

**Client Name:** Prevailing Wind Park, LLC  
**Project Name:** Prevailing Winds Wind Project  
**Project Location:** Charles Mix and Bonne Homme Counties, South Dakota  
**Project Number:** 105644

**Study Type:** Shadow Flicker Assessment

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**Version History:** **Version 6 | Issued 26-September-2018 | Author: Rose | Reviewer: Anderson**  
 Updated turbine layout and receptors. Previous versions issued with full report.

**WIND TURBINE COORDINATES - GE3.8-137**

| <b>Turbine Number</b> | <b>Easting [m]</b> | <b>Northing [m]</b> | <b>Turbine Model</b> | <b>Hub Height [m]</b> |
|-----------------------|--------------------|---------------------|----------------------|-----------------------|
| 1A.01                 | 579,956            | 4,775,946           | GE3.8-137            | 111.5                 |
| 1A.02                 | 580,807            | 4,775,443           | GE3.8-137            | 111.5                 |
| 1A.03                 | 580,970            | 4,776,074           | GE3.8-137            | 111.5                 |
| 1A.04                 | 580,259            | 4,777,725           | GE3.8-137            | 111.5                 |
| 1A.05                 | 580,759            | 4,777,855           | GE3.8-137            | 111.5                 |
| 1A.06                 | 581,221            | 4,778,640           | GE3.8-137            | 111.5                 |
| 1A.07                 | 581,719            | 4,779,255           | GE3.8-137            | 111.5                 |
| 1B.08                 | 579,428            | 4,778,668           | GE3.8-137            | 111.5                 |
| 1B.09                 | 579,671            | 4,779,153           | GE3.8-137            | 111.5                 |
| 1B.10                 | 580,170            | 4,780,211           | GE3.8-137            | 111.5                 |
| 1B.11                 | 580,939            | 4,780,407           | GE3.8-137            | 111.5                 |
| 1B.12                 | 580,170            | 4,781,359           | GE3.8-137            | 111.5                 |
| 1B.13                 | 580,604            | 4,781,811           | GE3.8-137            | 111.5                 |
| 1B.14                 | 580,727            | 4,782,275           | GE3.8-137            | 111.5                 |
| 2A.15                 | 575,324            | 4,774,400           | GE3.8-137            | 111.5                 |
| 2A.16                 | 575,201            | 4,775,693           | GE3.8-137            | 111.5                 |
| 2A.17                 | 576,064            | 4,775,521           | GE3.8-137            | 111.5                 |
| 2A.18                 | 576,650            | 4,776,014           | GE3.8-137            | 111.5                 |
| 2A.19                 | 577,060            | 4,776,210           | GE3.8-137            | 111.5                 |
| 2A.20                 | 577,580            | 4,776,426           | GE3.8-137            | 111.5                 |
| 2A.21                 | 579,275            | 4,777,079           | GE3.8-137            | 111.5                 |
| 2B.22                 | 574,404            | 4,774,437           | GE3.8-137            | 111.5                 |
| 2B.23                 | 573,519            | 4,774,711           | GE3.8-137            | 111.5                 |
| 2B.24                 | 572,179            | 4,774,804           | GE3.8-137            | 111.5                 |
| 2B.25                 | 571,662            | 4,775,700           | GE3.8-137            | 111.5                 |
| 2B.26                 | 571,219            | 4,774,346           | GE3.8-137            | 111.5                 |
| 2B.27                 | 570,700            | 4,773,949           | GE3.8-137            | 111.5                 |
| 2B.28                 | 570,639            | 4,774,959           | GE3.8-137            | 111.5                 |
| 3A.29                 | 574,452            | 4,773,338           | GE3.8-137            | 111.5                 |
| 3A.30                 | 573,634            | 4,773,249           | GE3.8-137            | 111.5                 |
| 3A.31                 | 570,336            | 4,773,327           | GE3.8-137            | 111.5                 |
| 3A.32                 | 568,781            | 4,773,724           | GE3.8-137            | 111.5                 |
| 3A.33                 | 569,071            | 4,774,045           | GE3.8-137            | 111.5                 |
| 3A.34                 | 568,691            | 4,775,793           | GE3.8-137            | 111.5                 |
| 3A.35                 | 569,074            | 4,775,995           | GE3.8-137            | 111.5                 |
| 3A.36                 | 569,026            | 4,777,349           | GE3.8-137            | 111.5                 |
| 3B.37                 | 573,856            | 4,770,651           | GE3.8-137            | 111.5                 |
| 3B.38                 | 571,896            | 4,770,015           | GE3.8-137            | 111.5                 |
| 3B.39                 | 572,076            | 4,769,232           | GE3.8-137            | 111.5                 |
| 3B.40                 | 572,380            | 4,771,753           | GE3.8-137            | 111.5                 |
| 3B.41                 | 571,220            | 4,771,721           | GE3.8-137            | 111.5                 |
| 3B.42                 | 570,763            | 4,771,308           | GE3.8-137            | 111.5                 |
| 3B.43                 | 570,487            | 4,770,821           | GE3.8-137            | 111.5                 |
| 4A.44                 | 575,275            | 4,769,819           | GE3.8-137            | 111.5                 |
| 4A.45                 | 576,925            | 4,769,963           | GE3.8-137            | 111.5                 |
| 4A.46                 | 576,997            | 4,769,043           | GE3.8-137            | 111.5                 |
| 4A.47                 | 577,718            | 4,768,001           | GE3.8-137            | 111.5                 |
| 4A.48                 | 576,805            | 4,767,428           | GE3.8-137            | 111.5                 |
| 4A.49                 | 578,173            | 4,768,318           | GE3.8-137            | 111.5                 |
| 4B.50                 | 579,886            | 4,767,974           | GE3.8-137            | 111.5                 |

