



**FEHILY  
TIMONEY**

— 30 YEARS —

CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE & PLANNING

## **APPENDIX 12.1**

Shadow Flicker Modelling  
Input Data

Carlow County Council, Planning Authority, Viewing Purposes Only

Public Viewing Only

Appendix 12-1: Shadow Flicker Modelling Input Data

| Receptor ID | X Coord (IRENET95) | Y Coord (IRENET95) | Window ID | East Correction | North Correction | Window Width | Window Height | Window Centre Height | Tilt | Direction (°) |
|-------------|--------------------|--------------------|-----------|-----------------|------------------|--------------|---------------|----------------------|------|---------------|
| 1           | 682136             | 657373             | 1-1       | -2              | 11               | 10           | 2             | 1.1                  | 0    | 350           |
|             |                    |                    | 1-2       | 5               | 1                | 22           | 2             | 1.1                  | 0    | 80            |
|             |                    |                    | 1-3       | 2               | -11              | 10           | 2             | 1.1                  | 0    | 170           |
|             |                    |                    | 1-4       | -5              | -1               | 22           | 2             | 1.1                  | 0    | 260           |
| 2           | 685347             | 656174             | 2-1       | -7              | 6                | 11.8         | 2             | 1.1                  | 0    | 309           |
|             |                    |                    | 2-2       | 4               | 5                | 19           | 2             | 1.1                  | 0    | 39            |
|             |                    |                    | 2-3       | 7               | -6               | 11.8         | 2             | 1.1                  | 0    | 129           |
|             |                    |                    | 2-4       | -4              | -5               | 19           | 2             | 1.1                  | 0    | 219           |
| 3           | 685222             | 656218             | 3-1       | -5              | 8                | 9            | 2             | 1.1                  | 0    | 326           |
|             |                    |                    | 3-2       | 4               | 3                | 18.2         | 2             | 1.1                  | 0    | 56            |
|             |                    |                    | 3-3       | 5               | -8               | 9            | 2             | 1.1                  | 0    | 146           |
|             |                    |                    | 3-4       | -4              | -3               | 18.2         | 2             | 1.1                  | 0    | 236           |
| 4           | 685156             | 656264             | 4-1       | -6              | 6                | 8.9          | 2             | 1.1                  | 0    | 316           |
|             |                    |                    | 4-2       | 3               | 3                | 17.4         | 2             | 1.1                  | 0    | 46            |
|             |                    |                    | 4-3       | 6               | -6               | 8.9          | 2             | 1.1                  | 0    | 136           |
|             |                    |                    | 4-4       | -3              | -3               | 17.4         | 2             | 1.1                  | 0    | 226           |
| 5           | 682089             | 657011             | 5-1       | -7              | 3                | 22           | 2             | 1.1                  | 0    | 291           |
|             |                    |                    | 5-2       | 4               | 10               | 16           | 2             | 1.1                  | 0    | 21            |
|             |                    |                    | 5-3       | 7               | -3               | 22           | 2             | 1.1                  | 0    | 111           |
|             |                    |                    | 5-4       | -4              | -10              | 16           | 2             | 1.1                  | 0    | 201           |
| 6           | 685157             | 656089             | 6-1       | -9              | 5                | 14           | 2             | 1.1                  | 0    | 297           |
|             |                    |                    | 6-2       | 3               | 6                | 20           | 2             | 1.1                  | 0    | 27            |
|             |                    |                    | 6-3       | 9               | -5               | 14           | 2             | 1.1                  | 0    | 117           |
|             |                    |                    | 6-4       | -3              | -6               | 20           | 2             | 1.1                  | 0    | 207           |
| 7           | 685103             | 656117             | 7-1       | -6              | 3                | 12           | 2             | 1.1                  | 0    | 292           |
|             |                    |                    | 7-2       | 2               | 6                | 14           | 2             | 1.1                  | 0    | 22            |
|             |                    |                    | 7-3       | 6               | -3               | 12           | 2             | 1.1                  | 0    | 112           |
|             |                    |                    | 7-4       | -2              | -6               | 14           | 2             | 1.1                  | 0    | 202           |
| 8           | 682123             | 656623             | 8-1       | -4              | 1                | 15           | 2             | 1.1                  | 0    | 285           |
|             |                    |                    | 8-2       | 2               | 7                | 9            | 2             | 1.1                  | 0    | 15            |
|             |                    |                    | 8-3       | 4               | -1               | 15           | 2             | 1.1                  | 0    | 105           |
|             |                    |                    | 8-4       | -2              | -7               | 9            | 2             | 1.1                  | 0    | 195           |
| 9           | 682169             | 656565             | 9-1       | -4              | 0                | 13           | 2             | 1.1                  | 0    | 276           |
|             |                    |                    | 9-2       | 1               | 6                | 8            | 2             | 1.1                  | 0    | 6             |
|             |                    |                    | 9-3       | 4               | 0                | 13           | 2             | 1.1                  | 0    | 96            |
|             |                    |                    | 9-4       | -1              | -6               | 8            | 2             | 1.1                  | 0    | 186           |
| 10          | 682075             | 657254             | 10-1      | -3              | 0                | 14           | 2             | 1.1                  | 0    | 273           |
|             |                    |                    | 10-2      | 0               | 7                | 6            | 2             | 1.1                  | 0    | 3             |
|             |                    |                    | 10-3      | 3               | 0                | 14           | 2             | 1.1                  | 0    | 93            |
|             |                    |                    | 10-4      | 0               | -7               | 6            | 2             | 1.1                  | 0    | 183           |
| 11          | 682105             | 657303             | 11-1      | -7              | 1                | 17           | 2             | 1.1                  | 0    | 277           |
|             |                    |                    | 11-2      | 1               | 8                | 15           | 2             | 1.1                  | 0    | 7             |
|             |                    |                    | 11-3      | 7               | -1               | 17           | 2             | 1.1                  | 0    | 97            |
|             |                    |                    | 11-4      | -1              | -8               | 15           | 2             | 1.1                  | 0    | 187           |
| 12          | 682068             | 657451             | 12-1      | -1              | 5                | 6            | 2             | 1.1                  | 0    | 353           |
|             |                    |                    | 12-2      | 3               | 0                | 10.3         | 2             | 1.1                  | 0    | 83            |
|             |                    |                    | 12-3      | 1               | -5               | 6            | 2             | 1.1                  | 0    | 173           |

| Receptor ID | X Coord (IRENET95) | Y Coord (IRENET95) | Window ID | East Correction | North Correction | Window Width | Window Height | Window Centre Height | Tilt | Direction (°) |
|-------------|--------------------|--------------------|-----------|-----------------|------------------|--------------|---------------|----------------------|------|---------------|
|             |                    |                    | 12-4      | -3              | 0                | 10.3         | 2             | 1.1                  | 0    | 263           |
| 13          | 685632             | 656560             | 13-1      | -6              | 9                | 11           | 2             | 1.1                  | 0    | 327           |
|             |                    |                    | 13-2      | 5               | 3                | 22           | 2             | 1.1                  | 0    | 57            |
|             |                    |                    | 13-3      | 6               | -9               | 11           | 2             | 1.1                  | 0    | 147           |
|             |                    |                    | 13-4      | -5              | -3               | 22           | 2             | 1.1                  | 0    | 237           |
| 14          | 685362             | 656126             | 14-1      | -4              | 3                | 11           | 2             | 1.1                  | 0    | 300           |
|             |                    |                    | 14-2      | 3               | 5                | 10           | 2             | 1.1                  | 0    | 30            |
|             |                    |                    | 14-3      | 4               | -3               | 11           | 2             | 1.1                  | 0    | 120           |
|             |                    |                    | 14-4      | -3              | -5               | 10           | 2             | 1.1                  | 0    | 210           |
| 15          | 685088             | 656303             | 15-1      | -5              | 5                | 15           | 2             | 1.1                  | 0    | 320           |
|             |                    |                    | 15-2      | 6               | 5                | 14           | 2             | 1.1                  | 0    | 50            |
|             |                    |                    | 15-3      | 5               | -5               | 15           | 2             | 1.1                  | 0    | 140           |
|             |                    |                    | 15-4      | -6              | -5               | 14           | 2             | 1.1                  | 0    | 230           |
| 16          | 685451             | 658932             | 16-1      | -5              | 1                | 13           | 2             | 1.1                  | 0    | 277           |
|             |                    |                    | 16-2      | 1               | 6                | 11           | 2             | 1.1                  | 0    | 7             |
|             |                    |                    | 16-3      | 5               | -1               | 13           | 2             | 1.1                  | 0    | 97            |
|             |                    |                    | 16-4      | -1              | -6               | 11           | 2             | 1.1                  | 0    | 187           |
| 17          | 685780             | 658719             | 17-1      | -3              | 4                | 14           | 2             | 1.1                  | 0    | 320           |
|             |                    |                    | 17-2      | 5               | 5                | 10           | 2             | 1.1                  | 0    | 50            |
|             |                    |                    | 17-3      | 3               | -4               | 14           | 2             | 1.1                  | 0    | 140           |
|             |                    |                    | 17-4      | -5              | -5               | 10           | 2             | 1.1                  | 0    | 230           |
| 18          | 685764             | 658911             | 18-1      | -5              | 3                | 18           | 2             | 1.1                  | 0    | 299           |
|             |                    |                    | 18-2      | 4               | 8                | 11           | 2             | 1.1                  | 0    | 29            |
|             |                    |                    | 18-3      | 5               | -3               | 18           | 2             | 1.1                  | 0    | 119           |
|             |                    |                    | 18-4      | -4              | -8               | 11           | 2             | 1.1                  | 0    | 209           |
| 19          | 685595             | 658898             | 19-1      | -4              | 2                | 18           | 2             | 1.1                  | 0    | 298           |
|             |                    |                    | 19-2      | 4               | 8                | 10           | 2             | 1.1                  | 0    | 28            |
|             |                    |                    | 19-3      | 4               | -2               | 18           | 2             | 1.1                  | 0    | 118           |
|             |                    |                    | 19-4      | -4              | -8               | 10           | 2             | 1.1                  | 0    | 208           |
| 20          | 685369             | 658951             | 20-1      | -5              | 4                | 12           | 2             | 1.1                  | 0    | 311           |
|             |                    |                    | 20-2      | 4               | 5                | 12           | 2             | 1.1                  | 0    | 41            |
|             |                    |                    | 20-3      | 5               | -4               | 12           | 2             | 1.1                  | 0    | 131           |
|             |                    |                    | 20-4      | -4              | -5               | 12           | 2             | 1.1                  | 0    | 221           |
| 21          | 683961             | 659177             | 21-1      | -8              | 9                | 20.3         | 2             | 1.1                  | 0    | 318           |
|             |                    |                    | 21-2      | 8               | 7                | 25           | 2             | 1.1                  | 0    | 48            |
|             |                    |                    | 21-3      | 8               | -9               | 20.3         | 2             | 1.1                  | 0    | 138           |
|             |                    |                    | 21-4      | -8              | -7               | 25           | 2             | 1.1                  | 0    | 228           |
| 22          | 686231             | 658425             | 22-1      | -4              | 3                | 22           | 2             | 1.1                  | 0    | 305           |
|             |                    |                    | 22-2      | 6               | 9                | 9            | 2             | 1.1                  | 0    | 35            |
|             |                    |                    | 22-3      | 4               | -3               | 22           | 2             | 1.1                  | 0    | 125           |
|             |                    |                    | 22-4      | -6              | -9               | 9            | 2             | 1.1                  | 0    | 215           |
| 23          | 683947             | 659291             | 23-1      | -8              | 8                | 19.3         | 2             | 1.1                  | 0    | 315           |
|             |                    |                    | 23-2      | 7               | 7                | 22.6         | 2             | 1.1                  | 0    | 45            |
|             |                    |                    | 23-3      | 8               | -8               | 19.3         | 2             | 1.1                  | 0    | 135           |
|             |                    |                    | 23-4      | -7              | -7               | 22.6         | 2             | 1.1                  | 0    | 225           |
| 24          | 685740             | 658824             | 24-1      | -5              | 5                | 12.4         | 2             | 1.1                  | 0    | 312           |
|             |                    |                    | 24-2      | 4               | 5                | 13.8         | 2             | 1.1                  | 0    | 42            |
|             |                    |                    | 24-3      | 5               | -5               | 12.4         | 2             | 1.1                  | 0    | 132           |

| Receptor ID | X Coord (IRENET95) | Y Coord (IRENET95) | Window ID | East Correction | North Correction | Window Width | Window Height | Window Centre Height | Tilt | Direction (°) |
|-------------|--------------------|--------------------|-----------|-----------------|------------------|--------------|---------------|----------------------|------|---------------|
|             |                    |                    | 24-4      | -4              | -5               | 13.8         | 2             | 1.1                  | 0    | 222           |
| 25          | 685421             | 658654             | 25-1      | -3              | 5                | 9.2          | 2             | 1.1                  | 0    | 333           |
|             |                    |                    | 25-2      | 4               | 2                | 12.3         | 2             | 1.1                  | 0    | 63            |
|             |                    |                    | 25-3      | 3               | -5               | 9.2          | 2             | 1.1                  | 0    | 153           |
|             |                    |                    | 25-4      | -4              | -2               | 12.3         | 2             | 1.1                  | 0    | 243           |
| 26          | 685252             | 659036             | 26-1      | 0               | 10               | 10.3         | 2             | 1.1                  | 0    | 0             |
|             |                    |                    | 26-2      | 5               | 0                | 20           | 2             | 1.1                  | 0    | 90            |
|             |                    |                    | 26-3      | 0               | -10              | 10.3         | 2             | 1.1                  | 0    | 180           |
|             |                    |                    | 26-4      | -5              | 0                | 20           | 2             | 1.1                  | 0    | 270           |
| 27          | 686201             | 658431             | 27-1      | -8              | 5                | 9            | 2             | 1.1                  | 0    | 300           |
|             |                    |                    | 27-2      | 2               | 4                | 18           | 2             | 1.1                  | 0    | 30            |
|             |                    |                    | 27-3      | 8               | -5               | 9            | 2             | 1.1                  | 0    | 120           |
|             |                    |                    | 27-4      | -2              | -4               | 18           | 2             | 1.1                  | 0    | 210           |
| 28          | 685310             | 658892             | 28-1      | -3              | 1                | 15           | 2             | 1.1                  | 0    | 286           |
|             |                    |                    | 28-2      | 2               | 7                | 6            | 2             | 1.1                  | 0    | 16            |
|             |                    |                    | 28-3      | 3               | -1               | 15           | 2             | 1.1                  | 0    | 106           |
|             |                    |                    | 28-4      | -2              | -7               | 6            | 2             | 1.1                  | 0    | 196           |
| 29          | 685672             | 658939             | 29-1      | -4              | 5                | 14           | 2             | 1.1                  | 0    | 318           |
|             |                    |                    | 29-2      | 5               | 5                | 12.2         | 2             | 1.1                  | 0    | 48            |
|             |                    |                    | 29-3      | 4               | -5               | 14           | 2             | 1.1                  | 0    | 138           |
|             |                    |                    | 29-4      | -5              | -5               | 12.2         | 2             | 1.1                  | 0    | 228           |
| 30          | 685768             | 658951             | 30-1      | -5              | 3                | 19           | 2             | 1.1                  | 0    | 299           |
|             |                    |                    | 30-2      | 5               | 8                | 11           | 2             | 1.1                  | 0    | 29            |
|             |                    |                    | 30-3      | 5               | -3               | 19           | 2             | 1.1                  | 0    | 119           |
|             |                    |                    | 30-4      | -5              | -8               | 11           | 2             | 1.1                  | 0    | 209           |



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## **APPENDIX 12.2**

Theoretical Shadow Flicker  
Times

Carlow County Council, Planning Authority, Viewing Purposes Only

Public Viewing Only

**APPENDIX 12-2: THEORETICAL SHADOW FLICKER TIMES (ALL TIMES IN UTC)**

Turbine 1

| Day-Month | SunriseHours:Minutes | SunsetHours:Minutes | BeginHours:Minutes | EndHours:Minutes |
|-----------|----------------------|---------------------|--------------------|------------------|
| 01-Jan    | 08:38                | 16:22               | 10:03              | 10:47            |
| 02-Jan    | 08:38                | 16:23               | 10:03              | 10:47            |
| 03-Jan    | 08:38                | 16:24               | 10:04              | 10:48            |
| 04-Jan    | 08:38                | 16:25               | 10:04              | 10:48            |
| 05-Jan    | 08:37                | 16:26               | 10:05              | 10:48            |
| 06-Jan    | 08:37                | 16:28               | 10:05              | 10:49            |
| 07-Jan    | 08:36                | 16:29               | 10:06              | 10:49            |
| 08-Jan    | 08:36                | 16:30               | 10:06              | 10:49            |
| 09-Jan    | 08:35                | 16:32               | 10:07              | 10:49            |
| 10-Jan    | 08:35                | 16:33               | 10:07              | 10:49            |
| 11-Jan    | 08:34                | 16:35               | 10:08              | 10:49            |
| 11-Jan    | 08:34                | 16:35               | 15:14              | 15:20            |
| 12-Jan    | 08:34                | 16:36               | 10:08              | 10:49            |
| 12-Jan    | 08:34                | 16:36               | 15:12              | 15:23            |
| 13-Jan    | 08:33                | 16:38               | 10:09              | 10:49            |
| 13-Jan    | 08:33                | 16:38               | 15:11              | 15:25            |
| 14-Jan    | 08:32                | 16:39               | 10:09              | 10:49            |
| 14-Jan    | 08:32                | 16:39               | 15:10              | 15:27            |
| 15-Jan    | 08:31                | 16:41               | 10:10              | 10:48            |
| 15-Jan    | 08:31                | 16:41               | 15:09              | 15:29            |
| 16-Jan    | 08:30                | 16:42               | 10:11              | 10:48            |
| 16-Jan    | 08:30                | 16:42               | 15:08              | 15:31            |
| 17-Jan    | 08:29                | 16:44               | 10:12              | 10:47            |
| 17-Jan    | 08:29                | 16:44               | 15:08              | 15:33            |
| 18-Jan    | 08:28                | 16:46               | 10:12              | 10:46            |
| 18-Jan    | 08:28                | 16:46               | 15:07              | 15:34            |
| 19-Jan    | 08:27                | 16:47               | 10:13              | 10:44            |
| 19-Jan    | 08:27                | 16:47               | 15:07              | 15:36            |
| 20-Jan    | 08:26                | 16:49               | 10:14              | 10:44            |
| 20-Jan    | 08:26                | 16:49               | 15:07              | 15:37            |
| 21-Jan    | 08:25                | 16:51               | 10:16              | 10:43            |
| 21-Jan    | 08:25                | 16:51               | 15:06              | 15:38            |
| 22-Jan    | 08:24                | 16:53               | 10:17              | 10:42            |
| 22-Jan    | 08:24                | 16:53               | 15:06              | 15:39            |
| 23-Jan    | 08:23                | 16:54               | 10:18              | 10:41            |
| 23-Jan    | 08:23                | 16:54               | 15:06              | 15:40            |
| 24-Jan    | 08:21                | 16:56               | 10:20              | 10:39            |
| 24-Jan    | 08:21                | 16:56               | 15:06              | 15:40            |
| 25-Jan    | 08:20                | 16:58               | 10:22              | 10:36            |
| 25-Jan    | 08:20                | 16:58               | 15:06              | 15:41            |
| 26-Jan    | 08:19                | 17:00               | 10:26              | 10:33            |
| 26-Jan    | 08:19                | 17:00               | 15:06              | 15:42            |
| 27-Jan    | 08:17                | 17:02               | 15:06              | 15:42            |
| 28-Jan    | 08:16                | 17:04               | 15:06              | 15:43            |
| 29-Jan    | 08:14                | 17:05               | 15:06              | 15:43            |
| 30-Jan    | 08:13                | 17:07               | 15:07              | 15:43            |

| Day-Month | SunriseHours:Minutes | SunsetHours:Minutes | BeginHours:Minutes | EndHours:Minutes |
|-----------|----------------------|---------------------|--------------------|------------------|
| 30-Jan    | 08:13                | 17:07               | 15:44              | 15:55            |
| 31-Jan    | 08:11                | 17:09               | 15:07              | 15:58            |
| 01-Feb    | 08:10                | 17:11               | 15:07              | 16:00            |
| 02-Feb    | 08:08                | 17:13               | 15:08              | 16:01            |
| 03-Feb    | 08:06                | 17:15               | 15:09              | 16:03            |
| 04-Feb    | 08:05                | 17:17               | 15:09              | 16:04            |
| 05-Feb    | 08:03                | 17:19               | 15:10              | 16:09            |
| 06-Feb    | 08:01                | 17:21               | 15:11              | 16:11            |
| 07-Feb    | 07:59                | 17:23               | 15:13              | 16:13            |
| 08-Feb    | 07:58                | 17:24               | 15:14              | 16:15            |
| 09-Feb    | 07:56                | 17:26               | 15:15              | 16:17            |
| 10-Feb    | 07:54                | 17:28               | 15:17              | 16:18            |
| 11-Feb    | 07:52                | 17:30               | 15:20              | 16:19            |
| 11-Feb    | 07:52                | 17:30               | 16:24              | 16:28            |
| 12-Feb    | 07:50                | 17:32               | 15:33              | 16:32            |
| 13-Feb    | 07:48                | 17:34               | 15:33              | 16:34            |
| 14-Feb    | 07:46                | 17:36               | 15:33              | 16:36            |
| 15-Feb    | 07:44                | 17:38               | 15:34              | 16:38            |
| 16-Feb    | 07:42                | 17:40               | 15:34              | 16:39            |
| 17-Feb    | 07:40                | 17:42               | 15:35              | 16:40            |
| 18-Feb    | 07:38                | 17:44               | 15:35              | 16:40            |
| 19-Feb    | 07:36                | 17:45               | 15:36              | 16:41            |
| 19-Feb    | 07:36                | 17:45               | 16:42              | 16:49            |
| 20-Feb    | 07:34                | 17:47               | 15:37              | 16:52            |
| 21-Feb    | 07:32                | 17:49               | 15:38              | 16:54            |
| 22-Feb    | 07:30                | 17:51               | 15:40              | 16:56            |
| 23-Feb    | 07:28                | 17:53               | 15:42              | 16:58            |
| 24-Feb    | 07:25                | 17:55               | 15:46              | 16:58            |
| 25-Feb    | 07:23                | 17:57               | 15:55              | 16:59            |
| 26-Feb    | 07:21                | 17:59               | 15:59              | 16:08            |
| 26-Feb    | 07:21                | 17:59               | 16:10              | 17:07            |
| 27-Feb    | 07:19                | 18:01               | 16:11              | 17:09            |
| 28-Feb    | 07:17                | 18:02               | 16:12              | 17:11            |
| 29-Feb    | 07:14                | 18:04               | 16:13              | 17:12            |
| 01-Mar    | 07:12                | 18:06               | 16:16              | 17:13            |
| 02-Mar    | 07:10                | 18:08               | 16:19              | 17:14            |
| 03-Mar    | 07:08                | 18:10               | 16:18              | 17:14            |
| 04-Mar    | 07:05                | 18:12               | 16:18              | 17:15            |
| 05-Mar    | 07:03                | 18:13               | 16:17              | 17:15            |
| 06-Mar    | 07:01                | 18:15               | 16:17              | 17:14            |
| 07-Mar    | 06:59                | 18:17               | 16:17              | 17:14            |
| 08-Mar    | 06:56                | 18:19               | 16:17              | 17:13            |
| 09-Mar    | 06:54                | 18:21               | 16:18              | 17:12            |
| 10-Mar    | 06:52                | 18:23               | 16:18              | 17:11            |
| 11-Mar    | 06:49                | 18:24               | 16:19              | 17:10            |
| 12-Mar    | 06:47                | 18:26               | 16:20              | 16:50            |
| 12-Mar    | 06:47                | 18:26               | 16:50              | 17:08            |
| 13-Mar    | 06:45                | 18:28               | 16:21              | 16:48            |
| 13-Mar    | 06:45                | 18:28               | 16:53              | 17:05            |

| Day-Month | SunriseHours:Minutes | SunsetHours:Minutes | BeginHours:Minutes | EndHours:Minutes |
|-----------|----------------------|---------------------|--------------------|------------------|
| 14-Mar    | 06:42                | 18:30               | 16:23              | 16:46            |
| 15-Mar    | 06:40                | 18:32               | 16:24              | 16:44            |
| 16-Mar    | 06:38                | 18:33               | 16:27              | 16:41            |
| 25-Sep    | 06:18                | 18:17               | 16:12              | 16:22            |
| 26-Sep    | 06:20                | 18:15               | 16:08              | 16:25            |
| 27-Sep    | 06:22                | 18:12               | 16:05              | 16:27            |
| 28-Sep    | 06:23                | 18:10               | 16:03              | 16:29            |
| 28-Sep    | 06:23                | 18:10               | 16:35              | 16:45            |
| 29-Sep    | 06:25                | 18:07               | 16:01              | 16:30            |
| 29-Sep    | 06:25                | 18:07               | 16:32              | 16:48            |
| 30-Sep    | 06:27                | 18:05               | 15:59              | 16:49            |
| 01-Oct    | 06:28                | 18:03               | 15:58              | 16:50            |
| 02-Oct    | 06:30                | 18:00               | 15:57              | 16:51            |
| 03-Oct    | 06:32                | 17:58               | 15:56              | 16:51            |
| 04-Oct    | 06:34                | 17:56               | 15:55              | 16:51            |
| 05-Oct    | 06:35                | 17:53               | 15:55              | 16:51            |
| 06-Oct    | 06:37                | 17:51               | 15:54              | 16:51            |
| 07-Oct    | 06:39                | 17:49               | 15:54              | 16:51            |
| 08-Oct    | 06:40                | 17:46               | 15:54              | 16:50            |
| 09-Oct    | 06:42                | 17:44               | 15:54              | 16:50            |
| 10-Oct    | 06:44                | 17:42               | 15:53              | 16:49            |
| 11-Oct    | 06:46                | 17:40               | 15:49              | 16:47            |
| 12-Oct    | 06:48                | 17:37               | 15:47              | 16:46            |
| 13-Oct    | 06:49                | 17:35               | 15:45              | 16:44            |
| 14-Oct    | 06:51                | 17:33               | 15:43              | 16:41            |
| 15-Oct    | 06:53                | 17:31               | 15:31              | 15:42            |
| 15-Oct    | 06:53                | 17:31               | 15:42              | 16:38            |
| 16-Oct    | 06:55                | 17:28               | 15:27              | 16:31            |
| 17-Oct    | 06:56                | 17:26               | 15:17              | 16:30            |
| 18-Oct    | 06:58                | 17:24               | 15:13              | 16:29            |
| 19-Oct    | 07:00                | 17:22               | 15:11              | 16:27            |
| 20-Oct    | 07:02                | 17:20               | 15:09              | 16:25            |
| 21-Oct    | 07:04                | 17:18               | 15:08              | 16:22            |
| 22-Oct    | 07:06                | 17:15               | 15:06              | 16:11            |
| 22-Oct    | 07:06                | 17:15               | 16:14              | 16:17            |
| 23-Oct    | 07:07                | 17:13               | 15:06              | 16:11            |
| 24-Oct    | 07:09                | 17:11               | 15:05              | 16:10            |
| 25-Oct    | 07:11                | 17:09               | 15:04              | 16:09            |
| 26-Oct    | 07:13                | 17:07               | 15:03              | 16:08            |
| 27-Oct    | 07:15                | 17:05               | 15:03              | 16:06            |
| 28-Oct    | 07:17                | 17:03               | 15:03              | 16:04            |
| 29-Oct    | 07:18                | 17:01               | 14:56              | 14:58            |
| 29-Oct    | 07:18                | 17:01               | 15:03              | 16:02            |
| 30-Oct    | 07:20                | 16:59               | 14:49              | 15:48            |
| 31-Oct    | 07:22                | 16:57               | 14:46              | 15:47            |
| 01-Nov    | 07:24                | 16:55               | 14:45              | 15:46            |
| 02-Nov    | 07:26                | 16:54               | 14:43              | 15:44            |
| 03-Nov    | 07:28                | 16:52               | 14:42              | 15:43            |
| 04-Nov    | 07:29                | 16:50               | 14:41              | 15:40            |



| Day-Month | SunriseHours:Minutes | SunsetHours:Minutes | BeginHours:Minutes | EndHours:Minutes |
|-----------|----------------------|---------------------|--------------------|------------------|
| 05-Nov    | 07:31                | 16:48               | 14:40              | 15:38            |
| 06-Nov    | 07:33                | 16:46               | 14:39              | 15:34            |
| 07-Nov    | 07:35                | 16:45               | 14:39              | 15:33            |
| 08-Nov    | 07:37                | 16:43               | 14:38              | 15:32            |
| 09-Nov    | 07:39                | 16:41               | 14:38              | 15:30            |
| 10-Nov    | 07:41                | 16:40               | 14:38              | 15:28            |
| 11-Nov    | 07:42                | 16:38               | 14:38              | 15:14            |
| 11-Nov    | 07:42                | 16:38               | 15:14              | 15:26            |
| 12-Nov    | 07:44                | 16:37               | 14:38              | 15:14            |
| 13-Nov    | 07:46                | 16:35               | 14:38              | 15:14            |
| 14-Nov    | 07:48                | 16:34               | 14:38              | 15:14            |
| 15-Nov    | 07:50                | 16:32               | 14:38              | 15:14            |
| 16-Nov    | 07:51                | 16:31               | 09:56              | 10:07            |
| 16-Nov    | 07:51                | 16:31               | 14:38              | 15:14            |
| 17-Nov    | 07:53                | 16:29               | 09:54              | 10:11            |
| 17-Nov    | 07:53                | 16:29               | 14:39              | 15:14            |
| 18-Nov    | 07:55                | 16:28               | 09:53              | 10:13            |
| 18-Nov    | 07:55                | 16:28               | 14:39              | 15:13            |
| 19-Nov    | 07:57                | 16:27               | 09:52              | 10:15            |
| 19-Nov    | 07:57                | 16:27               | 14:40              | 15:13            |
| 20-Nov    | 07:58                | 16:26               | 09:51              | 10:17            |
| 20-Nov    | 07:58                | 16:26               | 14:41              | 15:12            |
| 21-Nov    | 08:00                | 16:24               | 09:50              | 10:18            |
| 21-Nov    | 08:00                | 16:24               | 14:42              | 15:12            |
| 22-Nov    | 08:02                | 16:23               | 09:50              | 10:19            |
| 22-Nov    | 08:02                | 16:23               | 14:42              | 15:11            |
| 23-Nov    | 08:03                | 16:22               | 09:49              | 10:21            |
| 23-Nov    | 08:03                | 16:22               | 14:43              | 15:11            |
| 24-Nov    | 08:05                | 16:21               | 09:49              | 10:23            |
| 24-Nov    | 08:05                | 16:21               | 14:44              | 15:10            |
| 25-Nov    | 08:07                | 16:20               | 09:49              | 10:25            |
| 25-Nov    | 08:07                | 16:20               | 14:45              | 15:09            |
| 26-Nov    | 08:08                | 16:19               | 09:49              | 10:26            |
| 26-Nov    | 08:08                | 16:19               | 14:47              | 15:08            |
| 27-Nov    | 08:10                | 16:18               | 09:48              | 10:27            |
| 27-Nov    | 08:10                | 16:18               | 14:48              | 15:06            |
| 28-Nov    | 08:11                | 16:17               | 09:49              | 10:28            |
| 28-Nov    | 08:11                | 16:17               | 14:50              | 15:05            |
| 29-Nov    | 08:13                | 16:17               | 09:49              | 10:29            |
| 29-Nov    | 08:13                | 16:17               | 14:52              | 15:04            |
| 30-Nov    | 08:14                | 16:16               | 09:49              | 10:30            |
| 30-Nov    | 08:14                | 16:16               | 14:54              | 15:02            |
| 01-Dec    | 08:16                | 16:15               | 09:49              | 10:31            |
| 02-Dec    | 08:17                | 16:15               | 09:49              | 10:32            |
| 03-Dec    | 08:19                | 16:14               | 09:50              | 10:32            |
| 04-Dec    | 08:20                | 16:13               | 09:50              | 10:33            |
| 05-Dec    | 08:21                | 16:13               | 09:50              | 10:34            |
| 06-Dec    | 08:23                | 16:13               | 09:51              | 10:34            |
| 07-Dec    | 08:24                | 16:12               | 09:51              | 10:35            |

| Day-Month | SunriseHours:Minutes | SunsetHours:Minutes | BeginHours:Minutes | EndHours:Minutes |
|-----------|----------------------|---------------------|--------------------|------------------|
| 08-Dec    | 08:25                | 16:12               | 09:52              | 10:35            |
| 09-Dec    | 08:26                | 16:12               | 09:52              | 10:36            |
| 10-Dec    | 08:27                | 16:12               | 09:53              | 10:36            |
| 11-Dec    | 08:28                | 16:11               | 09:53              | 10:37            |
| 12-Dec    | 08:29                | 16:11               | 09:54              | 10:38            |
| 13-Dec    | 08:30                | 16:11               | 09:54              | 10:38            |
| 14-Dec    | 08:31                | 16:11               | 09:55              | 10:39            |
| 15-Dec    | 08:32                | 16:12               | 09:55              | 10:39            |
| 16-Dec    | 08:33                | 16:12               | 09:56              | 10:40            |
| 17-Dec    | 08:34                | 16:12               | 09:56              | 10:40            |
| 18-Dec    | 08:34                | 16:12               | 09:57              | 10:41            |
| 19-Dec    | 08:35                | 16:13               | 09:57              | 10:41            |
| 20-Dec    | 08:36                | 16:13               | 09:58              | 10:42            |
| 21-Dec    | 08:36                | 16:14               | 09:58              | 10:42            |
| 22-Dec    | 08:37                | 16:14               | 09:59              | 10:43            |
| 23-Dec    | 08:37                | 16:15               | 09:59              | 10:43            |
| 24-Dec    | 08:37                | 16:15               | 10:00              | 10:44            |
| 25-Dec    | 08:38                | 16:16               | 10:00              | 10:44            |
| 26-Dec    | 08:38                | 16:17               | 10:01              | 10:45            |
| 27-Dec    | 08:38                | 16:18               | 10:01              | 10:45            |
| 28-Dec    | 08:38                | 16:19               | 10:01              | 10:45            |
| 29-Dec    | 08:38                | 16:19               | 10:02              | 10:46            |
| 30-Dec    | 08:38                | 16:20               | 10:02              | 10:46            |
| 31-Dec    | 08:38                | 16:21               | 10:03              | 10:47            |

