Aug	16:37:55	17:11:19	00:33:24	100
15-Aug	16:36:42	17:12:10	00:35:28	100
16-Aug	16:35:37	17:12:52	00:37:15	100
17-Aug	16:34:39	17:13:26	00:38:47	100
18-Aug	16:33:47	17:13:53	00:40:06	100
19-Aug	16:33:00	17:14:13	00:41:13	100
20-Aug	16:32:19	17:14:27	00:42:08	100
21-Aug	16:31:45	17:14:34	00:42:50	100
22-Aug	16:33:14	17:14:36	00:41:22	100
23-Aug	16:39:49	17:14:32	00:34:43	100
24-Aug	16:46:53	17:14:21	00:27:28	100
25-Aug	16:54:31	17:14:05	00:19:34	100
26-Aug	17:02:46	17:13:44	00:10:57	100
27-Aug	17:11:42	17:13:16	00:01:33	100

Shadow Flicker Dates and Times for Dwelling 53 – Turbine 18

Dwelling 54

Date	Start Time	End Time	Duration	% Cover
17-Apr	17:09:36	17:10:25	00:00:49	100
18-Apr	17:00:56	17:10:09	00:09:12	100
19-Apr	16:52:53	17:09:47	00:16:54	100

Date	Start Time	End Time	Duration	% Cover
20-Apr	16:45:22	17:09:21	00:23:58	100
21-Apr	16:38:21	17:08:49	00:30:28	100
22-Apr	16:31:47	17:08:12	00:36:25	100
23-Apr	16:25:43	17:07:30	00:41:47	100
24-Apr	16:26:02	17:06:43	00:40:41	100
25-Apr	16:26:33	17:05:50	00:39:16	100
26-Apr	16:27:12	17:04:50	00:37:38	100
27-Apr	16:27:58	17:03:43	00:35:45	100
28-Apr	16:28:53	17:02:28	00:33:35	100
29-Apr	16:29:59	17:01:05	00:31:05	100
30-Apr	16:31:18	16:59:29	00:28:11	100
01-May	16:32:55	16:57:37	00:24:43	100
02-May	16:34:56	16:55:21	00:20:26	100
03-May	16:37:43	16:52:21	00:14:38	53.98
04-May	16:44:20	16:45:31	00:01:10	0.34
08-Aug	16:46:54	17:00:48	00:13:54	48.3
09-Aug	16:43:47	17:03:39	00:19:53	100
10-Aug	16:41:27	17:05:42	00:24:14	100
11-Aug	16:39:33	17:07:18	00:27:45	100
12-Aug	16:37:55	17:08:36	00:30:41	100
13-Aug	16:36:29	17:09:42	00:33:13	100
14-Aug	16:35:13	17:10:36	00:35:23	100

Date	Start Time	End Time	Duration	% Cover
15-Aug	16:34:05	17:11:23	00:37:18	100
16-Aug	16:33:03	17:12:01	00:38:58	100
17-Aug	16:32:08	17:12:32	00:40:24	100
18-Aug	16:31:24	17:12:57	00:41:32	100
19-Aug	16:35:25	17:13:14	00:37:49	100
20-Aug	16:41:21	17:13:26	00:32:05	100
21-Aug	16:47:43	17:13:32	00:25:49	100
22-Aug	16:54:31	17:13:32	00:19:01	100
23-Aug	17:01:50	17:13:26	00:11:36	100
24-Aug	17:09:42	17:13:15	00:03:33	100

Shadow Flicker Dates and Times for Dwelling 54 - Turbine 18

Dwelling 55

Date	Start Time	End Time	Duration	% Cover
10-Apr	17:22:10	17:22:51	00:00:40	100
11-Apr	17:10:58	17:23:52	00:12:53	100
12-Apr	17:00:45	17:24:36	00:23:51	100
13-Apr	16:51:24	17:25:11	00:33:47	100
14-Apr	16:48:48	17:25:36	00:36:48	100
15-Apr	16:48:03	17:25:53	00:37:51	100
16-Apr	16:47:25	17:26:04	00:38:39	100
17-Apr	16:46:54	17:26:07	00:39:13	100
18-Apr	16:46:31	17:26:05	00:39:34	100
19-Apr	16:46:13	17:25:57	00:39:43	100