**WIND TURBINE COORDINATES - GE3.8-137**

| <b>Turbine Number</b> | <b>Easting [m]</b> | <b>Northing [m]</b> | <b>Turbine Model</b> | <b>Hub Height [m]</b> |
|-----------------------|--------------------|---------------------|----------------------|-----------------------|
| 4B.51                 | 581,200            | 4,768,190           | GE3.8-137            | 111.5                 |
| 4B.52                 | 581,716            | 4,768,536           | GE3.8-137            | 111.5                 |
| 4B.53                 | 580,860            | 4,769,311           | GE3.8-137            | 111.5                 |
| 4B.54                 | 579,755            | 4,766,668           | GE3.8-137            | 111.5                 |
| 4B.55                 | 579,255            | 4,766,296           | GE3.8-137            | 111.5                 |
| 4B.56                 | 578,787            | 4,765,862           | GE3.8-137            | 111.5                 |
| 4B.57                 | 578,011            | 4,765,079           | GE3.8-137            | 111.5                 |
| 5A.58                 | 571,464            | 4,768,160           | GE3.8-137            | 111.5                 |
| 5A.59                 | 572,004            | 4,766,553           | GE3.8-137            | 111.5                 |
| 5A.60                 | 570,006            | 4,766,129           | GE3.8-137            | 111.5                 |
| 5A.61                 | 570,143            | 4,766,716           | GE3.8-137            | 111.5                 |
| 5A.62                 | 571,597            | 4,766,151           | GE3.8-137            | 111.5                 |

**Notes:**

[1] All coordinates presented in UTM NAD83 Zone 14N (meters)

[2] All coordinates provided by Developer in "PWIND - 62x GE38137 111p5m v180925-02" on 20180925

**RECEPTOR COORDINATES**

| <b>Receptor Name</b> | <b>Easting [ft]</b> | <b>Northing [ft]</b> | <b>Participating Status</b> | <b>County Name</b> |
|----------------------|---------------------|----------------------|-----------------------------|--------------------|
| REC-001              | 583,179             | 4,781,949            | Non-participating           | Hutchinson         |
| REC-002              | 578,731             | 4,782,429            | Participating               | Hutchinson         |
| REC-003              | 580,507             | 4,783,274            | Non-participating           | Hutchinson         |
| REC-004              | 582,679             | 4,780,105            | Non-participating           | Hutchinson         |
| REC-005              | 583,327             | 4,778,397            | Non-participating           | Bon Homme          |
| REC-006              | 583,615             | 4,778,695            | Non-participating           | Bon Homme          |
| REC-007              | 579,386             | 4,783,172            | Non-participating           | Hutchinson         |
| REC-008              | 579,365             | 4,780,123            | Non-participating           | Hutchinson         |
| REC-009              | 582,486             | 4,779,597            | Non-participating           | Bon Homme          |
| REC-010              | 570,706             | 4,779,233            | Non-participating           | Charles Mix        |
| REC-011              | 568,955             | 4,779,050            | Non-participating           | Charles Mix        |
| REC-012              | 575,451             | 4,778,870            | Non-participating           | Bon Homme          |
| REC-013              | 570,834             | 4,777,924            | Non-participating           | Charles Mix        |
| REC-014              | 578,568             | 4,777,265            | Non-participating           | Bon Homme          |
| REC-015              | 578,579             | 4,777,228            | Non-participating           | Bon Homme          |
| REC-016              | 569,438             | 4,774,776            | Participating               | Charles Mix        |
| REC-017              | 568,000             | 4,773,684            | Non-participating           | Charles Mix        |
| REC-018              | 575,894             | 4,773,069            | Participating               | Bon Homme          |
| REC-019              | 568,870             | 4,772,838            | Participating               | Charles Mix        |
| REC-020              | 568,171             | 4,772,373            | Non-participating           | Charles Mix        |
| REC-021              | 574,123             | 4,771,642            | Participating               | Bon Homme          |
| REC-022              | 574,118             | 4,771,913            | Non-participating           | Bon Homme          |
| REC-023              | 567,115             | 4,771,132            | Non-participating           | Charles Mix        |
| REC-024              | 569,456             | 4,770,886            | Non-participating           | Charles Mix        |
| REC-025              | 582,410             | 4,770,691            | Participating               | Bon Homme          |
| REC-026              | 582,206             | 4,770,538            | Non-participating           | Bon Homme          |
| REC-027              | 569,451             | 4,770,123            | Non-participating           | Charles Mix        |
| REC-028              | 578,916             | 4,770,107            | Participating               | Bon Homme          |
| REC-029              | 567,890             | 4,769,897            | Non-participating           | Charles Mix        |
| REC-030              | 574,058             | 4,769,738            | Non-participating           | Bon Homme          |
| REC-031              | 571,038             | 4,769,100            | Non-participating           | Charles Mix        |
| REC-032              | 579,595             | 4,768,434            | Participating               | Bon Homme          |
| REC-033              | 574,388             | 4,768,112            | Non-participating           | Bon Homme          |
| REC-034              | 575,857             | 4,767,969            | Non-participating           | Bon Homme          |
| REC-035              | 568,988             | 4,768,088            | Non-participating           | Charles Mix        |
| REC-036              | 574,140             | 4,767,903            | Non-participating           | Bon Homme          |
| REC-037              | 580,535             | 4,767,956            | Participating               | Bon Homme          |
| REC-038              | 569,571             | 4,767,694            | Non-participating           | Charles Mix        |
| REC-039              | 575,754             | 4,767,512            | Non-participating           | Bon Homme          |
| REC-040              | 575,854             | 4,767,409            | Non-participating           | Bon Homme          |
| REC-041              | 577,366             | 4,767,429            | Participating               | Bon Homme          |
| REC-042              | 580,535             | 4,768,650            | Non-participating           | Bon Homme          |
| REC-043              | 582,314             | 4,767,105            | Non-participating           | Bon Homme          |
| REC-044              | 577,582             | 4,766,535            | Participating               | Bon Homme          |
| REC-045              | 580,460             | 4,766,528            | Participating               | Bon Homme          |
| REC-046              | 570,892             | 4,766,384            | Participating               | Charles Mix        |
| REC-047              | 576,072             | 4,766,099            | Non-participating           | Bon Homme          |
| REC-048              | 575,888             | 4,765,484            | Non-participating           | Bon Homme          |
| REC-049              | 579,136             | 4,765,004            | Non-participating           | Bon Homme          |
| REC-050              | 575,594             | 4,764,878            | Participating               | Bon Homme          |