Turbine 2

There are no shadows cast by this turbine

Turbine 3

| Day-Month | SunriseHours:Minutes | SunsetHours:Minutes | BeginHours:Minutes | EndHours:Minutes |
|-----------|----------------------|---------------------|--------------------|------------------|
| 14-Mar    | 06:42                | 18:30               | 07:52              | 07:59            |
| 15-Mar    | 06:40                | 18:32               | 07:48              | 08:02            |
| 16-Mar    | 06:38                | 18:33               | 07:45              | 08:04            |
| 17-Mar    | 06:35                | 18:35               | 07:43              | 08:05            |
| 18-Mar    | 06:33                | 18:37               | 07:42              | 08:06            |
| 19-Mar    | 06:31                | 18:39               | 07:40              | 08:06            |
| 20-Mar    | 06:28                | 18:41               | 07:38              | 08:06            |
| 21-Mar    | 06:26                | 18:42               | 07:35              | 08:06            |
| 22-Mar    | 06:23                | 18:44               | 07:33              | 08:06            |
| 23-Mar    | 06:21                | 18:46               | 07:32              | 08:06            |
| 24-Mar    | 06:19                | 18:48               | 07:29              | 08:05            |
| 25-Mar    | 06:16                | 18:49               | 07:26              | 08:04            |
| 26-Mar    | 06:14                | 18:51               | 07:23              | 08:03            |
| 27-Mar    | 06:12                | 18:53               | 07:22              | 08:01            |
| 28-Mar    | 06:09                | 18:55               | 07:19              | 08:00            |
| 29-Mar    | 06:07                | 18:56               | 07:16              | 07:58            |
| 30-Mar    | 06:05                | 18:58               | 07:14              | 07:57            |

| Day-Month | SunriseHours:Minutes | SunsetHours:Minutes | BeginHours:Minutes | EndHours:Minutes |
|-----------|----------------------|---------------------|--------------------|------------------|
| 31-Mar    | 06:02                | 19:00               | 07:13              | 07:55            |
| 01-Apr    | 06:00                | 19:02               | 07:12              | 07:54            |
| 02-Apr    | 05:57                | 19:03               | 07:11              | 07:52            |
| 03-Apr    | 05:55                | 19:05               | 07:10              | 07:50            |
| 04-Apr    | 05:53                | 19:07               | 07:09              | 07:47            |
| 05-Apr    | 05:50                | 19:09               | 07:09              | 07:44            |
| 06-Apr    | 05:48                | 19:11               | 07:09              | 07:42            |
| 07-Apr    | 05:46                | 19:12               | 07:09              | 07:40            |
| 08-Apr    | 05:44                | 19:14               | 07:09              | 07:38            |
| 09-Apr    | 05:41                | 19:16               | 07:10              | 07:36            |
| 10-Apr    | 05:39                | 19:18               | 07:11              | 07:32            |
| 11-Apr    | 05:37                | 19:19               | 07:12              | 07:30            |
| 12-Apr    | 05:34                | 19:21               | 06:49              | 06:52            |
| 12-Apr    | 05:34                | 19:21               | 07:13              | 07:28            |
| 13-Apr    | 05:32                | 19:23               | 06:44              | 06:57            |
| 13-Apr    | 05:32                | 19:23               | 07:16              | 07:25            |
| 14-Apr    | 05:30                | 19:25               | 06:41              | 06:59            |
| 15-Apr    | 05:28                | 19:26               | 06:40              | 07:00            |
| 16-Apr    | 05:25                | 19:28               | 06:38              | 07:01            |
| 17-Apr    | 05:23                | 19:30               | 06:36              | 07:02            |
| 18-Apr    | 05:21                | 19:32               | 06:34              | 07:02            |
| 19-Apr    | 05:19                | 19:33               | 06:33              | 07:02            |
| 20-Apr    | 05:17                | 19:35               | 06:33              | 07:02            |
| 21-Apr    | 05:14                | 19:37               | 06:32              | 07:02            |
| 22-Apr    | 05:12                | 19:39               | 06:31              | 07:02            |
| 23-Apr    | 05:10                | 19:40               | 06:31              | 07:02            |
| 24-Apr    | 05:08                | 19:42               | 06:31              | 07:01            |
| 25-Apr    | 05:06                | 19:44               | 06:31              | 07:01            |
| 26-Apr    | 05:04                | 19:46               | 06:31              | 07:00            |
| 27-Apr    | 05:02                | 19:47               | 06:31              | 06:59            |
| 28-Apr    | 05:00                | 19:49               | 06:32              | 06:58            |
| 29-Apr    | 04:58                | 19:51               | 06:32              | 06:57            |
| 30-Apr    | 04:56                | 19:53               | 06:33              | 06:56            |
| 01-May    | 04:54                | 19:54               | 06:34              | 06:54            |
| 02-May    | 04:52                | 19:56               | 06:36              | 06:51            |
| 03-May    | 04:50                | 19:58               | 06:38              | 06:49            |
| 15-May    | 04:29                | 20:18               | 05:48              | 05:55            |
| 16-May    | 04:28                | 20:19               | 05:45              | 05:58            |
| 17-May    | 04:26                | 20:21               | 05:43              | 06:00            |
| 18-May    | 04:25                | 20:22               | 05:42              | 06:01            |
| 19-May    | 04:23                | 20:24               | 05:41              | 06:02            |
| 20-May    | 04:22                | 20:25               | 05:40              | 06:03            |
| 21-May    | 04:21                | 20:27               | 05:39              | 06:03            |
| 22-May    | 04:19                | 20:28               | 05:38              | 06:04            |
| 23-May    | 04:18                | 20:30               | 05:38              | 06:04            |
| 24-May    | 04:17                | 20:31               | 05:37              | 06:05            |
| 25-May    | 04:16                | 20:32               | 05:35              | 06:05            |
| 26-May    | 04:14                | 20:34               | 05:34              | 06:06            |
| 27-May    | 04:13                | 20:35               | 05:33              | 06:06            |

| Day-Month | SunriseHours:Minutes | SunsetHours:Minutes | BeginHours:Minutes | EndHours:Minutes |
|-----------|----------------------|---------------------|--------------------|------------------|
| 28-May    | 04:12                | 20:36               | 05:32              | 06:06            |
| 29-May    | 04:11                | 20:37               | 05:32              | 06:06            |
| 30-May    | 04:10                | 20:39               | 05:31              | 06:07            |
| 31-May    | 04:09                | 20:40               | 05:30              | 06:07            |
| 01-Jun    | 04:09                | 20:41               | 05:30              | 06:07            |
| 02-Jun    | 04:08                | 20:42               | 05:30              | 06:07            |
| 03-Jun    | 04:07                | 20:43               | 05:29              | 06:07            |
| 04-Jun    | 04:06                | 20:44               | 05:29              | 06:07            |
| 05-Jun    | 04:06                | 20:45               | 05:29              | 06:07            |
| 06-Jun    | 04:05                | 20:46               | 05:29              | 06:08            |
| 07-Jun    | 04:05                | 20:47               | 05:29              | 06:08            |
| 08-Jun    | 04:04                | 20:48               | 05:29              | 06:08            |
| 09-Jun    | 04:04                | 20:49               | 05:29              | 06:08            |
| 10-Jun    | 04:03                | 20:49               | 05:29              | 06:08            |
| 11-Jun    | 04:03                | 20:50               | 05:29              | 06:08            |
| 12-Jun    | 04:03                | 20:51               | 05:29              | 06:08            |
| 13-Jun    | 04:02                | 20:51               | 05:29              | 06:08            |
| 14-Jun    | 04:02                | 20:52               | 05:29              | 06:08            |
| 15-Jun    | 04:02                | 20:52               | 05:30              | 06:09            |
| 16-Jun    | 04:02                | 20:53               | 05:30              | 06:09            |
| 17-Jun    | 04:02                | 20:53               | 05:30              | 06:09            |
| 18-Jun    | 04:02                | 20:54               | 05:30              | 06:09            |
| 19-Jun    | 04:02                | 20:54               | 05:30              | 06:09            |
| 20-Jun    | 04:02                | 20:54               | 05:30              | 06:09            |
| 21-Jun    | 04:02                | 20:54               | 05:31              | 06:10            |
| 22-Jun    | 04:03                | 20:54               | 05:31              | 06:10            |
| 23-Jun    | 04:03                | 20:55               | 05:31              | 06:10            |
| 24-Jun    | 04:03                | 20:55               | 05:31              | 06:10            |
| 25-Jun    | 04:04                | 20:55               | 05:32              | 06:11            |
| 26-Jun    | 04:04                | 20:54               | 05:32              | 06:11            |
| 27-Jun    | 04:05                | 20:54               | 05:32              | 06:11            |
| 28-Jun    | 04:05                | 20:54               | 05:32              | 06:11            |
| 29-Jun    | 04:06                | 20:54               | 05:33              | 06:12            |
| 30-Jun    | 04:07                | 20:54               | 05:33              | 06:12            |
| 01-Jul    | 04:07                | 20:53               | 05:33              | 06:12            |
| 02-Jul    | 04:08                | 20:53               | 05:34              | 06:13            |
| 03-Jul    | 04:09                | 20:52               | 05:34              | 06:13            |
| 04-Jul    | 04:10                | 20:52               | 05:34              | 06:13            |
| 05-Jul    | 04:11                | 20:51               | 05:35              | 06:13            |
| 06-Jul    | 04:12                | 20:51               | 05:35              | 06:14            |
| 07-Jul    | 04:12                | 20:50               | 05:36              | 06:14            |
| 08-Jul    | 04:14                | 20:49               | 05:36              | 06:14            |
| 09-Jul    | 04:15                | 20:48               | 05:37              | 06:14            |
| 10-Jul    | 04:16                | 20:48               | 05:37              | 06:14            |
| 11-Jul    | 04:17                | 20:47               | 05:38              | 06:15            |
| 12-Jul    | 04:18                | 20:46               | 05:39              | 06:15            |
| 13-Jul    | 04:19                | 20:45               | 05:40              | 06:15            |
| 14-Jul    | 04:20                | 20:44               | 05:41              | 06:15            |
| 15-Jul    | 04:22                | 20:43               | 05:42              | 06:15            |

| Day-Month | SunriseHours:Minutes | SunsetHours:Minutes | BeginHours:Minutes | EndHours:Minutes |
|-----------|----------------------|---------------------|--------------------|------------------|
| 16-Jul    | 04:23                | 20:42               | 05:43              | 06:15            |
| 17-Jul    | 04:24                | 20:40               | 05:44              | 06:15            |
| 18-Jul    | 04:25                | 20:39               | 05:46              | 06:14            |
| 19-Jul    | 04:27                | 20:38               | 05:47              | 06:14            |
| 20-Jul    | 04:28                | 20:37               | 05:48              | 06:14            |
| 21-Jul    | 04:30                | 20:35               | 05:48              | 06:13            |
| 22-Jul    | 04:31                | 20:34               | 05:49              | 06:13            |
| 23-Jul    | 04:32                | 20:33               | 05:50              | 06:12            |
| 24-Jul    | 04:34                | 20:31               | 05:52              | 06:11            |
| 25-Jul    | 04:35                | 20:30               | 05:53              | 06:10            |
| 26-Jul    | 04:37                | 20:28               | 05:54              | 06:09            |
| 27-Jul    | 04:38                | 20:27               | 05:56              | 06:07            |
| 08-Aug    | 04:58                | 20:05               | 06:49              | 06:55            |
| 09-Aug    | 04:59                | 20:04               | 06:45              | 06:59            |
| 10-Aug    | 05:01                | 20:02               | 06:43              | 07:01            |
| 11-Aug    | 05:03                | 20:00               | 06:42              | 07:03            |
| 12-Aug    | 05:04                | 19:58               | 06:40              | 07:04            |
| 13-Aug    | 05:06                | 19:56               | 06:39              | 07:05            |
| 14-Aug    | 05:08                | 19:53               | 06:39              | 07:06            |
| 15-Aug    | 05:09                | 19:51               | 06:38              | 07:07            |
| 16-Aug    | 05:11                | 19:49               | 06:37              | 07:07            |
| 17-Aug    | 05:13                | 19:47               | 06:37              | 07:07            |
| 18-Aug    | 05:14                | 19:45               | 06:37              | 07:07            |
| 19-Aug    | 05:16                | 19:43               | 06:36              | 07:07            |
| 20-Aug    | 05:18                | 19:41               | 06:36              | 07:07            |
| 21-Aug    | 05:19                | 19:39               | 06:36              | 07:07            |
| 22-Aug    | 05:21                | 19:36               | 06:37              | 07:06            |
| 23-Aug    | 05:23                | 19:34               | 06:37              | 07:06            |
| 24-Aug    | 05:24                | 19:32               | 06:38              | 07:05            |
| 25-Aug    | 05:26                | 19:30               | 06:39              | 07:04            |
| 26-Aug    | 05:28                | 19:28               | 06:40              | 07:03            |
| 27-Aug    | 05:29                | 19:25               | 06:41              | 07:01            |
| 28-Aug    | 05:31                | 19:23               | 06:43              | 06:59            |
| 29-Aug    | 05:33                | 19:21               | 06:45              | 06:57            |
| 29-Aug    | 05:33                | 19:21               | 07:16              | 07:26            |
| 30-Aug    | 05:34                | 19:18               | 07:13              | 07:29            |
| 31-Aug    | 05:36                | 19:16               | 07:11              | 07:30            |
| 01-Sep    | 05:38                | 19:14               | 07:09              | 07:32            |
| 02-Sep    | 05:39                | 19:11               | 07:08              | 07:35            |
| 03-Sep    | 05:41                | 19:09               | 07:07              | 07:36            |
| 04-Sep    | 05:43                | 19:07               | 07:06              | 07:37            |
| 05-Sep    | 05:44                | 19:04               | 07:05              | 07:39            |
| 06-Sep    | 05:46                | 19:02               | 07:05              | 07:39            |
| 07-Sep    | 05:48                | 19:00               | 07:04              | 07:43            |
| 08-Sep    | 05:49                | 18:57               | 07:04              | 07:44            |
| 09-Sep    | 05:51                | 18:55               | 07:04              | 07:46            |
| 10-Sep    | 05:53                | 18:53               | 07:05              | 07:47            |
| 11-Sep    | 05:54                | 18:50               | 07:05              | 07:48            |
| 12-Sep    | 05:56                | 18:48               | 07:06              | 07:49            |

| Day-Month | SunriseHours:Minutes | SunsetHours:Minutes | BeginHours:Minutes | EndHours:Minutes |
|-----------|----------------------|---------------------|--------------------|------------------|
| 13-Sep    | 05:58                | 18:46               | 07:07              | 07:49            |
| 14-Sep    | 06:00                | 18:43               | 07:09              | 07:50            |
| 15-Sep    | 06:01                | 18:41               | 07:11              | 07:51            |
| 16-Sep    | 06:03                | 18:38               | 07:12              | 07:52            |
| 17-Sep    | 06:05                | 18:36               | 07:14              | 07:53            |
| 18-Sep    | 06:06                | 18:34               | 07:16              | 07:53            |
| 19-Sep    | 06:08                | 18:31               | 07:19              | 07:53            |
| 20-Sep    | 06:10                | 18:29               | 07:20              | 07:53            |
| 21-Sep    | 06:11                | 18:26               | 07:21              | 07:52            |
| 22-Sep    | 06:13                | 18:24               | 07:23              | 07:52            |
| 23-Sep    | 06:15                | 18:22               | 07:24              | 07:51            |
| 24-Sep    | 06:16                | 18:19               | 07:26              | 07:50            |
| 25-Sep    | 06:18                | 18:17               | 07:26              | 07:48            |
| 26-Sep    | 06:20                | 18:15               | 07:28              | 07:47            |
| 27-Sep    | 06:22                | 18:12               | 07:30              | 07:45            |
| 28-Sep    | 06:23                | 18:10               | 07:32              | 07:41            |

Turbine 4

| Day-Month | SunriseHours:Minutes | SunsetHours:Minutes | BeginHours:Minutes | EndHours:Minutes |
|-----------|----------------------|---------------------|--------------------|------------------|
| 01-Jan    | 08:38                | 16:22               | 14:37              | 14:49            |
| 02-Jan    | 08:38                | 16:23               | 14:37              | 14:50            |
| 03-Jan    | 08:38                | 16:24               | 14:36              | 14:51            |
| 04-Jan    | 08:38                | 16:25               | 14:36              | 14:52            |
| 05-Jan    | 08:37                | 16:26               | 14:36              | 14:54            |
| 06-Jan    | 08:37                | 16:28               | 14:36              | 14:55            |
| 07-Jan    | 08:36                | 16:29               | 14:36              | 14:56            |
| 08-Jan    | 08:36                | 16:30               | 14:36              | 14:57            |
| 09-Jan    | 08:35                | 16:32               | 14:35              | 14:58            |
| 10-Jan    | 08:35                | 16:33               | 14:35              | 14:59            |
| 11-Jan    | 08:34                | 16:35               | 14:35              | 15:00            |
| 12-Jan    | 08:34                | 16:36               | 14:35              | 15:01            |
| 13-Jan    | 08:33                | 16:38               | 14:35              | 15:02            |
| 14-Jan    | 08:32                | 16:39               | 14:35              | 15:03            |
| 15-Jan    | 08:31                | 16:41               | 14:36              | 15:03            |
| 16-Jan    | 08:30                | 16:42               | 14:36              | 15:04            |
| 17-Jan    | 08:29                | 16:44               | 14:36              | 15:04            |
| 18-Jan    | 08:28                | 16:46               | 14:36              | 15:05            |
| 19-Jan    | 08:27                | 16:47               | 14:36              | 15:05            |
| 20-Jan    | 08:26                | 16:49               | 14:37              | 15:06            |
| 21-Jan    | 08:25                | 16:51               | 14:37              | 15:06            |
| 22-Jan    | 08:24                | 16:53               | 14:37              | 15:06            |
| 23-Jan    | 08:23                | 16:54               | 14:38              | 15:07            |
| 24-Jan    | 08:21                | 16:56               | 14:38              | 15:07            |
| 25-Jan    | 08:20                | 16:58               | 14:39              | 15:07            |
| 26-Jan    | 08:19                | 17:00               | 14:39              | 15:06            |
| 27-Jan    | 08:17                | 17:02               | 14:40              | 15:06            |
| 28-Jan    | 08:16                | 17:04               | 14:41              | 15:06            |
| 28-Jan    | 08:16                | 17:04               | 15:25              | 15:31            |
| 29-Jan    | 08:14                | 17:05               | 14:42              | 15:05            |

| Day-Month | SunriseHours:Minutes | SunsetHours:Minutes | BeginHours:Minutes | EndHours:Minutes |
|-----------|----------------------|---------------------|--------------------|------------------|
| 29-Jan    | 08:14                | 17:05               | 15:22              | 15:35            |
| 30-Jan    | 08:13                | 17:07               | 14:43              | 15:04            |
| 30-Jan    | 08:13                | 17:07               | 15:20              | 15:38            |
| 31-Jan    | 08:11                | 17:09               | 14:44              | 15:03            |
| 31-Jan    | 08:11                | 17:09               | 15:19              | 15:40            |
| 01-Feb    | 08:10                | 17:11               | 14:46              | 15:02            |
| 01-Feb    | 08:10                | 17:11               | 15:18              | 15:42            |
| 02-Feb    | 08:08                | 17:13               | 14:49              | 15:00            |
| 02-Feb    | 08:08                | 17:13               | 15:17              | 15:43            |
| 03-Feb    | 08:06                | 17:15               | 15:16              | 15:44            |
| 04-Feb    | 08:05                | 17:17               | 15:16              | 15:45            |
| 05-Feb    | 08:03                | 17:19               | 15:15              | 15:46            |
| 06-Feb    | 08:01                | 17:21               | 15:15              | 15:46            |
| 07-Feb    | 07:59                | 17:23               | 15:15              | 15:47            |
| 08-Feb    | 07:58                | 17:24               | 15:15              | 15:47            |
| 09-Feb    | 07:56                | 17:26               | 15:15              | 15:47            |
| 10-Feb    | 07:54                | 17:28               | 15:15              | 15:47            |
| 11-Feb    | 07:52                | 17:30               | 15:15              | 15:47            |
| 12-Feb    | 07:50                | 17:32               | 15:16              | 15:47            |
| 13-Feb    | 07:48                | 17:34               | 15:16              | 15:46            |
| 14-Feb    | 07:46                | 17:36               | 15:17              | 15:45            |
| 15-Feb    | 07:44                | 17:38               | 15:18              | 15:45            |
| 16-Feb    | 07:42                | 17:40               | 15:19              | 15:43            |
| 17-Feb    | 07:40                | 17:42               | 15:21              | 15:42            |
| 18-Feb    | 07:38                | 17:44               | 15:23              | 15:40            |
| 19-Feb    | 07:36                | 17:45               | 15:25              | 15:37            |
| 22-Oct    | 07:06                | 17:15               | 14:55              | 15:08            |
| 23-Oct    | 07:07                | 17:13               | 14:53              | 15:11            |
| 24-Oct    | 07:09                | 17:11               | 14:51              | 15:12            |
| 25-Oct    | 07:11                | 17:09               | 14:49              | 15:14            |
| 26-Oct    | 07:13                | 17:07               | 14:48              | 15:14            |
| 27-Oct    | 07:15                | 17:05               | 14:47              | 15:15            |
| 28-Oct    | 07:17                | 17:03               | 14:46              | 15:16            |
| 29-Oct    | 07:18                | 17:01               | 14:45              | 15:16            |
| 30-Oct    | 07:20                | 16:59               | 14:45              | 15:16            |
| 31-Oct    | 07:22                | 16:57               | 14:45              | 15:16            |
| 01-Nov    | 07:24                | 16:55               | 14:44              | 15:16            |
| 02-Nov    | 07:26                | 16:54               | 14:44              | 15:16            |
| 03-Nov    | 07:28                | 16:52               | 14:44              | 15:16            |
| 04-Nov    | 07:29                | 16:50               | 14:45              | 15:16            |
| 05-Nov    | 07:31                | 16:48               | 14:45              | 15:15            |
| 06-Nov    | 07:33                | 16:46               | 14:46              | 15:15            |
| 07-Nov    | 07:35                | 16:45               | 14:46              | 15:14            |
| 08-Nov    | 07:37                | 16:43               | 14:20              | 14:29            |
| 08-Nov    | 07:37                | 16:43               | 14:47              | 15:13            |
| 09-Nov    | 07:39                | 16:41               | 14:17              | 14:32            |
| 09-Nov    | 07:39                | 16:41               | 14:48              | 15:12            |
| 10-Nov    | 07:41                | 16:40               | 14:15              | 14:34            |
| 10-Nov    | 07:41                | 16:40               | 14:49              | 15:11            |

| Day-Month | SunriseHours:Minutes | SunsetHours:Minutes | BeginHours:Minutes | EndHours:Minutes |
|-----------|----------------------|---------------------|--------------------|------------------|
| 11-Nov    | 07:42                | 16:38               | 14:14              | 14:35            |
| 11-Nov    | 07:42                | 16:38               | 14:51              | 15:09            |
| 12-Nov    | 07:44                | 16:37               | 14:13              | 14:36            |
| 12-Nov    | 07:44                | 16:37               | 14:53              | 15:07            |
| 13-Nov    | 07:46                | 16:35               | 14:13              | 14:37            |
| 13-Nov    | 07:46                | 16:35               | 14:56              | 15:04            |
| 14-Nov    | 07:48                | 16:34               | 14:12              | 14:38            |
| 15-Nov    | 07:50                | 16:32               | 14:12              | 14:39            |
| 16-Nov    | 07:51                | 16:31               | 14:11              | 14:39            |
| 17-Nov    | 07:53                | 16:29               | 14:11              | 14:40            |
| 18-Nov    | 07:55                | 16:28               | 14:11              | 14:40            |
| 19-Nov    | 07:57                | 16:27               | 14:11              | 14:40            |
| 20-Nov    | 07:58                | 16:26               | 14:12              | 14:41            |
| 21-Nov    | 08:00                | 16:24               | 14:12              | 14:41            |
| 22-Nov    | 08:02                | 16:23               | 14:12              | 14:41            |
| 23-Nov    | 08:03                | 16:22               | 14:12              | 14:41            |
| 24-Nov    | 08:05                | 16:21               | 14:13              | 14:41            |
| 25-Nov    | 08:07                | 16:20               | 14:13              | 14:42            |
| 26-Nov    | 08:08                | 16:19               | 14:14              | 14:42            |
| 27-Nov    | 08:10                | 16:18               | 14:14              | 14:42            |
| 28-Nov    | 08:11                | 16:17               | 14:15              | 14:41            |
| 29-Nov    | 08:13                | 16:17               | 14:16              | 14:41            |
| 30-Nov    | 08:14                | 16:16               | 14:16              | 14:41            |
| 01-Dec    | 08:16                | 16:15               | 14:17              | 14:41            |
| 02-Dec    | 08:17                | 16:15               | 14:18              | 14:41            |
| 03-Dec    | 08:19                | 16:14               | 14:19              | 14:41            |
| 04-Dec    | 08:20                | 16:13               | 14:20              | 14:41            |
| 05-Dec    | 08:21                | 16:13               | 14:21              | 14:40            |
| 06-Dec    | 08:23                | 16:13               | 14:22              | 14:40            |
| 07-Dec    | 08:24                | 16:12               | 14:23              | 14:40            |
| 08-Dec    | 08:25                | 16:12               | 14:24              | 14:39            |
| 09-Dec    | 08:26                | 16:12               | 14:25              | 14:39            |
| 10-Dec    | 08:27                | 16:12               | 14:26              | 14:39            |
| 11-Dec    | 08:28                | 16:11               | 14:28              | 14:38            |
| 12-Dec    | 08:29                | 16:11               | 14:29              | 14:38            |
| 13-Dec    | 08:30                | 16:11               | 14:30              | 14:37            |
| 14-Dec    | 08:31                | 16:11               | 14:32              | 14:36            |
| 28-Dec    | 08:38                | 16:19               | 14:39              | 14:44            |
| 29-Dec    | 08:38                | 16:19               | 14:38              | 14:46            |
| 30-Dec    | 08:38                | 16:20               | 14:37              | 14:47            |
| 31-Dec    | 08:38                | 16:21               | 14:37              | 14:48            |

Turbine 5

There are no shadows cast by this turbine

Turbine 6

| Day-Month | SunriseHours:Minutes | SunsetHours:Minutes | BeginHours:Minutes | EndHours:Minutes |
|-----------|----------------------|---------------------|--------------------|------------------|
|-----------|----------------------|---------------------|--------------------|------------------|



| Day-Month | SunriseHours:Minutes | SunsetHours:Minutes | BeginHours:Minutes | EndHours:Minutes |
|-----------|----------------------|---------------------|--------------------|------------------|
| 01-Jan    | 08:38                | 16:22               | 12:45              | 14:48            |
| 02-Jan    | 08:38                | 16:23               | 12:46              | 14:49            |
| 03-Jan    | 08:38                | 16:24               | 12:47              | 14:50            |
| 04-Jan    | 08:38                | 16:25               | 12:48              | 14:51            |
| 05-Jan    | 08:37                | 16:26               | 12:49              | 14:51            |
| 06-Jan    | 08:37                | 16:28               | 12:51              | 14:52            |
| 07-Jan    | 08:36                | 16:29               | 12:53              | 13:05            |
| 07-Jan    | 08:36                | 16:29               | 13:04              | 14:53            |
| 08-Jan    | 08:36                | 16:30               | 12:55              | 13:03            |
| 08-Jan    | 08:36                | 16:30               | 13:07              | 14:54            |
| 09-Jan    | 08:35                | 16:32               | 13:10              | 14:55            |
| 10-Jan    | 08:35                | 16:33               | 13:10              | 14:55            |
| 11-Jan    | 08:34                | 16:35               | 13:11              | 14:56            |
| 12-Jan    | 08:34                | 16:36               | 13:11              | 14:57            |
| 13-Jan    | 08:33                | 16:38               | 13:12              | 14:57            |
| 14-Jan    | 08:32                | 16:39               | 13:12              | 14:58            |
| 15-Jan    | 08:31                | 16:41               | 13:13              | 14:59            |
| 16-Jan    | 08:30                | 16:42               | 13:14              | 14:59            |
| 17-Jan    | 08:29                | 16:44               | 13:14              | 14:59            |
| 18-Jan    | 08:28                | 16:46               | 13:15              | 15:00            |
| 19-Jan    | 08:27                | 16:47               | 13:16              | 13:52            |
| 19-Jan    | 08:27                | 16:47               | 13:52              | 14:04            |
| 19-Jan    | 08:27                | 16:47               | 14:04              | 15:00            |
| 20-Jan    | 08:26                | 16:49               | 13:17              | 13:52            |
| 20-Jan    | 08:26                | 16:49               | 13:55              | 14:02            |
| 20-Jan    | 08:26                | 16:49               | 14:08              | 14:11            |
| 20-Jan    | 08:26                | 16:49               | 14:14              | 15:00            |
| 21-Jan    | 08:25                | 16:51               | 13:17              | 13:52            |
| 21-Jan    | 08:25                | 16:51               | 14:15              | 15:01            |
| 22-Jan    | 08:24                | 16:53               | 13:18              | 13:52            |
| 22-Jan    | 08:24                | 16:53               | 14:16              | 15:01            |
| 23-Jan    | 08:23                | 16:54               | 13:19              | 13:51            |
| 23-Jan    | 08:23                | 16:54               | 14:18              | 15:01            |
| 24-Jan    | 08:21                | 16:56               | 13:21              | 13:50            |
| 24-Jan    | 08:21                | 16:56               | 14:19              | 15:01            |
| 25-Jan    | 08:20                | 16:58               | 13:22              | 13:50            |
| 25-Jan    | 08:20                | 16:58               | 14:21              | 15:01            |
| 26-Jan    | 08:19                | 17:00               | 13:24              | 13:49            |
| 26-Jan    | 08:19                | 17:00               | 14:23              | 15:00            |
| 27-Jan    | 08:17                | 17:02               | 13:25              | 13:47            |
| 27-Jan    | 08:17                | 17:02               | 14:26              | 15:00            |
| 28-Jan    | 08:16                | 17:04               | 13:27              | 13:46            |
| 28-Jan    | 08:16                | 17:04               | 14:32              | 14:59            |
| 29-Jan    | 08:14                | 17:05               | 13:30              | 13:43            |
| 29-Jan    | 08:14                | 17:05               | 14:33              | 14:59            |
| 30-Jan    | 08:13                | 17:07               | 14:35              | 14:58            |
| 31-Jan    | 08:11                | 17:09               | 14:36              | 14:57            |
| 01-Feb    | 08:10                | 17:11               | 14:38              | 14:55            |
| 02-Feb    | 08:08                | 17:13               | 14:41              | 14:52            |

| Day-Month | SunriseHours:Minutes | SunsetHours:Minutes | BeginHours:Minutes | EndHours:Minutes |
|-----------|----------------------|---------------------|--------------------|------------------|
| 11-Feb    | 07:52                | 17:30               | 16:10              | 16:18            |
| 12-Feb    | 07:50                | 17:32               | 16:07              | 16:22            |
| 13-Feb    | 07:48                | 17:34               | 16:05              | 16:24            |
| 14-Feb    | 07:46                | 17:36               | 16:04              | 16:27            |
| 15-Feb    | 07:44                | 17:38               | 16:02              | 16:29            |
| 16-Feb    | 07:42                | 17:40               | 16:02              | 16:30            |
| 17-Feb    | 07:40                | 17:42               | 16:01              | 16:32            |
| 18-Feb    | 07:38                | 17:44               | 16:00              | 16:33            |
| 19-Feb    | 07:36                | 17:45               | 16:00              | 16:33            |
| 20-Feb    | 07:34                | 17:47               | 16:00              | 16:34            |
| 21-Feb    | 07:32                | 17:49               | 16:00              | 16:34            |
| 22-Feb    | 07:30                | 17:51               | 16:00              | 16:34            |
| 23-Feb    | 07:28                | 17:53               | 16:00              | 16:34            |
| 24-Feb    | 07:25                | 17:55               | 16:00              | 16:34            |
| 25-Feb    | 07:23                | 17:57               | 16:01              | 16:34            |
| 26-Feb    | 07:21                | 17:59               | 16:01              | 16:33            |
| 27-Feb    | 07:19                | 18:01               | 16:02              | 16:32            |
| 28-Feb    | 07:17                | 18:02               | 16:04              | 16:31            |
| 29-Feb    | 07:14                | 18:04               | 16:05              | 16:30            |
| 01-Mar    | 07:12                | 18:06               | 16:09              | 16:28            |
| 02-Mar    | 07:10                | 18:08               | 16:11              | 16:26            |
| 03-Mar    | 07:08                | 18:10               | 16:16              | 16:21            |
| 09-Oct    | 06:42                | 17:44               | 15:49              | 15:59            |
| 10-Oct    | 06:44                | 17:42               | 15:45              | 16:01            |
| 11-Oct    | 06:46                | 17:40               | 15:42              | 16:03            |
| 12-Oct    | 06:48                | 17:37               | 15:39              | 16:04            |
| 13-Oct    | 06:49                | 17:35               | 15:37              | 16:05            |
| 14-Oct    | 06:51                | 17:33               | 15:35              | 16:05            |
| 15-Oct    | 06:53                | 17:31               | 15:34              | 16:06            |
| 16-Oct    | 06:55                | 17:28               | 15:33              | 16:06            |
| 17-Oct    | 06:56                | 17:26               | 15:32              | 16:06            |
| 18-Oct    | 06:58                | 17:24               | 15:31              | 16:06            |
| 19-Oct    | 07:00                | 17:22               | 15:31              | 16:06            |
| 20-Oct    | 07:02                | 17:20               | 15:31              | 16:05            |
| 21-Oct    | 07:04                | 17:18               | 15:31              | 16:05            |
| 22-Oct    | 07:06                | 17:15               | 15:31              | 16:04            |
| 23-Oct    | 07:07                | 17:13               | 15:31              | 16:03            |
| 24-Oct    | 07:09                | 17:11               | 15:31              | 16:02            |
| 25-Oct    | 07:11                | 17:09               | 15:32              | 16:00            |
| 26-Oct    | 07:13                | 17:07               | 15:32              | 15:58            |
| 27-Oct    | 07:15                | 17:05               | 15:33              | 15:56            |
| 28-Oct    | 07:17                | 17:03               | 15:35              | 15:54            |
| 29-Oct    | 07:18                | 17:01               | 15:37              | 15:51            |
| 30-Oct    | 07:20                | 16:59               | 15:40              | 15:47            |
| 08-Nov    | 07:37                | 16:43               | 14:12              | 14:22            |
| 09-Nov    | 07:39                | 16:41               | 14:09              | 14:25            |
| 10-Nov    | 07:41                | 16:40               | 14:07              | 14:27            |
| 11-Nov    | 07:42                | 16:38               | 14:06              | 14:28            |
| 12-Nov    | 07:44                | 16:37               | 13:02              | 13:13            |

| Day-Month | SunriseHours:Minutes | SunsetHours:Minutes | BeginHours:Minutes | EndHours:Minutes |
|-----------|----------------------|---------------------|--------------------|------------------|
| 12-Nov    | 07:44                | 16:37               | 14:05              | 14:30            |
| 13-Nov    | 07:46                | 16:35               | 12:59              | 13:17            |
| 13-Nov    | 07:46                | 16:35               | 14:04              | 14:31            |
| 14-Nov    | 07:48                | 16:34               | 12:58              | 13:19            |
| 14-Nov    | 07:48                | 16:34               | 13:58              | 14:32            |
| 15-Nov    | 07:50                | 16:32               | 12:56              | 13:21            |
| 15-Nov    | 07:50                | 16:32               | 13:56              | 14:32            |
| 16-Nov    | 07:51                | 16:31               | 12:55              | 13:22            |
| 16-Nov    | 07:51                | 16:31               | 13:54              | 14:33            |
| 17-Nov    | 07:53                | 16:29               | 12:54              | 13:23            |
| 17-Nov    | 07:53                | 16:29               | 13:53              | 14:34            |
| 18-Nov    | 07:55                | 16:28               | 12:53              | 13:24            |
| 18-Nov    | 07:55                | 16:28               | 13:51              | 14:34            |
| 19-Nov    | 07:57                | 16:27               | 12:53              | 13:25            |
| 19-Nov    | 07:57                | 16:27               | 13:51              | 14:35            |
| 20-Nov    | 07:58                | 16:26               | 12:52              | 13:26            |
| 20-Nov    | 07:58                | 16:26               | 13:50              | 14:35            |
| 21-Nov    | 08:00                | 16:24               | 12:52              | 13:27            |
| 21-Nov    | 08:00                | 16:24               | 13:32              | 13:35            |
| 21-Nov    | 08:00                | 16:24               | 13:50              | 14:36            |
| 22-Nov    | 08:02                | 16:23               | 12:52              | 13:28            |
| 22-Nov    | 08:02                | 16:23               | 13:28              | 13:39            |
| 22-Nov    | 08:02                | 16:23               | 13:40              | 13:50            |
| 22-Nov    | 08:02                | 16:23               | 13:49              | 14:36            |
| 23-Nov    | 08:03                | 16:22               | 12:51              | 14:36            |
| 24-Nov    | 08:05                | 16:21               | 12:51              | 14:36            |
| 25-Nov    | 08:07                | 16:20               | 12:51              | 14:37            |
| 26-Nov    | 08:08                | 16:19               | 12:51              | 14:37            |
| 27-Nov    | 08:10                | 16:18               | 12:51              | 14:37            |
| 28-Nov    | 08:11                | 16:17               | 12:52              | 14:37            |
| 29-Nov    | 08:13                | 16:17               | 12:52              | 14:37            |
| 30-Nov    | 08:14                | 16:16               | 12:52              | 14:37            |
| 01-Dec    | 08:16                | 16:15               | 12:52              | 14:37            |
| 02-Dec    | 08:17                | 16:15               | 12:53              | 14:37            |
| 03-Dec    | 08:19                | 16:14               | 12:40              | 12:45            |
| 03-Dec    | 08:19                | 16:14               | 12:53              | 14:37            |
| 04-Dec    | 08:20                | 16:13               | 12:38              | 12:48            |
| 04-Dec    | 08:20                | 16:13               | 12:50              | 14:37            |
| 05-Dec    | 08:21                | 16:13               | 12:37              | 14:38            |
| 06-Dec    | 08:23                | 16:13               | 12:36              | 14:38            |
| 07-Dec    | 08:24                | 16:12               | 12:35              | 14:38            |
| 08-Dec    | 08:25                | 16:12               | 12:35              | 14:38            |
| 09-Dec    | 08:26                | 16:12               | 12:35              | 14:38            |
| 10-Dec    | 08:27                | 16:12               | 12:35              | 14:38            |
| 11-Dec    | 08:28                | 16:11               | 12:35              | 14:38            |
| 12-Dec    | 08:29                | 16:11               | 12:35              | 14:38            |
| 13-Dec    | 08:30                | 16:11               | 12:35              | 14:38            |
| 14-Dec    | 08:31                | 16:11               | 12:35              | 14:38            |
| 15-Dec    | 08:32                | 16:12               | 12:36              | 14:38            |

| Day-Month | SunriseHours:Minutes | SunsetHours:Minutes | BeginHours:Minutes | EndHours:Minutes |
|-----------|----------------------|---------------------|--------------------|------------------|
| 16-Dec    | 08:33                | 16:12               | 12:36              | 14:38            |
| 17-Dec    | 08:34                | 16:12               | 12:36              | 14:39            |
| 18-Dec    | 08:34                | 16:12               | 12:37              | 14:39            |
| 19-Dec    | 08:35                | 16:13               | 12:37              | 14:39            |
| 20-Dec    | 08:36                | 16:13               | 12:37              | 14:40            |
| 21-Dec    | 08:36                | 16:14               | 12:38              | 14:40            |
| 22-Dec    | 08:37                | 16:14               | 12:38              | 14:41            |
| 23-Dec    | 08:37                | 16:15               | 12:39              | 14:41            |
| 24-Dec    | 08:37                | 16:15               | 12:40              | 14:42            |
| 25-Dec    | 08:38                | 16:16               | 12:40              | 14:43            |
| 26-Dec    | 08:38                | 16:17               | 12:41              | 14:43            |
| 27-Dec    | 08:38                | 16:18               | 12:41              | 14:44            |
| 28-Dec    | 08:38                | 16:19               | 12:42              | 14:45            |
| 29-Dec    | 08:38                | 16:19               | 12:43              | 14:46            |
| 30-Dec    | 08:38                | 16:20               | 12:44              | 14:47            |
| 31-Dec    | 08:38                | 16:21               | 12:45              | 14:48            |