Date	Start Time	End Time	Duration	% Cover
20-Apr	16:46:03	17:25:43	00:39:41	100
21-Apr	16:45:58	17:25:24	00:39:26	100
22-Apr	16:45:59	17:24:59	00:39:00	100
23-Apr	16:46:06	17:24:29	00:38:23	100
24-Apr	16:46:19	17:23:53	00:37:34	100
25-Apr	16:46:38	17:23:11	00:36:33	100
26-Apr	16:47:05	17:22:23	00:35:18	100
27-Apr	16:47:40	17:21:29	00:33:49	100
28-Apr	16:48:22	17:20:26	00:32:04	100
29-Apr	16:49:15	17:19:16	00:30:01	100
30-Apr	16:50:18	17:17:56	00:27:38	100
01-May	16:51:36	17:16:23	00:24:47	100
02-May	16:53:13	17:14:31	00:21:19	100
03-May	16:55:19	17:12:11	00:16:52	83.31
04-May	16:58:32	17:08:46	00:10:14	29.68
07-Aug	17:07:51	17:17:31	00:09:39	26.21
08-Aug	17:04:20	17:20:48	00:16:28	78.85
09-Aug	17:01:56	17:22:55	00:20:59	100
10-Aug	17:00:03	17:24:32	00:24:28	100
11-Aug	16:58:28	17:25:48	00:27:20	100
12-Aug	16:57:06	17:26:51	00:29:45	100
13-Aug	16:55:54	17:27:43	00:31:49	100

Date	Start Time	End Time	Duration	% Cover
14-Aug	16:54:51	17:28:25	00:33:35	100
15-Aug	16:53:54	17:28:59	00:35:05	100
16-Aug	16:53:05	17:29:26	00:36:21	100
17-Aug	16:52:21	17:29:45	00:37:24	100
18-Aug	16:51:43	17:29:58	00:38:15	100
19-Aug	16:51:10	17:30:04	00:38:54	100
20-Aug	16:50:42	17:30:04	00:39:22	100
21-Aug	16:50:19	17:29:58	00:39:39	100
22-Aug	16:50:00	17:29:45	00:39:45	100
23-Aug	16:49:47	17:29:26	00:39:39	100
24-Aug	16:49:39	17:29:01	00:39:21	100
25-Aug	16:49:37	17:28:28	00:38:51	100
26-Aug	16:49:41	17:27:49	00:38:08	100
27-Aug	16:49:52	17:27:03	00:37:11	100
28-Aug	16:50:10	17:26:08	00:35:58	100
29-Aug	16:57:36	17:25:04	00:27:28	100
30-Aug	17:06:46	17:23:50	00:17:04	100
31-Aug	17:16:50	17:22:24	00:05:34	100

Shadow Flicker Dates and Times for Dwelling 55 - Turbine 18

Dwelling 58

Date	Start Time	End Time	Duration	% Cover
03-May	18:08:07	18:11:33	00:03:26	3.78
04-May	18:03:11	18:16:21	00:13:10	57.55

Date	Start Time	End Time	Duration	% Cover
05-May	18:00:44	18:18:41	00:17:57	100
06-May	17:58:57	18:20:22	00:21:24	100
07-May	17:57:33	18:21:42	00:24:09	100
08-May	17:56:24	18:22:48	00:26:24	100
09-May	17:55:27	18:23:43	00:28:16	100
10-May	17:54:39	18:24:29	00:29:50	100
11-May	17:53:59	18:25:08	00:31:09	100
12-May	17:53:26	18:25:41	00:32:15	100
13-May	17:52:59	18:26:09	00:33:10	100
14-May	17:52:37	18:26:33	00:33:56	100
15-May	17:52:20	18:26:53	00:34:32	100
16-May	17:52:08	18:27:09	00:35:01	100
17-May	17:51:59	18:27:22	00:35:23	100
18-May	17:51:55	18:27:33	00:35:38	100
19-May	17:51:53	18:27:41	00:35:47	100
20-May	17:51:55	18:27:46	00:35:51	100
21-May	17:52:00	18:27:50	00:35:49	100
22-May	17:52:08	18:27:51	00:35:43	100
23-May	17:52:18	18:27:51	00:35:32	100
24-May	17:52:31	18:27:49	00:35:19	100
25-May	17:52:45	18:27:46	00:35:01	100
26-May	17:53:02	18:27:42	00:34:40	100