## RECEPTOR COORDINATES

| Receptor Name | Easting [ft] | Northing [ft] | Participating Status | County Name |
|---------------|--------------|---------------|----------------------|-------------|
| REC-051       | 577,015      | 4,764,806     | Participating        | Bon Homme   |
| REC-052       | 571,035      | 4,764,976     | Non-participating    | Charles Mix |
| REC-053       | 575,752      | 4,763,554     | Non-participating    | Bon Homme   |
| REC-054       | 579,261      | 4,763,509     | Non-participating    | Bon Homme   |
| REC-055       | 575,738      | 4,763,383     | Non-participating    | Bon Homme   |
| REC-056       | 578,784      | 4,763,423     | Non-participating    | Bon Homme   |
| REC-057       | 575,729      | 4,763,021     | Non-participating    | Bon Homme   |
| REC-058       | 574,690      | 4,762,906     | Non-participating    | Bon Homme   |
| REC-059       | 574,609      | 4,762,765     | Non-participating    | Bon Homme   |
| REC-060       | 575,719      | 4,763,759     | Non-participating    | Bon Homme   |
| REC-061       | 566,590      | 4,774,005     | Non-participating    | Charles Mix |
| REC-062       | 566,795      | 4,771,446     | Non-participating    | Charles Mix |
| REC-063       | 567,576      | 4,773,523     | Non-participating    | Charles Mix |
| REC-064       | 568,170      | 4,775,222     | Non-participating    | Charles Mix |
| REC-065       | 568,402      | 4,770,548     | Non-participating    | Charles Mix |
| REC-066       | 569,475      | 4,776,605     | Participating        | Charles Mix |
| REC-067       | 569,782      | 4,765,374     | Non-participating    | Charles Mix |
| REC-068       | 570,301      | 4,776,152     | Non-participating    | Charles Mix |
| REC-069       | 570,321      | 4,776,086     | Non-participating    | Charles Mix |
| REC-070       | 570,931      | 4,767,169     | Non-participating    | Charles Mix |
| REC-071       | 571,247      | 4,765,598     | Non-participating    | Charles Mix |
| REC-072       | 571,848      | 4,767,001     | Participating        | Charles Mix |
| REC-073       | 572,712      | 4,764,371     | Non-participating    | Charles Mix |
| REC-074       | 572,760      | 4,768,610     | Non-participating    | Bon Homme   |
| REC-075       | 572,875      | 4,775,184     | Participating        | Charles Mix |
| REC-076       | 573,024      | 4,775,138     | Non-participating    | Charles Mix |
| REC-077       | 573,104      | 4,767,559     | Non-participating    | Bon Homme   |
| REC-078       | 572,690      | 4,764,270     | Non-participating    | Charles Mix |
| REC-079       | 572,840      | 4,766,532     | Participating        | Charles Mix |
| REC-080       | 574,527      | 4,771,635     | Participating        | Bon Homme   |
| REC-081       | 574,606      | 4,772,084     | Participating        | Bon Homme   |
| REC-082       | 575,265      | 4,775,117     | Participating        | Bon Homme   |
| REC-083       | 575,384      | 4,771,696     | Participating        | Bon Homme   |
| REC-084       | 575,460      | 4,773,772     | Participating        | Bon Homme   |
| REC-085       | 576,210      | 4,770,611     | Participating        | Bon Homme   |
| REC-086       | 576,538      | 4,765,598     | Participating        | Bon Homme   |
| REC-087       | 576,971      | 4,770,447     | Participating        | Bon Homme   |
| REC-088       | 577,660      | 4,765,661     | Participating        | Bon Homme   |
| REC-089       | 577,747      | 4,768,860     | Participating        | Bon Homme   |
| REC-090       | 577,878      | 4,764,079     | Non-participating    | Bon Homme   |
| REC-091       | 577,916      | 4,763,844     | Non-participating    | Bon Homme   |
| REC-092       | 578,532      | 4,767,119     | Participating        | Bon Homme   |
| REC-093       | 578,576      | 4,778,619     | Participating        | Bon Homme   |
| REC-094       | 578,515      | 4,776,677     | Participating        | Bon Homme   |
| REC-095       | 578,804      | 4,764,275     | Non-participating    | Bon Homme   |
| REC-096       | 578,828      | 4,768,793     | Non-participating    | Bon Homme   |
| REC-097       | 578,943      | 4,770,455     | Non-participating    | Bon Homme   |
| REC-098       | 579,475      | 4,767,289     | Non-participating    | Bon Homme   |
| REC-099       | 579,721      | 4,762,442     | Participating        | Bon Homme   |
| REC-100       | 580,720      | 4,765,706     | Non-participating    | Bon Homme   |