Turbine 7

There are no shadows cast by this turbine



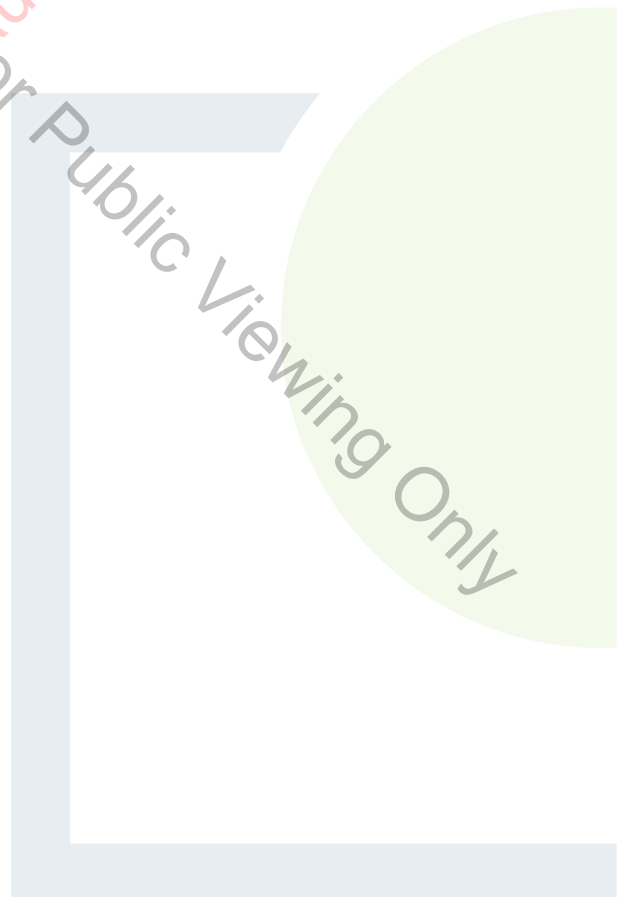
**FEHILY  
TIMONEY**  
— 30 YEARS —

CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE & PLANNING

## **APPENDIX 12.3**

Total Theoretical Shadow  
Times per Receptor

Carlow County Council, Planning Authority, Public Viewing Only



**Appendix 12-3: Total Theoretical Shadow Times (UTC) Per Receptor**

House Easting Northing  
 1 682136 657373

| Turbine | Easting | Northing | Date   | Start Time | End Time | Duration | % Cover |
|---------|---------|----------|--------|------------|----------|----------|---------|
| 3       | 683391  | 657113   | 18-Mar | 07:44:12   | 07:51:51 | 00:07:39 | 27.04   |
| 3       | 683391  | 657113   | 19-Mar | 07:40:33   | 07:54:55 | 00:14:22 | 100     |
| 3       | 683391  | 657113   | 20-Mar | 07:38:17   | 07:56:35 | 00:18:18 | 100     |
| 3       | 683391  | 657113   | 21-Mar | 07:35:45   | 07:57:40 | 00:21:55 | 100     |
| 3       | 683391  | 657113   | 22-Mar | 07:33:45   | 07:58:25 | 00:24:40 | 100     |
| 3       | 683391  | 657113   | 23-Mar | 07:32:13   | 07:58:52 | 00:26:39 | 100     |
| 3       | 683391  | 657113   | 24-Mar | 07:31:02   | 07:59:06 | 00:28:04 | 100     |
| 3       | 683391  | 657113   | 25-Mar | 07:30:06   | 07:59:06 | 00:29:00 | 100     |
| 3       | 683391  | 657113   | 26-Mar | 07:29:23   | 07:58:55 | 00:29:32 | 100     |
| 3       | 683391  | 657113   | 27-Mar | 07:28:53   | 07:58:33 | 00:29:40 | 100     |
| 3       | 683391  | 657113   | 28-Mar | 07:28:33   | 07:57:59 | 00:29:26 | 100     |
| 3       | 683391  | 657113   | 29-Mar | 07:28:25   | 07:57:13 | 00:28:48 | 100     |
| 3       | 683391  | 657113   | 30-Mar | 07:28:29   | 07:56:14 | 00:27:45 | 100     |
| 3       | 683391  | 657113   | 31-Mar | 07:28:45   | 07:54:59 | 00:26:14 | 100     |
| 3       | 683391  | 657113   | 01-Apr | 07:29:16   | 07:53:23 | 00:24:07 | 100     |
| 3       | 683391  | 657113   | 02-Apr | 07:30:05   | 07:51:17 | 00:21:12 | 100     |
| 3       | 683391  | 657113   | 03-Apr | 07:31:19   | 07:49:08 | 00:17:49 | 100     |
| 3       | 683391  | 657113   | 04-Apr | 07:33:14   | 07:46:37 | 00:13:24 | 75.82   |
| 3       | 683391  | 657113   | 05-Apr | 07:37:39   | 07:41:37 | 00:03:58 | 4.68    |
| 3       | 683391  | 657113   | 06-Sep | 07:31:57   | 07:38:37 | 00:06:40 | 15.76   |
| 3       | 683391  | 657113   | 07-Sep | 07:27:52   | 07:42:01 | 00:14:10 | 85.39   |
| 3       | 683391  | 657113   | 08-Sep | 07:25:28   | 07:43:44 | 00:18:17 | 100     |
| 3       | 683391  | 657113   | 09-Sep | 07:23:40   | 07:45:16 | 00:21:36 | 100     |
| 3       | 683391  | 657113   | 10-Sep | 07:22:16   | 07:46:38 | 00:24:22 | 100     |
| 3       | 683391  | 657113   | 11-Sep | 07:21:08   | 07:47:31 | 00:26:23 | 100     |
| 3       | 683391  | 657113   | 12-Sep | 07:20:14   | 07:48:05 | 00:27:51 | 100     |
| 3       | 683391  | 657113   | 13-Sep | 07:19:32   | 07:48:23 | 00:28:52 | 100     |
| 3       | 683391  | 657113   | 14-Sep | 07:19:01   | 07:48:29 | 00:29:28 | 100     |
| 3       | 683391  | 657113   | 15-Sep | 07:18:41   | 07:48:22 | 00:29:42 | 100     |
| 3       | 683391  | 657113   | 16-Sep | 07:18:32   | 07:48:05 | 00:29:33 | 100     |
| 3       | 683391  | 657113   | 17-Sep | 07:18:34   | 07:47:36 | 00:29:02 | 100     |
| 3       | 683391  | 657113   | 18-Sep | 07:18:50   | 07:46:57 | 00:28:07 | 100     |
| 3       | 683391  | 657113   | 19-Sep | 07:19:20   | 07:46:05 | 00:26:44 | 100     |
| 3       | 683391  | 657113   | 20-Sep | 07:20:10   | 07:44:59 | 00:24:49 | 100     |
| 3       | 683391  | 657113   | 21-Sep | 07:21:27   | 07:43:37 | 00:22:10 | 100     |
| 3       | 683391  | 657113   | 22-Sep | 07:23:21   | 07:41:56 | 00:18:35 | 100     |
| 3       | 683391  | 657113   | 23-Sep | 07:24:52   | 07:39:44 | 00:14:52 | 100     |
| 3       | 683391  | 657113   | 24-Sep | 07:27:33   | 07:36:21 | 00:08:48 | 35.75   |

House Easting Northing  
 2 685347 656174

There are no shadows cast on this Receptor

House Easting Northing  
 3 685222 656218

There are no shadows cast on this Receptor

House Easting Northing  
 4 685156 656264

There are no shadows cast on this Receptor

House Easting Northing  
 5 682089 657011

| Turbine | Easting | Northing | Date   | Start Time | End Time | Duration | % Cover |
|---------|---------|----------|--------|------------|----------|----------|---------|
| 3       | 683391  | 657113   | 12-Apr | 06:49:48   | 06:51:38 | 00:01:50 | 1.49    |
| 3       | 683391  | 657113   | 13-Apr | 06:44:24   | 06:56:31 | 00:12:07 | 69.32   |
| 3       | 683391  | 657113   | 14-Apr | 06:41:56   | 06:58:28 | 00:16:32 | 100     |
| 3       | 683391  | 657113   | 15-Apr | 06:40:10   | 06:59:43 | 00:19:33 | 100     |
| 3       | 683391  | 657113   | 16-Apr | 06:38:04   | 07:00:37 | 00:22:33 | 100     |
| 3       | 683391  | 657113   | 17-Apr | 06:36:18   | 07:01:16 | 00:24:58 | 100     |
| 3       | 683391  | 657113   | 18-Apr | 06:34:56   | 07:01:41 | 00:26:45 | 100     |
| 3       | 683391  | 657113   | 19-Apr | 06:33:51   | 07:01:55 | 00:28:04 | 100     |
| 3       | 683391  | 657113   | 20-Apr | 06:33:00   | 07:01:59 | 00:28:59 | 100     |
| 3       | 683391  | 657113   | 21-Apr | 06:32:21   | 07:01:56 | 00:29:35 | 100     |
| 3       | 683391  | 657113   | 22-Apr | 06:31:52   | 07:01:43 | 00:29:51 | 100     |
| 3       | 683391  | 657113   | 23-Apr | 06:31:33   | 07:01:23 | 00:29:50 | 100     |
| 3       | 683391  | 657113   | 24-Apr | 06:31:22   | 07:00:54 | 00:29:32 | 100     |
| 3       | 683391  | 657113   | 25-Apr | 06:31:20   | 07:00:19 | 00:28:59 | 100     |
| 3       | 683391  | 657113   | 26-Apr | 06:31:27   | 06:59:42 | 00:28:14 | 100     |
| 3       | 683391  | 657113   | 27-Apr | 06:31:44   | 06:58:56 | 00:27:12 | 100     |
| 3       | 683391  | 657113   | 28-Apr | 06:32:10   | 06:57:59 | 00:25:49 | 100     |
| 3       | 683391  | 657113   | 29-Apr | 06:32:47   | 06:56:49 | 00:24:02 | 100     |
| 3       | 683391  | 657113   | 30-Apr | 06:33:37   | 06:55:22 | 00:21:45 | 100     |
| 3       | 683391  | 657113   | 01-May | 06:34:44   | 06:53:28 | 00:18:44 | 100     |
| 3       | 683391  | 657113   | 02-May | 06:36:15   | 06:50:39 | 00:14:24 | 94.69   |
| 3       | 683391  | 657113   | 03-May | 06:38:34   | 06:48:10 | 00:09:36 | 40.07   |
| 3       | 683391  | 657113   | 08-Aug | 06:49:32   | 06:54:44 | 00:05:13 | 11.45   |
| 3       | 683391  | 657113   | 09-Aug | 06:45:56   | 06:58:02 | 00:12:06 | 64.71   |
| 3       | 683391  | 657113   | 10-Aug | 06:43:50   | 07:00:24 | 00:16:35 | 100     |
| 3       | 683391  | 657113   | 11-Aug | 06:42:15   | 07:02:26 | 00:20:11 | 100     |
| 3       | 683391  | 657113   | 12-Aug | 06:40:59   | 07:03:47 | 00:22:49 | 100     |
| 3       | 683391  | 657113   | 13-Aug | 06:39:56   | 07:04:47 | 00:24:50 | 100     |
| 3       | 683391  | 657113   | 14-Aug | 06:39:04   | 07:05:30 | 00:26:26 | 100     |
| 3       | 683391  | 657113   | 15-Aug | 06:38:22   | 07:06:01 | 00:27:39 | 100     |
| 3       | 683391  | 657113   | 16-Aug | 06:37:47   | 07:06:21 | 00:28:34 | 100     |
| 3       | 683391  | 657113   | 17-Aug | 06:37:21   | 07:06:33 | 00:29:13 | 100     |
| 3       | 683391  | 657113   | 18-Aug | 06:37:02   | 07:06:43 | 00:29:42 | 100     |
| 3       | 683391  | 657113   | 19-Aug | 06:36:51   | 07:06:44 | 00:29:54 | 100     |

|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 3 | 683391 | 657113 | 20-Aug | 06:36:47 | 07:06:36 | 00:29:49 | 100   |
| 3 | 683391 | 657113 | 21-Aug | 06:36:53 | 07:06:20 | 00:29:27 | 100   |
| 3 | 683391 | 657113 | 22-Aug | 06:37:07 | 07:05:54 | 00:28:47 | 100   |
| 3 | 683391 | 657113 | 23-Aug | 06:37:33 | 07:05:18 | 00:27:46 | 100   |
| 3 | 683391 | 657113 | 24-Aug | 06:38:12 | 07:04:32 | 00:26:21 | 100   |
| 3 | 683391 | 657113 | 25-Aug | 06:39:08 | 07:03:34 | 00:24:26 | 100   |
| 3 | 683391 | 657113 | 26-Aug | 06:40:30 | 07:02:22 | 00:21:52 | 100   |
| 3 | 683391 | 657113 | 27-Aug | 06:41:56 | 07:00:53 | 00:18:57 | 100   |
| 3 | 683391 | 657113 | 28-Aug | 06:43:15 | 06:58:59 | 00:15:45 | 100   |
| 3 | 683391 | 657113 | 29-Aug | 06:45:21 | 06:56:18 | 00:10:57 | 55.57 |

House Easting Northing  
6 685157 656089

There are no shadows cast on this Receptor

House Easting Northing  
7 685103 656117

There are no shadows cast on this Receptor

House Easting Northing  
8 682123 656623

| Turbine | Easting | Northing | Date   | Start Time | End Time | Duration | % Cover |
|---------|---------|----------|--------|------------|----------|----------|---------|
| 3       | 683391  | 657113   | 15-May | 05:48:01   | 05:54:54 | 00:06:53 | 20.01   |
| 3       | 683391  | 657113   | 16-May | 05:45:28   | 05:57:27 | 00:11:59 | 62.93   |
| 3       | 683391  | 657113   | 17-May | 05:43:52   | 05:59:03 | 00:15:11 | 100     |
| 3       | 683391  | 657113   | 18-May | 05:42:42   | 06:00:16 | 00:17:35 | 100     |
| 3       | 683391  | 657113   | 19-May | 05:41:26   | 06:01:15 | 00:19:49 | 100     |
| 3       | 683391  | 657113   | 20-May | 05:40:21   | 06:02:03 | 00:21:42 | 100     |
| 3       | 683391  | 657113   | 21-May | 05:39:30   | 06:02:46 | 00:23:16 | 100     |
| 3       | 683391  | 657113   | 22-May | 05:38:50   | 06:03:23 | 00:24:33 | 100     |
| 3       | 683391  | 657113   | 23-May | 05:38:18   | 06:03:55 | 00:25:36 | 100     |
| 3       | 683391  | 657113   | 24-May | 05:37:53   | 06:04:22 | 00:26:29 | 100     |
| 3       | 683391  | 657113   | 25-May | 05:37:33   | 06:04:46 | 00:27:12 | 100     |
| 3       | 683391  | 657113   | 26-May | 05:37:19   | 06:05:06 | 00:27:48 | 100     |
| 3       | 683391  | 657113   | 27-May | 05:37:08   | 06:05:25 | 00:28:17 | 100     |
| 3       | 683391  | 657113   | 28-May | 05:37:01   | 06:05:41 | 00:28:39 | 100     |
| 3       | 683391  | 657113   | 29-May | 05:36:58   | 06:05:54 | 00:28:57 | 100     |
| 3       | 683391  | 657113   | 30-May | 05:36:57   | 06:06:07 | 00:29:09 | 100     |
| 3       | 683391  | 657113   | 31-May | 05:36:59   | 06:06:17 | 00:29:18 | 100     |
| 3       | 683391  | 657113   | 01-Jun | 05:37:04   | 06:06:27 | 00:29:23 | 100     |
| 3       | 683391  | 657113   | 02-Jun | 05:37:10   | 06:06:36 | 00:29:25 | 100     |
| 3       | 683391  | 657113   | 03-Jun | 05:37:19   | 06:06:43 | 00:29:24 | 100     |
| 3       | 683391  | 657113   | 04-Jun | 05:37:29   | 06:06:50 | 00:29:21 | 100     |
| 3       | 683391  | 657113   | 05-Jun | 05:37:40   | 06:06:57 | 00:29:16 | 100     |
| 3       | 683391  | 657113   | 06-Jun | 05:37:53   | 06:07:03 | 00:29:10 | 100     |
| 3       | 683391  | 657113   | 07-Jun | 05:38:06   | 06:07:08 | 00:29:02 | 100     |



|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 3 | 683391 | 657113 | 08-Jun | 05:38:21 | 06:07:14 | 00:28:53 | 100   |
| 3 | 683391 | 657113 | 09-Jun | 05:38:36 | 06:07:20 | 00:28:44 | 100   |
| 3 | 683391 | 657113 | 10-Jun | 05:38:52 | 06:07:26 | 00:28:34 | 100   |
| 3 | 683391 | 657113 | 11-Jun | 05:39:08 | 06:07:32 | 00:28:24 | 100   |
| 3 | 683391 | 657113 | 12-Jun | 05:39:24 | 06:07:38 | 00:28:14 | 100   |
| 3 | 683391 | 657113 | 13-Jun | 05:39:41 | 06:07:45 | 00:28:05 | 100   |
| 3 | 683391 | 657113 | 14-Jun | 05:39:57 | 06:07:53 | 00:27:56 | 100   |
| 3 | 683391 | 657113 | 15-Jun | 05:40:13 | 06:08:01 | 00:27:48 | 100   |
| 3 | 683391 | 657113 | 16-Jun | 05:40:29 | 06:08:10 | 00:27:41 | 100   |
| 3 | 683391 | 657113 | 17-Jun | 05:40:44 | 06:08:20 | 00:27:35 | 100   |
| 3 | 683391 | 657113 | 18-Jun | 05:40:59 | 06:08:30 | 00:27:31 | 100   |
| 3 | 683391 | 657113 | 19-Jun | 05:41:14 | 06:08:42 | 00:27:28 | 100   |
| 3 | 683391 | 657113 | 20-Jun | 05:41:28 | 06:08:54 | 00:27:26 | 100   |
| 3 | 683391 | 657113 | 21-Jun | 05:41:41 | 06:09:07 | 00:27:26 | 100   |
| 3 | 683391 | 657113 | 22-Jun | 05:41:54 | 06:09:21 | 00:27:27 | 100   |
| 3 | 683391 | 657113 | 23-Jun | 05:42:06 | 06:09:35 | 00:27:30 | 100   |
| 3 | 683391 | 657113 | 24-Jun | 05:42:17 | 06:09:51 | 00:27:34 | 100   |
| 3 | 683391 | 657113 | 25-Jun | 05:42:27 | 06:10:06 | 00:27:39 | 100   |
| 3 | 683391 | 657113 | 26-Jun | 05:42:37 | 06:10:23 | 00:27:46 | 100   |
| 3 | 683391 | 657113 | 27-Jun | 05:42:47 | 06:10:40 | 00:27:53 | 100   |
| 3 | 683391 | 657113 | 28-Jun | 05:42:55 | 06:10:57 | 00:28:02 | 100   |
| 3 | 683391 | 657113 | 29-Jun | 05:43:04 | 06:11:15 | 00:28:11 | 100   |
| 3 | 683391 | 657113 | 30-Jun | 05:43:11 | 06:11:32 | 00:28:21 | 100   |
| 3 | 683391 | 657113 | 01-Jul | 05:43:19 | 06:11:50 | 00:28:31 | 100   |
| 3 | 683391 | 657113 | 02-Jul | 05:43:26 | 06:12:07 | 00:28:41 | 100   |
| 3 | 683391 | 657113 | 03-Jul | 05:43:34 | 06:12:24 | 00:28:50 | 100   |
| 3 | 683391 | 657113 | 04-Jul | 05:43:41 | 06:12:40 | 00:28:59 | 100   |
| 3 | 683391 | 657113 | 05-Jul | 05:43:49 | 06:12:56 | 00:29:07 | 100   |
| 3 | 683391 | 657113 | 06-Jul | 05:43:57 | 06:13:11 | 00:29:14 | 100   |
| 3 | 683391 | 657113 | 07-Jul | 05:44:05 | 06:13:25 | 00:29:20 | 100   |
| 3 | 683391 | 657113 | 08-Jul | 05:44:14 | 06:13:38 | 00:29:24 | 100   |
| 3 | 683391 | 657113 | 09-Jul | 05:44:24 | 06:13:49 | 00:29:25 | 100   |
| 3 | 683391 | 657113 | 10-Jul | 05:44:34 | 06:13:59 | 00:29:25 | 100   |
| 3 | 683391 | 657113 | 11-Jul | 05:44:46 | 06:14:07 | 00:29:21 | 100   |
| 3 | 683391 | 657113 | 12-Jul | 05:44:59 | 06:14:13 | 00:29:14 | 100   |
| 3 | 683391 | 657113 | 13-Jul | 05:45:14 | 06:14:17 | 00:29:02 | 100   |
| 3 | 683391 | 657113 | 14-Jul | 05:45:31 | 06:14:18 | 00:28:47 | 100   |
| 3 | 683391 | 657113 | 15-Jul | 05:45:50 | 06:14:17 | 00:28:27 | 100   |
| 3 | 683391 | 657113 | 16-Jul | 05:46:12 | 06:14:13 | 00:28:01 | 100   |
| 3 | 683391 | 657113 | 17-Jul | 05:46:37 | 06:14:05 | 00:27:28 | 100   |
| 3 | 683391 | 657113 | 18-Jul | 05:47:05 | 06:13:53 | 00:26:49 | 100   |
| 3 | 683391 | 657113 | 19-Jul | 05:47:37 | 06:13:38 | 00:26:00 | 100   |
| 3 | 683391 | 657113 | 20-Jul | 05:48:15 | 06:13:17 | 00:25:02 | 100   |
| 3 | 683391 | 657113 | 21-Jul | 05:48:59 | 06:12:51 | 00:23:52 | 100   |
| 3 | 683391 | 657113 | 22-Jul | 05:49:50 | 06:12:17 | 00:22:27 | 100   |
| 3 | 683391 | 657113 | 23-Jul | 05:50:53 | 06:11:37 | 00:20:44 | 100   |
| 3 | 683391 | 657113 | 24-Jul | 05:52:12 | 06:10:49 | 00:18:36 | 100   |
| 3 | 683391 | 657113 | 25-Jul | 05:53:23 | 06:09:47 | 00:16:24 | 100   |
| 3 | 683391 | 657113 | 26-Jul | 05:54:46 | 06:08:26 | 00:13:40 | 82.87 |
| 3 | 683391 | 657113 | 27-Jul | 05:56:43 | 06:06:30 | 00:09:47 | 40.99 |

House Easting Northing  
 9 682169 656565

| Turbine | Easting | Northing | Date   | Start Time | End Time | Duration | % Cover |
|---------|---------|----------|--------|------------|----------|----------|---------|
| 3       | 683391  | 657113   | 24-May | 05:37:53   | 05:45:48 | 00:07:55 | 25.59   |
| 3       | 683391  | 657113   | 25-May | 05:35:59   | 05:47:51 | 00:11:51 | 58.94   |
| 3       | 683391  | 657113   | 26-May | 05:34:44   | 05:49:17 | 00:14:33 | 91.14   |
| 3       | 683391  | 657113   | 27-May | 05:33:48   | 05:50:25 | 00:16:37 | 100     |
| 3       | 683391  | 657113   | 28-May | 05:32:57   | 05:51:22 | 00:18:25 | 100     |
| 3       | 683391  | 657113   | 29-May | 05:32:05   | 05:52:10 | 00:20:06 | 100     |
| 3       | 683391  | 657113   | 30-May | 05:31:24   | 05:52:53 | 00:21:29 | 100     |
| 3       | 683391  | 657113   | 31-May | 05:30:52   | 05:53:31 | 00:22:40 | 100     |
| 3       | 683391  | 657113   | 01-Jun | 05:30:26   | 05:54:06 | 00:23:40 | 100     |
| 3       | 683391  | 657113   | 02-Jun | 05:30:06   | 05:54:38 | 00:24:32 | 100     |
| 3       | 683391  | 657113   | 03-Jun | 05:29:50   | 05:55:07 | 00:25:17 | 100     |
| 3       | 683391  | 657113   | 04-Jun | 05:29:39   | 05:55:34 | 00:25:55 | 100     |
| 3       | 683391  | 657113   | 05-Jun | 05:29:30   | 05:55:59 | 00:26:28 | 100     |
| 3       | 683391  | 657113   | 06-Jun | 05:29:25   | 05:56:21 | 00:26:57 | 100     |
| 3       | 683391  | 657113   | 07-Jun | 05:29:22   | 05:56:43 | 00:27:21 | 100     |
| 3       | 683391  | 657113   | 08-Jun | 05:29:21   | 05:57:03 | 00:27:42 | 100     |
| 3       | 683391  | 657113   | 09-Jun | 05:29:22   | 05:57:22 | 00:27:59 | 100     |
| 3       | 683391  | 657113   | 10-Jun | 05:29:25   | 05:57:40 | 00:28:15 | 100     |
| 3       | 683391  | 657113   | 11-Jun | 05:29:30   | 05:57:58 | 00:28:28 | 100     |
| 3       | 683391  | 657113   | 12-Jun | 05:29:36   | 05:58:14 | 00:28:38 | 100     |
| 3       | 683391  | 657113   | 13-Jun | 05:29:43   | 05:58:30 | 00:28:47 | 100     |
| 3       | 683391  | 657113   | 14-Jun | 05:29:51   | 05:58:46 | 00:28:55 | 100     |
| 3       | 683391  | 657113   | 15-Jun | 05:30:00   | 05:59:01 | 00:29:01 | 100     |
| 3       | 683391  | 657113   | 16-Jun | 05:30:10   | 05:59:16 | 00:29:06 | 100     |
| 3       | 683391  | 657113   | 17-Jun | 05:30:21   | 05:59:30 | 00:29:09 | 100     |
| 3       | 683391  | 657113   | 18-Jun | 05:30:33   | 05:59:45 | 00:29:12 | 100     |
| 3       | 683391  | 657113   | 19-Jun | 05:30:45   | 05:59:58 | 00:29:14 | 100     |
| 3       | 683391  | 657113   | 20-Jun | 05:30:57   | 06:00:12 | 00:29:15 | 100     |
| 3       | 683391  | 657113   | 21-Jun | 05:31:10   | 06:00:25 | 00:29:15 | 100     |
| 3       | 683391  | 657113   | 22-Jun | 05:31:24   | 06:00:38 | 00:29:14 | 100     |
| 3       | 683391  | 657113   | 23-Jun | 05:31:38   | 06:00:51 | 00:29:13 | 100     |
| 3       | 683391  | 657113   | 24-Jun | 05:31:52   | 06:01:03 | 00:29:10 | 100     |
| 3       | 683391  | 657113   | 25-Jun | 05:32:07   | 06:01:14 | 00:29:07 | 100     |
| 3       | 683391  | 657113   | 26-Jun | 05:32:22   | 06:01:25 | 00:29:03 | 100     |
| 3       | 683391  | 657113   | 27-Jun | 05:32:38   | 06:01:35 | 00:28:57 | 100     |
| 3       | 683391  | 657113   | 28-Jun | 05:32:55   | 06:01:45 | 00:28:50 | 100     |
| 3       | 683391  | 657113   | 29-Jun | 05:33:12   | 06:01:54 | 00:28:42 | 100     |
| 3       | 683391  | 657113   | 30-Jun | 05:33:30   | 06:02:01 | 00:28:32 | 100     |
| 3       | 683391  | 657113   | 01-Jul | 05:33:48   | 06:02:08 | 00:28:20 | 100     |
| 3       | 683391  | 657113   | 02-Jul | 05:34:08   | 06:02:13 | 00:28:06 | 100     |
| 3       | 683391  | 657113   | 03-Jul | 05:34:29   | 06:02:17 | 00:27:49 | 100     |
| 3       | 683391  | 657113   | 04-Jul | 05:34:51   | 06:02:20 | 00:27:29 | 100     |
| 3       | 683391  | 657113   | 05-Jul | 05:35:14   | 06:02:20 | 00:27:06 | 100     |
| 3       | 683391  | 657113   | 06-Jul | 05:35:39   | 06:02:19 | 00:26:39 | 100     |

|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 3 | 683391 | 657113 | 07-Jul | 05:36:07 | 06:02:15 | 00:26:08 | 100   |
| 3 | 683391 | 657113 | 08-Jul | 05:36:37 | 06:02:09 | 00:25:32 | 100   |
| 3 | 683391 | 657113 | 09-Jul | 05:37:09 | 06:01:59 | 00:24:50 | 100   |
| 3 | 683391 | 657113 | 10-Jul | 05:37:45 | 06:01:47 | 00:24:02 | 100   |
| 3 | 683391 | 657113 | 11-Jul | 05:38:26 | 06:01:30 | 00:23:05 | 100   |
| 3 | 683391 | 657113 | 12-Jul | 05:39:11 | 06:01:10 | 00:21:59 | 100   |
| 3 | 683391 | 657113 | 13-Jul | 05:40:04 | 06:00:45 | 00:20:41 | 100   |
| 3 | 683391 | 657113 | 14-Jul | 05:41:05 | 06:00:14 | 00:19:09 | 100   |
| 3 | 683391 | 657113 | 15-Jul | 05:42:14 | 05:59:35 | 00:17:21 | 100   |
| 3 | 683391 | 657113 | 16-Jul | 05:43:16 | 05:58:45 | 00:15:29 | 100   |
| 3 | 683391 | 657113 | 17-Jul | 05:44:34 | 05:57:40 | 00:13:06 | 72.59 |
| 3 | 683391 | 657113 | 18-Jul | 05:46:17 | 05:56:09 | 00:09:52 | 40.05 |
| 3 | 683391 | 657113 | 19-Jul | 05:49:18 | 05:53:18 | 00:04:00 | 6.41  |

House Easting Northing  
10 682075 657254

| Turbine | Easting | Northing | Date   | Start Time | End Time | Duration | % Cover |
|---------|---------|----------|--------|------------|----------|----------|---------|
| 3       | 683391  | 657113   | 27-Mar | 07:22:18   | 07:31:49 | 00:09:31 | 43.32   |
| 3       | 683391  | 657113   | 28-Mar | 07:19:12   | 07:34:19 | 00:15:07 | 100     |
| 3       | 683391  | 657113   | 29-Mar | 07:16:41   | 07:35:46 | 00:19:05 | 100     |
| 3       | 683391  | 657113   | 30-Mar | 07:14:41   | 07:36:43 | 00:22:02 | 100     |
| 3       | 683391  | 657113   | 31-Mar | 07:13:11   | 07:37:23 | 00:24:12 | 100     |
| 3       | 683391  | 657113   | 01-Apr | 07:12:00   | 07:37:46 | 00:25:45 | 100     |
| 3       | 683391  | 657113   | 02-Apr | 07:11:06   | 07:37:55 | 00:26:49 | 100     |
| 3       | 683391  | 657113   | 03-Apr | 07:10:24   | 07:37:53 | 00:27:28 | 100     |
| 3       | 683391  | 657113   | 04-Apr | 07:09:54   | 07:37:39 | 00:27:44 | 100     |
| 3       | 683391  | 657113   | 05-Apr | 07:09:36   | 07:37:14 | 00:27:38 | 100     |
| 3       | 683391  | 657113   | 06-Apr | 07:09:29   | 07:36:39 | 00:27:10 | 100     |
| 3       | 683391  | 657113   | 07-Apr | 07:09:33   | 07:35:52 | 00:26:18 | 100     |
| 3       | 683391  | 657113   | 08-Apr | 07:09:50   | 07:34:51 | 00:25:01 | 100     |
| 3       | 683391  | 657113   | 09-Apr | 07:10:21   | 07:33:35 | 00:23:14 | 100     |
| 3       | 683391  | 657113   | 10-Apr | 07:11:09   | 07:31:58 | 00:20:50 | 100     |
| 3       | 683391  | 657113   | 11-Apr | 07:12:12   | 07:29:55 | 00:17:43 | 100     |
| 3       | 683391  | 657113   | 12-Apr | 07:13:49   | 07:27:48 | 00:13:59 | 95.5    |
| 3       | 683391  | 657113   | 13-Apr | 07:16:40   | 07:24:26 | 00:07:46 | 27.71   |
| 3       | 683391  | 657113   | 29-Aug | 07:16:05   | 07:25:51 | 00:09:47 | 44.27   |
| 3       | 683391  | 657113   | 30-Aug | 07:13:09   | 07:28:09 | 00:15:00 | 100     |
| 3       | 683391  | 657113   | 31-Aug | 07:11:09   | 07:29:34 | 00:18:25 | 100     |
| 3       | 683391  | 657113   | 01-Sep | 07:09:35   | 07:30:59 | 00:21:23 | 100     |
| 3       | 683391  | 657113   | 02-Sep | 07:08:16   | 07:31:54 | 00:23:38 | 100     |
| 3       | 683391  | 657113   | 03-Sep | 07:07:12   | 07:32:30 | 00:25:18 | 100     |
| 3       | 683391  | 657113   | 04-Sep | 07:06:21   | 07:32:51 | 00:26:29 | 100     |
| 3       | 683391  | 657113   | 05-Sep | 07:05:42   | 07:32:58 | 00:27:17 | 100     |
| 3       | 683391  | 657113   | 06-Sep | 07:05:13   | 07:32:54 | 00:27:41 | 100     |
| 3       | 683391  | 657113   | 07-Sep | 07:04:54   | 07:32:39 | 00:27:45 | 100     |
| 3       | 683391  | 657113   | 08-Sep | 07:04:47   | 07:32:13 | 00:27:27 | 100     |
| 3       | 683391  | 657113   | 09-Sep | 07:04:50   | 07:31:36 | 00:26:46 | 100     |
| 3       | 683391  | 657113   | 10-Sep | 07:05:07   | 07:30:47 | 00:25:41 | 100     |

|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 3 | 683391 | 657113 | 11-Sep | 07:05:38 | 07:29:45 | 00:24:07 | 100   |
| 3 | 683391 | 657113 | 12-Sep | 07:06:29 | 07:28:26 | 00:21:57 | 100   |
| 3 | 683391 | 657113 | 13-Sep | 07:07:49 | 07:26:50 | 00:19:01 | 100   |
| 3 | 683391 | 657113 | 14-Sep | 07:09:39 | 07:24:44 | 00:15:05 | 100   |
| 3 | 683391 | 657113 | 15-Sep | 07:12:03 | 07:21:38 | 00:09:35 | 43.61 |