Date	Start Time	End Time	Duration	% Cover
27-May	17:53:21	18:27:36	00:34:15	100
28-May	17:53:41	18:27:30	00:33:48	100
29-May	17:54:04	18:27:22	00:33:19	100
30-May	17:54:27	18:27:14	00:32:47	100
31-May	17:54:53	18:27:05	00:32:13	100
01-Jun	17:55:19	18:26:56	00:31:37	100
02-Jun	17:55:46	18:26:47	00:31:00	100
03-Jun	17:56:15	18:26:37	00:30:22	100
04-Jun	17:56:44	18:26:27	00:29:43	100
05-Jun	17:57:13	18:26:17	00:29:04	100
06-Jun	17:57:43	18:26:08	00:28:24	100
07-Jun	17:58:13	18:25:59	00:27:45	100
08-Jun	17:58:44	18:25:51	00:27:07	100
09-Jun	17:59:14	18:25:43	00:26:30	100
10-Jun	17:59:43	18:25:36	00:25:53	100
11-Jun	18:00:12	18:25:31	00:25:19	100
12-Jun	18:00:40	18:25:27	00:24:46	100
13-Jun	18:01:07	18:25:24	00:24:16	100
14-Jun	18:01:33	18:25:23	00:23:49	100
15-Jun	18:01:58	18:25:23	00:23:25	100
16-Jun	18:02:21	18:25:26	00:23:05	100
17-Jun	18:02:42	18:25:30	00:22:48	100

Date	Start Time	End Time	Duration	% Cover
18-Jun	18:03:01	18:25:37	00:22:35	100
19-Jun	18:03:19	18:25:46	00:22:27	100
20-Jun	18:03:34	18:25:57	00:22:23	100
21-Jun	18:03:46	18:26:10	00:22:24	100
22-Jun	18:03:57	18:26:26	00:22:29	100
23-Jun	18:04:05	18:26:44	00:22:39	100
24-Jun	18:04:12	18:27:04	00:22:53	100
25-Jun	18:04:16	18:27:26	00:23:11	100
26-Jun	18:04:18	18:27:50	00:23:32	100
27-Jun	18:04:18	18:28:15	00:23:57	100
28-Jun	18:04:17	18:28:42	00:24:25	100
29-Jun	18:04:14	18:29:10	00:24:56	100
30-Jun	18:04:10	18:29:39	00:25:29	100
01-Jul	18:04:04	18:30:08	00:26:04	100
02-Jul	18:03:58	18:30:38	00:26:40	100
03-Jul	18:03:51	18:31:09	00:27:18	100
04-Jul	18:03:43	18:31:39	00:27:56	100
05-Jul	18:03:34	18:32:10	00:28:36	100
06-Jul	18:03:25	18:32:40	00:29:15	100
07-Jul	18:03:16	18:33:10	00:29:54	100
08-Jul	18:03:06	18:33:39	00:30:33	100
09-Jul	18:02:57	18:34:07	00:31:10	100

Date	Start Time	End Time	Duration	% Cover
10-Jul	18:02:48	18:34:35	00:31:47	100
11-Jul	18:02:39	18:35:01	00:32:22	100
12-Jul	18:02:30	18:35:12	00:32:42	100
13-Jul	18:02:22	18:35:36	00:33:13	100
14-Jul	18:02:15	18:36:10	00:33:55	100
15-Jul	18:02:08	18:36:30	00:34:21	100
16-Jul	18:02:03	18:36:48	00:34:45	100
17-Jul	18:01:58	18:37:03	00:35:05	100
18-Jul	18:01:54	18:37:17	00:35:22	100
19-Jul	18:01:52	18:37:27	00:35:35	100
20-Jul	18:01:51	18:37:36	00:35:45	100
21-Jul	18:01:51	18:37:41	00:35:50	100
22-Jul	18:01:53	18:37:44	00:35:51	100
23-Jul	18:01:56	18:37:43	00:35:47	100
24-Jul	18:02:02	18:37:39	00:35:37	100
25-Jul	18:02:10	18:37:31	00:35:21	100
26-Jul	18:02:21	18:37:19	00:34:58	100
27-Jul	18:02:34	18:37:03	00:34:29	100
28-Jul	18:02:51	18:36:42	00:33:51	100
29-Jul	18:03:11	18:36:16	00:33:05	100
30-Jul	18:03:35	18:35:45	00:32:09	100
31-Jul	18:04:04	18:35:07	00:31:02	100