**RECEPTOR COORDINATES**

| <b>Receptor Name</b> | <b>Easting [ft]</b> | <b>Northing [ft]</b> | <b>Participating Status</b> | <b>County Name</b> |
|----------------------|---------------------|----------------------|-----------------------------|--------------------|
| REC-101              | 580,992             | 4,762,541            | Non-participating           | Bon Homme          |
| REC-102              | 581,560             | 4,763,175            | Non-participating           | Bon Homme          |
| REC-103              | 581,721             | 4,767,420            | Participating               | Bon Homme          |
| REC-104              | 581,794             | 4,770,381            | Non-participating           | Bon Homme          |
| REC-105              | 581,891             | 4,769,063            | Non-participating           | Bon Homme          |
| REC-106              | 581,883             | 4,766,985            | Participating               | Bon Homme          |
| REC-107              | 582,090             | 4,770,568            | Non-participating           | Bon Homme          |
| REC-108              | 582,148             | 4,764,102            | Participating               | Bon Homme          |
| REC-109              | 582,610             | 4,767,583            | Non-participating           | Bon Homme          |
| REC-110              | 583,963             | 4,770,430            | Non-participating           | Bon Homme          |
| REC-111              | 582,578             | 4,767,332            | Non-participating           | Bon Homme          |
| REC-112              | 570,034             | 4,777,429            | Non-participating           | Charles Mix        |
| REC-113              | 580,226             | 4,778,670            | Participating               | Bon Homme          |
| REC-114              | 580,644             | 4,779,066            | Participating               | Bon Homme          |
| REC-115              | 580,813             | 4,776,798            | Participating               | Bon Homme          |
| REC-116              | 581,676             | 4,775,654            | Participating               | Bon Homme          |
| REC-117              | 579,368             | 4,775,404            | Participating               | Bon Homme          |
| REC-118              | 580,095             | 4,784,337            | Non-participating           | Hutchinson         |
| REC-119              | 581,868             | 4,783,246            | Non-participating           | Hutchinson         |
| REC-120              | 582,411             | 4,781,467            | Non-participating           | Hutchinson         |
| REC-121              | 582,256             | 4,783,055            | Non-participating           | Hutchinson         |
| REC-122              | 582,261             | 4,777,793            | Participating               | Bon Homme          |
| REC-123              | 581,461             | 4,785,646            | Non-participating           | Hutchinson         |
| REC-124              | 577,505             | 4,781,336            | Non-participating           | Hutchinson         |
| REC-125              | 580,996             | 4,773,976            | Non-participating           | Bon Homme          |
| REC-126              | 580,916             | 4,774,830            | Participating               | Bon Homme          |
| REC-127              | 581,474             | 4,775,076            | Participating               | Bon Homme          |
| REC-128              | 581,468             | 4,774,997            | Participating               | Bon Homme          |
| REC-129              | 576,816             | 4,779,814            | Non-participating           | Bon Homme          |
| REC-130              | 567,502             | 4,781,060            | Non-participating           | Charles Mix        |
| REC-131              | 568,850             | 4,781,446            | Non-participating           | Charles Mix        |
| REC-132              | 570,408             | 4,783,811            | Non-participating           | Charles Mix        |
| REC-133              | 570,806             | 4,783,497            | Non-participating           | Charles Mix        |
| REC-134              | 570,845             | 4,782,153            | Non-participating           | Charles Mix        |
| REC-135              | 573,665             | 4,780,153            | Non-participating           | Charles Mix        |
| REC-136              | 579,049             | 4,772,150            | Non-participating           | Bon Homme          |
| REC-137              | 579,104             | 4,772,978            | Non-participating           | Bon Homme          |
| REC-138              | 573,105             | 4,772,224            | Participating               | Bon Homme          |
| REC-139              | 569,781             | 4,772,134            | Non-participating           | Charles Mix        |
| REC-140              | 580,689             | 4,768,952            | Non-participating           | Bon Homme          |
| REC-141              | 577,130             | 4,782,270            | Non-participating           | Hutchinson         |
| REC-142              | 584,340             | 4,769,093            | Non-participating           | Bon Homme          |
| REC-143              | 582,522             | 4,766,643            | Non-participating           | Bon Homme          |
| REC-144              | 582,964             | 4,764,514            | Non-participating           | Bon Homme          |
| REC-145              | 568,186             | 4,765,929            | Non-participating           | Charles Mix        |
| REC-146              | 576,221             | 4,771,527            | Participating               | Bon Homme          |
| REC-147              | 575,778             | 4,770,361            | Participating               | Bon Homme          |