House Easting Northing  
11 682105 657303

| Turbine | Easting | Northing | Date   | Start Time | End Time | Duration | % Cover |
|---------|---------|----------|--------|------------|----------|----------|---------|
| 3       | 683391  | 657113   | 23-Mar | 07:33:54   | 07:37:42 | 00:03:48 | 6.62    |
| 3       | 683391  | 657113   | 24-Mar | 07:29:03   | 07:41:56 | 00:12:53 | 80.7    |
| 3       | 683391  | 657113   | 25-Mar | 07:26:21   | 07:43:49 | 00:17:28 | 78.94   |
| 3       | 683391  | 657113   | 26-Mar | 07:23:51   | 07:45:01 | 00:21:09 | 100     |
| 3       | 683391  | 657113   | 27-Mar | 07:22:03   | 07:45:50 | 00:23:46 | 100     |
| 3       | 683391  | 657113   | 28-Mar | 07:20:41   | 07:46:21 | 00:25:41 | 100     |
| 3       | 683391  | 657113   | 29-Mar | 07:19:36   | 07:46:38 | 00:27:02 | 100     |
| 3       | 683391  | 657113   | 30-Mar | 07:18:45   | 07:46:42 | 00:27:57 | 100     |
| 3       | 683391  | 657113   | 31-Mar | 07:18:08   | 07:46:34 | 00:28:27 | 100     |
| 3       | 683391  | 657113   | 01-Apr | 07:17:42   | 07:46:16 | 00:28:34 | 100     |
| 3       | 683391  | 657113   | 02-Apr | 07:17:27   | 07:45:46 | 00:28:19 | 100     |
| 3       | 683391  | 657113   | 03-Apr | 07:17:21   | 07:45:05 | 00:27:43 | 100     |
| 3       | 683391  | 657113   | 04-Apr | 07:17:27   | 07:44:11 | 00:26:44 | 100     |
| 3       | 683391  | 657113   | 05-Apr | 07:17:46   | 07:43:03 | 00:25:17 | 100     |
| 3       | 683391  | 657113   | 06-Apr | 07:18:19   | 07:41:37 | 00:23:18 | 100     |
| 3       | 683391  | 657113   | 07-Apr | 07:19:11   | 07:39:46 | 00:20:35 | 100     |
| 3       | 683391  | 657113   | 08-Apr | 07:20:25   | 07:37:53 | 00:17:28 | 100     |
| 3       | 683391  | 657113   | 09-Apr | 07:22:10   | 07:35:35 | 00:13:25 | 85.95   |
| 3       | 683391  | 657113   | 10-Apr | 07:25:33   | 07:31:40 | 00:06:07 | 16.78   |
| 3       | 683391  | 657113   | 01-Sep | 07:23:08   | 07:31:29 | 00:08:21 | 31.51   |
| 3       | 683391  | 657113   | 02-Sep | 07:19:47   | 07:34:10 | 00:14:23 | 99.29   |
| 3       | 683391  | 657113   | 03-Sep | 07:17:37   | 07:35:41 | 00:18:05 | 100     |
| 3       | 683391  | 657113   | 04-Sep | 07:15:50   | 07:36:58 | 00:21:08 | 100     |
| 3       | 683391  | 657113   | 05-Sep | 07:14:26   | 07:38:06 | 00:23:40 | 100     |
| 3       | 683391  | 657113   | 06-Sep | 07:13:18   | 07:38:50 | 00:25:32 | 100     |
| 3       | 683391  | 657113   | 07-Sep | 07:12:24   | 07:39:17 | 00:26:54 | 100     |
| 3       | 683391  | 657113   | 08-Sep | 07:11:41   | 07:39:30 | 00:27:49 | 100     |
| 3       | 683391  | 657113   | 09-Sep | 07:11:09   | 07:39:31 | 00:28:22 | 100     |
| 3       | 683391  | 657113   | 10-Sep | 07:10:46   | 07:39:21 | 00:28:35 | 100     |
| 3       | 683391  | 657113   | 11-Sep | 07:10:33   | 07:38:59 | 00:28:26 | 100     |
| 3       | 683391  | 657113   | 12-Sep | 07:10:32   | 07:38:28 | 00:27:56 | 100     |
| 3       | 683391  | 657113   | 13-Sep | 07:10:43   | 07:37:44 | 00:27:01 | 100     |
| 3       | 683391  | 657113   | 14-Sep | 07:11:08   | 07:36:48 | 00:25:40 | 100     |
| 3       | 683391  | 657113   | 15-Sep | 07:11:51   | 07:35:37 | 00:23:47 | 100     |
| 3       | 683391  | 657113   | 16-Sep | 07:12:57   | 07:34:10 | 00:21:13 | 100     |
| 3       | 683391  | 657113   | 17-Sep | 07:14:44   | 07:32:21 | 00:17:37 | 80.68   |
| 3       | 683391  | 657113   | 18-Sep | 07:16:45   | 07:29:52 | 00:13:07 | 83.3    |
| 3       | 683391  | 657113   | 19-Sep | 07:20:30   | 07:25:24 | 00:04:54 | 10.9    |

House Easting Northing  
 12 682068 657451

| Turbine | Easting | Northing | Date   | Start Time | End Time | Duration | % Cover |
|---------|---------|----------|--------|------------|----------|----------|---------|
| 3       | 683391  | 657113   | 14-Mar | 07:52:17   | 07:58:26 | 00:06:09 | 18.34   |
| 3       | 683391  | 657113   | 15-Mar | 07:48:23   | 08:01:46 | 00:13:23 | 92.81   |
| 3       | 683391  | 657113   | 16-Mar | 07:45:52   | 08:03:27 | 00:17:36 | 100     |
| 3       | 683391  | 657113   | 17-Mar | 07:43:50   | 08:04:31 | 00:20:41 | 100     |
| 3       | 683391  | 657113   | 18-Mar | 07:42:20   | 08:05:15 | 00:22:55 | 100     |
| 3       | 683391  | 657113   | 19-Mar | 07:41:10   | 08:05:41 | 00:24:31 | 100     |
| 3       | 683391  | 657113   | 20-Mar | 07:40:17   | 08:05:51 | 00:25:35 | 100     |
| 3       | 683391  | 657113   | 21-Mar | 07:39:37   | 08:05:49 | 00:26:12 | 100     |
| 3       | 683391  | 657113   | 22-Mar | 07:39:10   | 08:05:34 | 00:26:24 | 100     |
| 3       | 683391  | 657113   | 23-Mar | 07:38:54   | 08:05:07 | 00:26:12 | 100     |
| 3       | 683391  | 657113   | 24-Mar | 07:38:52   | 08:04:27 | 00:25:35 | 100     |
| 3       | 683391  | 657113   | 25-Mar | 07:39:02   | 08:03:34 | 00:24:32 | 100     |
| 3       | 683391  | 657113   | 26-Mar | 07:39:26   | 08:02:24 | 00:22:58 | 100     |
| 3       | 683391  | 657113   | 27-Mar | 07:40:09   | 08:00:54 | 00:20:45 | 100     |
| 3       | 683391  | 657113   | 28-Mar | 07:41:15   | 07:59:01 | 00:17:46 | 100     |
| 3       | 683391  | 657113   | 29-Mar | 07:43:01   | 07:56:47 | 00:13:47 | 95.16   |
| 3       | 683391  | 657113   | 30-Mar | 07:46:18   | 07:53:05 | 00:06:48 | 22.21   |
| 3       | 683391  | 657113   | 12-Sep | 07:37:41   | 07:45:17 | 00:07:36 | 27.79   |
| 3       | 683391  | 657113   | 13-Sep | 07:33:59   | 07:48:05 | 00:14:05 | 99.12   |
| 3       | 683391  | 657113   | 14-Sep | 07:31:39   | 07:49:35 | 00:17:56 | 100     |
| 3       | 683391  | 657113   | 15-Sep | 07:29:56   | 07:50:47 | 00:20:51 | 100     |
| 3       | 683391  | 657113   | 16-Sep | 07:28:35   | 07:51:35 | 00:23:00 | 100     |
| 3       | 683391  | 657113   | 17-Sep | 07:27:31   | 07:52:04 | 00:24:33 | 100     |
| 3       | 683391  | 657113   | 18-Sep | 07:26:42   | 07:52:18 | 00:25:36 | 100     |
| 3       | 683391  | 657113   | 19-Sep | 07:26:05   | 07:52:18 | 00:26:13 | 100     |
| 3       | 683391  | 657113   | 20-Sep | 07:25:41   | 07:52:06 | 00:26:25 | 100     |
| 3       | 683391  | 657113   | 21-Sep | 07:25:28   | 07:51:42 | 00:26:15 | 100     |
| 3       | 683391  | 657113   | 22-Sep | 07:25:27   | 07:51:07 | 00:25:40 | 100     |
| 3       | 683391  | 657113   | 23-Sep | 07:25:40   | 07:50:19 | 00:24:39 | 100     |
| 3       | 683391  | 657113   | 24-Sep | 07:26:09   | 07:49:17 | 00:23:08 | 100     |
| 3       | 683391  | 657113   | 25-Sep | 07:26:57   | 07:47:58 | 00:21:01 | 100     |
| 3       | 683391  | 657113   | 26-Sep | 07:28:13   | 07:46:20 | 00:18:07 | 100     |
| 3       | 683391  | 657113   | 27-Sep | 07:30:02   | 07:44:10 | 00:14:08 | 100     |
| 3       | 683391  | 657113   | 28-Sep | 07:32:46   | 07:40:45 | 00:07:59 | 31      |

House Easting Northing  
 13 685632 656560

There are no shadows cast on this Receptor

House Easting Northing  
 14 685362 656126

There are no shadows cast on this Receptor

House Easting Northing  
 15 685088 656303

There are no shadows cast on this Receptor

House Easting Northing  
 16 685451 658932

| Turbine | Easting | Northing | Date   | Start Time | End Time | Duration | % Cover |
|---------|---------|----------|--------|------------|----------|----------|---------|
| 1       | 684562  | 658173   | 05-Feb | 15:56:20   | 16:08:01 | 00:11:41 | 55.11   |
| 1       | 684562  | 658173   | 06-Feb | 15:54:05   | 16:10:26 | 00:16:21 | 100     |
| 1       | 684562  | 658173   | 07-Feb | 15:52:30   | 16:12:45 | 00:20:15 | 100     |
| 1       | 684562  | 658173   | 08-Feb | 15:51:17   | 16:14:37 | 00:23:20 | 100     |
| 1       | 684562  | 658173   | 09-Feb | 15:50:18   | 16:16:02 | 00:25:43 | 100     |
| 1       | 684562  | 658173   | 10-Feb | 15:49:32   | 16:17:08 | 00:27:37 | 100     |
| 1       | 684562  | 658173   | 11-Feb | 15:48:54   | 16:18:00 | 00:29:06 | 100     |
| 1       | 684562  | 658173   | 12-Feb | 15:48:26   | 16:18:41 | 00:30:15 | 100     |
| 1       | 684562  | 658173   | 13-Feb | 15:48:05   | 16:19:11 | 00:31:06 | 100     |
| 1       | 684562  | 658173   | 14-Feb | 15:47:51   | 16:19:31 | 00:31:39 | 100     |
| 1       | 684562  | 658173   | 15-Feb | 15:47:45   | 16:19:42 | 00:31:57 | 100     |
| 1       | 684562  | 658173   | 16-Feb | 15:47:46   | 16:19:44 | 00:31:57 | 100     |
| 1       | 684562  | 658173   | 17-Feb | 15:47:55   | 16:19:36 | 00:31:41 | 100     |
| 1       | 684562  | 658173   | 18-Feb | 15:48:12   | 16:19:20 | 00:31:08 | 100     |
| 1       | 684562  | 658173   | 19-Feb | 15:48:39   | 16:18:54 | 00:30:15 | 100     |
| 1       | 684562  | 658173   | 20-Feb | 15:49:15   | 16:18:17 | 00:29:02 | 100     |
| 1       | 684562  | 658173   | 21-Feb | 15:50:05   | 16:17:28 | 00:27:23 | 100     |
| 1       | 684562  | 658173   | 22-Feb | 15:50:59   | 16:16:28 | 00:25:28 | 100     |
| 1       | 684562  | 658173   | 23-Feb | 15:52:05   | 16:15:12 | 00:23:07 | 100     |
| 1       | 684562  | 658173   | 24-Feb | 15:53:33   | 16:13:33 | 00:19:59 | 100     |
| 1       | 684562  | 658173   | 25-Feb | 15:55:43   | 16:11:18 | 00:15:35 | 77.64   |
| 1       | 684562  | 658173   | 26-Feb | 15:59:52   | 16:07:36 | 00:07:44 | 24.75   |
| 1       | 684562  | 658173   | 15-Oct | 15:31:07   | 15:41:31 | 00:10:24 | 24.81   |
| 1       | 684562  | 658173   | 16-Oct | 15:27:25   | 15:44:14 | 00:16:49 | 93.9    |
| 1       | 684562  | 658173   | 17-Oct | 15:25:09   | 15:45:56 | 00:20:47 | 100     |
| 1       | 684562  | 658173   | 18-Oct | 15:23:28   | 15:47:08 | 00:23:41 | 100     |
| 1       | 684562  | 658173   | 19-Oct | 15:22:09   | 15:48:01 | 00:25:53 | 100     |
| 1       | 684562  | 658173   | 20-Oct | 15:20:58   | 15:48:41 | 00:27:44 | 100     |
| 1       | 684562  | 658173   | 21-Oct | 15:19:55   | 15:49:11 | 00:29:16 | 100     |
| 1       | 684562  | 658173   | 22-Oct | 15:19:06   | 15:49:31 | 00:30:25 | 100     |
| 1       | 684562  | 658173   | 23-Oct | 15:18:28   | 15:49:42 | 00:31:14 | 100     |
| 1       | 684562  | 658173   | 24-Oct | 15:18:00   | 15:49:45 | 00:31:45 | 100     |
| 1       | 684562  | 658173   | 25-Oct | 15:17:42   | 15:49:40 | 00:31:59 | 100     |
| 1       | 684562  | 658173   | 26-Oct | 15:17:32   | 15:49:28 | 00:31:56 | 100     |
| 1       | 684562  | 658173   | 27-Oct | 15:17:31   | 15:49:09 | 00:31:38 | 100     |
| 1       | 684562  | 658173   | 28-Oct | 15:17:39   | 15:48:42 | 00:31:03 | 100     |
| 1       | 684562  | 658173   | 29-Oct | 15:17:55   | 15:48:07 | 00:30:12 | 100     |
| 1       | 684562  | 658173   | 30-Oct | 15:18:20   | 15:47:23 | 00:29:02 | 100     |
| 1       | 684562  | 658173   | 31-Oct | 15:18:55   | 15:46:29 | 00:27:33 | 100     |
| 1       | 684562  | 658173   | 01-Nov | 15:19:42   | 15:45:22 | 00:25:40 | 100     |

|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 1 | 684562 | 658173 | 02-Nov | 15:20:41 | 15:43:59 | 00:23:18 | 100   |
| 1 | 684562 | 658173 | 03-Nov | 15:21:56 | 15:42:11 | 00:20:15 | 100   |
| 1 | 684562 | 658173 | 04-Nov | 15:23:34 | 15:39:59 | 00:16:24 | 100   |
| 1 | 684562 | 658173 | 05-Nov | 15:25:53 | 15:37:43 | 00:11:49 | 56.11 |
| 6 | 685208 | 657687 | 01-Jan | 13:08:59 | 13:35:43 | 00:26:44 | 100   |
| 6 | 685208 | 657687 | 02-Jan | 13:09:41 | 13:35:57 | 00:26:16 | 100   |
| 6 | 685208 | 657687 | 03-Jan | 13:10:26 | 13:36:09 | 00:25:42 | 100   |
| 6 | 685208 | 657687 | 04-Jan | 13:11:13 | 13:36:17 | 00:25:04 | 100   |
| 6 | 685208 | 657687 | 05-Jan | 13:12:03 | 13:36:22 | 00:24:19 | 100   |
| 6 | 685208 | 657687 | 06-Jan | 13:12:57 | 13:36:23 | 00:23:26 | 100   |
| 6 | 685208 | 657687 | 07-Jan | 13:13:54 | 13:36:19 | 00:22:25 | 100   |
| 6 | 685208 | 657687 | 08-Jan | 13:14:56 | 13:36:09 | 00:21:13 | 100   |
| 6 | 685208 | 657687 | 09-Jan | 13:16:05 | 13:35:53 | 00:19:48 | 100   |
| 6 | 685208 | 657687 | 10-Jan | 13:17:22 | 13:35:27 | 00:18:05 | 100   |
| 6 | 685208 | 657687 | 11-Jan | 13:18:52 | 13:34:49 | 00:15:57 | 75.18 |
| 6 | 685208 | 657687 | 12-Jan | 13:20:44 | 13:33:52 | 00:13:08 | 44.97 |
| 6 | 685208 | 657687 | 13-Jan | 13:23:28 | 13:32:17 | 00:08:48 | 13.42 |
| 6 | 685208 | 657687 | 28-Nov | 13:05:27 | 13:10:36 | 00:05:09 | 10.37 |
| 6 | 685208 | 657687 | 29-Nov | 13:01:55 | 13:13:31 | 00:11:36 | 31.7  |
| 6 | 685208 | 657687 | 30-Nov | 13:00:33 | 13:15:25 | 00:14:51 | 62.24 |
| 6 | 685208 | 657687 | 01-Dec | 12:59:42 | 13:16:55 | 00:17:13 | 91.46 |
| 6 | 685208 | 657687 | 02-Dec | 12:59:08 | 13:18:13 | 00:19:06 | 100   |
| 6 | 685208 | 657687 | 03-Dec | 12:58:44 | 13:19:22 | 00:20:38 | 100   |
| 6 | 685208 | 657687 | 04-Dec | 12:58:29 | 13:20:24 | 00:21:55 | 100   |
| 6 | 685208 | 657687 | 05-Dec | 12:58:21 | 13:21:21 | 00:23:00 | 100   |
| 6 | 685208 | 657687 | 06-Dec | 12:58:17 | 13:22:13 | 00:23:56 | 100   |
| 6 | 685208 | 657687 | 07-Dec | 12:58:19 | 13:23:03 | 00:24:44 | 100   |
| 6 | 685208 | 657687 | 08-Dec | 12:58:24 | 13:23:50 | 00:25:25 | 100   |
| 6 | 685208 | 657687 | 09-Dec | 12:58:33 | 13:24:34 | 00:26:01 | 100   |
| 6 | 685208 | 657687 | 10-Dec | 12:58:45 | 13:25:16 | 00:26:32 | 100   |
| 6 | 685208 | 657687 | 11-Dec | 12:58:59 | 13:25:57 | 00:26:58 | 100   |
| 6 | 685208 | 657687 | 12-Dec | 12:59:16 | 13:26:36 | 00:27:20 | 100   |
| 6 | 685208 | 657687 | 13-Dec | 12:59:35 | 13:27:14 | 00:27:39 | 100   |
| 6 | 685208 | 657687 | 14-Dec | 12:59:55 | 13:27:51 | 00:27:55 | 100   |
| 6 | 685208 | 657687 | 15-Dec | 13:00:18 | 13:28:26 | 00:28:09 | 100   |
| 6 | 685208 | 657687 | 16-Dec | 13:00:41 | 13:29:01 | 00:28:20 | 100   |
| 6 | 685208 | 657687 | 17-Dec | 13:01:06 | 13:29:34 | 00:28:28 | 100   |
| 6 | 685208 | 657687 | 18-Dec | 13:01:33 | 13:30:07 | 00:28:34 | 100   |
| 6 | 685208 | 657687 | 19-Dec | 13:02:00 | 13:30:39 | 00:28:39 | 100   |
| 6 | 685208 | 657687 | 20-Dec | 13:02:29 | 13:31:10 | 00:28:41 | 100   |
| 6 | 685208 | 657687 | 21-Dec | 13:02:58 | 13:31:40 | 00:28:42 | 100   |
| 6 | 685208 | 657687 | 22-Dec | 13:03:29 | 13:32:10 | 00:28:41 | 100   |
| 6 | 685208 | 657687 | 23-Dec | 13:04:00 | 13:32:38 | 00:28:38 | 100   |
| 6 | 685208 | 657687 | 24-Dec | 13:04:32 | 13:33:05 | 00:28:33 | 100   |
| 6 | 685208 | 657687 | 25-Dec | 13:05:06 | 13:33:32 | 00:28:26 | 100   |
| 6 | 685208 | 657687 | 26-Dec | 13:05:40 | 13:33:57 | 00:28:17 | 100   |
| 6 | 685208 | 657687 | 27-Dec | 13:06:15 | 13:34:20 | 00:28:05 | 100   |
| 6 | 685208 | 657687 | 28-Dec | 13:06:52 | 13:34:43 | 00:27:51 | 100   |
| 6 | 685208 | 657687 | 29-Dec | 13:07:29 | 13:35:03 | 00:27:34 | 100   |

|   |        |        |        |          |          |          |     |
|---|--------|--------|--------|----------|----------|----------|-----|
| 6 | 685208 | 657687 | 30-Dec | 13:08:08 | 13:35:22 | 00:27:14 | 100 |
| 6 | 685208 | 657687 | 31-Dec | 13:08:49 | 13:35:39 | 00:26:51 | 100 |

House Easting Northing  
17 685780 658719

| Turbine | Easting | Northing | Date   | Start Time | End Time | Duration | % Cover |
|---------|---------|----------|--------|------------|----------|----------|---------|
| 1       | 684562  | 658173   | 26-Feb | 16:55:58   | 17:06:06 | 00:10:08 | 49.05   |
| 1       | 684562  | 658173   | 27-Feb | 16:53:11   | 17:08:32 | 00:15:21 | 100     |
| 1       | 684562  | 658173   | 28-Feb | 16:51:19   | 17:10:24 | 00:19:04 | 100     |
| 1       | 684562  | 658173   | 29-Feb | 16:49:56   | 17:11:52 | 00:21:57 | 100     |
| 1       | 684562  | 658173   | 01-Mar | 16:48:51   | 17:12:52 | 00:24:02 | 100     |
| 1       | 684562  | 658173   | 02-Mar | 16:48:01   | 17:13:32 | 00:25:32 | 100     |
| 1       | 684562  | 658173   | 03-Mar | 16:47:23   | 17:13:57 | 00:26:33 | 100     |
| 1       | 684562  | 658173   | 04-Mar | 16:46:58   | 17:14:08 | 00:27:10 | 100     |
| 1       | 684562  | 658173   | 05-Mar | 16:46:43   | 17:14:06 | 00:27:23 | 100     |
| 1       | 684562  | 658173   | 06-Mar | 16:46:32   | 17:13:52 | 00:27:20 | 100     |
| 1       | 684562  | 658173   | 07-Mar | 16:46:33   | 17:13:27 | 00:26:54 | 100     |
| 1       | 684562  | 658173   | 08-Mar | 16:46:45   | 17:12:49 | 00:26:04 | 100     |
| 1       | 684562  | 658173   | 09-Mar | 16:47:11   | 17:11:57 | 00:24:47 | 100     |
| 1       | 684562  | 658173   | 10-Mar | 16:47:53   | 17:10:50 | 00:22:57 | 100     |
| 1       | 684562  | 658173   | 11-Mar | 16:48:56   | 17:09:25 | 00:20:29 | 100     |
| 1       | 684562  | 658173   | 12-Mar | 16:50:34   | 17:07:35 | 00:17:01 | 100     |
| 1       | 684562  | 658173   | 13-Mar | 16:53:10   | 17:04:57 | 00:11:47 | 68.1    |
| 1       | 684562  | 658173   | 28-Sep | 16:35:48   | 16:44:38 | 00:08:51 | 37.03   |
| 1       | 684562  | 658173   | 29-Sep | 16:32:14   | 16:47:15 | 00:15:02 | 72.33   |
| 1       | 684562  | 658173   | 30-Sep | 16:29:39   | 16:48:45 | 00:19:06 | 100     |
| 1       | 684562  | 658173   | 01-Oct | 16:27:48   | 16:49:42 | 00:21:54 | 100     |
| 1       | 684562  | 658173   | 02-Oct | 16:26:23   | 16:50:22 | 00:23:59 | 100     |
| 1       | 684562  | 658173   | 03-Oct | 16:25:16   | 16:50:46 | 00:25:30 | 100     |
| 1       | 684562  | 658173   | 04-Oct | 16:24:24   | 16:50:57 | 00:26:33 | 100     |
| 1       | 684562  | 658173   | 05-Oct | 16:23:45   | 16:50:55 | 00:27:10 | 100     |
| 1       | 684562  | 658173   | 06-Oct | 16:23:18   | 16:50:43 | 00:27:25 | 100     |
| 1       | 684562  | 658173   | 07-Oct | 16:22:59   | 16:50:20 | 00:27:21 | 100     |
| 1       | 684562  | 658173   | 08-Oct | 16:22:48   | 16:49:46 | 00:26:58 | 100     |
| 1       | 684562  | 658173   | 09-Oct | 16:22:49   | 16:49:00 | 00:26:12 | 100     |
| 1       | 684562  | 658173   | 10-Oct | 16:23:02   | 16:48:02 | 00:24:59 | 100     |
| 1       | 684562  | 658173   | 11-Oct | 16:23:29   | 16:46:48 | 00:23:19 | 100     |
| 1       | 684562  | 658173   | 12-Oct | 16:24:13   | 16:45:13 | 00:20:59 | 100     |
| 1       | 684562  | 658173   | 13-Oct | 16:25:19   | 16:43:06 | 00:17:47 | 100     |
| 1       | 684562  | 658173   | 14-Oct | 16:26:59   | 16:40:52 | 00:13:53 | 95.27   |
| 1       | 684562  | 658173   | 15-Oct | 16:29:58   | 16:37:26 | 00:07:28 | 25.85   |
| 6       | 685208  | 657687   | 01-Jan | 14:23:57   | 14:47:22 | 00:23:24 | 100     |
| 6       | 685208  | 657687   | 02-Jan | 14:24:04   | 14:48:15 | 00:24:11 | 100     |
| 6       | 685208  | 657687   | 03-Jan | 14:24:10   | 14:49:08 | 00:24:58 | 100     |
| 6       | 685208  | 657687   | 04-Jan | 14:24:16   | 14:50:00 | 00:25:45 | 100     |
| 6       | 685208  | 657687   | 05-Jan | 14:24:21   | 14:50:52 | 00:26:31 | 100     |
| 6       | 685208  | 657687   | 06-Jan | 14:24:26   | 14:51:43 | 00:27:17 | 100     |



|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 6 | 685208 | 657687 | 07-Jan | 14:24:31 | 14:52:32 | 00:28:01 | 100   |
| 6 | 685208 | 657687 | 08-Jan | 14:24:37 | 14:53:21 | 00:28:44 | 100   |
| 6 | 685208 | 657687 | 09-Jan | 14:24:43 | 14:54:07 | 00:29:24 | 100   |
| 6 | 685208 | 657687 | 10-Jan | 14:24:50 | 14:54:52 | 00:30:02 | 100   |
| 6 | 685208 | 657687 | 11-Jan | 14:24:58 | 14:55:35 | 00:30:38 | 100   |
| 6 | 685208 | 657687 | 12-Jan | 14:25:06 | 14:56:16 | 00:31:10 | 100   |
| 6 | 685208 | 657687 | 13-Jan | 14:25:16 | 14:56:54 | 00:31:39 | 100   |
| 6 | 685208 | 657687 | 14-Jan | 14:25:27 | 14:57:30 | 00:32:03 | 100   |
| 6 | 685208 | 657687 | 15-Jan | 14:25:39 | 14:58:03 | 00:32:24 | 100   |
| 6 | 685208 | 657687 | 16-Jan | 14:25:53 | 14:58:33 | 00:32:40 | 100   |
| 6 | 685208 | 657687 | 17-Jan | 14:26:09 | 14:58:59 | 00:32:51 | 100   |
| 6 | 685208 | 657687 | 18-Jan | 14:26:26 | 14:59:23 | 00:32:57 | 100   |
| 6 | 685208 | 657687 | 19-Jan | 14:26:46 | 14:59:43 | 00:32:57 | 100   |
| 6 | 685208 | 657687 | 20-Jan | 14:27:08 | 14:59:59 | 00:32:50 | 100   |
| 6 | 685208 | 657687 | 21-Jan | 14:27:34 | 15:00:10 | 00:32:36 | 100   |
| 6 | 685208 | 657687 | 22-Jan | 14:28:02 | 15:00:17 | 00:32:15 | 100   |
| 6 | 685208 | 657687 | 23-Jan | 14:28:34 | 15:00:19 | 00:31:45 | 100   |
| 6 | 685208 | 657687 | 24-Jan | 14:29:10 | 15:00:15 | 00:31:05 | 100   |
| 6 | 685208 | 657687 | 25-Jan | 14:29:50 | 15:00:06 | 00:30:15 | 100   |
| 6 | 685208 | 657687 | 26-Jan | 14:30:36 | 14:59:51 | 00:29:15 | 100   |
| 6 | 685208 | 657687 | 27-Jan | 14:31:29 | 14:59:28 | 00:27:59 | 100   |
| 6 | 685208 | 657687 | 28-Jan | 14:32:30 | 14:58:57 | 00:26:27 | 100   |
| 6 | 685208 | 657687 | 29-Jan | 14:33:41 | 14:58:14 | 00:24:33 | 100   |
| 6 | 685208 | 657687 | 30-Jan | 14:35:07 | 14:57:18 | 00:22:11 | 100   |
| 6 | 685208 | 657687 | 31-Jan | 14:36:55 | 14:56:04 | 00:19:09 | 100   |
| 6 | 685208 | 657687 | 01-Feb | 14:38:45 | 14:54:19 | 00:15:33 | 96.21 |
| 6 | 685208 | 657687 | 02-Feb | 14:41:23 | 14:51:39 | 00:10:16 | 41.68 |
| 6 | 685208 | 657687 | 08-Nov | 14:12:03 | 14:21:17 | 00:09:14 | 33.31 |
| 6 | 685208 | 657687 | 09-Nov | 14:09:26 | 14:24:18 | 00:14:52 | 87.16 |
| 6 | 685208 | 657687 | 10-Nov | 14:07:46 | 14:26:24 | 00:18:37 | 100   |
| 6 | 685208 | 657687 | 11-Nov | 14:06:16 | 14:27:58 | 00:21:42 | 100   |
| 6 | 685208 | 657687 | 12-Nov | 14:05:05 | 14:29:14 | 00:24:09 | 100   |
| 6 | 685208 | 657687 | 13-Nov | 14:04:11 | 14:30:18 | 00:26:07 | 100   |
| 6 | 685208 | 657687 | 14-Nov | 14:03:30 | 14:31:12 | 00:27:42 | 100   |
| 6 | 685208 | 657687 | 15-Nov | 14:02:59 | 14:31:59 | 00:28:59 | 100   |
| 6 | 685208 | 657687 | 16-Nov | 14:02:37 | 14:32:40 | 00:30:03 | 100   |
| 6 | 685208 | 657687 | 17-Nov | 14:02:21 | 14:33:16 | 00:30:55 | 100   |
| 6 | 685208 | 657687 | 18-Nov | 14:02:12 | 14:33:49 | 00:31:36 | 100   |
| 6 | 685208 | 657687 | 19-Nov | 14:02:09 | 14:34:18 | 00:32:09 | 100   |
| 6 | 685208 | 657687 | 20-Nov | 14:02:11 | 14:34:43 | 00:32:32 | 100   |
| 6 | 685208 | 657687 | 21-Nov | 14:02:17 | 14:35:05 | 00:32:48 | 100   |
| 6 | 685208 | 657687 | 22-Nov | 14:02:28 | 14:35:24 | 00:32:56 | 100   |
| 6 | 685208 | 657687 | 23-Nov | 14:02:43 | 14:35:41 | 00:32:58 | 100   |
| 6 | 685208 | 657687 | 24-Nov | 14:03:02 | 14:35:56 | 00:32:54 | 100   |
| 6 | 685208 | 657687 | 25-Nov | 14:03:24 | 14:36:08 | 00:32:44 | 100   |
| 6 | 685208 | 657687 | 26-Nov | 14:03:49 | 14:36:19 | 00:32:30 | 100   |
| 6 | 685208 | 657687 | 27-Nov | 14:04:17 | 14:36:28 | 00:32:11 | 100   |
| 6 | 685208 | 657687 | 28-Nov | 14:04:49 | 14:36:36 | 00:31:47 | 100   |
| 6 | 685208 | 657687 | 29-Nov | 14:05:22 | 14:36:42 | 00:31:20 | 100   |
| 6 | 685208 | 657687 | 30-Nov | 14:05:58 | 14:36:47 | 00:30:49 | 100   |

|   |        |        |        |          |          |          |     |
|---|--------|--------|--------|----------|----------|----------|-----|
| 6 | 685208 | 657687 | 01-Dec | 14:06:37 | 14:36:51 | 00:30:15 | 100 |
| 6 | 685208 | 657687 | 02-Dec | 14:07:17 | 14:36:55 | 00:29:38 | 100 |
| 6 | 685208 | 657687 | 03-Dec | 14:07:59 | 14:36:57 | 00:28:58 | 100 |
| 6 | 685208 | 657687 | 04-Dec | 14:08:43 | 14:36:59 | 00:28:16 | 100 |
| 6 | 685208 | 657687 | 05-Dec | 14:09:28 | 14:37:01 | 00:27:33 | 100 |
| 6 | 685208 | 657687 | 06-Dec | 14:10:15 | 14:37:03 | 00:26:48 | 100 |
| 6 | 685208 | 657687 | 07-Dec | 14:11:02 | 14:37:04 | 00:26:02 | 100 |
| 6 | 685208 | 657687 | 08-Dec | 14:11:51 | 14:37:06 | 00:25:15 | 100 |
| 6 | 685208 | 657687 | 09-Dec | 14:12:39 | 14:37:08 | 00:24:28 | 100 |
| 6 | 685208 | 657687 | 10-Dec | 14:13:29 | 14:37:10 | 00:23:41 | 100 |
| 6 | 685208 | 657687 | 11-Dec | 14:14:18 | 14:37:13 | 00:22:56 | 100 |
| 6 | 685208 | 657687 | 12-Dec | 14:15:06 | 14:37:18 | 00:22:11 | 100 |
| 6 | 685208 | 657687 | 13-Dec | 14:15:54 | 14:37:24 | 00:21:29 | 100 |
| 6 | 685208 | 657687 | 14-Dec | 14:16:41 | 14:37:31 | 00:20:50 | 100 |
| 6 | 685208 | 657687 | 15-Dec | 14:17:27 | 14:37:41 | 00:20:14 | 100 |
| 6 | 685208 | 657687 | 16-Dec | 14:18:11 | 14:37:52 | 00:19:42 | 100 |
| 6 | 685208 | 657687 | 17-Dec | 14:18:53 | 14:38:07 | 00:19:14 | 100 |
| 6 | 685208 | 657687 | 18-Dec | 14:19:32 | 14:38:25 | 00:18:53 | 100 |
| 6 | 685208 | 657687 | 19-Dec | 14:20:09 | 14:38:46 | 00:18:37 | 100 |
| 6 | 685208 | 657687 | 20-Dec | 14:20:43 | 14:39:11 | 00:18:28 | 100 |
| 6 | 685208 | 657687 | 21-Dec | 14:21:14 | 14:39:40 | 00:18:26 | 100 |
| 6 | 685208 | 657687 | 22-Dec | 14:21:42 | 14:40:12 | 00:18:31 | 100 |
| 6 | 685208 | 657687 | 23-Dec | 14:22:06 | 14:40:48 | 00:18:42 | 100 |
| 6 | 685208 | 657687 | 24-Dec | 14:22:28 | 14:41:28 | 00:18:59 | 100 |
| 6 | 685208 | 657687 | 25-Dec | 14:22:47 | 14:42:11 | 00:19:24 | 100 |
| 6 | 685208 | 657687 | 26-Dec | 14:23:03 | 14:42:56 | 00:19:53 | 100 |
| 6 | 685208 | 657687 | 27-Dec | 14:23:17 | 14:43:44 | 00:20:26 | 100 |
| 6 | 685208 | 657687 | 28-Dec | 14:23:29 | 14:44:33 | 00:21:04 | 100 |
| 6 | 685208 | 657687 | 29-Dec | 14:23:40 | 14:45:24 | 00:21:45 | 100 |
| 6 | 685208 | 657687 | 30-Dec | 14:23:48 | 14:46:16 | 00:22:28 | 100 |
| 6 | 685208 | 657687 | 31-Dec | 14:23:56 | 14:47:09 | 00:23:13 | 100 |