Date	Start Time	End Time	Duration	% Cover
01-Aug	18:04:39	18:34:22	00:29:43	100
02-Aug	18:05:20	18:33:29	00:28:09	100
03-Aug	18:06:10	18:32:26	00:26:17	100
04-Aug	18:07:10	18:31:11	00:24:02	100
05-Aug	18:08:24	18:29:41	00:21:17	100
06-Aug	18:09:59	18:27:49	00:17:50	100
07-Aug	18:12:13	18:25:17	00:13:04	56.26
08-Aug	18:16:57	18:20:13	00:03:16	3.4

Shadow Flicker Dates and Times for Dwelling 58 – Turbine 18

Dwelling 59

Date	Start Time	End Time	Duration	% Cover
10-May	18:12:32	18:19:03	00:06:30	12.59
11-May	18:08:56	18:22:49	00:13:53	60.13
12-May	18:06:35	18:25:02	00:18:27	100
13-May	18:04:57	18:26:42	00:21:45	100
14-May	18:03:40	18:28:03	00:24:23	100
15-May	18:02:36	18:29:12	00:26:37	100
16-May	18:01:42	18:30:12	00:28:30	100
17-May	18:00:58	18:31:04	00:30:06	100
18-May	18:00:20	18:31:49	00:31:29	100
19-May	17:59:48	18:32:29	00:32:41	100
20-May	17:59:22	18:33:05	00:33:43	100
21-May	17:59:00	18:33:37	00:34:37	100

Date	Start Time	End Time	Duration	% Cover
22-May	17:58:43	18:34:06	00:35:23	100
23-May	17:58:29	18:34:32	00:36:02	100
24-May	17:58:19	18:34:55	00:36:36	100
25-May	17:58:12	18:35:16	00:37:04	100
26-May	17:58:07	18:31:38	00:33:31	100
27-May	17:58:05	18:31:56	00:33:50	100
28-May	17:58:06	18:32:11	00:34:06	100
29-May	17:58:08	18:32:26	00:34:17	100
30-May	17:58:13	18:32:39	00:34:26	100
31-May	17:58:19	18:32:51	00:34:32	100
01-Jun	17:58:27	18:33:02	00:34:36	100
02-Jun	17:58:36	18:33:13	00:34:37	100
03-Jun	17:58:46	18:33:23	00:34:37	100
04-Jun	17:58:57	18:33:32	00:34:35	100
05-Jun	17:59:10	18:33:41	00:34:32	100
06-Jun	17:59:23	18:33:50	00:34:27	100
07-Jun	17:59:36	18:33:59	00:34:22	100
08-Jun	17:59:50	18:34:07	00:34:17	100
09-Jun	18:00:05	18:34:16	00:34:11	100
10-Jun	18:00:20	18:34:25	00:34:05	100
11-Jun	18:00:35	18:34:34	00:33:59	100
12-Jun	18:00:50	18:34:43	00:33:53	100

Date	Start Time	End Time	Duration	% Cover
13-Jun	18:01:05	18:34:52	00:33:47	100
14-Jun	18:01:20	18:35:02	00:33:42	100
15-Jun	18:01:35	18:35:12	00:33:37	100
16-Jun	18:01:50	18:35:23	00:33:33	100
17-Jun	18:02:05	18:35:34	00:33:30	100
18-Jun	18:02:19	18:35:46	00:33:27	100
19-Jun	18:02:33	18:35:58	00:33:26	100
20-Jun	18:02:46	18:36:11	00:33:25	100
21-Jun	18:02:59	18:36:24	00:33:25	100
22-Jun	18:03:12	18:36:38	00:33:26	100
23-Jun	18:03:24	18:36:52	00:33:28	100
24-Jun	18:03:36	18:37:07	00:33:31	100
25-Jun	18:03:47	18:37:21	00:33:35	100
26-Jun	18:03:58	18:37:36	00:33:39	100
27-Jun	18:04:08	18:37:52	00:33:44	100
28-Jun	18:04:18	18:38:07	00:33:49	100
29-Jun	18:04:27	18:38:22	00:33:55	100
30-Jun	18:04:36	18:38:37	00:34:01	100
01-Jul	18:04:45	18:38:52	00:34:07	100
02-Jul	18:04:53	18:39:06	00:34:13	100
03-Jul	18:05:02	18:39:21	00:34:19	100
04-Jul	18:05:10	18:39:34	00:34:24	100