**RECEPTOR COORDINATES**

| <b>Receptor Name</b> | <b>Easting [ft]</b> | <b>Northing [ft]</b> | <b>Participating Status</b> | <b>County Name</b> |
|----------------------|---------------------|----------------------|-----------------------------|--------------------|
| REC-148              | 568,806             | 4,770,128            | Non-participating           | Charles Mix        |
| REC-149              | 567,763             | 4,773,526            | Non-participating           | Charles Mix        |

**Notes:**

- [1] All coordinates presented in UTM NAD83 Zone 14N (meters)
- [2] Coordinates provided by Developer in "RECEPTORS-OCCUPIED.KMZ" and through field investigation data provided 20180920
- [3] Receptor description provided by client
- [4] ReceptorCoord updated with REC-138 in v2
- [5] ReceptorCoord in v4 did not change from v2
- [6] Participating status provided by Developer in "Prevailing Winds - Homes on Leased Land" dated 20180516

**WIND SPEED FREQUENCY DISTRIBUTION - 111.5 MAGL**

| Bin<br>[m/s] | Wind Direction [degrees] |             |             |             |             |             |             |             |             |             |             |             |
|--------------|--------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|              | 0                        | 30          | 60          | 90          | 120         | 150         | 180         | 210         | 240         | 270         | 300         | 330         |
| 0            | 11.63                    | 9.15        | 7.94        | 7.92        | 7.53        | 7.80        | 8.96        | 5.46        | 5.14        | 5.35        | 10.68       | 12.43       |
| 1            | 11.51                    | 9.25        | 11.54       | 9.35        | 8.16        | 4.89        | 3.58        | 8.52        | 9.42        | 9.91        | 10.83       | 10.20       |
| 2            | 20.70                    | 20.13       | 20.43       | 17.93       | 15.71       | 12.23       | 10.56       | 15.50       | 18.48       | 21.81       | 17.68       | 17.72       |
| 3            | 33.22                    | 34.35       | 34.95       | 33.11       | 29.54       | 23.68       | 20.09       | 29.61       | 31.54       | 34.00       | 27.44       | 29.54       |
| 4            | 52.15                    | 56.03       | 57.94       | 55.29       | 52.65       | 35.96       | 28.99       | 46.16       | 45.04       | 55.74       | 46.51       | 48.70       |
| 5            | 72.48                    | 70.20       | 75.20       | 70.95       | 67.65       | 50.49       | 38.48       | 52.72       | 57.06       | 64.37       | 57.02       | 66.18       |
| 6            | 81.89                    | 83.87       | 81.78       | 85.27       | 89.90       | 69.52       | 50.15       | 62.29       | 68.49       | 78.41       | 65.81       | 71.98       |
| 7            | 96.59                    | 95.00       | 98.95       | 97.99       | 102.77      | 81.21       | 57.90       | 72.27       | 81.10       | 84.11       | 76.67       | 81.19       |
| 8            | 102.03                   | 89.37       | 95.39       | 101.36      | 101.50      | 88.94       | 76.50       | 77.23       | 90.82       | 89.96       | 84.70       | 86.32       |
| 9            | 104.00                   | 95.04       | 105.73      | 95.63       | 101.91      | 103.82      | 97.70       | 99.43       | 98.02       | 93.31       | 87.28       | 87.37       |
| 10           | 91.57                    | 103.26      | 106.21      | 98.09       | 107.43      | 111.11      | 107.15      | 107.33      | 109.89      | 102.07      | 92.31       | 92.86       |
| 11           | 90.03                    | 91.21       | 95.97       | 96.93       | 95.27       | 114.82      | 130.43      | 109.07      | 110.93      | 99.29       | 95.28       | 86.57       |
| 12           | 72.68                    | 71.41       | 72.31       | 78.47       | 80.22       | 97.90       | 124.26      | 102.86      | 90.53       | 86.11       | 87.42       | 81.99       |
| 13           | 55.36                    | 56.78       | 53.37       | 59.24       | 59.95       | 78.28       | 104.76      | 87.84       | 71.31       | 62.37       | 69.16       | 65.63       |