House Easting Northing  
18 685764 658911

| Turbine | Easting | Northing | Date   | Start Time | End Time | Duration | % Cover |
|---------|---------|----------|--------|------------|----------|----------|---------|
| 6       | 685208  | 657687   | 01-Jan | 14:04:14   | 14:33:51 | 00:29:36 | 100     |
| 6       | 685208  | 657687   | 02-Jan | 14:04:42   | 14:34:20 | 00:29:38 | 100     |
| 6       | 685208  | 657687   | 03-Jan | 14:05:09   | 14:34:48 | 00:29:39 | 100     |
| 6       | 685208  | 657687   | 04-Jan | 14:05:37   | 14:35:15 | 00:29:38 | 100     |
| 6       | 685208  | 657687   | 05-Jan | 14:06:06   | 14:35:41 | 00:29:35 | 100     |
| 6       | 685208  | 657687   | 06-Jan | 14:06:35   | 14:36:05 | 00:29:30 | 100     |
| 6       | 685208  | 657687   | 07-Jan | 14:07:05   | 14:36:27 | 00:29:22 | 100     |
| 6       | 685208  | 657687   | 08-Jan | 14:07:36   | 14:36:47 | 00:29:11 | 100     |
| 6       | 685208  | 657687   | 09-Jan | 14:08:09   | 14:37:05 | 00:28:56 | 100     |
| 6       | 685208  | 657687   | 10-Jan | 14:08:43   | 14:37:20 | 00:28:37 | 100     |
| 6       | 685208  | 657687   | 11-Jan | 14:09:19   | 14:37:31 | 00:28:12 | 100     |
| 6       | 685208  | 657687   | 12-Jan | 14:09:57   | 14:37:41 | 00:27:43 | 100     |
| 6       | 685208  | 657687   | 13-Jan | 14:10:38   | 14:37:46 | 00:27:08 | 100     |

|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 6 | 685208 | 657687 | 14-Jan | 14:11:22 | 14:37:49 | 00:26:26 | 100   |
| 6 | 685208 | 657687 | 15-Jan | 14:12:10 | 14:37:48 | 00:25:38 | 100   |
| 6 | 685208 | 657687 | 16-Jan | 14:13:03 | 14:37:42 | 00:24:39 | 100   |
| 6 | 685208 | 657687 | 17-Jan | 14:14:01 | 14:37:29 | 00:23:28 | 100   |
| 6 | 685208 | 657687 | 18-Jan | 14:15:07 | 14:37:10 | 00:22:03 | 100   |
| 6 | 685208 | 657687 | 19-Jan | 14:16:22 | 14:36:41 | 00:20:18 | 100   |
| 6 | 685208 | 657687 | 20-Jan | 14:17:52 | 14:35:59 | 00:18:07 | 100   |
| 6 | 685208 | 657687 | 21-Jan | 14:19:46 | 14:35:02 | 00:15:16 | 100   |
| 6 | 685208 | 657687 | 22-Jan | 14:21:57 | 14:33:38 | 00:11:41 | 59.98 |
| 6 | 685208 | 657687 | 23-Jan | 14:24:59 | 14:31:06 | 00:06:08 | 15.91 |
| 6 | 685208 | 657687 | 18-Nov | 14:00:04 | 14:03:11 | 00:03:07 | 4.06  |
| 6 | 685208 | 657687 | 19-Nov | 13:56:36 | 14:07:07 | 00:10:31 | 47.89 |
| 6 | 685208 | 657687 | 20-Nov | 13:54:57 | 14:09:13 | 00:14:16 | 90.61 |
| 6 | 685208 | 657687 | 21-Nov | 13:53:25 | 14:10:48 | 00:17:23 | 100   |
| 6 | 685208 | 657687 | 22-Nov | 13:52:24 | 14:12:07 | 00:19:43 | 100   |
| 6 | 685208 | 657687 | 23-Nov | 13:51:41 | 14:13:14 | 00:21:33 | 100   |
| 6 | 685208 | 657687 | 24-Nov | 13:51:10 | 14:14:13 | 00:23:04 | 100   |
| 6 | 685208 | 657687 | 25-Nov | 13:50:48 | 14:15:06 | 00:24:18 | 100   |
| 6 | 685208 | 657687 | 26-Nov | 13:50:33 | 14:15:53 | 00:25:20 | 100   |
| 6 | 685208 | 657687 | 27-Nov | 13:50:25 | 14:16:37 | 00:26:11 | 100   |
| 6 | 685208 | 657687 | 28-Nov | 13:50:22 | 14:17:17 | 00:26:55 | 100   |
| 6 | 685208 | 657687 | 29-Nov | 13:50:24 | 14:17:57 | 00:27:32 | 100   |
| 6 | 685208 | 657687 | 30-Nov | 13:50:30 | 14:18:33 | 00:28:03 | 100   |
| 6 | 685208 | 657687 | 01-Dec | 13:50:40 | 14:19:09 | 00:28:29 | 100   |
| 6 | 685208 | 657687 | 02-Dec | 13:50:52 | 14:19:42 | 00:28:50 | 100   |
| 6 | 685208 | 657687 | 03-Dec | 13:51:08 | 14:20:14 | 00:29:06 | 100   |
| 6 | 685208 | 657687 | 04-Dec | 13:51:26 | 14:20:45 | 00:29:18 | 100   |
| 6 | 685208 | 657687 | 05-Dec | 13:51:46 | 14:21:14 | 00:29:28 | 100   |
| 6 | 685208 | 657687 | 06-Dec | 13:52:09 | 14:21:42 | 00:29:34 | 100   |
| 6 | 685208 | 657687 | 07-Dec | 13:52:33 | 14:22:10 | 00:29:37 | 100   |
| 6 | 685208 | 657687 | 08-Dec | 13:52:58 | 14:22:37 | 00:29:39 | 100   |
| 6 | 685208 | 657687 | 09-Dec | 13:53:25 | 14:23:04 | 00:29:39 | 100   |
| 6 | 685208 | 657687 | 10-Dec | 13:53:53 | 14:23:31 | 00:29:37 | 100   |
| 6 | 685208 | 657687 | 11-Dec | 13:54:22 | 14:23:57 | 00:29:35 | 100   |
| 6 | 685208 | 657687 | 12-Dec | 13:54:52 | 14:24:24 | 00:29:32 | 100   |
| 6 | 685208 | 657687 | 13-Dec | 13:55:22 | 14:24:50 | 00:29:28 | 100   |
| 6 | 685208 | 657687 | 14-Dec | 13:55:52 | 14:25:17 | 00:29:25 | 100   |
| 6 | 685208 | 657687 | 15-Dec | 13:56:23 | 14:25:44 | 00:29:21 | 100   |
| 6 | 685208 | 657687 | 16-Dec | 13:56:54 | 14:26:12 | 00:29:18 | 100   |
| 6 | 685208 | 657687 | 17-Dec | 13:57:25 | 14:26:40 | 00:29:15 | 100   |
| 6 | 685208 | 657687 | 18-Dec | 13:57:56 | 14:27:08 | 00:29:12 | 100   |
| 6 | 685208 | 657687 | 19-Dec | 13:58:27 | 14:27:37 | 00:29:10 | 100   |
| 6 | 685208 | 657687 | 20-Dec | 13:58:57 | 14:28:06 | 00:29:09 | 100   |
| 6 | 685208 | 657687 | 21-Dec | 13:59:27 | 14:28:36 | 00:29:09 | 100   |
| 6 | 685208 | 657687 | 22-Dec | 13:59:57 | 14:29:06 | 00:29:10 | 100   |
| 6 | 685208 | 657687 | 23-Dec | 14:00:26 | 14:29:37 | 00:29:11 | 100   |
| 6 | 685208 | 657687 | 24-Dec | 14:00:55 | 14:30:07 | 00:29:13 | 100   |
| 6 | 685208 | 657687 | 25-Dec | 14:01:23 | 14:30:38 | 00:29:16 | 100   |
| 6 | 685208 | 657687 | 26-Dec | 14:01:51 | 14:31:10 | 00:29:19 | 100   |
| 6 | 685208 | 657687 | 27-Dec | 14:02:19 | 14:31:41 | 00:29:22 | 100   |

|   |        |        |        |          |          |          |     |
|---|--------|--------|--------|----------|----------|----------|-----|
| 6 | 685208 | 657687 | 28-Dec | 14:02:46 | 14:32:12 | 00:29:26 | 100 |
| 6 | 685208 | 657687 | 29-Dec | 14:03:13 | 14:32:43 | 00:29:30 | 100 |
| 6 | 685208 | 657687 | 30-Dec | 14:03:41 | 14:33:14 | 00:29:33 | 100 |
| 6 | 685208 | 657687 | 31-Dec | 14:04:08 | 14:33:44 | 00:29:36 | 100 |

House Easting Northing  
19 685595 658898

| Turbine | Easting | Northing | Date   | Start Time | End Time | Duration | % Cover |
|---------|---------|----------|--------|------------|----------|----------|---------|
| 1       | 684562  | 658173   | 12-Feb | 16:17:36   | 16:28:21 | 00:10:46 | 51.11   |
| 1       | 684562  | 658173   | 13-Feb | 16:15:08   | 16:30:48 | 00:15:40 | 100     |
| 1       | 684562  | 658173   | 14-Feb | 16:13:26   | 16:32:35 | 00:19:09 | 100     |
| 1       | 684562  | 658173   | 15-Feb | 16:12:10   | 16:34:25 | 00:22:15 | 100     |
| 1       | 684562  | 658173   | 16-Feb | 16:11:10   | 16:35:44 | 00:24:34 | 100     |
| 1       | 684562  | 658173   | 17-Feb | 16:10:23   | 16:36:42 | 00:26:20 | 100     |
| 1       | 684562  | 658173   | 18-Feb | 16:09:47   | 16:37:26 | 00:27:39 | 100     |
| 1       | 684562  | 658173   | 19-Feb | 16:09:21   | 16:37:56 | 00:28:35 | 100     |
| 1       | 684562  | 658173   | 20-Feb | 16:09:03   | 16:38:14 | 00:29:11 | 100     |
| 1       | 684562  | 658173   | 21-Feb | 16:08:55   | 16:38:22 | 00:29:27 | 100     |
| 1       | 684562  | 658173   | 22-Feb | 16:08:56   | 16:38:19 | 00:29:24 | 100     |
| 1       | 684562  | 658173   | 23-Feb | 16:09:06   | 16:38:06 | 00:29:00 | 100     |
| 1       | 684562  | 658173   | 24-Feb | 16:09:26   | 16:37:42 | 00:28:16 | 100     |
| 1       | 684562  | 658173   | 25-Feb | 16:09:56   | 16:37:07 | 00:27:12 | 100     |
| 1       | 684562  | 658173   | 26-Feb | 16:10:27   | 16:36:19 | 00:25:53 | 100     |
| 1       | 684562  | 658173   | 27-Feb | 16:11:12   | 16:35:17 | 00:24:06 | 100     |
| 1       | 684562  | 658173   | 28-Feb | 16:12:15   | 16:34:00 | 00:21:45 | 100     |
| 1       | 684562  | 658173   | 29-Feb | 16:13:46   | 16:32:19 | 00:18:33 | 100     |
| 1       | 684562  | 658173   | 01-Mar | 16:16:07   | 16:29:59 | 00:13:52 | 57.96   |
| 1       | 684562  | 658173   | 02-Mar | 16:20:10   | 16:25:48 | 00:05:38 | 14.02   |
| 1       | 684562  | 658173   | 10-Oct | 15:53:08   | 16:02:31 | 00:09:24 | 39.44   |
| 1       | 684562  | 658173   | 11-Oct | 15:49:29   | 16:05:12 | 00:15:43 | 81.79   |
| 1       | 684562  | 658173   | 12-Oct | 15:47:05   | 16:06:48 | 00:19:43 | 100     |
| 1       | 684562  | 658173   | 13-Oct | 15:45:20   | 16:07:54 | 00:22:33 | 100     |
| 1       | 684562  | 658173   | 14-Oct | 15:43:59   | 16:08:40 | 00:24:41 | 100     |
| 1       | 684562  | 658173   | 15-Oct | 15:42:56   | 16:09:14 | 00:26:18 | 100     |
| 1       | 684562  | 658173   | 16-Oct | 15:42:06   | 16:09:36 | 00:27:30 | 100     |
| 1       | 684562  | 658173   | 17-Oct | 15:41:17   | 16:09:47 | 00:28:30 | 100     |
| 1       | 684562  | 658173   | 18-Oct | 15:40:39   | 16:09:48 | 00:29:08 | 100     |
| 1       | 684562  | 658173   | 19-Oct | 15:40:13   | 16:09:40 | 00:29:27 | 100     |
| 1       | 684562  | 658173   | 20-Oct | 15:39:57   | 16:09:23 | 00:29:26 | 100     |
| 1       | 684562  | 658173   | 21-Oct | 15:39:51   | 16:08:57 | 00:29:06 | 100     |
| 1       | 684562  | 658173   | 22-Oct | 15:39:55   | 16:08:22 | 00:28:27 | 100     |
| 1       | 684562  | 658173   | 23-Oct | 15:40:10   | 16:07:37 | 00:27:28 | 100     |
| 1       | 684562  | 658173   | 24-Oct | 15:40:35   | 16:06:40 | 00:26:06 | 100     |
| 1       | 684562  | 658173   | 25-Oct | 15:41:12   | 16:05:29 | 00:24:17 | 100     |
| 1       | 684562  | 658173   | 26-Oct | 15:42:04   | 16:03:59 | 00:21:55 | 100     |
| 1       | 684562  | 658173   | 27-Oct | 15:43:14   | 16:01:58 | 00:18:43 | 100     |
| 1       | 684562  | 658173   | 28-Oct | 15:44:51   | 16:00:08 | 00:15:17 | 100     |
| 1       | 684562  | 658173   | 29-Oct | 15:47:20   | 15:57:32 | 00:10:12 | 45.38   |

|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 6 | 685208 | 657687 | 01-Jan | 13:34:58 | 14:05:40 | 00:30:43 | 100   |
| 6 | 685208 | 657687 | 02-Jan | 13:35:31 | 14:06:04 | 00:30:33 | 100   |
| 6 | 685208 | 657687 | 03-Jan | 13:36:04 | 14:06:25 | 00:30:21 | 100   |
| 6 | 685208 | 657687 | 04-Jan | 13:36:39 | 14:06:46 | 00:30:07 | 100   |
| 6 | 685208 | 657687 | 05-Jan | 13:37:15 | 14:07:05 | 00:29:50 | 100   |
| 6 | 685208 | 657687 | 06-Jan | 13:37:52 | 14:07:21 | 00:29:30 | 100   |
| 6 | 685208 | 657687 | 07-Jan | 13:38:30 | 14:07:35 | 00:29:05 | 100   |
| 6 | 685208 | 657687 | 08-Jan | 13:39:10 | 14:07:47 | 00:28:36 | 100   |
| 6 | 685208 | 657687 | 09-Jan | 13:39:53 | 14:07:55 | 00:28:02 | 100   |
| 6 | 685208 | 657687 | 10-Jan | 13:40:38 | 14:07:59 | 00:27:22 | 100   |
| 6 | 685208 | 657687 | 11-Jan | 13:41:26 | 14:08:00 | 00:26:34 | 100   |
| 6 | 685208 | 657687 | 12-Jan | 13:42:17 | 14:07:56 | 00:25:39 | 100   |
| 6 | 685208 | 657687 | 13-Jan | 13:43:13 | 14:07:49 | 00:24:36 | 100   |
| 6 | 685208 | 657687 | 14-Jan | 13:44:15 | 14:07:37 | 00:23:22 | 100   |
| 6 | 685208 | 657687 | 15-Jan | 13:45:23 | 14:07:18 | 00:21:55 | 100   |
| 6 | 685208 | 657687 | 16-Jan | 13:46:41 | 14:06:50 | 00:20:09 | 100   |
| 6 | 685208 | 657687 | 17-Jan | 13:48:13 | 14:06:11 | 00:17:58 | 100   |
| 6 | 685208 | 657687 | 18-Jan | 13:50:09 | 14:05:15 | 00:15:07 | 94.44 |
| 6 | 685208 | 657687 | 19-Jan | 13:52:19 | 14:03:54 | 00:11:34 | 55.17 |
| 6 | 685208 | 657687 | 20-Jan | 13:55:22 | 14:01:26 | 00:06:03 | 14.68 |
| 6 | 685208 | 657687 | 21-Nov | 13:32:42 | 13:34:23 | 00:01:42 | 1.13  |
| 6 | 685208 | 657687 | 22-Nov | 13:28:46 | 13:38:52 | 00:10:07 | 41.56 |
| 6 | 685208 | 657687 | 23-Nov | 13:27:09 | 13:41:03 | 00:13:54 | 80.82 |
| 6 | 685208 | 657687 | 24-Nov | 13:25:39 | 13:42:42 | 00:17:03 | 100   |
| 6 | 685208 | 657687 | 25-Nov | 13:24:39 | 13:44:04 | 00:19:25 | 100   |
| 6 | 685208 | 657687 | 26-Nov | 13:23:56 | 13:45:15 | 00:21:19 | 100   |
| 6 | 685208 | 657687 | 27-Nov | 13:23:26 | 13:46:18 | 00:22:52 | 100   |
| 6 | 685208 | 657687 | 28-Nov | 13:23:05 | 13:47:15 | 00:24:10 | 100   |
| 6 | 685208 | 657687 | 29-Nov | 13:22:51 | 13:48:06 | 00:25:16 | 100   |
| 6 | 685208 | 657687 | 30-Nov | 13:22:43 | 13:48:57 | 00:26:14 | 100   |
| 6 | 685208 | 657687 | 01-Dec | 13:22:40 | 13:49:44 | 00:27:04 | 100   |
| 6 | 685208 | 657687 | 02-Dec | 13:22:41 | 13:50:28 | 00:27:47 | 100   |
| 6 | 685208 | 657687 | 03-Dec | 13:22:47 | 13:51:10 | 00:28:23 | 100   |
| 6 | 685208 | 657687 | 04-Dec | 13:22:55 | 13:51:49 | 00:28:54 | 100   |
| 6 | 685208 | 657687 | 05-Dec | 13:23:07 | 13:52:27 | 00:29:20 | 100   |
| 6 | 685208 | 657687 | 06-Dec | 13:23:21 | 13:53:03 | 00:29:42 | 100   |
| 6 | 685208 | 657687 | 07-Dec | 13:23:38 | 13:53:38 | 00:30:00 | 100   |
| 6 | 685208 | 657687 | 08-Dec | 13:23:56 | 13:54:12 | 00:30:15 | 100   |
| 6 | 685208 | 657687 | 09-Dec | 13:24:17 | 13:54:45 | 00:30:28 | 100   |
| 6 | 685208 | 657687 | 10-Dec | 13:24:39 | 13:55:18 | 00:30:39 | 100   |
| 6 | 685208 | 657687 | 11-Dec | 13:25:03 | 13:55:50 | 00:30:48 | 100   |
| 6 | 685208 | 657687 | 12-Dec | 13:25:27 | 13:56:22 | 00:30:54 | 100   |
| 6 | 685208 | 657687 | 13-Dec | 13:25:53 | 13:56:53 | 00:30:59 | 100   |
| 6 | 685208 | 657687 | 14-Dec | 13:26:20 | 13:57:24 | 00:31:04 | 100   |
| 6 | 685208 | 657687 | 15-Dec | 13:26:48 | 13:57:55 | 00:31:07 | 100   |
| 6 | 685208 | 657687 | 16-Dec | 13:27:16 | 13:58:25 | 00:31:10 | 100   |
| 6 | 685208 | 657687 | 17-Dec | 13:27:44 | 13:58:56 | 00:31:12 | 100   |
| 6 | 685208 | 657687 | 18-Dec | 13:28:13 | 13:59:26 | 00:31:13 | 100   |
| 6 | 685208 | 657687 | 19-Dec | 13:28:43 | 13:59:56 | 00:31:14 | 100   |

|   |        |        |        |          |          |          |     |
|---|--------|--------|--------|----------|----------|----------|-----|
| 6 | 685208 | 657687 | 20-Dec | 13:29:12 | 14:00:26 | 00:31:14 | 100 |
| 6 | 685208 | 657687 | 21-Dec | 13:29:42 | 14:00:56 | 00:31:14 | 100 |
| 6 | 685208 | 657687 | 22-Dec | 13:30:12 | 14:01:26 | 00:31:14 | 100 |
| 6 | 685208 | 657687 | 23-Dec | 13:30:42 | 14:01:56 | 00:31:13 | 100 |
| 6 | 685208 | 657687 | 24-Dec | 13:31:12 | 14:02:25 | 00:31:12 | 100 |
| 6 | 685208 | 657687 | 25-Dec | 13:31:43 | 14:02:54 | 00:31:11 | 100 |
| 6 | 685208 | 657687 | 26-Dec | 13:32:13 | 14:03:22 | 00:31:09 | 100 |
| 6 | 685208 | 657687 | 27-Dec | 13:32:44 | 14:03:50 | 00:31:06 | 100 |
| 6 | 685208 | 657687 | 28-Dec | 13:33:15 | 14:04:18 | 00:31:03 | 100 |
| 6 | 685208 | 657687 | 29-Dec | 13:33:46 | 14:04:44 | 00:30:58 | 100 |
| 6 | 685208 | 657687 | 30-Dec | 13:34:18 | 14:05:10 | 00:30:52 | 100 |
| 6 | 685208 | 657687 | 31-Dec | 13:34:50 | 14:05:35 | 00:30:45 | 100 |

House Easting Northing  
20 685369 658951

| Turbine | Easting | Northing | Date   | Start Time | End Time | Duration | % Cover |
|---------|---------|----------|--------|------------|----------|----------|---------|
| 1       | 684562  | 658173   | 30-Jan | 15:44:05   | 15:54:27 | 00:10:22 | 40.59   |
| 1       | 684562  | 658173   | 31-Jan | 15:41:45   | 15:57:07 | 00:15:23 | 93.18   |
| 1       | 684562  | 658173   | 01-Feb | 15:40:09   | 15:59:02 | 00:18:53 | 100     |
| 1       | 684562  | 658173   | 02-Feb | 15:38:56   | 16:00:53 | 00:21:58 | 100     |
| 1       | 684562  | 658173   | 03-Feb | 15:37:57   | 16:02:32 | 00:24:35 | 100     |
| 1       | 684562  | 658173   | 04-Feb | 15:37:10   | 16:03:51 | 00:26:41 | 100     |
| 1       | 684562  | 658173   | 05-Feb | 15:36:31   | 16:04:55 | 00:28:24 | 100     |
| 1       | 684562  | 658173   | 06-Feb | 15:36:00   | 16:05:48 | 00:29:48 | 100     |
| 1       | 684562  | 658173   | 07-Feb | 15:35:33   | 16:06:31 | 00:30:58 | 100     |
| 1       | 684562  | 658173   | 08-Feb | 15:35:11   | 16:07:05 | 00:31:54 | 100     |
| 1       | 684562  | 658173   | 09-Feb | 15:34:55   | 16:07:30 | 00:32:35 | 100     |
| 1       | 684562  | 658173   | 10-Feb | 15:34:45   | 16:07:47 | 00:33:01 | 100     |
| 1       | 684562  | 658173   | 11-Feb | 15:34:42   | 16:07:55 | 00:33:13 | 100     |
| 1       | 684562  | 658173   | 12-Feb | 15:34:45   | 16:07:56 | 00:33:11 | 100     |
| 1       | 684562  | 658173   | 13-Feb | 15:34:55   | 16:07:49 | 00:32:54 | 100     |
| 1       | 684562  | 658173   | 14-Feb | 15:35:11   | 16:07:33 | 00:32:22 | 100     |
| 1       | 684562  | 658173   | 15-Feb | 15:35:36   | 16:07:08 | 00:31:32 | 100     |
| 1       | 684562  | 658173   | 16-Feb | 15:36:09   | 16:06:34 | 00:30:24 | 100     |
| 1       | 684562  | 658173   | 17-Feb | 15:36:53   | 16:05:48 | 00:28:55 | 100     |
| 1       | 684562  | 658173   | 18-Feb | 15:37:50   | 16:04:52 | 00:27:03 | 100     |
| 1       | 684562  | 658173   | 19-Feb | 15:39:03   | 16:03:42 | 00:24:38 | 100     |
| 1       | 684562  | 658173   | 20-Feb | 15:40:42   | 16:02:12 | 00:21:30 | 100     |
| 1       | 684562  | 658173   | 21-Feb | 15:43:06   | 16:00:12 | 00:17:06 | 64.94   |
| 1       | 684562  | 658173   | 22-Feb | 15:46:03   | 15:57:15 | 00:11:12 | 50.24   |
| 1       | 684562  | 658173   | 19-Oct | 15:16:47   | 15:29:16 | 00:12:29 | 62.49   |
| 1       | 684562  | 658173   | 20-Oct | 15:13:41   | 15:31:39 | 00:17:58 | 75.87   |
| 1       | 684562  | 658173   | 21-Oct | 15:11:12   | 15:33:15 | 00:22:03 | 100     |
| 1       | 684562  | 658173   | 22-Oct | 15:09:25   | 15:34:26 | 00:25:01 | 100     |
| 1       | 684562  | 658173   | 23-Oct | 15:08:01   | 15:35:20 | 00:27:19 | 100     |
| 1       | 684562  | 658173   | 24-Oct | 15:06:55   | 15:36:02 | 00:29:07 | 100     |
| 1       | 684562  | 658173   | 25-Oct | 15:06:02   | 15:36:35 | 00:30:33 | 100     |
| 1       | 684562  | 658173   | 26-Oct | 15:05:21   | 15:36:59 | 00:31:38 | 100     |

|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 1 | 684562 | 658173 | 27-Oct | 15:04:50 | 15:37:15 | 00:32:25 | 100   |
| 1 | 684562 | 658173 | 28-Oct | 15:04:27 | 15:37:24 | 00:32:56 | 100   |
| 1 | 684562 | 658173 | 29-Oct | 15:04:13 | 15:37:25 | 00:33:12 | 100   |
| 1 | 684562 | 658173 | 30-Oct | 15:04:07 | 15:37:21 | 00:33:14 | 100   |
| 1 | 684562 | 658173 | 31-Oct | 15:04:09 | 15:37:10 | 00:33:01 | 100   |
| 1 | 684562 | 658173 | 01-Nov | 15:04:18 | 15:36:53 | 00:32:35 | 100   |
| 1 | 684562 | 658173 | 02-Nov | 15:04:35 | 15:36:29 | 00:31:54 | 100   |
| 1 | 684562 | 658173 | 03-Nov | 15:04:59 | 15:35:59 | 00:30:59 | 100   |
| 1 | 684562 | 658173 | 04-Nov | 15:05:31 | 15:35:21 | 00:29:50 | 100   |
| 1 | 684562 | 658173 | 05-Nov | 15:06:07 | 15:34:35 | 00:28:28 | 100   |
| 1 | 684562 | 658173 | 06-Nov | 15:06:53 | 15:33:39 | 00:26:47 | 100   |
| 1 | 684562 | 658173 | 07-Nov | 15:07:49 | 15:32:31 | 00:24:43 | 100   |
| 1 | 684562 | 658173 | 08-Nov | 15:08:57 | 15:31:06 | 00:22:10 | 100   |
| 1 | 684562 | 658173 | 09-Nov | 15:10:21 | 15:29:29 | 00:19:08 | 100   |
| 1 | 684562 | 658173 | 10-Nov | 15:12:08 | 15:27:52 | 00:15:45 | 97.52 |
| 1 | 684562 | 658173 | 11-Nov | 15:14:37 | 15:25:36 | 00:10:59 | 45.61 |
| 6 | 685208 | 657687 | 01-Jan | 12:56:27 | 13:16:54 | 00:20:27 | 100   |
| 6 | 685208 | 657687 | 02-Jan | 12:57:29 | 13:16:54 | 00:19:25 | 100   |
| 6 | 685208 | 657687 | 03-Jan | 12:58:39 | 13:16:48 | 00:18:09 | 100   |
| 6 | 685208 | 657687 | 04-Jan | 12:59:59 | 13:16:34 | 00:16:35 | 94.68 |
| 6 | 685208 | 657687 | 05-Jan | 13:01:30 | 13:16:11 | 00:14:41 | 74.2  |
| 6 | 685208 | 657687 | 06-Jan | 13:02:59 | 13:15:33 | 00:12:34 | 52.3  |
| 6 | 685208 | 657687 | 07-Jan | 13:04:50 | 13:14:27 | 00:09:37 | 28.99 |
| 6 | 685208 | 657687 | 08-Jan | 13:07:54 | 13:11:13 | 00:03:19 | 4.27  |
| 6 | 685208 | 657687 | 04-Dec | 12:50:06 | 12:57:44 | 00:07:38 | 17.56 |
| 6 | 685208 | 657687 | 05-Dec | 12:48:46 | 13:00:05 | 00:11:19 | 41.4  |
| 6 | 685208 | 657687 | 06-Dec | 12:48:00 | 13:01:45 | 00:13:45 | 63.85 |
| 6 | 685208 | 657687 | 07-Dec | 12:47:26 | 13:03:07 | 00:15:42 | 84.91 |
| 6 | 685208 | 657687 | 08-Dec | 12:46:53 | 13:04:19 | 00:17:26 | 100   |
| 6 | 685208 | 657687 | 09-Dec | 12:46:33 | 13:05:23 | 00:18:50 | 100   |
| 6 | 685208 | 657687 | 10-Dec | 12:46:23 | 13:06:21 | 00:19:58 | 100   |
| 6 | 685208 | 657687 | 11-Dec | 12:46:19 | 13:07:15 | 00:20:56 | 100   |
| 6 | 685208 | 657687 | 12-Dec | 12:46:21 | 13:08:05 | 00:21:43 | 100   |
| 6 | 685208 | 657687 | 13-Dec | 12:46:28 | 13:08:52 | 00:22:24 | 100   |
| 6 | 685208 | 657687 | 14-Dec | 12:46:39 | 13:09:36 | 00:22:57 | 100   |
| 6 | 685208 | 657687 | 15-Dec | 12:46:53 | 13:10:18 | 00:23:25 | 100   |
| 6 | 685208 | 657687 | 16-Dec | 12:47:10 | 13:10:58 | 00:23:47 | 100   |
| 6 | 685208 | 657687 | 17-Dec | 12:47:30 | 13:11:35 | 00:24:05 | 100   |
| 6 | 685208 | 657687 | 18-Dec | 12:47:53 | 13:12:11 | 00:24:18 | 100   |
| 6 | 685208 | 657687 | 19-Dec | 12:48:17 | 13:12:45 | 00:24:28 | 100   |
| 6 | 685208 | 657687 | 20-Dec | 12:48:44 | 13:13:17 | 00:24:33 | 100   |
| 6 | 685208 | 657687 | 21-Dec | 12:49:13 | 13:13:48 | 00:24:34 | 100   |
| 6 | 685208 | 657687 | 22-Dec | 12:49:45 | 13:14:17 | 00:24:32 | 100   |
| 6 | 685208 | 657687 | 23-Dec | 12:50:18 | 13:14:44 | 00:24:26 | 100   |
| 6 | 685208 | 657687 | 24-Dec | 12:50:53 | 13:15:09 | 00:24:15 | 100   |
| 6 | 685208 | 657687 | 25-Dec | 12:51:30 | 13:15:31 | 00:24:01 | 100   |
| 6 | 685208 | 657687 | 26-Dec | 12:52:10 | 13:15:52 | 00:23:42 | 100   |
| 6 | 685208 | 657687 | 27-Dec | 12:52:52 | 13:16:11 | 00:23:18 | 100   |
| 6 | 685208 | 657687 | 28-Dec | 12:53:37 | 13:16:26 | 00:22:49 | 100   |

|   |        |        |        |          |          |          |     |
|---|--------|--------|--------|----------|----------|----------|-----|
| 6 | 685208 | 657687 | 29-Dec | 12:54:25 | 13:16:39 | 00:22:14 | 100 |
| 6 | 685208 | 657687 | 30-Dec | 12:55:17 | 13:16:48 | 00:21:32 | 100 |
| 6 | 685208 | 657687 | 31-Dec | 12:56:12 | 13:16:54 | 00:20:42 | 100 |

|       |         |          |
|-------|---------|----------|
| House | Easting | Northing |
| 21    | 683961  | 659177   |

| Turbine | Easting | Northing | Date   | Start Time | End Time | Duration | % Cover |
|---------|---------|----------|--------|------------|----------|----------|---------|
| 1       | 684562  | 658173   | 01-Jan | 10:03:25   | 10:35:51 | 00:32:26 | 100     |
| 1       | 684562  | 658173   | 02-Jan | 10:03:51   | 10:36:20 | 00:32:30 | 100     |
| 1       | 684562  | 658173   | 03-Jan | 10:04:17   | 10:36:50 | 00:32:33 | 100     |
| 1       | 684562  | 658173   | 04-Jan | 10:04:43   | 10:37:18 | 00:32:35 | 100     |
| 1       | 684562  | 658173   | 05-Jan | 10:05:10   | 10:41:41 | 00:36:31 | 100     |
| 1       | 684562  | 658173   | 06-Jan | 10:05:37   | 10:42:07 | 00:36:30 | 100     |
| 1       | 684562  | 658173   | 07-Jan | 10:06:04   | 10:42:31 | 00:36:27 | 100     |
| 1       | 684562  | 658173   | 08-Jan | 10:06:33   | 10:42:53 | 00:36:20 | 100     |
| 1       | 684562  | 658173   | 09-Jan | 10:07:02   | 10:43:13 | 00:36:11 | 100     |
| 1       | 684562  | 658173   | 10-Jan | 10:07:33   | 10:43:31 | 00:35:59 | 100     |
| 1       | 684562  | 658173   | 11-Jan | 10:08:04   | 10:43:47 | 00:35:42 | 100     |
| 1       | 684562  | 658173   | 12-Jan | 10:08:38   | 10:43:59 | 00:35:22 | 100     |
| 1       | 684562  | 658173   | 13-Jan | 10:09:14   | 10:44:09 | 00:34:56 | 100     |
| 1       | 684562  | 658173   | 14-Jan | 10:09:52   | 10:44:15 | 00:34:24 | 100     |
| 1       | 684562  | 658173   | 15-Jan | 10:10:32   | 10:44:18 | 00:33:46 | 100     |
| 1       | 684562  | 658173   | 16-Jan | 10:11:16   | 10:44:15 | 00:32:59 | 100     |
| 1       | 684562  | 658173   | 17-Jan | 10:12:03   | 10:44:08 | 00:32:05 | 100     |
| 1       | 684562  | 658173   | 18-Jan | 10:12:55   | 10:43:55 | 00:31:00 | 100     |
| 1       | 684562  | 658173   | 19-Jan | 10:13:52   | 10:43:35 | 00:29:43 | 100     |
| 1       | 684562  | 658173   | 20-Jan | 10:14:56   | 10:43:07 | 00:28:11 | 100     |
| 1       | 684562  | 658173   | 21-Jan | 10:16:08   | 10:42:29 | 00:26:20 | 100     |
| 1       | 684562  | 658173   | 22-Jan | 10:17:26   | 10:41:37 | 00:24:10 | 100     |
| 1       | 684562  | 658173   | 23-Jan | 10:18:50   | 10:40:25 | 00:21:35 | 100     |
| 1       | 684562  | 658173   | 24-Jan | 10:20:30   | 10:38:39 | 00:18:09 | 100     |
| 1       | 684562  | 658173   | 25-Jan | 10:22:39   | 10:35:26 | 00:12:48 | 62.93   |
| 1       | 684562  | 658173   | 26-Jan | 10:26:02   | 10:32:31 | 00:06:29 | 15.67   |
| 1       | 684562  | 658173   | 16-Nov | 09:56:52   | 10:06:36 | 00:09:44 | 35.56   |
| 1       | 684562  | 658173   | 17-Nov | 09:54:39   | 10:10:01 | 00:15:22 | 81.76   |
| 1       | 684562  | 658173   | 18-Nov | 09:53:13   | 10:12:55 | 00:19:42 | 100     |
| 1       | 684562  | 658173   | 19-Nov | 09:52:10   | 10:14:52 | 00:22:42 | 100     |
| 1       | 684562  | 658173   | 20-Nov | 09:51:23   | 10:16:25 | 00:25:02 | 100     |
| 1       | 684562  | 658173   | 21-Nov | 09:50:37   | 10:17:43 | 00:27:05 | 100     |
| 1       | 684562  | 658173   | 22-Nov | 09:50:03   | 10:18:50 | 00:28:48 | 100     |
| 1       | 684562  | 658173   | 23-Nov | 09:49:37   | 10:19:50 | 00:30:13 | 100     |
| 1       | 684562  | 658173   | 24-Nov | 09:49:19   | 10:20:43 | 00:31:25 | 100     |
| 1       | 684562  | 658173   | 25-Nov | 09:49:07   | 10:21:32 | 00:32:26 | 100     |
| 1       | 684562  | 658173   | 26-Nov | 09:49:00   | 10:22:17 | 00:33:17 | 100     |
| 1       | 684562  | 658173   | 27-Nov | 09:48:59   | 10:22:58 | 00:33:59 | 100     |
| 1       | 684562  | 658173   | 28-Nov | 09:49:01   | 10:23:37 | 00:34:35 | 100     |
| 1       | 684562  | 658173   | 29-Nov | 09:49:08   | 10:24:13 | 00:35:05 | 100     |
| 1       | 684562  | 658173   | 30-Nov | 09:49:18   | 10:24:47 | 00:35:29 | 100     |