Date	Start Time	End Time	Duration	% Cover
05-Jul	18:05:18	18:39:47	00:34:29	100
06-Jul	18:05:26	18:39:59	00:34:33	100
07-Jul	18:05:34	18:40:10	00:34:36	100
08-Jul	18:05:42	18:40:19	00:34:37	100
09-Jul	18:05:51	18:40:28	00:34:37	100
10-Jul	18:05:59	18:40:35	00:34:35	100
11-Jul	18:06:10	18:40:41	00:34:31	100
12-Jul	18:06:20	18:40:45	00:34:25	100
13-Jul	18:06:31	18:40:46	00:34:15	100
14-Jul	18:06:44	18:40:46	00:34:03	100
15-Jul	18:06:57	18:40:44	00:33:47	100
16-Jul	18:07:12	18:40:39	00:33:27	100
17-Jul	18:07:28	18:44:27	00:36:59	100
18-Jul	18:07:47	18:44:16	00:36:30	100
19-Jul	18:08:07	18:44:02	00:35:55	100
20-Jul	18:08:30	18:43:45	00:35:15	100
21-Jul	18:08:55	18:43:23	00:34:28	100
22-Jul	18:09:24	18:42:57	00:33:33	100
23-Jul	18:09:56	18:42:26	00:32:30	100
24-Jul	18:10:32	18:41:49	00:31:17	100
25-Jul	18:11:13	18:41:06	00:29:53	100
26-Jul	18:12:00	18:40:15	00:28:15	100

Date	Start Time	End Time	Duration	% Cover
27-Jul	18:12:55	18:39:15	00:26:20	100
28-Jul	18:13:59	18:38:04	00:24:05	100
29-Jul	18:15:16	18:36:40	00:21:24	100
30-Jul	18:16:53	18:34:55	00:18:02	100
31-Jul	18:19:16	18:32:33	00:13:18	55.15
01-Aug	18:23:05	18:28:21	00:05:16	8.2

Shadow Flicker Dates and Times for Dwelling 59 – Turbine 18

Dwelling 66

Date	Start Time	End Time	Duration	% Cover
14-Feb	09:09:00	09:17:41	00:08:41	16.16
15-Feb	09:03:41	09:22:54	00:19:13	81.3
16-Feb	09:00:29	09:25:58	00:25:29	100
17-Feb	08:57:59	09:28:16	00:30:17	100
18-Feb	08:55:54	09:30:08	00:34:14	100
19-Feb	08:54:08	09:31:41	00:37:33	100
20-Feb	08:52:35	09:32:59	00:40:25	100
21-Feb	08:51:12	09:34:06	00:42:53	100
22-Feb	08:49:59	09:35:02	00:45:03	100
23-Feb	08:48:54	09:35:50	00:46:56	100
24-Feb	08:47:56	09:36:29	00:48:34	100
25-Feb	08:47:04	09:37:02	00:49:59	100
26-Feb	08:46:18	09:37:29	00:51:11	100
27-Feb	08:45:37	09:37:48	00:52:11	100

Date	Start Time	End Time	Duration	% Cover
28-Feb	08:45:02	09:38:02	00:53:00	100
01-Mar	08:44:32	09:38:09	00:53:38	100
02-Mar	08:44:06	09:38:11	00:54:04	100
03-Mar	08:43:46	09:38:06	00:54:20	100
04-Mar	08:43:31	09:37:56	00:54:25	100
05-Mar	08:43:20	09:37:40	00:54:20	100
06-Mar	08:43:14	09:37:18	00:54:03	100
07-Mar	08:43:14	09:36:50	00:53:36	100
08-Mar	08:43:19	09:36:16	00:52:57	100
09-Mar	08:43:29	09:35:36	00:52:06	100
10-Mar	08:43:46	09:34:49	00:51:03	100
11-Mar	08:44:08	09:33:55	00:49:47	100
12-Mar	08:44:38	09:32:54	00:48:16	100
13-Mar	08:45:15	09:31:45	00:46:30	100
14-Mar	08:46:00	09:30:27	00:44:26	100
15-Mar	08:46:56	09:28:58	00:42:02	100
16-Mar	08:48:03	09:27:17	00:39:15	100
17-Mar	08:49:25	09:25:22	00:35:58	100
18-Mar	08:51:05	09:23:08	00:32:02	100
19-Mar	08:53:13	09:20:26	00:27:12	100
20-Mar	08:56:09	09:16:58	00:20:49	98.27
21-Mar	09:01:12	09:11:31	00:10:19	23.88