| 14           | 40.54                    | 40.48       | 33.32       | 40.20       | 39.37       | 55.87       | 69.60       | 59.70       | 50.90       | 49.04       | 54.02       | 47.97       |
| 15           | 26.30                    | 27.72       | 22.60       | 26.65       | 21.13       | 36.25       | 35.80       | 31.98       | 30.57       | 26.73       | 37.69       | 36.57       |
| 16           | 19.06                    | 18.47       | 13.08       | 15.28       | 9.32        | 19.23       | 22.26       | 18.43       | 15.66       | 18.46       | 25.87       | 26.87       |
| 17           | 11.91                    | 12.71       | 6.83        | 7.28        | 6.69        | 7.58        | 10.69       | 7.61        | 7.57        | 10.26       | 20.54       | 20.48       |
| 18           | 7.90                     | 10.59       | 5.39        | 4.48        | 4.71        | 4.06        | 6.00        | 3.14        | 4.30        | 6.27        | 14.83       | 13.39       |
| 19           | 4.72                     | 6.88        | 3.08        | 2.84        | 3.40        | 1.52        | 3.19        | 2.30        | 3.12        | 2.14        | 8.86        | 10.20       |
| 20           | 2.26                     | 4.50        | 2.50        | 1.45        | 1.01        | 0.64        | 0.68        | 1.54        | 1.78        | 2.07        | 6.90        | 6.91        |
| 21           | 1.57                     | 1.50        | 1.73        | 1.40        | 0.96        | 0.54        | 0.30        | 0.56        | 1.11        | 1.50        | 4.82        | 4.08        |
| 22           | 0.62                     | 0.63        | 0.58        | 0.53        | 0.25        | 0.20        | 0.13        | 0.70        | 0.82        | 1.07        | 3.11        | 3.07        |
| 23           | 0.46                     | 0.25        | 0.48        | 0.05        | 0.30        | 0.15        | 0.21        | 0.63        | 0.97        | 0.71        | 2.22        | 1.69        |
| 24           | 0.26                     | 0.04        | 0.29        | 0.19        | 0.15        | 0.20        | 0.04        | 0.63        | 0.15        | 0.14        | 1.47        | 0.98        |
| 25           | 0.16                     | 0.04        | 0.14        | 0.05        | 0.05        | 0.15        | 0.26        | 0.77        | 0.15        | 0.00        | 1.04        | 0.74        |
| 26           | 0.00                     | 0.13        | 0.14        | 0.00        | 0.00        | 0.10        | 0.21        | 0.28        | 0.07        | 0.07        | 0.39        | 0.40        |
| 27           | 0.03                     | 0.13        | 0.10        | 0.00        | 0.00        | 0.29        | 0.04        | 0.21        | 0.00        | 0.07        | 0.14        | 0.25        |
| 28           | 0.00                     | 0.04        | 0.00        | 0.00        | 0.00        | 0.29        | 0.04        | 0.28        | 0.00        | 0.00        | 0.04        | 0.09        |
| 29           | 0.00                     | 0.00        | 0.00        | 0.00        | 0.00        | 0.10        | 0.00        | 0.14        | 0.00        | 0.00        | 0.00        | 0.06        |
| 30           | 0.00                     | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.21        | 0.15        | 0.00        | 0.00        | 0.00        |
| 31           | 0.00                     | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.07        | 0.00        | 0.00        | 0.00        | 0.00        |
| 32           | 0.00                     | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.07        | 0.00        | 0.00        | 0.00        |
| 33           | 0.00                     | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| 34           | 0.00                     | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Sum</b>   | <b>1012</b>              | <b>1009</b> | <b>1008</b> | <b>1008</b> | <b>1008</b> | <b>1008</b> | <b>1009</b> | <b>1005</b> | <b>1005</b> | <b>1005</b> | <b>1011</b> | <b>1012</b> |

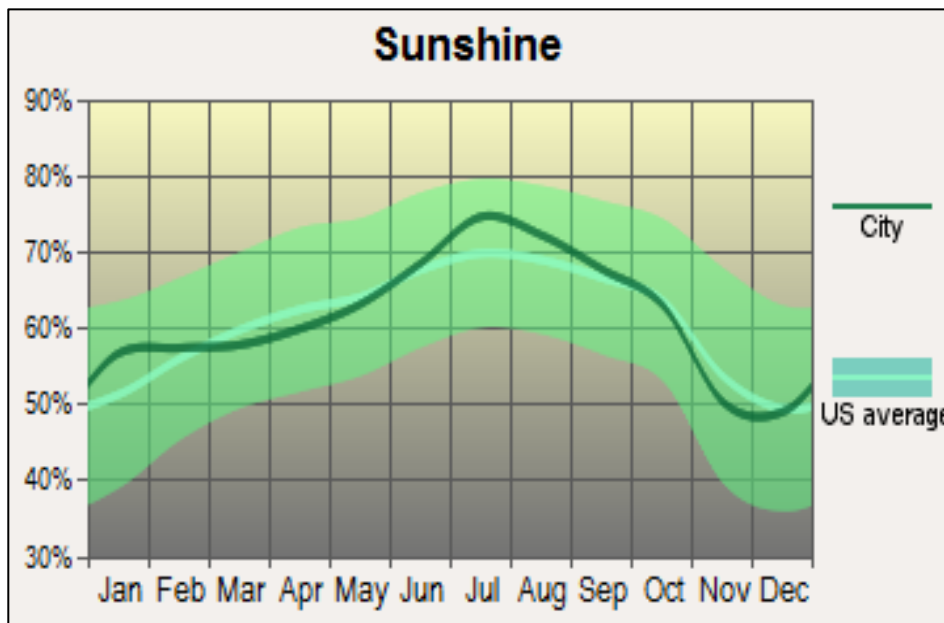
**Notes:**

- [1] All data provided by sPower via "Prevailing Winds Site Average.windog"
- [2] All data presented in milles for period from September 20, 2013 to September 13, 2018
- [3] All data presented at 111.5 magl