|   |        |        |        |          |          |          |     |
|---|--------|--------|--------|----------|----------|----------|-----|
| 1 | 684562 | 658173 | 01-Dec | 09:49:31 | 10:25:19 | 00:35:48 | 100 |
| 1 | 684562 | 658173 | 02-Dec | 09:49:46 | 10:25:50 | 00:36:03 | 100 |
| 1 | 684562 | 658173 | 03-Dec | 09:50:05 | 10:26:19 | 00:36:15 | 100 |
| 1 | 684562 | 658173 | 04-Dec | 09:50:25 | 10:26:48 | 00:36:23 | 100 |
| 1 | 684562 | 658173 | 05-Dec | 09:50:48 | 10:27:16 | 00:36:28 | 100 |
| 1 | 684562 | 658173 | 06-Dec | 09:51:12 | 10:27:43 | 00:36:31 | 100 |
| 1 | 684562 | 658173 | 07-Dec | 09:51:38 | 10:28:10 | 00:36:32 | 100 |
| 1 | 684562 | 658173 | 08-Dec | 09:52:05 | 10:24:39 | 00:32:35 | 100 |
| 1 | 684562 | 658173 | 09-Dec | 09:52:33 | 10:25:05 | 00:32:32 | 100 |
| 1 | 684562 | 658173 | 10-Dec | 09:53:02 | 10:25:31 | 00:32:29 | 100 |
| 1 | 684562 | 658173 | 11-Dec | 09:53:32 | 10:25:57 | 00:32:25 | 100 |
| 1 | 684562 | 658173 | 12-Dec | 09:54:03 | 10:26:24 | 00:32:20 | 100 |
| 1 | 684562 | 658173 | 13-Dec | 09:54:34 | 10:26:50 | 00:32:16 | 100 |
| 1 | 684562 | 658173 | 14-Dec | 09:55:06 | 10:27:17 | 00:32:11 | 100 |
| 1 | 684562 | 658173 | 15-Dec | 09:55:37 | 10:27:44 | 00:32:06 | 100 |
| 1 | 684562 | 658173 | 16-Dec | 09:56:09 | 10:28:11 | 00:32:02 | 100 |
| 1 | 684562 | 658173 | 17-Dec | 09:56:40 | 10:28:39 | 00:31:59 | 100 |
| 1 | 684562 | 658173 | 18-Dec | 09:57:11 | 10:29:07 | 00:31:56 | 100 |
| 1 | 684562 | 658173 | 19-Dec | 09:57:42 | 10:29:36 | 00:31:53 | 100 |
| 1 | 684562 | 658173 | 20-Dec | 09:58:13 | 10:30:05 | 00:31:52 | 100 |
| 1 | 684562 | 658173 | 21-Dec | 09:58:43 | 10:30:35 | 00:31:52 | 100 |
| 1 | 684562 | 658173 | 22-Dec | 09:59:12 | 10:31:05 | 00:31:52 | 100 |
| 1 | 684562 | 658173 | 23-Dec | 09:59:42 | 10:31:35 | 00:31:53 | 100 |
| 1 | 684562 | 658173 | 24-Dec | 10:00:10 | 10:32:06 | 00:31:56 | 100 |
| 1 | 684562 | 658173 | 25-Dec | 10:00:38 | 10:32:37 | 00:31:59 | 100 |
| 1 | 684562 | 658173 | 26-Dec | 10:01:06 | 10:33:08 | 00:32:02 | 100 |
| 1 | 684562 | 658173 | 27-Dec | 10:01:33 | 10:33:39 | 00:32:06 | 100 |
| 1 | 684562 | 658173 | 28-Dec | 10:01:59 | 10:34:11 | 00:32:11 | 100 |
| 1 | 684562 | 658173 | 29-Dec | 10:02:26 | 10:34:42 | 00:32:16 | 100 |
| 1 | 684562 | 658173 | 30-Dec | 10:02:52 | 10:35:13 | 00:32:20 | 100 |
| 1 | 684562 | 658173 | 31-Dec | 10:03:18 | 10:35:43 | 00:32:25 | 100 |

House Easting Northing  
22 686231 658425

| Turbine | Easting | Northing | Date   | Start Time | End Time | Duration | % Cover |
|---------|---------|----------|--------|------------|----------|----------|---------|
| 6       | 685208  | 657687   | 13-Feb | 16:13:17   | 16:23:59 | 00:10:42 | 50.93   |
| 6       | 685208  | 657687   | 14-Feb | 16:10:48   | 16:26:26 | 00:15:39 | 100     |
| 6       | 685208  | 657687   | 15-Feb | 16:09:05   | 16:28:04 | 00:18:59 | 100     |
| 6       | 685208  | 657687   | 16-Feb | 16:07:48   | 16:29:49 | 00:22:01 | 100     |
| 6       | 685208  | 657687   | 17-Feb | 16:06:48   | 16:31:09 | 00:24:21 | 100     |
| 6       | 685208  | 657687   | 18-Feb | 16:06:01   | 16:32:08 | 00:26:07 | 100     |
| 6       | 685208  | 657687   | 19-Feb | 16:05:24   | 16:32:51 | 00:27:26 | 100     |
| 6       | 685208  | 657687   | 20-Feb | 16:04:58   | 16:33:20 | 00:28:22 | 100     |
| 6       | 685208  | 657687   | 21-Feb | 16:04:41   | 16:33:38 | 00:28:57 | 100     |
| 6       | 685208  | 657687   | 22-Feb | 16:04:33   | 16:33:45 | 00:29:12 | 100     |
| 6       | 685208  | 657687   | 23-Feb | 16:04:34   | 16:33:42 | 00:29:07 | 100     |
| 6       | 685208  | 657687   | 24-Feb | 16:04:45   | 16:33:28 | 00:28:42 | 100     |
| 6       | 685208  | 657687   | 25-Feb | 16:04:56   | 16:33:03 | 00:28:07 | 100     |

|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 6 | 685208 | 657687 | 26-Feb | 16:05:16 | 16:32:27 | 00:27:11 | 100   |
| 6 | 685208 | 657687 | 27-Feb | 16:05:48 | 16:31:38 | 00:25:50 | 100   |
| 6 | 685208 | 657687 | 28-Feb | 16:06:34 | 16:30:34 | 00:24:00 | 100   |
| 6 | 685208 | 657687 | 29-Feb | 16:07:39 | 16:29:15 | 00:21:36 | 100   |
| 6 | 685208 | 657687 | 01-Mar | 16:09:14 | 16:27:32 | 00:18:18 | 100   |
| 6 | 685208 | 657687 | 02-Mar | 16:11:45 | 16:25:07 | 00:13:22 | 49.88 |
| 6 | 685208 | 657687 | 03-Mar | 16:16:04 | 16:20:31 | 00:04:26 | 8.67  |
| 6 | 685208 | 657687 | 09-Oct | 15:49:12 | 15:58:02 | 00:08:50 | 34.82 |
| 6 | 685208 | 657687 | 10-Oct | 15:45:28 | 16:00:50 | 00:15:22 | 74.44 |
| 6 | 685208 | 657687 | 11-Oct | 15:42:57 | 16:02:28 | 00:19:32 | 100   |
| 6 | 685208 | 657687 | 12-Oct | 15:41:08 | 16:03:35 | 00:22:27 | 100   |
| 6 | 685208 | 657687 | 13-Oct | 15:39:45 | 16:04:22 | 00:24:37 | 100   |
| 6 | 685208 | 657687 | 14-Oct | 15:38:40 | 16:04:56 | 00:26:17 | 100   |
| 6 | 685208 | 657687 | 15-Oct | 15:37:49 | 16:05:18 | 00:27:29 | 100   |
| 6 | 685208 | 657687 | 16-Oct | 15:37:10 | 16:05:29 | 00:28:18 | 100   |
| 6 | 685208 | 657687 | 17-Oct | 15:36:38 | 16:05:29 | 00:28:51 | 100   |
| 6 | 685208 | 657687 | 18-Oct | 15:36:10 | 16:05:21 | 00:29:11 | 100   |
| 6 | 685208 | 657687 | 19-Oct | 15:35:53 | 16:05:04 | 00:29:11 | 100   |
| 6 | 685208 | 657687 | 20-Oct | 15:35:45 | 16:04:37 | 00:28:52 | 100   |
| 6 | 685208 | 657687 | 21-Oct | 15:35:48 | 16:04:01 | 00:28:14 | 100   |
| 6 | 685208 | 657687 | 22-Oct | 15:36:01 | 16:03:15 | 00:27:15 | 100   |
| 6 | 685208 | 657687 | 23-Oct | 15:36:25 | 16:02:17 | 00:25:52 | 100   |
| 6 | 685208 | 657687 | 24-Oct | 15:37:01 | 16:01:04 | 00:24:03 | 100   |
| 6 | 685208 | 657687 | 25-Oct | 15:37:52 | 15:59:32 | 00:21:39 | 100   |
| 6 | 685208 | 657687 | 26-Oct | 15:39:02 | 15:57:40 | 00:18:39 | 100   |
| 6 | 685208 | 657687 | 27-Oct | 15:40:38 | 15:55:52 | 00:15:14 | 100   |
| 6 | 685208 | 657687 | 28-Oct | 15:43:07 | 15:53:13 | 00:10:06 | 44.73 |

House Easting Northing  
23 683947 659291

| Turbine | Easting | Northing | Date   | Start Time | End Time | Duration | % Cover |
|---------|---------|----------|--------|------------|----------|----------|---------|
| 1       | 684562  | 658173   | 01-Jan | 10:12:56   | 10:46:23 | 00:33:27 | 100     |
| 1       | 684562  | 658173   | 02-Jan | 10:13:28   | 10:46:47 | 00:33:19 | 100     |
| 1       | 684562  | 658173   | 03-Jan | 10:14:00   | 10:47:09 | 00:33:09 | 100     |
| 1       | 684562  | 658173   | 04-Jan | 10:14:34   | 10:47:30 | 00:32:57 | 100     |
| 1       | 684562  | 658173   | 05-Jan | 10:15:08   | 10:47:49 | 00:32:41 | 100     |
| 1       | 684562  | 658173   | 06-Jan | 10:15:43   | 10:48:06 | 00:32:23 | 100     |
| 1       | 684562  | 658173   | 07-Jan | 10:16:20   | 10:48:21 | 00:32:01 | 100     |
| 1       | 684562  | 658173   | 08-Jan | 10:16:59   | 10:48:33 | 00:31:34 | 100     |
| 1       | 684562  | 658173   | 09-Jan | 10:17:39   | 10:48:42 | 00:31:03 | 100     |
| 1       | 684562  | 658173   | 10-Jan | 10:18:22   | 10:48:47 | 00:30:25 | 100     |
| 1       | 684562  | 658173   | 11-Jan | 10:19:07   | 10:48:49 | 00:29:41 | 100     |
| 1       | 684562  | 658173   | 12-Jan | 10:19:56   | 10:48:46 | 00:28:50 | 100     |
| 1       | 684562  | 658173   | 13-Jan | 10:20:49   | 10:48:37 | 00:27:49 | 100     |
| 1       | 684562  | 658173   | 14-Jan | 10:21:46   | 10:48:22 | 00:26:37 | 100     |
| 1       | 684562  | 658173   | 15-Jan | 10:22:49   | 10:47:59 | 00:25:11 | 100     |
| 1       | 684562  | 658173   | 16-Jan | 10:24:00   | 10:47:27 | 00:23:27 | 100     |
| 1       | 684562  | 658173   | 17-Jan | 10:25:22   | 10:46:41 | 00:21:19 | 100     |

|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 1 | 684562 | 658173 | 18-Jan | 10:26:59 | 10:45:35 | 00:18:35 | 100   |
| 1 | 684562 | 658173 | 19-Jan | 10:28:47 | 10:43:48 | 00:15:01 | 85.44 |
| 1 | 684562 | 658173 | 20-Jan | 10:30:58 | 10:41:30 | 00:10:32 | 45.11 |
| 1 | 684562 | 658173 | 21-Jan | 10:35:02 | 10:38:03 | 00:03:00 | 3.57  |
| 1 | 684562 | 658173 | 21-Nov | 10:07:51 | 10:14:56 | 00:07:05 | 19.92 |
| 1 | 684562 | 658173 | 22-Nov | 10:05:34 | 10:17:43 | 00:12:09 | 60.53 |
| 1 | 684562 | 658173 | 23-Nov | 10:04:13 | 10:20:43 | 00:16:30 | 99.97 |
| 1 | 684562 | 658173 | 24-Nov | 10:03:05 | 10:22:46 | 00:19:41 | 100   |
| 1 | 684562 | 658173 | 25-Nov | 10:02:12 | 10:24:21 | 00:22:09 | 100   |
| 1 | 684562 | 658173 | 26-Nov | 10:01:34 | 10:25:41 | 00:24:07 | 100   |
| 1 | 684562 | 658173 | 27-Nov | 10:01:07 | 10:26:50 | 00:25:43 | 100   |
| 1 | 684562 | 658173 | 28-Nov | 10:00:49 | 10:27:52 | 00:27:03 | 100   |
| 1 | 684562 | 658173 | 29-Nov | 10:00:37 | 10:28:48 | 00:28:11 | 100   |
| 1 | 684562 | 658173 | 30-Nov | 10:00:30 | 10:29:39 | 00:29:08 | 100   |
| 1 | 684562 | 658173 | 01-Dec | 10:00:29 | 10:30:26 | 00:29:57 | 100   |
| 1 | 684562 | 658173 | 02-Dec | 10:00:32 | 10:31:10 | 00:30:38 | 100   |
| 1 | 684562 | 658173 | 03-Dec | 10:00:38 | 10:31:52 | 00:31:14 | 100   |
| 1 | 684562 | 658173 | 04-Dec | 10:00:48 | 10:32:32 | 00:31:43 | 100   |
| 1 | 684562 | 658173 | 05-Dec | 10:01:01 | 10:33:09 | 00:32:08 | 100   |
| 1 | 684562 | 658173 | 06-Dec | 10:01:16 | 10:33:46 | 00:32:29 | 100   |
| 1 | 684562 | 658173 | 07-Dec | 10:01:34 | 10:34:21 | 00:32:47 | 100   |
| 1 | 684562 | 658173 | 08-Dec | 10:01:54 | 10:34:54 | 00:33:01 | 100   |
| 1 | 684562 | 658173 | 09-Dec | 10:02:15 | 10:35:27 | 00:33:13 | 100   |
| 1 | 684562 | 658173 | 10-Dec | 10:02:38 | 10:35:59 | 00:33:22 | 100   |
| 1 | 684562 | 658173 | 11-Dec | 10:03:02 | 10:36:32 | 00:33:29 | 100   |
| 1 | 684562 | 658173 | 12-Dec | 10:03:28 | 10:37:03 | 00:33:35 | 100   |
| 1 | 684562 | 658173 | 13-Dec | 10:03:54 | 10:37:34 | 00:33:40 | 100   |
| 1 | 684562 | 658173 | 14-Dec | 10:04:21 | 10:38:05 | 00:33:43 | 100   |
| 1 | 684562 | 658173 | 15-Dec | 10:04:49 | 10:38:35 | 00:33:46 | 100   |
| 1 | 684562 | 658173 | 16-Dec | 10:05:18 | 10:39:05 | 00:33:47 | 100   |
| 1 | 684562 | 658173 | 17-Dec | 10:05:47 | 10:39:36 | 00:33:49 | 100   |
| 1 | 684562 | 658173 | 18-Dec | 10:06:16 | 10:40:06 | 00:33:50 | 100   |
| 1 | 684562 | 658173 | 19-Dec | 10:06:46 | 10:40:36 | 00:33:50 | 100   |
| 1 | 684562 | 658173 | 20-Dec | 10:07:15 | 10:41:06 | 00:33:50 | 100   |
| 1 | 684562 | 658173 | 21-Dec | 10:07:45 | 10:41:36 | 00:33:50 | 100   |
| 1 | 684562 | 658173 | 22-Dec | 10:08:15 | 10:42:06 | 00:33:50 | 100   |
| 1 | 684562 | 658173 | 23-Dec | 10:08:45 | 10:42:35 | 00:33:50 | 100   |
| 1 | 684562 | 658173 | 24-Dec | 10:09:15 | 10:43:05 | 00:33:49 | 100   |
| 1 | 684562 | 658173 | 25-Dec | 10:09:45 | 10:43:34 | 00:33:49 | 100   |
| 1 | 684562 | 658173 | 26-Dec | 10:10:15 | 10:44:02 | 00:33:47 | 100   |
| 1 | 684562 | 658173 | 27-Dec | 10:10:45 | 10:44:31 | 00:33:45 | 100   |
| 1 | 684562 | 658173 | 28-Dec | 10:11:16 | 10:44:59 | 00:33:43 | 100   |
| 1 | 684562 | 658173 | 29-Dec | 10:11:46 | 10:45:26 | 00:33:39 | 100   |
| 1 | 684562 | 658173 | 30-Dec | 10:12:17 | 10:45:52 | 00:33:35 | 100   |
| 1 | 684562 | 658173 | 31-Dec | 10:12:48 | 10:46:17 | 00:33:29 | 100   |

House Easting Northing  
24 685740 658824

Turbine Easting Northing Date Start Time End Time Duration % Cover

|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 1 | 684562 | 658173 | 19-Feb | 16:42:13 | 16:48:15 | 00:06:02 | 16.81 |
| 1 | 684562 | 658173 | 20-Feb | 16:38:34 | 16:51:42 | 00:13:08 | 84.64 |
| 1 | 684562 | 658173 | 21-Feb | 16:36:29 | 16:53:41 | 00:17:12 | 100   |
| 1 | 684562 | 658173 | 22-Feb | 16:34:58 | 16:55:42 | 00:20:43 | 100   |
| 1 | 684562 | 658173 | 23-Feb | 16:33:49 | 16:57:02 | 00:23:13 | 100   |
| 1 | 684562 | 658173 | 24-Feb | 16:32:56 | 16:57:59 | 00:25:03 | 100   |
| 1 | 684562 | 658173 | 25-Feb | 16:32:15 | 16:58:37 | 00:26:22 | 100   |
| 1 | 684562 | 658173 | 26-Feb | 16:31:46 | 16:59:01 | 00:27:15 | 100   |
| 1 | 684562 | 658173 | 27-Feb | 16:31:28 | 16:59:12 | 00:27:45 | 100   |
| 1 | 684562 | 658173 | 28-Feb | 16:31:19 | 16:59:11 | 00:27:52 | 100   |
| 1 | 684562 | 658173 | 29-Feb | 16:31:19 | 16:58:59 | 00:27:40 | 100   |
| 1 | 684562 | 658173 | 01-Mar | 16:31:25 | 16:58:35 | 00:27:10 | 100   |
| 1 | 684562 | 658173 | 02-Mar | 16:31:43 | 16:57:58 | 00:26:15 | 100   |
| 1 | 684562 | 658173 | 03-Mar | 16:32:15 | 16:57:08 | 00:24:53 | 100   |
| 1 | 684562 | 658173 | 04-Mar | 16:33:03 | 16:56:02 | 00:22:58 | 100   |
| 1 | 684562 | 658173 | 05-Mar | 16:34:15 | 16:54:35 | 00:20:20 | 100   |
| 1 | 684562 | 658173 | 06-Mar | 16:36:05 | 16:52:39 | 00:16:34 | 87.07 |
| 1 | 684562 | 658173 | 07-Mar | 16:39:40 | 16:49:44 | 00:10:04 | 49.18 |
| 1 | 684562 | 658173 | 04-Oct | 16:20:01 | 16:24:43 | 00:04:43 | 10.32 |
| 1 | 684562 | 658173 | 05-Oct | 16:14:52 | 16:28:31 | 00:13:39 | 46.71 |
| 1 | 684562 | 658173 | 06-Oct | 16:11:53 | 16:30:19 | 00:18:25 | 100   |
| 1 | 684562 | 658173 | 07-Oct | 16:09:54 | 16:31:28 | 00:21:34 | 100   |
| 1 | 684562 | 658173 | 08-Oct | 16:08:23 | 16:32:14 | 00:23:51 | 100   |
| 1 | 684562 | 658173 | 09-Oct | 16:07:13 | 16:32:43 | 00:25:30 | 100   |
| 1 | 684562 | 658173 | 10-Oct | 16:06:19 | 16:32:59 | 00:26:40 | 100   |
| 1 | 684562 | 658173 | 11-Oct | 16:05:38 | 16:33:03 | 00:27:24 | 100   |
| 1 | 684562 | 658173 | 12-Oct | 16:05:10 | 16:32:56 | 00:27:46 | 100   |
| 1 | 684562 | 658173 | 13-Oct | 16:04:46 | 16:32:39 | 00:27:53 | 100   |
| 1 | 684562 | 658173 | 14-Oct | 16:04:34 | 16:32:12 | 00:27:38 | 100   |
| 1 | 684562 | 658173 | 15-Oct | 16:04:32 | 16:31:34 | 00:27:02 | 100   |
| 1 | 684562 | 658173 | 16-Oct | 16:04:42 | 16:30:44 | 00:26:02 | 100   |
| 1 | 684562 | 658173 | 17-Oct | 16:05:04 | 16:29:40 | 00:24:36 | 100   |
| 1 | 684562 | 658173 | 18-Oct | 16:05:41 | 16:28:20 | 00:22:38 | 100   |
| 1 | 684562 | 658173 | 19-Oct | 16:06:36 | 16:26:34 | 00:19:58 | 100   |
| 1 | 684562 | 658173 | 20-Oct | 16:07:54 | 16:24:13 | 00:16:19 | 100   |
| 1 | 684562 | 658173 | 21-Oct | 16:09:54 | 16:21:54 | 00:12:00 | 69.2  |
| 1 | 684562 | 658173 | 22-Oct | 16:14:30 | 16:16:59 | 00:02:30 | 2.83  |
| 6 | 685208 | 657687 | 01-Jan | 14:05:24 | 14:35:59 | 00:30:36 | 100   |
| 6 | 685208 | 657687 | 02-Jan | 14:05:45 | 14:36:35 | 00:30:50 | 100   |
| 6 | 685208 | 657687 | 03-Jan | 14:06:07 | 14:37:11 | 00:31:04 | 100   |
| 6 | 685208 | 657687 | 04-Jan | 14:06:29 | 14:37:45 | 00:31:17 | 100   |
| 6 | 685208 | 657687 | 05-Jan | 14:06:51 | 14:38:19 | 00:31:29 | 100   |
| 6 | 685208 | 657687 | 06-Jan | 14:07:13 | 14:38:52 | 00:31:39 | 100   |
| 6 | 685208 | 657687 | 07-Jan | 14:07:35 | 14:39:23 | 00:31:48 | 100   |
| 6 | 685208 | 657687 | 08-Jan | 14:07:58 | 14:39:53 | 00:31:55 | 100   |
| 6 | 685208 | 657687 | 09-Jan | 14:08:21 | 14:40:21 | 00:31:59 | 100   |
| 6 | 685208 | 657687 | 10-Jan | 14:08:46 | 14:40:47 | 00:32:01 | 100   |
| 6 | 685208 | 657687 | 11-Jan | 14:09:12 | 14:41:11 | 00:31:59 | 100   |

|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 6 | 685208 | 657687 | 12-Jan | 14:09:39 | 14:41:32 | 00:31:54 | 100   |
| 6 | 685208 | 657687 | 13-Jan | 14:10:08 | 14:41:51 | 00:31:43 | 100   |
| 6 | 685208 | 657687 | 14-Jan | 14:10:38 | 14:42:06 | 00:31:28 | 100   |
| 6 | 685208 | 657687 | 15-Jan | 14:11:11 | 14:42:18 | 00:31:07 | 100   |
| 6 | 685208 | 657687 | 16-Jan | 14:11:47 | 14:42:26 | 00:30:40 | 100   |
| 6 | 685208 | 657687 | 17-Jan | 14:12:25 | 14:42:30 | 00:30:05 | 100   |
| 6 | 685208 | 657687 | 18-Jan | 14:13:07 | 14:42:31 | 00:29:24 | 100   |
| 6 | 685208 | 657687 | 19-Jan | 14:13:53 | 14:42:26 | 00:28:33 | 100   |
| 6 | 685208 | 657687 | 20-Jan | 14:14:45 | 14:42:16 | 00:27:31 | 100   |
| 6 | 685208 | 657687 | 21-Jan | 14:15:42 | 14:41:58 | 00:26:16 | 100   |
| 6 | 685208 | 657687 | 22-Jan | 14:16:48 | 14:41:32 | 00:24:44 | 100   |
| 6 | 685208 | 657687 | 23-Jan | 14:18:03 | 14:40:56 | 00:22:53 | 100   |
| 6 | 685208 | 657687 | 24-Jan | 14:19:34 | 14:40:07 | 00:20:33 | 100   |
| 6 | 685208 | 657687 | 25-Jan | 14:21:30 | 14:38:59 | 00:17:29 | 100   |
| 6 | 685208 | 657687 | 26-Jan | 14:23:39 | 14:37:29 | 00:13:50 | 81.18 |
| 6 | 685208 | 657687 | 27-Jan | 14:26:18 | 14:35:14 | 00:08:56 | 32.67 |
| 6 | 685208 | 657687 | 14-Nov | 13:58:59 | 14:06:16 | 00:07:17 | 21.42 |
| 6 | 685208 | 657687 | 15-Nov | 13:56:22 | 14:09:16 | 00:12:53 | 69.52 |
| 6 | 685208 | 657687 | 16-Nov | 13:54:42 | 14:11:16 | 00:16:34 | 100   |
| 6 | 685208 | 657687 | 17-Nov | 13:53:04 | 14:12:55 | 00:19:51 | 100   |
| 6 | 685208 | 657687 | 18-Nov | 13:51:56 | 14:14:15 | 00:22:19 | 100   |
| 6 | 685208 | 657687 | 19-Nov | 13:51:07 | 14:15:23 | 00:24:17 | 100   |
| 6 | 685208 | 657687 | 20-Nov | 13:50:30 | 14:16:22 | 00:25:52 | 100   |
| 6 | 685208 | 657687 | 21-Nov | 13:50:03 | 14:17:14 | 00:27:11 | 100   |
| 6 | 685208 | 657687 | 22-Nov | 13:49:45 | 14:18:01 | 00:28:16 | 100   |
| 6 | 685208 | 657687 | 23-Nov | 13:49:33 | 14:18:42 | 00:29:10 | 100   |
| 6 | 685208 | 657687 | 24-Nov | 13:49:26 | 14:19:20 | 00:29:54 | 100   |
| 6 | 685208 | 657687 | 25-Nov | 13:49:25 | 14:19:55 | 00:30:30 | 100   |
| 6 | 685208 | 657687 | 26-Nov | 13:49:29 | 14:20:28 | 00:30:59 | 100   |
| 6 | 685208 | 657687 | 27-Nov | 13:49:36 | 14:20:58 | 00:31:22 | 100   |
| 6 | 685208 | 657687 | 28-Nov | 13:49:47 | 14:21:26 | 00:31:39 | 100   |
| 6 | 685208 | 657687 | 29-Nov | 13:50:02 | 14:21:52 | 00:31:51 | 100   |
| 6 | 685208 | 657687 | 30-Nov | 13:50:19 | 14:22:17 | 00:31:58 | 100   |
| 6 | 685208 | 657687 | 01-Dec | 13:50:39 | 14:22:40 | 00:32:01 | 100   |
| 6 | 685208 | 657687 | 02-Dec | 13:51:01 | 14:23:02 | 00:32:01 | 100   |
| 6 | 685208 | 657687 | 03-Dec | 13:51:26 | 14:23:24 | 00:31:58 | 100   |
| 6 | 685208 | 657687 | 04-Dec | 13:51:53 | 14:23:44 | 00:31:52 | 100   |
| 6 | 685208 | 657687 | 05-Dec | 13:52:21 | 14:24:04 | 00:31:43 | 100   |
| 6 | 685208 | 657687 | 06-Dec | 13:52:51 | 14:24:24 | 00:31:33 | 100   |
| 6 | 685208 | 657687 | 07-Dec | 13:53:22 | 14:24:43 | 00:31:22 | 100   |
| 6 | 685208 | 657687 | 08-Dec | 13:53:54 | 14:25:03 | 00:31:09 | 100   |
| 6 | 685208 | 657687 | 09-Dec | 13:54:27 | 14:25:22 | 00:30:55 | 100   |
| 6 | 685208 | 657687 | 10-Dec | 13:55:00 | 14:25:42 | 00:30:42 | 100   |
| 6 | 685208 | 657687 | 11-Dec | 13:55:34 | 14:26:02 | 00:30:28 | 100   |
| 6 | 685208 | 657687 | 12-Dec | 13:56:09 | 14:26:23 | 00:30:14 | 100   |
| 6 | 685208 | 657687 | 13-Dec | 13:56:43 | 14:26:44 | 00:30:01 | 100   |
| 6 | 685208 | 657687 | 14-Dec | 13:57:18 | 14:27:07 | 00:29:49 | 100   |
| 6 | 685208 | 657687 | 15-Dec | 13:57:52 | 14:27:30 | 00:29:38 | 100   |
| 6 | 685208 | 657687 | 16-Dec | 13:58:26 | 14:27:54 | 00:29:28 | 100   |
| 6 | 685208 | 657687 | 17-Dec | 13:58:59 | 14:28:19 | 00:29:20 | 100   |

|   |        |        |        |          |          |          |     |
|---|--------|--------|--------|----------|----------|----------|-----|
| 6 | 685208 | 657687 | 18-Dec | 13:59:32 | 14:28:45 | 00:29:13 | 100 |
| 6 | 685208 | 657687 | 19-Dec | 14:00:03 | 14:29:12 | 00:29:09 | 100 |
| 6 | 685208 | 657687 | 20-Dec | 14:00:35 | 14:29:41 | 00:29:06 | 100 |
| 6 | 685208 | 657687 | 21-Dec | 14:01:05 | 14:30:10 | 00:29:05 | 100 |
| 6 | 685208 | 657687 | 22-Dec | 14:01:34 | 14:30:41 | 00:29:07 | 100 |
| 6 | 685208 | 657687 | 23-Dec | 14:02:02 | 14:31:12 | 00:29:10 | 100 |
| 6 | 685208 | 657687 | 24-Dec | 14:02:30 | 14:31:45 | 00:29:15 | 100 |
| 6 | 685208 | 657687 | 25-Dec | 14:02:56 | 14:32:19 | 00:29:23 | 100 |
| 6 | 685208 | 657687 | 26-Dec | 14:03:22 | 14:32:53 | 00:29:31 | 100 |
| 6 | 685208 | 657687 | 27-Dec | 14:03:46 | 14:33:28 | 00:29:42 | 100 |
| 6 | 685208 | 657687 | 28-Dec | 14:04:10 | 14:34:03 | 00:29:53 | 100 |
| 6 | 685208 | 657687 | 29-Dec | 14:04:33 | 14:34:39 | 00:30:06 | 100 |
| 6 | 685208 | 657687 | 30-Dec | 14:04:56 | 14:35:15 | 00:30:19 | 100 |
| 6 | 685208 | 657687 | 31-Dec | 14:05:18 | 14:35:51 | 00:30:33 | 100 |