Date	Start Time	End Time	Duration	% Cover
22-Sep	08:43:06	09:00:45	00:17:40	69.54
23-Sep	08:39:04	09:03:59	00:24:56	100
24-Sep	08:36:04	09:06:15	00:30:12	100
25-Sep	08:33:36	09:07:59	00:34:24	100
26-Sep	08:31:30	09:09:23	00:37:52	100
27-Sep	08:29:41	09:10:31	00:40:50	100
28-Sep	08:28:04	09:11:26	00:43:22	100
29-Sep	08:26:38	09:12:11	00:45:33	100
30-Sep	08:25:22	09:12:47	00:47:26	100
01-Oct	08:24:13	09:13:16	00:49:03	100
02-Oct	08:23:12	09:13:38	00:50:25	100
03-Oct	08:22:19	09:13:53	00:51:34	100
04-Oct	08:21:31	09:14:02	00:52:31	100
05-Oct	08:20:50	09:14:06	00:53:16	100
06-Oct	08:20:15	09:14:05	00:53:49	100
07-Oct	08:19:46	09:13:58	00:54:12	100
08-Oct	08:19:23	09:13:47	00:54:24	100
09-Oct	08:19:05	09:13:31	00:54:25	100
10-Oct	08:18:53	09:13:10	00:54:17	100
11-Oct	08:18:47	09:12:45	00:53:57	100
12-Oct	08:18:47	09:12:14	00:53:28	100
13-Oct	08:18:52	09:11:39	00:52:47	100

Date	Start Time	End Time	Duration	% Cover
14-Oct	08:19:03	09:10:59	00:51:56	100
15-Oct	08:19:21	09:10:15	00:50:53	100
16-Oct	08:19:45	09:09:24	00:49:39	100
17-Oct	08:20:17	09:08:29	00:48:12	100
18-Oct	08:20:55	09:07:27	00:46:32	100
19-Oct	08:21:42	09:06:20	00:44:37	100
20-Oct	08:22:38	09:05:04	00:42:26	100
21-Oct	08:23:44	09:03:40	00:39:55	100
22-Oct	08:25:03	09:02:05	00:37:02	100
23-Oct	08:26:37	09:00:16	00:33:39	100
24-Oct	08:28:31	08:58:10	00:29:39	100
25-Oct	08:30:52	08:55:37	00:24:45	100
26-Oct	08:33:59	08:52:17	00:18:17	72.91
27-Oct	08:39:47	08:46:19	00:06:32	9.04

Shadow Flicker Dates and Times for Dwelling 66 – Turbine 7

Date	Start Time	End Time	Duration	% Cover
14-May	05:35:11	05:37:13	00:02:03	100
15-May	05:35:02	05:40:17	00:05:15	100
16-May	05:34:57	05:43:13	00:08:16	100
17-May	05:34:55	05:46:01	00:11:06	100
18-May	05:34:56	05:48:41	00:13:45	100
19-May	05:34:59	05:51:13	00:16:14	100
20-May	05:35:06	05:53:39	00:18:33	100