**SUNSHINE PROBABILITY DATA**

**Figure 1: Monthly Sunshine Probability for Wagner, South Dakota**



**Table 1: Monthly Sunshine Probability for Wagner, South Dakota**

| Month     | Avg Possible Sunshine |
|-----------|-----------------------|
| January   | 58%                   |
| February  | 58%                   |
| March     | 59%                   |
| April     | 60%                   |
| May       | 63%                   |
| June      | 69%                   |
| July      | 74%                   |
| August    | 72%                   |
| September | 68%                   |
| October   | 65%                   |
| November  | 50%                   |
| December  | 50%                   |

**Notes:**

- [1] Data source: <http://www.city-data.com/city/Wagner-South-Dakota.html>
- [2] Data location: Wagner, South Dakota
- [3] Data in Table 1 estimated by Burns & McDonnell from source data in Figure 1

**GE 3.8-137 POWER CURVE**

| Wind Speed<br>[m/s] | Power<br>[kW] |
|---------------------|---------------|
| 0.0                 | 0             |
| 0.5                 | 0             |
| 1.0                 | 0             |
| 1.5                 | 0             |
| 2.0                 | 0             |
| 2.5                 | 0             |
| 3.0                 | 14            |
| 3.5                 | 88            |
| 4.0                 | 179           |
| 4.5                 | 295           |
| 5.0                 | 434           |
| 5.5                 | 596           |
| 6.0                 | 786           |
| 6.5                 | 1009          |
| 7.0                 | 1269          |
| 7.5                 | 1567          |
| 8.0                 | 1906          |
| 8.5                 | 2280          |
| 9.0                 | 2648          |
| 9.5                 | 2980          |
| 10.0                | 3284          |
| 10.5                | 3567          |
| 11.0                | 3776          |
| 11.5                | 3830          |
| 12.0                | 3830          |
| 12.5                | 3830          |
| 13.0                | 3830          |
| 13.5                | 3830          |
| 14.0                | 3830          |
| 14.5                | 3830          |
| 15.0                | 3830          |
| 15.5                | 3830          |
| 16.0                | 3830          |
| 16.5                | 3830          |
| 17.0                | 3830          |
| 17.5                | 3830          |
| 18.0                | 3830          |
| 18.5                | 3830          |
| 19.0                | 3830          |
| 19.5                | 3830          |
| 20.0                | 3830          |
| 20.5                | 3830          |
| 21.0                | 3830          |
| 21.5                | 3830          |
| 22.0                | 3830          |
| 22.5                | 3830          |
| 23.0                | 3830          |
| 23.5                | 3830          |
| 24.0                | 3830          |
| 24.5                | 3830          |
| 25.0                | 3830          |

**Notes:**

[1] Power curve for air density of 1.16 kg/m<sup>3</sup> and site specific TI band

[2] All data provided by sPower via "Site Specific Power Curve - PCD\_1206271\_PrevailingWind\_3.8-137\_EN\_r01"