House Easting Northing  
25 685421 658654

| Turbine | Easting | Northing | Date   | Start Time | End Time | Duration | % Cover |
|---------|---------|----------|--------|------------|----------|----------|---------|
| 1       | 684562  | 658173   | 23-Feb | 16:34:41   | 16:38:56 | 00:04:16 | 6.29    |
| 1       | 684562  | 658173   | 24-Feb | 16:29:26   | 16:43:54 | 00:14:28 | 76.09   |
| 1       | 684562  | 658173   | 25-Feb | 16:26:44   | 16:46:59 | 00:20:16 | 100     |
| 1       | 684562  | 658173   | 26-Feb | 16:24:45   | 16:49:11 | 00:24:27 | 100     |
| 1       | 684562  | 658173   | 27-Feb | 16:23:10   | 16:50:44 | 00:27:34 | 100     |
| 1       | 684562  | 658173   | 28-Feb | 16:21:53   | 16:51:54 | 00:30:01 | 100     |
| 1       | 684562  | 658173   | 29-Feb | 16:20:49   | 16:52:45 | 00:31:56 | 100     |
| 1       | 684562  | 658173   | 01-Mar | 16:19:56   | 16:53:23 | 00:33:27 | 100     |
| 1       | 684562  | 658173   | 02-Mar | 16:19:14   | 16:53:49 | 00:34:35 | 100     |
| 1       | 684562  | 658173   | 03-Mar | 16:18:40   | 16:54:04 | 00:35:24 | 100     |
| 1       | 684562  | 658173   | 04-Mar | 16:18:14   | 16:54:09 | 00:35:54 | 100     |
| 1       | 684562  | 658173   | 05-Mar | 16:17:57   | 16:54:04 | 00:36:07 | 100     |
| 1       | 684562  | 658173   | 06-Mar | 16:17:48   | 16:53:51 | 00:36:02 | 100     |
| 1       | 684562  | 658173   | 07-Mar | 16:17:48   | 16:53:28 | 00:35:40 | 100     |
| 1       | 684562  | 658173   | 08-Mar | 16:17:56   | 16:52:56 | 00:34:59 | 100     |
| 1       | 684562  | 658173   | 09-Mar | 16:18:15   | 16:52:13 | 00:33:59 | 100     |
| 1       | 684562  | 658173   | 10-Mar | 16:18:43   | 16:51:23 | 00:32:40 | 100     |
| 1       | 684562  | 658173   | 11-Mar | 16:19:25   | 16:50:22 | 00:30:57 | 100     |
| 1       | 684562  | 658173   | 12-Mar | 16:20:22   | 16:49:08 | 00:28:46 | 100     |
| 1       | 684562  | 658173   | 13-Mar | 16:21:40   | 16:47:41 | 00:26:01 | 100     |
| 1       | 684562  | 658173   | 14-Mar | 16:23:10   | 16:45:54 | 00:22:44 | 100     |
| 1       | 684562  | 658173   | 15-Mar | 16:24:53   | 16:43:38 | 00:18:45 | 100     |
| 1       | 684562  | 658173   | 16-Mar | 16:27:30   | 16:40:26 | 00:12:55 | 61.44   |
| 1       | 684562  | 658173   | 25-Sep | 16:12:20   | 16:21:41 | 00:09:21 | 31.29   |
| 1       | 684562  | 658173   | 26-Sep | 16:08:20   | 16:24:59 | 00:16:39 | 100     |
| 1       | 684562  | 658173   | 27-Sep | 16:05:44   | 16:26:54 | 00:21:10 | 100     |
| 1       | 684562  | 658173   | 28-Sep | 16:03:42   | 16:28:14 | 00:24:31 | 100     |
| 1       | 684562  | 658173   | 29-Sep | 16:01:37   | 16:29:11 | 00:27:35 | 100     |
| 1       | 684562  | 658173   | 30-Sep | 15:59:55   | 16:29:54 | 00:29:59 | 100     |
| 1       | 684562  | 658173   | 01-Oct | 15:58:32   | 16:30:25 | 00:31:53 | 100     |

|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 1 | 684562 | 658173 | 02-Oct | 15:57:23 | 16:30:44 | 00:33:22 | 100   |
| 1 | 684562 | 658173 | 03-Oct | 15:56:25 | 16:30:56 | 00:34:31 | 100   |
| 1 | 684562 | 658173 | 04-Oct | 15:55:39 | 16:30:59 | 00:35:21 | 100   |
| 1 | 684562 | 658173 | 05-Oct | 15:55:02 | 16:30:54 | 00:35:53 | 100   |
| 1 | 684562 | 658173 | 06-Oct | 15:54:34 | 16:30:41 | 00:36:07 | 100   |
| 1 | 684562 | 658173 | 07-Oct | 15:54:15 | 16:30:19 | 00:36:05 | 100   |
| 1 | 684562 | 658173 | 08-Oct | 15:54:05 | 16:29:50 | 00:35:45 | 100   |
| 1 | 684562 | 658173 | 09-Oct | 15:54:03 | 16:29:12 | 00:35:08 | 100   |
| 1 | 684562 | 658173 | 10-Oct | 15:54:12 | 16:28:25 | 00:34:13 | 100   |
| 1 | 684562 | 658173 | 11-Oct | 15:54:30 | 16:27:28 | 00:32:58 | 100   |
| 1 | 684562 | 658173 | 12-Oct | 15:54:59 | 16:26:20 | 00:31:21 | 100   |
| 1 | 684562 | 658173 | 13-Oct | 15:55:41 | 16:24:58 | 00:29:18 | 100   |
| 1 | 684562 | 658173 | 14-Oct | 15:56:37 | 16:23:19 | 00:26:42 | 100   |
| 1 | 684562 | 658173 | 15-Oct | 15:57:54 | 16:21:15 | 00:23:21 | 100   |
| 1 | 684562 | 658173 | 16-Oct | 15:59:38 | 16:18:26 | 00:18:47 | 100   |
| 1 | 684562 | 658173 | 17-Oct | 16:02:17 | 16:14:57 | 00:12:41 | 57.27 |
| 4 | 684623 | 657742 | 28-Jan | 15:25:55 | 15:30:49 | 00:04:54 | 9.47  |
| 4 | 684623 | 657742 | 29-Jan | 15:22:31 | 15:34:36 | 00:12:04 | 60.06 |
| 4 | 684623 | 657742 | 30-Jan | 15:20:42 | 15:37:40 | 00:16:59 | 100   |
| 4 | 684623 | 657742 | 31-Jan | 15:19:22 | 15:39:47 | 00:20:25 | 100   |
| 4 | 684623 | 657742 | 01-Feb | 15:18:21 | 15:41:23 | 00:23:02 | 100   |
| 4 | 684623 | 657742 | 02-Feb | 15:17:32 | 15:42:40 | 00:25:08 | 100   |
| 4 | 684623 | 657742 | 03-Feb | 15:16:54 | 15:43:43 | 00:26:49 | 100   |
| 4 | 684623 | 657742 | 04-Feb | 15:16:23 | 15:44:34 | 00:28:11 | 100   |
| 4 | 684623 | 657742 | 05-Feb | 15:15:59 | 15:45:15 | 00:29:16 | 100   |
| 4 | 684623 | 657742 | 06-Feb | 15:15:43 | 15:45:47 | 00:30:04 | 100   |
| 4 | 684623 | 657742 | 07-Feb | 15:15:33 | 15:46:11 | 00:30:38 | 100   |
| 4 | 684623 | 657742 | 08-Feb | 15:15:29 | 15:46:26 | 00:30:57 | 100   |
| 4 | 684623 | 657742 | 09-Feb | 15:15:31 | 15:46:33 | 00:31:01 | 100   |
| 4 | 684623 | 657742 | 10-Feb | 15:15:41 | 15:46:31 | 00:30:51 | 100   |
| 4 | 684623 | 657742 | 11-Feb | 15:15:57 | 15:46:21 | 00:30:24 | 100   |
| 4 | 684623 | 657742 | 12-Feb | 15:16:21 | 15:46:02 | 00:29:41 | 100   |
| 4 | 684623 | 657742 | 13-Feb | 15:16:54 | 15:45:33 | 00:28:40 | 100   |
| 4 | 684623 | 657742 | 14-Feb | 15:17:37 | 15:44:54 | 00:27:17 | 100   |
| 4 | 684623 | 657742 | 15-Feb | 15:18:33 | 15:44:04 | 00:25:31 | 100   |
| 4 | 684623 | 657742 | 16-Feb | 15:19:47 | 15:42:59 | 00:23:12 | 100   |
| 4 | 684623 | 657742 | 17-Feb | 15:21:25 | 15:41:34 | 00:20:10 | 100   |
| 4 | 684623 | 657742 | 18-Feb | 15:23:04 | 15:39:39 | 00:16:36 | 100   |
| 4 | 684623 | 657742 | 19-Feb | 15:25:34 | 15:36:43 | 00:11:09 | 52.49 |
| 4 | 684623 | 657742 | 22-Oct | 14:55:46 | 15:07:43 | 00:11:58 | 59.82 |
| 4 | 684623 | 657742 | 23-Oct | 14:53:12 | 15:10:13 | 00:17:01 | 100   |
| 4 | 684623 | 657742 | 24-Oct | 14:51:24 | 15:11:51 | 00:20:27 | 100   |
| 4 | 684623 | 657742 | 25-Oct | 14:49:38 | 15:13:02 | 00:23:24 | 100   |
| 4 | 684623 | 657742 | 26-Oct | 14:48:18 | 15:13:56 | 00:25:38 | 100   |
| 4 | 684623 | 657742 | 27-Oct | 14:47:15 | 15:14:36 | 00:27:21 | 100   |
| 4 | 684623 | 657742 | 28-Oct | 14:46:26 | 15:15:09 | 00:28:43 | 100   |
| 4 | 684623 | 657742 | 29-Oct | 14:45:49 | 15:15:32 | 00:29:43 | 100   |
| 4 | 684623 | 657742 | 30-Oct | 14:45:22 | 15:15:47 | 00:30:25 | 100   |
| 4 | 684623 | 657742 | 31-Oct | 14:45:04 | 15:15:55 | 00:30:51 | 100   |

|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 4 | 684623 | 657742 | 01-Nov | 14:44:55 | 15:15:56 | 00:31:02 | 100   |
| 4 | 684623 | 657742 | 02-Nov | 14:44:53 | 15:15:51 | 00:30:58 | 100   |
| 4 | 684623 | 657742 | 03-Nov | 14:44:59 | 15:15:39 | 00:30:39 | 100   |
| 4 | 684623 | 657742 | 04-Nov | 14:45:14 | 15:15:21 | 00:30:07 | 100   |
| 4 | 684623 | 657742 | 05-Nov | 14:45:36 | 15:14:55 | 00:29:20 | 100   |
| 4 | 684623 | 657742 | 06-Nov | 14:46:06 | 15:14:23 | 00:28:17 | 100   |
| 4 | 684623 | 657742 | 07-Nov | 14:46:45 | 15:13:43 | 00:26:57 | 100   |
| 4 | 684623 | 657742 | 08-Nov | 14:47:34 | 15:12:53 | 00:25:19 | 100   |
| 4 | 684623 | 657742 | 09-Nov | 14:48:34 | 15:11:51 | 00:23:17 | 100   |
| 4 | 684623 | 657742 | 10-Nov | 14:49:47 | 15:10:33 | 00:20:45 | 100   |
| 4 | 684623 | 657742 | 11-Nov | 14:51:19 | 15:08:48 | 00:17:29 | 100   |
| 4 | 684623 | 657742 | 12-Nov | 14:53:21 | 15:06:04 | 00:12:44 | 66.82 |
| 4 | 684623 | 657742 | 13-Nov | 14:56:35 | 15:03:06 | 00:06:31 | 16.81 |
| 6 | 685208 | 657687 | 01-Jan | 13:07:08 | 13:45:45 | 00:38:37 | 100   |
| 6 | 685208 | 657687 | 02-Jan | 13:07:32 | 13:46:18 | 00:38:45 | 100   |
| 6 | 685208 | 657687 | 03-Jan | 13:07:57 | 13:46:50 | 00:38:52 | 100   |
| 6 | 685208 | 657687 | 04-Jan | 13:08:22 | 13:47:21 | 00:38:59 | 100   |
| 6 | 685208 | 657687 | 05-Jan | 13:08:47 | 13:47:52 | 00:39:05 | 100   |
| 6 | 685208 | 657687 | 06-Jan | 13:09:12 | 13:48:21 | 00:39:10 | 100   |
| 6 | 685208 | 657687 | 07-Jan | 13:09:37 | 13:48:49 | 00:39:13 | 100   |
| 6 | 685208 | 657687 | 08-Jan | 13:10:03 | 13:49:16 | 00:39:14 | 100   |
| 6 | 685208 | 657687 | 09-Jan | 13:10:29 | 13:49:41 | 00:39:12 | 100   |
| 6 | 685208 | 657687 | 10-Jan | 13:10:56 | 13:50:05 | 00:39:09 | 100   |
| 6 | 685208 | 657687 | 11-Jan | 13:11:24 | 13:50:26 | 00:39:02 | 100   |
| 6 | 685208 | 657687 | 12-Jan | 13:11:54 | 13:50:45 | 00:38:52 | 100   |
| 6 | 685208 | 657687 | 13-Jan | 13:12:24 | 13:51:02 | 00:38:38 | 100   |
| 6 | 685208 | 657687 | 14-Jan | 13:12:57 | 13:51:16 | 00:38:19 | 100   |
| 6 | 685208 | 657687 | 15-Jan | 13:13:31 | 13:51:28 | 00:37:57 | 100   |
| 6 | 685208 | 657687 | 16-Jan | 13:14:07 | 13:51:37 | 00:37:30 | 100   |
| 6 | 685208 | 657687 | 17-Jan | 13:14:45 | 13:51:42 | 00:36:57 | 100   |
| 6 | 685208 | 657687 | 18-Jan | 13:15:27 | 13:51:43 | 00:36:16 | 100   |
| 6 | 685208 | 657687 | 19-Jan | 13:16:12 | 13:51:41 | 00:35:29 | 100   |
| 6 | 685208 | 657687 | 20-Jan | 13:17:00 | 13:51:33 | 00:34:32 | 100   |
| 6 | 685208 | 657687 | 21-Jan | 13:17:54 | 13:51:19 | 00:33:26 | 100   |
| 6 | 685208 | 657687 | 22-Jan | 13:18:52 | 13:51:00 | 00:32:08 | 100   |
| 6 | 685208 | 657687 | 23-Jan | 13:19:58 | 13:50:33 | 00:30:36 | 100   |
| 6 | 685208 | 657687 | 24-Jan | 13:21:12 | 13:49:58 | 00:28:47 | 100   |
| 6 | 685208 | 657687 | 25-Jan | 13:22:37 | 13:49:13 | 00:26:36 | 100   |
| 6 | 685208 | 657687 | 26-Jan | 13:24:05 | 13:48:15 | 00:24:10 | 100   |
| 6 | 685208 | 657687 | 27-Jan | 13:25:42 | 13:46:58 | 00:21:16 | 100   |
| 6 | 685208 | 657687 | 28-Jan | 13:27:42 | 13:45:13 | 00:17:31 | 91.45 |
| 6 | 685208 | 657687 | 29-Jan | 13:30:30 | 13:42:26 | 00:11:56 | 40.9  |
| 6 | 685208 | 657687 | 12-Nov | 13:02:46 | 13:12:16 | 00:09:30 | 26.2  |
| 6 | 685208 | 657687 | 13-Nov | 12:59:53 | 13:16:02 | 00:16:09 | 76.33 |
| 6 | 685208 | 657687 | 14-Nov | 12:58:04 | 13:18:20 | 00:20:15 | 100   |
| 6 | 685208 | 657687 | 15-Nov | 12:56:45 | 13:20:05 | 00:23:20 | 100   |
| 6 | 685208 | 657687 | 16-Nov | 12:55:44 | 13:21:32 | 00:25:49 | 100   |
| 6 | 685208 | 657687 | 17-Nov | 12:54:41 | 13:22:47 | 00:28:06 | 100   |
| 6 | 685208 | 657687 | 18-Nov | 12:53:51 | 13:23:52 | 00:30:01 | 100   |



|   |        |        |        |          |          |          |     |
|---|--------|--------|--------|----------|----------|----------|-----|
| 6 | 685208 | 657687 | 19-Nov | 12:53:13 | 13:24:51 | 00:31:38 | 100 |
| 6 | 685208 | 657687 | 20-Nov | 12:52:43 | 13:25:43 | 00:32:59 | 100 |
| 6 | 685208 | 657687 | 21-Nov | 12:52:21 | 13:26:30 | 00:34:10 | 100 |
| 6 | 685208 | 657687 | 22-Nov | 12:52:05 | 13:27:14 | 00:35:09 | 100 |
| 6 | 685208 | 657687 | 23-Nov | 12:51:54 | 13:27:54 | 00:35:59 | 100 |
| 6 | 685208 | 657687 | 24-Nov | 12:51:48 | 13:28:31 | 00:36:42 | 100 |
| 6 | 685208 | 657687 | 25-Nov | 12:51:47 | 13:29:05 | 00:37:18 | 100 |
| 6 | 685208 | 657687 | 26-Nov | 12:51:50 | 13:29:37 | 00:37:47 | 100 |
| 6 | 685208 | 657687 | 27-Nov | 12:51:56 | 13:30:07 | 00:38:11 | 100 |
| 6 | 685208 | 657687 | 28-Nov | 12:52:05 | 13:30:36 | 00:38:31 | 100 |
| 6 | 685208 | 657687 | 29-Nov | 12:52:18 | 13:31:04 | 00:38:47 | 100 |
| 6 | 685208 | 657687 | 30-Nov | 12:52:33 | 13:31:31 | 00:38:58 | 100 |
| 6 | 685208 | 657687 | 01-Dec | 12:52:51 | 13:31:57 | 00:39:06 | 100 |
| 6 | 685208 | 657687 | 02-Dec | 12:53:10 | 13:32:22 | 00:39:11 | 100 |
| 6 | 685208 | 657687 | 03-Dec | 12:53:32 | 13:32:46 | 00:39:14 | 100 |
| 6 | 685208 | 657687 | 04-Dec | 12:53:56 | 13:33:09 | 00:39:13 | 100 |
| 6 | 685208 | 657687 | 05-Dec | 12:54:21 | 13:33:32 | 00:39:11 | 100 |
| 6 | 685208 | 657687 | 06-Dec | 12:54:48 | 13:33:55 | 00:39:07 | 100 |
| 6 | 685208 | 657687 | 07-Dec | 12:55:16 | 13:34:18 | 00:39:02 | 100 |
| 6 | 685208 | 657687 | 08-Dec | 12:55:45 | 13:34:41 | 00:38:56 | 100 |
| 6 | 685208 | 657687 | 09-Dec | 12:56:15 | 13:35:03 | 00:38:49 | 100 |
| 6 | 685208 | 657687 | 10-Dec | 12:56:45 | 13:35:26 | 00:38:41 | 100 |
| 6 | 685208 | 657687 | 11-Dec | 12:57:17 | 13:35:50 | 00:38:33 | 100 |
| 6 | 685208 | 657687 | 12-Dec | 12:57:48 | 13:36:13 | 00:38:25 | 100 |
| 6 | 685208 | 657687 | 13-Dec | 12:58:20 | 13:36:38 | 00:38:17 | 100 |
| 6 | 685208 | 657687 | 14-Dec | 12:58:52 | 13:37:02 | 00:38:10 | 100 |
| 6 | 685208 | 657687 | 15-Dec | 12:59:24 | 13:37:28 | 00:38:03 | 100 |
| 6 | 685208 | 657687 | 16-Dec | 12:59:56 | 13:37:54 | 00:37:57 | 100 |
| 6 | 685208 | 657687 | 17-Dec | 13:00:28 | 13:38:21 | 00:37:52 | 100 |
| 6 | 685208 | 657687 | 18-Dec | 13:00:59 | 13:38:48 | 00:37:48 | 100 |
| 6 | 685208 | 657687 | 19-Dec | 13:01:31 | 13:39:16 | 00:37:45 | 100 |
| 6 | 685208 | 657687 | 20-Dec | 13:02:01 | 13:39:45 | 00:37:44 | 100 |
| 6 | 685208 | 657687 | 21-Dec | 13:02:31 | 13:40:15 | 00:37:43 | 100 |
| 6 | 685208 | 657687 | 22-Dec | 13:03:01 | 13:40:45 | 00:37:44 | 100 |
| 6 | 685208 | 657687 | 23-Dec | 13:03:30 | 13:41:16 | 00:37:46 | 100 |
| 6 | 685208 | 657687 | 24-Dec | 13:03:58 | 13:41:47 | 00:37:49 | 100 |
| 6 | 685208 | 657687 | 25-Dec | 13:04:26 | 13:42:20 | 00:37:54 | 100 |
| 6 | 685208 | 657687 | 26-Dec | 13:04:53 | 13:42:52 | 00:37:59 | 100 |
| 6 | 685208 | 657687 | 27-Dec | 13:05:20 | 13:43:25 | 00:38:05 | 100 |
| 6 | 685208 | 657687 | 28-Dec | 13:05:46 | 13:43:58 | 00:38:12 | 100 |
| 6 | 685208 | 657687 | 29-Dec | 13:06:11 | 13:44:31 | 00:38:19 | 100 |
| 6 | 685208 | 657687 | 30-Dec | 13:06:37 | 13:45:04 | 00:38:27 | 100 |
| 6 | 685208 | 657687 | 31-Dec | 13:07:02 | 13:45:37 | 00:38:35 | 100 |

House Easting Northing  
26 685252 659036

| Turbine | Easting | Northing | Date   | Start Time | End Time | Duration | % Cover |
|---------|---------|----------|--------|------------|----------|----------|---------|
| 1       | 684562  | 658173   | 11-Jan | 15:14:55   | 15:19:33 | 00:04:37 | 7.37    |

|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 1 | 684562 | 658173 | 12-Jan | 15:12:29 | 15:22:48 | 00:10:19 | 37.65 |
| 1 | 684562 | 658173 | 13-Jan | 15:11:07 | 15:24:56 | 00:13:49 | 69.25 |
| 1 | 684562 | 658173 | 14-Jan | 15:10:07 | 15:26:41 | 00:16:34 | 100   |
| 1 | 684562 | 658173 | 15-Jan | 15:09:20 | 15:28:20 | 00:18:59 | 100   |
| 1 | 684562 | 658173 | 16-Jan | 15:08:42 | 15:30:27 | 00:21:46 | 100   |
| 1 | 684562 | 658173 | 17-Jan | 15:08:10 | 15:32:12 | 00:24:02 | 100   |
| 1 | 684562 | 658173 | 18-Jan | 15:07:43 | 15:33:42 | 00:25:59 | 100   |
| 1 | 684562 | 658173 | 19-Jan | 15:07:20 | 15:35:01 | 00:27:41 | 100   |
| 1 | 684562 | 658173 | 20-Jan | 15:07:02 | 15:36:13 | 00:29:11 | 100   |
| 1 | 684562 | 658173 | 21-Jan | 15:06:47 | 15:37:16 | 00:30:29 | 100   |
| 1 | 684562 | 658173 | 22-Jan | 15:06:36 | 15:38:14 | 00:31:38 | 100   |
| 1 | 684562 | 658173 | 23-Jan | 15:06:28 | 15:39:06 | 00:32:38 | 100   |
| 1 | 684562 | 658173 | 24-Jan | 15:06:23 | 15:39:51 | 00:33:28 | 100   |
| 1 | 684562 | 658173 | 25-Jan | 15:06:22 | 15:40:32 | 00:34:10 | 100   |
| 1 | 684562 | 658173 | 26-Jan | 15:06:24 | 15:41:07 | 00:34:43 | 100   |
| 1 | 684562 | 658173 | 27-Jan | 15:06:29 | 15:41:36 | 00:35:07 | 100   |
| 1 | 684562 | 658173 | 28-Jan | 15:06:38 | 15:42:01 | 00:35:23 | 100   |
| 1 | 684562 | 658173 | 29-Jan | 15:06:51 | 15:42:19 | 00:35:29 | 100   |
| 1 | 684562 | 658173 | 30-Jan | 15:07:07 | 15:42:32 | 00:35:25 | 100   |
| 1 | 684562 | 658173 | 31-Jan | 15:07:28 | 15:42:39 | 00:35:11 | 100   |
| 1 | 684562 | 658173 | 01-Feb | 15:07:54 | 15:42:40 | 00:34:46 | 100   |
| 1 | 684562 | 658173 | 02-Feb | 15:08:25 | 15:42:34 | 00:34:09 | 100   |
| 1 | 684562 | 658173 | 03-Feb | 15:09:03 | 15:42:22 | 00:33:19 | 100   |
| 1 | 684562 | 658173 | 04-Feb | 15:09:47 | 15:42:01 | 00:32:14 | 100   |
| 1 | 684562 | 658173 | 05-Feb | 15:10:41 | 15:41:32 | 00:30:52 | 100   |
| 1 | 684562 | 658173 | 06-Feb | 15:11:45 | 15:40:56 | 00:29:11 | 100   |
| 1 | 684562 | 658173 | 07-Feb | 15:13:00 | 15:40:10 | 00:27:09 | 100   |
| 1 | 684562 | 658173 | 08-Feb | 15:14:09 | 15:39:09 | 00:25:01 | 100   |
| 1 | 684562 | 658173 | 09-Feb | 15:15:34 | 15:37:52 | 00:22:18 | 100   |
| 1 | 684562 | 658173 | 10-Feb | 15:17:25 | 15:36:10 | 00:18:45 | 100   |
| 1 | 684562 | 658173 | 11-Feb | 15:20:09 | 15:33:45 | 00:13:35 | 47.04 |
| 1 | 684562 | 658173 | 29-Oct | 14:56:01 | 14:57:43 | 00:01:43 | 1.08  |
| 1 | 684562 | 658173 | 30-Oct | 14:49:35 | 15:03:13 | 00:13:38 | 47.07 |
| 1 | 684562 | 658173 | 31-Oct | 14:46:51 | 15:05:35 | 00:18:43 | 100   |
| 1 | 684562 | 658173 | 01-Nov | 14:45:00 | 15:07:15 | 00:22:15 | 100   |
| 1 | 684562 | 658173 | 02-Nov | 14:43:37 | 15:08:34 | 00:24:57 | 100   |
| 1 | 684562 | 658173 | 03-Nov | 14:42:31 | 15:09:36 | 00:27:05 | 100   |
| 1 | 684562 | 658173 | 04-Nov | 14:41:22 | 15:10:28 | 00:29:06 | 100   |
| 1 | 684562 | 658173 | 05-Nov | 14:40:24 | 15:11:10 | 00:30:46 | 100   |
| 1 | 684562 | 658173 | 06-Nov | 14:39:38 | 15:11:46 | 00:32:08 | 100   |
| 1 | 684562 | 658173 | 07-Nov | 14:39:03 | 15:12:17 | 00:33:14 | 100   |
| 1 | 684562 | 658173 | 08-Nov | 14:38:36 | 15:12:41 | 00:34:05 | 100   |
| 1 | 684562 | 658173 | 09-Nov | 14:38:17 | 15:13:00 | 00:34:43 | 100   |
| 1 | 684562 | 658173 | 10-Nov | 14:38:05 | 15:13:14 | 00:35:09 | 100   |
| 1 | 684562 | 658173 | 11-Nov | 14:38:00 | 15:13:24 | 00:35:24 | 100   |
| 1 | 684562 | 658173 | 12-Nov | 14:38:01 | 15:13:30 | 00:35:29 | 100   |
| 1 | 684562 | 658173 | 13-Nov | 14:38:07 | 15:13:32 | 00:35:25 | 100   |
| 1 | 684562 | 658173 | 14-Nov | 14:38:19 | 15:13:30 | 00:35:11 | 100   |
| 1 | 684562 | 658173 | 15-Nov | 14:38:36 | 15:13:24 | 00:34:48 | 100   |
| 1 | 684562 | 658173 | 16-Nov | 14:38:58 | 15:13:15 | 00:34:17 | 100   |

|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 1 | 684562 | 658173 | 17-Nov | 14:39:25 | 15:13:02 | 00:33:37 | 100   |
| 1 | 684562 | 658173 | 18-Nov | 14:39:57 | 15:12:45 | 00:32:48 | 100   |
| 1 | 684562 | 658173 | 19-Nov | 14:40:33 | 15:12:24 | 00:31:51 | 100   |
| 1 | 684562 | 658173 | 20-Nov | 14:41:15 | 15:11:59 | 00:30:45 | 100   |
| 1 | 684562 | 658173 | 21-Nov | 14:42:01 | 15:11:30 | 00:29:29 | 100   |
| 1 | 684562 | 658173 | 22-Nov | 14:42:52 | 15:10:55 | 00:28:03 | 100   |
| 1 | 684562 | 658173 | 23-Nov | 14:43:49 | 15:10:13 | 00:26:24 | 100   |
| 1 | 684562 | 658173 | 24-Nov | 14:44:51 | 15:09:23 | 00:24:32 | 100   |
| 1 | 684562 | 658173 | 25-Nov | 14:45:59 | 15:08:22 | 00:22:22 | 100   |
| 1 | 684562 | 658173 | 26-Nov | 14:47:16 | 15:07:02 | 00:19:46 | 100   |
| 1 | 684562 | 658173 | 27-Nov | 14:48:41 | 15:05:54 | 00:17:13 | 100   |
| 1 | 684562 | 658173 | 28-Nov | 14:50:19 | 15:04:56 | 00:14:37 | 77.83 |
| 1 | 684562 | 658173 | 29-Nov | 14:52:16 | 15:03:40 | 00:11:24 | 46.14 |
| 1 | 684562 | 658173 | 30-Nov | 14:54:57 | 15:01:42 | 00:06:44 | 15.75 |

House Easting Northing  
27 686201 658431

| Turbine | Easting | Northing | Date   | Start Time | End Time | Duration | % Cover |
|---------|---------|----------|--------|------------|----------|----------|---------|
| 6       | 685208  | 657687   | 11-Feb | 16:10:59   | 16:17:50 | 00:06:50 | 19.74   |
| 6       | 685208  | 657687   | 12-Feb | 16:07:36   | 16:21:13 | 00:13:37 | 82.52   |
| 6       | 685208  | 657687   | 13-Feb | 16:05:36   | 16:23:20 | 00:17:44 | 100     |
| 6       | 685208  | 657687   | 14-Feb | 16:04:08   | 16:25:44 | 00:21:36 | 100     |
| 6       | 685208  | 657687   | 15-Feb | 16:02:59   | 16:27:21 | 00:24:21 | 100     |
| 6       | 685208  | 657687   | 16-Feb | 16:02:05   | 16:28:32 | 00:26:27 | 100     |
| 6       | 685208  | 657687   | 17-Feb | 16:01:23   | 16:29:25 | 00:28:02 | 100     |
| 6       | 685208  | 657687   | 18-Feb | 16:00:51   | 16:30:04 | 00:29:13 | 100     |
| 6       | 685208  | 657687   | 19-Feb | 16:00:28   | 16:30:31 | 00:30:03 | 100     |
| 6       | 685208  | 657687   | 20-Feb | 16:00:14   | 16:30:46 | 00:30:32 | 100     |
| 6       | 685208  | 657687   | 21-Feb | 16:00:09   | 16:30:51 | 00:30:42 | 100     |
| 6       | 685208  | 657687   | 22-Feb | 16:00:12   | 16:30:46 | 00:30:34 | 100     |
| 6       | 685208  | 657687   | 23-Feb | 16:00:20   | 16:30:30 | 00:30:10 | 100     |
| 6       | 685208  | 657687   | 24-Feb | 16:00:37   | 16:30:04 | 00:29:27 | 100     |
| 6       | 685208  | 657687   | 25-Feb | 16:01:04   | 16:29:26 | 00:28:22 | 100     |
| 6       | 685208  | 657687   | 26-Feb | 16:01:45   | 16:28:36 | 00:26:51 | 100     |
| 6       | 685208  | 657687   | 27-Feb | 16:02:41   | 16:27:31 | 00:24:50 | 100     |
| 6       | 685208  | 657687   | 28-Feb | 16:04:00   | 16:26:10 | 00:22:10 | 100     |
| 6       | 685208  | 657687   | 29-Feb | 16:05:57   | 16:24:23 | 00:18:26 | 86.63   |
| 6       | 685208  | 657687   | 01-Mar | 16:09:10   | 16:21:53 | 00:12:43 | 74.18   |
| 6       | 685208  | 657687   | 02-Mar | 16:14:17   | 16:16:20 | 00:02:02 | 1.8     |
| 6       | 685208  | 657687   | 10-Oct | 15:46:16   | 15:54:03 | 00:07:47 | 26.54   |
| 6       | 685208  | 657687   | 11-Oct | 15:42:22   | 15:57:09 | 00:14:47 | 37.79   |
| 6       | 685208  | 657687   | 12-Oct | 15:39:08   | 15:58:53 | 00:19:45 | 100     |
| 6       | 685208  | 657687   | 13-Oct | 15:37:01   | 16:00:04 | 00:23:03 | 100     |
| 6       | 685208  | 657687   | 14-Oct | 15:35:26   | 16:00:54 | 00:25:28 | 100     |
| 6       | 685208  | 657687   | 15-Oct | 15:34:12   | 16:01:31 | 00:27:19 | 100     |
| 6       | 685208  | 657687   | 16-Oct | 15:33:14   | 16:01:55 | 00:28:42 | 100     |
| 6       | 685208  | 657687   | 17-Oct | 15:32:29   | 16:02:09 | 00:29:40 | 100     |
| 6       | 685208  | 657687   | 18-Oct | 15:31:55   | 16:02:13 | 00:30:18 | 100     |

|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 6 | 685208 | 657687 | 19-Oct | 15:31:30 | 16:02:07 | 00:30:38 | 100   |
| 6 | 685208 | 657687 | 20-Oct | 15:31:11 | 16:01:53 | 00:30:43 | 100   |
| 6 | 685208 | 657687 | 21-Oct | 15:31:02 | 16:01:30 | 00:30:29 | 100   |
| 6 | 685208 | 657687 | 22-Oct | 15:31:03 | 16:00:59 | 00:29:56 | 100   |
| 6 | 685208 | 657687 | 23-Oct | 15:31:13 | 16:00:17 | 00:29:04 | 100   |
| 6 | 685208 | 657687 | 24-Oct | 15:31:34 | 15:59:25 | 00:27:51 | 100   |
| 6 | 685208 | 657687 | 25-Oct | 15:32:07 | 15:58:19 | 00:26:13 | 100   |
| 6 | 685208 | 657687 | 26-Oct | 15:32:52 | 15:56:57 | 00:24:05 | 100   |
| 6 | 685208 | 657687 | 27-Oct | 15:33:54 | 15:55:10 | 00:21:16 | 100   |
| 6 | 685208 | 657687 | 28-Oct | 15:35:17 | 15:52:36 | 00:17:19 | 100   |
| 6 | 685208 | 657687 | 29-Oct | 15:37:14 | 15:50:30 | 00:13:15 | 77.34 |
| 6 | 685208 | 657687 | 30-Oct | 15:40:44 | 15:46:53 | 00:06:08 | 15.75 |