Date	Start Time	End Time	Duration	% Cover
21-May	05:35:15	05:55:58	00:20:43	100
22-May	05:35:26	05:58:11	00:22:45	100
23-May	05:35:40	06:00:18	00:24:38	100
24-May	05:35:56	06:02:19	00:26:23	100
25-May	05:36:13	06:04:14	00:28:00	100
26-May	05:36:33	06:06:04	00:29:31	100
27-May	05:36:54	06:07:49	00:30:55	100
28-May	05:37:17	06:09:29	00:32:12	100
29-May	05:37:41	06:11:05	00:33:23	100
30-May	05:38:06	06:12:35	00:34:29	100
31-May	05:38:33	06:12:40	00:34:07	100
01-Jun	05:39:00	06:11:28	00:32:27	100
02-Jun	05:39:28	06:12:46	00:33:17	100
03-Jun	05:39:57	06:13:59	00:34:03	100
04-Jun	05:40:26	06:15:10	00:34:44	100
05-Jun	05:40:56	06:16:16	00:35:20	100
06-Jun	05:41:25	06:16:34	00:35:09	100
07-Jun	05:41:55	06:16:47	00:34:52	100
08-Jun	05:42:25	06:16:42	00:34:17	100
09-Jun	05:42:54	06:16:37	00:33:44	100
10-Jun	05:43:22	06:16:34	00:33:12	100
11-Jun	05:43:50	06:16:31	00:32:41	100

Date	Start Time	End Time	Duration	% Cover
12-Jun	05:44:17	06:16:30	00:32:13	100
13-Jun	05:44:43	06:16:30	00:31:47	100
14-Jun	05:45:08	06:16:31	00:31:23	100
15-Jun	05:45:32	06:16:34	00:31:02	100
16-Jun	05:45:54	06:16:38	00:30:44	100
17-Jun	05:46:15	06:16:44	00:30:29	100
18-Jun	05:46:34	06:16:51	00:30:17	100
19-Jun	05:46:52	06:17:01	00:30:09	100
20-Jun	05:47:07	06:17:11	00:30:04	100
21-Jun	05:47:21	06:17:24	00:30:03	100
22-Jun	05:47:33	06:17:38	00:30:05	100
23-Jun	05:47:43	06:17:54	00:30:11	100
24-Jun	05:47:51	06:18:12	00:30:20	100
25-Jun	05:47:58	06:18:31	00:30:33	100
26-Jun	05:48:02	06:18:51	00:30:49	100
27-Jun	05:48:05	06:19:13	00:31:08	100
28-Jun	05:48:06	06:19:36	00:31:29	100
29-Jun	05:48:06	06:19:59	00:31:54	100
30-Jun	05:48:04	06:20:24	00:32:21	100
01-Jul	05:48:00	06:20:50	00:32:50	100
02-Jul	05:47:56	06:21:16	00:33:20	100
03-Jul	05:47:50	06:21:43	00:33:53	100

Date	Start Time	End Time	Duration	% Cover
04-Jul	05:47:43	06:22:10	00:34:26	100
05-Jul	05:47:36	06:22:36	00:35:00	100
06-Jul	05:47:27	06:22:45	00:35:18	100
07-Jul	05:47:18	06:22:32	00:35:14	100
08-Jul	05:47:09	06:21:45	00:34:36	100
09-Jul	05:46:59	06:20:53	00:33:55	100
10-Jul	05:46:48	06:19:57	00:33:08	100
11-Jul	05:46:38	06:18:56	00:32:18	100
12-Jul	05:46:28	06:21:46	00:35:18	100
13-Jul	05:46:17	06:20:35	00:34:17	100
14-Jul	05:46:07	06:19:18	00:33:11	100
15-Jul	05:45:57	06:17:56	00:31:59	100
16-Jul	05:45:48	06:16:29	00:30:41	100
17-Jul	05:45:39	06:14:55	00:29:16	100
18-Jul	05:45:31	06:13:16	00:27:44	100
19-Jul	05:45:24	06:11:30	00:26:06	100
20-Jul	05:45:18	06:09:37	00:24:20	100
21-Jul	05:45:12	06:07:38	00:22:26	100
22-Jul	05:45:08	06:05:32	00:20:24	100
23-Jul	05:45:05	06:03:18	00:18:13	100
24-Jul	05:45:04	06:00:57	00:15:53	100
25-Jul	05:45:04	05:58:27	00:13:23	100

Date	Start Time	End Time	Duration	% Cover
26-Jul	05:45:05	05:55:49	00:10:44	100
27-Jul	05:45:09	05:53:02	00:07:53	100
28-Jul	05:45:14	05:50:06	00:04:52	100
29-Jul	05:45:22	05:47:01	00:01:39	100

Shadow Flicker Dates and Times for Dwelling 66 – Turbine 8



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