House Easting Northing  
28 685310 658892

| Turbine | Easting | Northing | Date   | Start Time | End Time | Duration | % Cover |
|---------|---------|----------|--------|------------|----------|----------|---------|
| 1       | 684562  | 658173   | 30-Jan | 15:44:58   | 15:52:39 | 00:07:40 | 20.43   |
| 1       | 684562  | 658173   | 31-Jan | 15:41:52   | 15:56:06 | 00:14:14 | 73.02   |
| 1       | 684562  | 658173   | 01-Feb | 15:39:57   | 15:58:19 | 00:18:22 | 100     |
| 1       | 684562  | 658173   | 02-Feb | 15:38:31   | 16:00:07 | 00:21:36 | 100     |
| 1       | 684562  | 658173   | 03-Feb | 15:37:23   | 16:02:00 | 00:24:37 | 100     |
| 1       | 684562  | 658173   | 04-Feb | 15:36:27   | 16:03:30 | 00:27:03 | 100     |
| 1       | 684562  | 658173   | 05-Feb | 15:35:41   | 16:04:43 | 00:29:02 | 100     |
| 1       | 684562  | 658173   | 06-Feb | 15:35:03   | 16:05:44 | 00:30:41 | 100     |
| 1       | 684562  | 658173   | 07-Feb | 15:34:33   | 16:06:34 | 00:32:01 | 100     |
| 1       | 684562  | 658173   | 08-Feb | 15:34:09   | 16:07:15 | 00:33:06 | 100     |
| 1       | 684562  | 658173   | 09-Feb | 15:33:51   | 16:07:47 | 00:33:56 | 100     |
| 1       | 684562  | 658173   | 10-Feb | 15:33:39   | 16:08:11 | 00:34:32 | 100     |
| 1       | 684562  | 658173   | 11-Feb | 15:33:32   | 16:08:27 | 00:34:54 | 100     |
| 1       | 684562  | 658173   | 12-Feb | 15:33:32   | 16:08:35 | 00:35:03 | 100     |
| 1       | 684562  | 658173   | 13-Feb | 15:33:38   | 16:08:36 | 00:34:58 | 100     |
| 1       | 684562  | 658173   | 14-Feb | 15:33:50   | 16:08:29 | 00:34:39 | 100     |
| 1       | 684562  | 658173   | 15-Feb | 15:34:10   | 16:08:14 | 00:34:04 | 100     |
| 1       | 684562  | 658173   | 16-Feb | 15:34:37   | 16:07:50 | 00:33:14 | 100     |
| 1       | 684562  | 658173   | 17-Feb | 15:35:13   | 16:07:18 | 00:32:05 | 100     |
| 1       | 684562  | 658173   | 18-Feb | 15:35:51   | 16:06:35 | 00:30:44 | 100     |
| 1       | 684562  | 658173   | 19-Feb | 15:36:34   | 16:05:42 | 00:29:08 | 100     |
| 1       | 684562  | 658173   | 20-Feb | 15:37:29   | 16:04:38 | 00:27:08 | 100     |
| 1       | 684562  | 658173   | 21-Feb | 15:38:41   | 16:03:17 | 00:24:36 | 100     |
| 1       | 684562  | 658173   | 22-Feb | 15:40:15   | 16:01:35 | 00:21:20 | 100     |
| 1       | 684562  | 658173   | 23-Feb | 15:42:27   | 15:59:18 | 00:16:52 | 86.95   |
| 1       | 684562  | 658173   | 24-Feb | 15:46:08   | 15:55:47 | 00:09:39 | 34.46   |
| 1       | 684562  | 658173   | 17-Oct | 15:17:13   | 15:28:42 | 00:11:29 | 31.53   |
| 1       | 684562  | 658173   | 18-Oct | 15:13:36   | 15:31:28 | 00:17:53 | 99.83   |
| 1       | 684562  | 658173   | 19-Oct | 15:11:16   | 15:33:16 | 00:22:00 | 100     |
| 1       | 684562  | 658173   | 20-Oct | 15:09:31   | 15:34:36 | 00:25:05 | 100     |
| 1       | 684562  | 658173   | 21-Oct | 15:08:07   | 15:35:36 | 00:27:29 | 100     |
| 1       | 684562  | 658173   | 22-Oct | 15:06:59   | 15:36:23 | 00:29:23 | 100     |

|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 1 | 684562 | 658173 | 23-Oct | 15:06:05 | 15:37:01 | 00:30:56 | 100   |
| 1 | 684562 | 658173 | 24-Oct | 15:05:16 | 15:37:30 | 00:32:14 | 100   |
| 1 | 684562 | 658173 | 25-Oct | 15:04:30 | 15:37:50 | 00:33:20 | 100   |
| 1 | 684562 | 658173 | 26-Oct | 15:03:55 | 15:38:04 | 00:34:08 | 100   |
| 1 | 684562 | 658173 | 27-Oct | 15:03:29 | 15:38:10 | 00:34:41 | 100   |
| 1 | 684562 | 658173 | 28-Oct | 15:03:11 | 15:38:10 | 00:34:59 | 100   |
| 1 | 684562 | 658173 | 29-Oct | 15:03:00 | 15:38:04 | 00:35:04 | 100   |
| 1 | 684562 | 658173 | 30-Oct | 15:02:57 | 15:37:52 | 00:34:54 | 100   |
| 1 | 684562 | 658173 | 31-Oct | 15:03:02 | 15:37:34 | 00:34:32 | 100   |
| 1 | 684562 | 658173 | 01-Nov | 15:03:13 | 15:37:10 | 00:33:56 | 100   |
| 1 | 684562 | 658173 | 02-Nov | 15:03:32 | 15:36:39 | 00:33:07 | 100   |
| 1 | 684562 | 658173 | 03-Nov | 15:03:59 | 15:36:02 | 00:32:03 | 100   |
| 1 | 684562 | 658173 | 04-Nov | 15:04:34 | 15:35:17 | 00:30:43 | 100   |
| 1 | 684562 | 658173 | 05-Nov | 15:05:17 | 15:34:23 | 00:29:06 | 100   |
| 1 | 684562 | 658173 | 06-Nov | 15:06:10 | 15:33:19 | 00:27:09 | 100   |
| 1 | 684562 | 658173 | 07-Nov | 15:07:14 | 15:32:01 | 00:24:47 | 100   |
| 1 | 684562 | 658173 | 08-Nov | 15:08:32 | 15:30:22 | 00:21:50 | 100   |
| 1 | 684562 | 658173 | 09-Nov | 15:10:08 | 15:28:47 | 00:18:39 | 100   |
| 1 | 684562 | 658173 | 10-Nov | 15:12:12 | 15:26:53 | 00:14:40 | 77.5  |
| 1 | 684562 | 658173 | 11-Nov | 15:15:21 | 15:23:57 | 00:08:35 | 25.59 |
|   |        |        |        |          |          |          |       |
| 4 | 684623 | 657742 | 01-Jan | 14:37:25 | 14:48:19 | 00:10:54 | 50.09 |
| 4 | 684623 | 657742 | 02-Jan | 14:37:07 | 14:49:34 | 00:12:27 | 66.32 |
| 4 | 684623 | 657742 | 03-Jan | 14:36:52 | 14:50:45 | 00:13:53 | 83.99 |
| 4 | 684623 | 657742 | 04-Jan | 14:36:39 | 14:51:54 | 00:15:15 | 100   |
| 4 | 684623 | 657742 | 05-Jan | 14:36:28 | 14:53:05 | 00:16:37 | 100   |
| 4 | 684623 | 657742 | 06-Jan | 14:36:19 | 14:54:19 | 00:18:00 | 100   |
| 4 | 684623 | 657742 | 07-Jan | 14:36:11 | 14:55:29 | 00:19:18 | 100   |
| 4 | 684623 | 657742 | 08-Jan | 14:36:04 | 14:56:35 | 00:20:30 | 100   |
| 4 | 684623 | 657742 | 09-Jan | 14:35:59 | 14:57:37 | 00:21:38 | 100   |
| 4 | 684623 | 657742 | 10-Jan | 14:35:56 | 14:58:36 | 00:22:40 | 100   |
| 4 | 684623 | 657742 | 11-Jan | 14:35:55 | 14:59:32 | 00:23:38 | 100   |
| 4 | 684623 | 657742 | 12-Jan | 14:35:54 | 15:00:25 | 00:24:31 | 100   |
| 4 | 684623 | 657742 | 13-Jan | 14:35:56 | 15:01:15 | 00:25:19 | 100   |
| 4 | 684623 | 657742 | 14-Jan | 14:35:59 | 15:02:01 | 00:26:01 | 100   |
| 4 | 684623 | 657742 | 15-Jan | 14:36:05 | 15:02:44 | 00:26:39 | 100   |
| 4 | 684623 | 657742 | 16-Jan | 14:36:12 | 15:03:23 | 00:27:11 | 100   |
| 4 | 684623 | 657742 | 17-Jan | 14:36:22 | 15:03:58 | 00:27:37 | 100   |
| 4 | 684623 | 657742 | 18-Jan | 14:36:33 | 15:04:30 | 00:27:57 | 100   |
| 4 | 684623 | 657742 | 19-Jan | 14:36:48 | 15:04:58 | 00:28:10 | 100   |
| 4 | 684623 | 657742 | 20-Jan | 14:37:05 | 15:05:21 | 00:28:16 | 100   |
| 4 | 684623 | 657742 | 21-Jan | 14:37:25 | 15:05:40 | 00:28:15 | 100   |
| 4 | 684623 | 657742 | 22-Jan | 14:37:49 | 15:05:55 | 00:28:06 | 100   |
| 4 | 684623 | 657742 | 23-Jan | 14:38:16 | 15:06:04 | 00:27:47 | 100   |
| 4 | 684623 | 657742 | 24-Jan | 14:38:45 | 15:06:07 | 00:27:22 | 100   |
| 4 | 684623 | 657742 | 25-Jan | 14:39:16 | 15:06:05 | 00:26:49 | 100   |
| 4 | 684623 | 657742 | 26-Jan | 14:39:52 | 15:05:55 | 00:26:03 | 100   |
| 4 | 684623 | 657742 | 27-Jan | 14:40:34 | 15:05:40 | 00:25:06 | 100   |
| 4 | 684623 | 657742 | 28-Jan | 14:41:23 | 15:05:17 | 00:23:54 | 100   |
| 4 | 684623 | 657742 | 29-Jan | 14:42:21 | 15:04:43 | 00:22:22 | 100   |

|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 4 | 684623 | 657742 | 30-Jan | 14:43:30 | 15:03:56 | 00:20:26 | 100   |
| 4 | 684623 | 657742 | 31-Jan | 14:44:57 | 15:02:53 | 00:17:56 | 100   |
| 4 | 684623 | 657742 | 01-Feb | 14:46:50 | 15:01:24 | 00:14:34 | 78.34 |
| 4 | 684623 | 657742 | 02-Feb | 14:49:48 | 14:59:05 | 00:09:17 | 23.8  |
| 4 | 684623 | 657742 | 08-Nov | 14:20:32 | 14:28:45 | 00:08:13 | 29.68 |
| 4 | 684623 | 657742 | 09-Nov | 14:17:31 | 14:31:29 | 00:13:58 | 69.9  |
| 4 | 684623 | 657742 | 10-Nov | 14:15:47 | 14:33:16 | 00:17:29 | 100   |
| 4 | 684623 | 657742 | 11-Nov | 14:14:35 | 14:34:38 | 00:20:04 | 100   |
| 4 | 684623 | 657742 | 12-Nov | 14:13:41 | 14:35:44 | 00:22:03 | 100   |
| 4 | 684623 | 657742 | 13-Nov | 14:13:01 | 14:36:39 | 00:23:38 | 100   |
| 4 | 684623 | 657742 | 14-Nov | 14:12:32 | 14:37:26 | 00:24:54 | 100   |
| 4 | 684623 | 657742 | 15-Nov | 14:12:12 | 14:38:05 | 00:25:53 | 100   |
| 4 | 684623 | 657742 | 16-Nov | 14:11:59 | 14:38:40 | 00:26:40 | 100   |
| 4 | 684623 | 657742 | 17-Nov | 14:11:54 | 14:39:10 | 00:27:16 | 100   |
| 4 | 684623 | 657742 | 18-Nov | 14:11:53 | 14:39:36 | 00:27:42 | 100   |
| 4 | 684623 | 657742 | 19-Nov | 14:11:55 | 14:39:57 | 00:28:03 | 100   |
| 4 | 684623 | 657742 | 20-Nov | 14:12:01 | 14:40:15 | 00:28:14 | 100   |
| 4 | 684623 | 657742 | 21-Nov | 14:12:13 | 14:40:30 | 00:28:17 | 100   |
| 4 | 684623 | 657742 | 22-Nov | 14:12:29 | 14:40:41 | 00:28:13 | 100   |
| 4 | 684623 | 657742 | 23-Nov | 14:12:49 | 14:40:50 | 00:28:01 | 100   |
| 4 | 684623 | 657742 | 24-Nov | 14:13:13 | 14:40:57 | 00:27:43 | 100   |
| 4 | 684623 | 657742 | 25-Nov | 14:13:41 | 14:41:01 | 00:27:19 | 100   |
| 4 | 684623 | 657742 | 26-Nov | 14:14:13 | 14:41:02 | 00:26:49 | 100   |
| 4 | 684623 | 657742 | 27-Nov | 14:14:48 | 14:41:02 | 00:26:14 | 100   |
| 4 | 684623 | 657742 | 28-Nov | 14:15:26 | 14:40:59 | 00:25:33 | 100   |
| 4 | 684623 | 657742 | 29-Nov | 14:16:08 | 14:40:55 | 00:24:47 | 100   |
| 4 | 684623 | 657742 | 30-Nov | 14:16:52 | 14:40:48 | 00:23:56 | 100   |
| 4 | 684623 | 657742 | 01-Dec | 14:17:40 | 14:40:40 | 00:22:59 | 100   |
| 4 | 684623 | 657742 | 02-Dec | 14:18:30 | 14:40:29 | 00:21:59 | 100   |
| 4 | 684623 | 657742 | 03-Dec | 14:19:23 | 14:40:16 | 00:20:54 | 100   |
| 4 | 684623 | 657742 | 04-Dec | 14:20:18 | 14:40:01 | 00:19:43 | 100   |
| 4 | 684623 | 657742 | 05-Dec | 14:21:16 | 14:39:44 | 00:18:28 | 100   |
| 4 | 684623 | 657742 | 06-Dec | 14:22:17 | 14:39:23 | 00:17:07 | 100   |
| 4 | 684623 | 657742 | 07-Dec | 14:23:20 | 14:39:02 | 00:15:42 | 100   |
| 4 | 684623 | 657742 | 08-Dec | 14:24:26 | 14:38:49 | 00:14:23 | 90.49 |
| 4 | 684623 | 657742 | 09-Dec | 14:25:35 | 14:38:33 | 00:12:58 | 72.38 |
| 4 | 684623 | 657742 | 10-Dec | 14:26:47 | 14:38:15 | 00:11:28 | 55.7  |
| 4 | 684623 | 657742 | 11-Dec | 14:28:03 | 14:37:54 | 00:09:51 | 40.46 |
| 4 | 684623 | 657742 | 12-Dec | 14:29:25 | 14:37:28 | 00:08:03 | 26.67 |
| 4 | 684623 | 657742 | 13-Dec | 14:30:57 | 14:36:53 | 00:05:56 | 14.34 |
| 4 | 684623 | 657742 | 14-Dec | 14:32:55 | 14:35:51 | 00:02:56 | 3.47  |
| 4 | 684623 | 657742 | 28-Dec | 14:39:09 | 14:43:27 | 00:04:17 | 7.45  |
| 4 | 684623 | 657742 | 29-Dec | 14:38:23 | 14:45:11 | 00:06:48 | 18.91 |
| 4 | 684623 | 657742 | 30-Dec | 14:37:53 | 14:46:39 | 00:08:46 | 31.85 |
| 4 | 684623 | 657742 | 31-Dec | 14:37:30 | 14:47:59 | 00:10:30 | 46.25 |
| 6 | 685208 | 657687 | 01-Jan | 12:45:24 | 13:05:50 | 00:20:26 | 100   |
| 6 | 685208 | 657687 | 02-Jan | 12:46:22 | 13:05:51 | 00:19:30 | 100   |
| 6 | 685208 | 657687 | 03-Jan | 12:47:25 | 13:05:48 | 00:18:23 | 100   |
| 6 | 685208 | 657687 | 04-Jan | 12:48:35 | 13:05:38 | 00:17:02 | 100   |

|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 6 | 685208 | 657687 | 05-Jan | 12:49:55 | 13:05:19 | 00:15:24 | 90.61 |
| 6 | 685208 | 657687 | 06-Jan | 12:51:29 | 13:04:50 | 00:13:21 | 68.71 |
| 6 | 685208 | 657687 | 07-Jan | 12:53:08 | 13:04:04 | 00:10:56 | 45.41 |
| 6 | 685208 | 657687 | 08-Jan | 12:55:18 | 13:02:45 | 00:07:27 | 20.7  |
| 6 | 685208 | 657687 | 03-Dec | 12:40:08 | 12:44:54 | 00:04:46 | 8.38  |
| 6 | 685208 | 657687 | 04-Dec | 12:38:12 | 12:47:39 | 00:09:27 | 33.59 |
| 6 | 685208 | 657687 | 05-Dec | 12:37:13 | 12:49:28 | 00:12:16 | 57.44 |
| 6 | 685208 | 657687 | 06-Dec | 12:36:29 | 12:50:56 | 00:14:27 | 79.9  |
| 6 | 685208 | 657687 | 07-Dec | 12:35:56 | 12:52:12 | 00:16:16 | 100   |
| 6 | 685208 | 657687 | 08-Dec | 12:35:35 | 12:53:20 | 00:17:45 | 100   |
| 6 | 685208 | 657687 | 09-Dec | 12:35:23 | 12:54:21 | 00:18:58 | 100   |
| 6 | 685208 | 657687 | 10-Dec | 12:35:18 | 12:55:17 | 00:19:59 | 100   |
| 6 | 685208 | 657687 | 11-Dec | 12:35:18 | 12:56:09 | 00:20:51 | 100   |
| 6 | 685208 | 657687 | 12-Dec | 12:35:23 | 12:56:58 | 00:21:35 | 100   |
| 6 | 685208 | 657687 | 13-Dec | 12:35:32 | 12:57:45 | 00:22:13 | 100   |
| 6 | 685208 | 657687 | 14-Dec | 12:35:45 | 12:58:30 | 00:22:45 | 100   |
| 6 | 685208 | 657687 | 15-Dec | 12:36:00 | 12:59:13 | 00:23:12 | 100   |
| 6 | 685208 | 657687 | 16-Dec | 12:36:18 | 12:59:53 | 00:23:34 | 100   |
| 6 | 685208 | 657687 | 17-Dec | 12:36:39 | 13:00:31 | 00:23:52 | 100   |
| 6 | 685208 | 657687 | 18-Dec | 12:37:02 | 13:01:07 | 00:24:05 | 100   |
| 6 | 685208 | 657687 | 19-Dec | 12:37:27 | 13:01:41 | 00:24:14 | 100   |
| 6 | 685208 | 657687 | 20-Dec | 12:37:55 | 13:02:14 | 00:24:19 | 100   |
| 6 | 685208 | 657687 | 21-Dec | 12:38:24 | 13:02:44 | 00:24:21 | 100   |
| 6 | 685208 | 657687 | 22-Dec | 12:38:55 | 13:03:13 | 00:24:18 | 100   |
| 6 | 685208 | 657687 | 23-Dec | 12:39:28 | 13:03:40 | 00:24:12 | 100   |
| 6 | 685208 | 657687 | 24-Dec | 12:40:02 | 13:04:05 | 00:24:02 | 100   |
| 6 | 685208 | 657687 | 25-Dec | 12:40:39 | 13:04:27 | 00:23:48 | 100   |
| 6 | 685208 | 657687 | 26-Dec | 12:41:18 | 13:04:48 | 00:23:29 | 100   |
| 6 | 685208 | 657687 | 27-Dec | 12:41:59 | 13:05:05 | 00:23:06 | 100   |
| 6 | 685208 | 657687 | 28-Dec | 12:42:42 | 13:05:20 | 00:22:38 | 100   |
| 6 | 685208 | 657687 | 29-Dec | 12:43:29 | 13:05:32 | 00:22:04 | 100   |
| 6 | 685208 | 657687 | 30-Dec | 12:44:18 | 13:05:42 | 00:21:25 | 100   |
| 6 | 685208 | 657687 | 31-Dec | 12:45:10 | 13:05:49 | 00:20:39 | 100   |

House Easting Northing  
29 685672 658939

| Turbine | Easting | Northing | Date   | Start Time | End Time | Duration | % Cover |
|---------|---------|----------|--------|------------|----------|----------|---------|
| 1       | 684562  | 658173   | 11-Feb | 16:24:41   | 16:27:16 | 00:02:36 | 3.02    |
| 1       | 684562  | 658173   | 12-Feb | 16:20:06   | 16:31:52 | 00:11:46 | 65.81   |
| 1       | 684562  | 658173   | 13-Feb | 16:17:58   | 16:33:58 | 00:16:00 | 100     |
| 1       | 684562  | 658173   | 14-Feb | 16:16:28   | 16:35:56 | 00:19:28 | 100     |
| 1       | 684562  | 658173   | 15-Feb | 16:15:20   | 16:37:24 | 00:22:04 | 100     |
| 1       | 684562  | 658173   | 16-Feb | 16:14:27   | 16:38:28 | 00:24:01 | 100     |
| 1       | 684562  | 658173   | 17-Feb | 16:13:47   | 16:39:15 | 00:25:28 | 100     |
| 1       | 684562  | 658173   | 18-Feb | 16:13:15   | 16:39:48 | 00:26:33 | 100     |
| 1       | 684562  | 658173   | 19-Feb | 16:12:50   | 16:40:08 | 00:27:19 | 100     |
| 1       | 684562  | 658173   | 20-Feb | 16:12:34   | 16:40:18 | 00:27:44 | 100     |
| 1       | 684562  | 658173   | 21-Feb | 16:12:27   | 16:40:16 | 00:27:49 | 100     |

|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 1 | 684562 | 658173 | 22-Feb | 16:12:30 | 16:40:03 | 00:27:33 | 100   |
| 1 | 684562 | 658173 | 23-Feb | 16:12:43 | 16:39:40 | 00:26:57 | 100   |
| 1 | 684562 | 658173 | 24-Feb | 16:13:07 | 16:39:04 | 00:25:57 | 100   |
| 1 | 684562 | 658173 | 25-Feb | 16:13:45 | 16:38:15 | 00:24:30 | 100   |
| 1 | 684562 | 658173 | 26-Feb | 16:14:39 | 16:37:09 | 00:22:30 | 100   |
| 1 | 684562 | 658173 | 27-Feb | 16:15:56 | 16:35:43 | 00:19:47 | 100   |
| 1 | 684562 | 658173 | 28-Feb | 16:17:53 | 16:33:46 | 00:15:53 | 79.22 |
| 1 | 684562 | 658173 | 29-Feb | 16:21:35 | 16:30:43 | 00:09:08 | 39.85 |
| 1 | 684562 | 658173 | 12-Oct | 15:53:55 | 16:05:49 | 00:11:53 | 30.74 |
| 1 | 684562 | 658173 | 13-Oct | 15:50:37 | 16:07:55 | 00:17:17 | 100   |
| 1 | 684562 | 658173 | 14-Oct | 15:48:33 | 16:09:15 | 00:20:42 | 100   |
| 1 | 684562 | 658173 | 15-Oct | 15:47:01 | 16:10:10 | 00:23:09 | 100   |
| 1 | 684562 | 658173 | 16-Oct | 15:45:51 | 16:10:48 | 00:24:57 | 100   |
| 1 | 684562 | 658173 | 17-Oct | 15:44:57 | 16:11:12 | 00:26:15 | 100   |
| 1 | 684562 | 658173 | 18-Oct | 15:44:16 | 16:11:24 | 00:27:08 | 100   |
| 1 | 684562 | 658173 | 19-Oct | 15:43:47 | 16:11:26 | 00:27:39 | 100   |
| 1 | 684562 | 658173 | 20-Oct | 15:43:29 | 16:11:19 | 00:27:50 | 100   |
| 1 | 684562 | 658173 | 21-Oct | 15:43:22 | 16:11:03 | 00:27:41 | 100   |
| 1 | 684562 | 658173 | 22-Oct | 15:43:24 | 16:10:37 | 00:27:13 | 100   |
| 1 | 684562 | 658173 | 23-Oct | 15:43:38 | 16:10:01 | 00:26:23 | 100   |
| 1 | 684562 | 658173 | 24-Oct | 15:43:58 | 16:09:15 | 00:25:17 | 100   |
| 1 | 684562 | 658173 | 25-Oct | 15:44:29 | 16:08:16 | 00:23:47 | 100   |
| 1 | 684562 | 658173 | 26-Oct | 15:45:14 | 16:07:00 | 00:21:47 | 100   |
| 1 | 684562 | 658173 | 27-Oct | 15:46:15 | 16:05:21 | 00:19:06 | 100   |
| 1 | 684562 | 658173 | 28-Oct | 15:47:41 | 16:03:20 | 00:15:39 | 100   |
| 1 | 684562 | 658173 | 29-Oct | 15:49:48 | 16:01:04 | 00:11:17 | 59.73 |
| 6 | 685208 | 657687 | 01-Jan | 13:46:42 | 14:17:00 | 00:30:18 | 100   |
| 6 | 685208 | 657687 | 02-Jan | 13:47:15 | 14:17:24 | 00:30:09 | 100   |
| 6 | 685208 | 657687 | 03-Jan | 13:47:49 | 14:17:47 | 00:29:58 | 100   |
| 6 | 685208 | 657687 | 04-Jan | 13:48:24 | 14:18:08 | 00:29:45 | 100   |
| 6 | 685208 | 657687 | 05-Jan | 13:48:59 | 14:18:27 | 00:29:28 | 100   |
| 6 | 685208 | 657687 | 06-Jan | 13:49:36 | 14:18:45 | 00:29:09 | 100   |
| 6 | 685208 | 657687 | 07-Jan | 13:50:15 | 14:19:01 | 00:28:46 | 100   |
| 6 | 685208 | 657687 | 08-Jan | 13:50:55 | 14:19:13 | 00:28:18 | 100   |
| 6 | 685208 | 657687 | 09-Jan | 13:51:38 | 14:19:23 | 00:27:45 | 100   |
| 6 | 685208 | 657687 | 10-Jan | 13:52:24 | 14:19:29 | 00:27:06 | 100   |
| 6 | 685208 | 657687 | 11-Jan | 13:53:12 | 14:19:31 | 00:26:19 | 100   |
| 6 | 685208 | 657687 | 12-Jan | 13:54:05 | 14:19:29 | 00:25:24 | 100   |
| 6 | 685208 | 657687 | 13-Jan | 13:55:02 | 14:19:21 | 00:24:19 | 100   |
| 6 | 685208 | 657687 | 14-Jan | 13:56:06 | 14:19:07 | 00:23:01 | 100   |
| 6 | 685208 | 657687 | 15-Jan | 13:57:18 | 14:18:44 | 00:21:27 | 100   |
| 6 | 685208 | 657687 | 16-Jan | 13:58:41 | 14:18:12 | 00:19:31 | 100   |
| 6 | 685208 | 657687 | 17-Jan | 14:00:21 | 14:17:25 | 00:17:04 | 100   |
| 6 | 685208 | 657687 | 18-Jan | 14:02:07 | 14:16:17 | 00:14:10 | 81.52 |
| 6 | 685208 | 657687 | 19-Jan | 14:04:16 | 14:14:24 | 00:10:09 | 42.24 |
| 6 | 685208 | 657687 | 20-Jan | 14:08:30 | 14:10:33 | 00:02:03 | 1.74  |
| 6 | 685208 | 657687 | 22-Nov | 13:40:46 | 13:49:07 | 00:08:21 | 29.29 |
| 6 | 685208 | 657687 | 23-Nov | 13:38:57 | 13:51:59 | 00:13:03 | 68.54 |
| 6 | 685208 | 657687 | 24-Nov | 13:37:49 | 13:53:54 | 00:16:06 | 100   |



|   |        |        |        |          |          |          |     |
|---|--------|--------|--------|----------|----------|----------|-----|
| 6 | 685208 | 657687 | 25-Nov | 13:36:40 | 13:55:25 | 00:18:45 | 100 |
| 6 | 685208 | 657687 | 26-Nov | 13:35:52 | 13:56:41 | 00:20:49 | 100 |
| 6 | 685208 | 657687 | 27-Nov | 13:35:18 | 13:57:47 | 00:22:29 | 100 |
| 6 | 685208 | 657687 | 28-Nov | 13:34:54 | 13:58:46 | 00:23:52 | 100 |
| 6 | 685208 | 657687 | 29-Nov | 13:34:38 | 13:59:40 | 00:25:01 | 100 |
| 6 | 685208 | 657687 | 30-Nov | 13:34:29 | 14:00:29 | 00:25:59 | 100 |
| 6 | 685208 | 657687 | 01-Dec | 13:34:26 | 14:01:15 | 00:26:49 | 100 |
| 6 | 685208 | 657687 | 02-Dec | 13:34:26 | 14:01:57 | 00:27:31 | 100 |
| 6 | 685208 | 657687 | 03-Dec | 13:34:31 | 14:02:37 | 00:28:06 | 100 |
| 6 | 685208 | 657687 | 04-Dec | 13:34:40 | 14:03:15 | 00:28:36 | 100 |
| 6 | 685208 | 657687 | 05-Dec | 13:34:51 | 14:03:52 | 00:29:00 | 100 |
| 6 | 685208 | 657687 | 06-Dec | 13:35:05 | 14:04:27 | 00:29:21 | 100 |
| 6 | 685208 | 657687 | 07-Dec | 13:35:22 | 14:05:01 | 00:29:39 | 100 |
| 6 | 685208 | 657687 | 08-Dec | 13:35:41 | 14:05:34 | 00:29:53 | 100 |
| 6 | 685208 | 657687 | 09-Dec | 13:36:01 | 14:06:07 | 00:30:05 | 100 |
| 6 | 685208 | 657687 | 10-Dec | 13:36:24 | 14:06:38 | 00:30:15 | 100 |
| 6 | 685208 | 657687 | 11-Dec | 13:36:47 | 14:07:10 | 00:30:22 | 100 |
| 6 | 685208 | 657687 | 12-Dec | 13:37:12 | 14:07:40 | 00:30:28 | 100 |
| 6 | 685208 | 657687 | 13-Dec | 13:37:38 | 14:08:11 | 00:30:33 | 100 |
| 6 | 685208 | 657687 | 14-Dec | 13:38:05 | 14:08:41 | 00:30:36 | 100 |
| 6 | 685208 | 657687 | 15-Dec | 13:38:32 | 14:09:11 | 00:30:39 | 100 |
| 6 | 685208 | 657687 | 16-Dec | 13:39:01 | 14:09:41 | 00:30:41 | 100 |
| 6 | 685208 | 657687 | 17-Dec | 13:39:29 | 14:10:11 | 00:30:42 | 100 |
| 6 | 685208 | 657687 | 18-Dec | 13:39:58 | 14:10:41 | 00:30:43 | 100 |
| 6 | 685208 | 657687 | 19-Dec | 13:40:28 | 14:11:11 | 00:30:43 | 100 |
| 6 | 685208 | 657687 | 20-Dec | 13:40:58 | 14:11:41 | 00:30:43 | 100 |
| 6 | 685208 | 657687 | 21-Dec | 13:41:27 | 14:12:11 | 00:30:44 | 100 |
| 6 | 685208 | 657687 | 22-Dec | 13:41:57 | 14:12:41 | 00:30:43 | 100 |
| 6 | 685208 | 657687 | 23-Dec | 13:42:27 | 14:13:10 | 00:30:43 | 100 |
| 6 | 685208 | 657687 | 24-Dec | 13:42:58 | 14:13:40 | 00:30:42 | 100 |
| 6 | 685208 | 657687 | 25-Dec | 13:43:28 | 14:14:09 | 00:30:41 | 100 |
| 6 | 685208 | 657687 | 26-Dec | 13:43:58 | 14:14:38 | 00:30:40 | 100 |
| 6 | 685208 | 657687 | 27-Dec | 13:44:29 | 14:15:07 | 00:30:38 | 100 |
| 6 | 685208 | 657687 | 28-Dec | 13:44:59 | 14:15:35 | 00:30:35 | 100 |
| 6 | 685208 | 657687 | 29-Dec | 13:45:31 | 14:16:02 | 00:30:31 | 100 |
| 6 | 685208 | 657687 | 30-Dec | 13:46:02 | 14:16:29 | 00:30:26 | 100 |
| 6 | 685208 | 657687 | 31-Dec | 13:46:34 | 14:16:54 | 00:30:20 | 100 |

House Easting Northing  
30 685768 658951

| Turbine | Easting | Northing | Date   | Start Time | End Time | Duration | % Cover |
|---------|---------|----------|--------|------------|----------|----------|---------|
| 6       | 685208  | 657687   | 01-Jan | 14:02:25   | 14:31:34 | 00:29:09 | 100     |
| 6       | 685208  | 657687   | 02-Jan | 14:02:55   | 14:32:01 | 00:29:06 | 100     |
| 6       | 685208  | 657687   | 03-Jan | 14:03:25   | 14:32:26 | 00:29:01 | 100     |
| 6       | 685208  | 657687   | 04-Jan | 14:03:56   | 14:32:51 | 00:28:55 | 100     |
| 6       | 685208  | 657687   | 05-Jan | 14:04:27   | 14:33:13 | 00:28:46 | 100     |
| 6       | 685208  | 657687   | 06-Jan | 14:04:59   | 14:33:34 | 00:28:34 | 100     |
| 6       | 685208  | 657687   | 07-Jan | 14:05:33   | 14:33:53 | 00:28:19 | 100     |

|   |        |        |        |          |          |          |       |
|---|--------|--------|--------|----------|----------|----------|-------|
| 6 | 685208 | 657687 | 08-Jan | 14:06:08 | 14:34:09 | 00:28:00 | 100   |
| 6 | 685208 | 657687 | 09-Jan | 14:06:45 | 14:34:22 | 00:27:37 | 100   |
| 6 | 685208 | 657687 | 10-Jan | 14:07:24 | 14:34:34 | 00:27:10 | 100   |
| 6 | 685208 | 657687 | 11-Jan | 14:08:05 | 14:34:41 | 00:26:36 | 100   |
| 6 | 685208 | 657687 | 12-Jan | 14:08:49 | 14:34:45 | 00:25:56 | 100   |
| 6 | 685208 | 657687 | 13-Jan | 14:09:37 | 14:34:44 | 00:25:07 | 100   |
| 6 | 685208 | 657687 | 14-Jan | 14:10:29 | 14:34:38 | 00:24:09 | 100   |
| 6 | 685208 | 657687 | 15-Jan | 14:11:26 | 14:34:25 | 00:22:59 | 100   |
| 6 | 685208 | 657687 | 16-Jan | 14:12:30 | 14:34:08 | 00:21:39 | 100   |
| 6 | 685208 | 657687 | 17-Jan | 14:13:42 | 14:33:44 | 00:20:02 | 100   |
| 6 | 685208 | 657687 | 18-Jan | 14:15:08 | 14:33:09 | 00:18:02 | 100   |
| 6 | 685208 | 657687 | 19-Jan | 14:16:54 | 14:32:20 | 00:15:26 | 100   |
| 6 | 685208 | 657687 | 20-Jan | 14:18:59 | 14:31:07 | 00:12:07 | 66.22 |
| 6 | 685208 | 657687 | 21-Jan | 14:21:36 | 14:29:05 | 00:07:30 | 24.5  |
| 6 | 685208 | 657687 | 20-Nov | 13:57:15 | 14:02:37 | 00:05:22 | 12.41 |
| 6 | 685208 | 657687 | 21-Nov | 13:54:41 | 14:05:42 | 00:11:01 | 53.98 |
| 6 | 685208 | 657687 | 22-Nov | 13:53:09 | 14:07:38 | 00:14:29 | 94.4  |
| 6 | 685208 | 657687 | 23-Nov | 13:51:50 | 14:09:08 | 00:17:18 | 100   |
| 6 | 685208 | 657687 | 24-Nov | 13:50:56 | 14:10:23 | 00:19:27 | 100   |
| 6 | 685208 | 657687 | 25-Nov | 13:50:19 | 14:11:29 | 00:21:10 | 100   |
| 6 | 685208 | 657687 | 26-Nov | 13:49:52 | 14:12:27 | 00:22:34 | 100   |
| 6 | 685208 | 657687 | 27-Nov | 13:49:35 | 14:13:22 | 00:23:48 | 100   |
| 6 | 685208 | 657687 | 28-Nov | 13:49:24 | 14:14:13 | 00:24:49 | 100   |
| 6 | 685208 | 657687 | 29-Nov | 13:49:19 | 14:14:59 | 00:25:40 | 100   |
| 6 | 685208 | 657687 | 30-Nov | 13:49:18 | 14:15:42 | 00:26:23 | 100   |
| 6 | 685208 | 657687 | 01-Dec | 13:49:23 | 14:16:21 | 00:26:59 | 100   |
| 6 | 685208 | 657687 | 02-Dec | 13:49:31 | 14:16:59 | 00:27:28 | 100   |
| 6 | 685208 | 657687 | 03-Dec | 13:49:42 | 14:17:34 | 00:27:53 | 100   |
| 6 | 685208 | 657687 | 04-Dec | 13:49:56 | 14:18:09 | 00:28:13 | 100   |
| 6 | 685208 | 657687 | 05-Dec | 13:50:13 | 14:18:42 | 00:28:29 | 100   |
| 6 | 685208 | 657687 | 06-Dec | 13:50:32 | 14:19:14 | 00:28:42 | 100   |
| 6 | 685208 | 657687 | 07-Dec | 13:50:52 | 14:19:45 | 00:28:52 | 100   |
| 6 | 685208 | 657687 | 08-Dec | 13:51:15 | 14:20:15 | 00:28:59 | 100   |
| 6 | 685208 | 657687 | 09-Dec | 13:51:40 | 14:20:44 | 00:29:05 | 100   |
| 6 | 685208 | 657687 | 10-Dec | 13:52:05 | 14:21:13 | 00:29:08 | 100   |
| 6 | 685208 | 657687 | 11-Dec | 13:52:32 | 14:21:42 | 00:29:10 | 100   |
| 6 | 685208 | 657687 | 12-Dec | 13:52:59 | 14:22:10 | 00:29:11 | 100   |
| 6 | 685208 | 657687 | 13-Dec | 13:53:28 | 14:22:39 | 00:29:11 | 100   |
| 6 | 685208 | 657687 | 14-Dec | 13:53:57 | 14:23:07 | 00:29:10 | 100   |
| 6 | 685208 | 657687 | 15-Dec | 13:54:27 | 14:23:36 | 00:29:09 | 100   |
| 6 | 685208 | 657687 | 16-Dec | 13:54:56 | 14:24:04 | 00:29:08 | 100   |
| 6 | 685208 | 657687 | 17-Dec | 13:55:26 | 14:24:33 | 00:29:07 | 100   |
| 6 | 685208 | 657687 | 18-Dec | 13:55:56 | 14:25:02 | 00:29:06 | 100   |
| 6 | 685208 | 657687 | 19-Dec | 13:56:27 | 14:25:31 | 00:29:05 | 100   |
| 6 | 685208 | 657687 | 20-Dec | 13:56:57 | 14:26:01 | 00:29:04 | 100   |
| 6 | 685208 | 657687 | 21-Dec | 13:57:27 | 14:26:31 | 00:29:04 | 100   |
| 6 | 685208 | 657687 | 22-Dec | 13:57:56 | 14:27:01 | 00:29:04 | 100   |
| 6 | 685208 | 657687 | 23-Dec | 13:58:26 | 14:27:31 | 00:29:05 | 100   |
| 6 | 685208 | 657687 | 24-Dec | 13:58:55 | 14:28:01 | 00:29:06 | 100   |
| 6 | 685208 | 657687 | 25-Dec | 13:59:24 | 14:28:31 | 00:29:07 | 100   |

|   |        |        |        |          |          |          |     |
|---|--------|--------|--------|----------|----------|----------|-----|
| 6 | 685208 | 657687 | 26-Dec | 13:59:53 | 14:29:02 | 00:29:08 | 100 |
| 6 | 685208 | 657687 | 27-Dec | 14:00:22 | 14:29:32 | 00:29:09 | 100 |
| 6 | 685208 | 657687 | 28-Dec | 14:00:51 | 14:30:01 | 00:29:10 | 100 |
| 6 | 685208 | 657687 | 29-Dec | 14:01:20 | 14:30:31 | 00:29:11 | 100 |
| 6 | 685208 | 657687 | 30-Dec | 14:01:49 | 14:30:59 | 00:29:10 | 100 |
| 6 | 685208 | 657687 | 31-Dec | 14:02:18 | 14:31:27 | 00:29:09 | 100 |

Carlow County Council Planning Authority, Viewing Purposes Only

Carlow County Council, Planning or Public Viewing Only