# EXHIBIT A3-1

## SHADOW FLICKER RESULTS - SORTED BY RECEPTOR ID - GE3.8-137

| Receptor Name | Easting [m] | Northing [m] | Flicker Duration [hour/year] | Flicker Duration [max minutes/day] | Participating Status | County Name |
|---------------|-------------|--------------|------------------------------|------------------------------------|----------------------|-------------|
| REC-001       | 583,179     | 4,781,949    | 0.00                         | 0                                  | Non-participating    | Hutchinson  |
| REC-002       | 578,731     | 4,782,429    | 0.00                         | 0                                  | Participating        | Hutchinson  |
| REC-003       | 580,507     | 4,783,274    | 0.00                         | 0                                  | Non-participating    | Hutchinson  |
| REC-004       | 582,679     | 4,780,105    | 5.67                         | 27                                 | Non-participating    | Hutchinson  |
| REC-005       | 583,327     | 4,778,397    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-006       | 583,615     | 4,778,695    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-007       | 579,386     | 4,783,172    | 0.00                         | 0                                  | Non-participating    | Hutchinson  |
| REC-008       | 579,365     | 4,780,123    | 11.02                        | 39                                 | Non-participating    | Hutchinson  |
| REC-009       | 582,486     | 4,779,597    | 9.22                         | 38                                 | Non-participating    | Bon Homme   |
| REC-010       | 570,706     | 4,779,233    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-011       | 568,955     | 4,779,050    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-012       | 575,451     | 4,778,870    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-013       | 570,834     | 4,777,924    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-014       | 578,568     | 4,777,265    | 12.22                        | 43                                 | Non-participating    | Bon Homme   |
| REC-015       | 578,579     | 4,777,228    | 12.83                        | 44                                 | Non-participating    | Bon Homme   |
| REC-016       | 569,438     | 4,774,776    | 4.80                         | 27                                 | Participating        | Charles Mix |
| REC-017       | 568,000     | 4,773,684    | 19.87                        | 40                                 | Non-participating    | Charles Mix |
| REC-018       | 575,894     | 4,773,069    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-019       | 568,870     | 4,772,838    | 0.00                         | 0                                  | Participating        | Charles Mix |
| REC-020       | 568,171     | 4,772,373    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-021       | 574,123     | 4,771,642    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-022       | 574,118     | 4,771,913    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-023       | 567,115     | 4,771,132    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-024       | 569,456     | 4,770,886    | 6.20                         | 31                                 | Non-participating    | Charles Mix |
| REC-025       | 582,410     | 4,770,691    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-026       | 582,206     | 4,770,538    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-027       | 569,451     | 4,770,123    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-028       | 578,916     | 4,770,107    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-029       | 567,890     | 4,769,897    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-030       | 574,058     | 4,769,738    | 3.57                         | 25                                 | Non-participating    | Bon Homme   |
| REC-031       | 571,038     | 4,769,100    | 6.43                         | 31                                 | Non-participating    | Charles Mix |
| REC-032       | 579,595     | 4,768,434    | 9.67                         | 45                                 | Participating        | Bon Homme   |
| REC-033       | 574,388     | 4,768,112    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-034       | 575,857     | 4,767,969    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-035       | 568,988     | 4,768,088    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-036       | 574,140     | 4,767,903    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-037       | 580,535     | 4,767,956    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-038       | 569,571     | 4,767,694    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-039       | 575,754     | 4,767,512    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-040       | 575,854     | 4,767,409    | 7.42                         | 34                                 | Non-participating    | Bon Homme   |
| REC-041       | 577,366     | 4,767,429    | 22.70                        | 55                                 | Participating        | Bon Homme   |
| REC-042       | 580,535     | 4,768,650    | 28.00                        | 53                                 | Non-participating    | Bon Homme   |
| REC-043       | 582,314     | 4,767,105    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-044       | 577,582     | 4,766,535    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-045       | 580,460     | 4,766,528    | 18.48                        | 45                                 | Participating        | Bon Homme   |
| REC-046       | 570,892     | 4,766,384    | 46.25                        | 76                                 | Participating        | Charles Mix |
| REC-047       | 576,072     | 4,766,099    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-048       | 575,888     | 4,765,484    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-049       | 579,136     | 4,765,004    | 4.85                         | 27                                 | Non-participating    | Bon Homme   |
| REC-050       | 575,594     | 4,764,878    | 0.00                         | 0                                  | Participating        | Bon Homme   |

# EXHIBIT A3-1

## SHADOW FLICKER RESULTS - SORTED BY RECEPTOR ID - GE3.8-137

| Receptor Name | Easting [m] | Northing [m] | Flicker Duration [hour/year] | Flicker Duration [max minutes/day] | Participating Status | County Name |
|---------------|-------------|--------------|------------------------------|------------------------------------|----------------------|-------------|
| REC-051       | 577,015     | 4,764,806    | 8.20                         | 32                                 | Participating        | Bon Homme   |
| REC-052       | 571,035     | 4,764,976    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-053       | 575,752     | 4,763,554    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-054       | 579,261     | 4,763,509    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-055       | 575,738     | 4,763,383    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-056       | 578,784     | 4,763,423    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-057       | 575,729     | 4,763,021    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-058       | 574,690     | 4,762,906    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-059       | 574,609     | 4,762,765    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-060       | 575,719     | 4,763,759    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-061       | 566,590     | 4,774,005    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-062       | 566,795     | 4,771,446    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-063       | 567,576     | 4,773,523    | 5.02                         | 27                                 | Non-participating    | Charles Mix |
| REC-064       | 568,170     | 4,775,222    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-065       | 568,402     | 4,770,548    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-066       | 569,475     | 4,776,605    | 0.00                         | 0                                  | Participating        | Charles Mix |
| REC-067       | 569,782     | 4,765,374    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-068       | 570,301     | 4,776,152    | 3.13                         | 24                                 | Non-participating    | Charles Mix |
| REC-069       | 570,321     | 4,776,086    | 3.20                         | 24                                 | Non-participating    | Charles Mix |
| REC-070       | 570,931     | 4,767,169    | 8.80                         | 36                                 | Non-participating    | Charles Mix |
| REC-071       | 571,247     | 4,765,598    | 11.72                        | 25                                 | Non-participating    | Charles Mix |
| REC-072       | 571,848     | 4,767,001    | 0.00                         | 0                                  | Participating        | Charles Mix |
| REC-073       | 572,712     | 4,764,371    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-074       | 572,760     | 4,768,610    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-075       | 572,875     | 4,775,184    | 20.17                        | 42                                 | Participating        | Charles Mix |
| REC-076       | 573,024     | 4,775,138    | 33.90                        | 51                                 | Non-participating    | Charles Mix |
| REC-077       | 573,104     | 4,767,559    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-078       | 572,690     | 4,764,270    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-079       | 572,840     | 4,766,532    | 0.00                         | 0                                  | Participating        | Charles Mix |
| REC-080       | 574,527     | 4,771,635    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-081       | 574,606     | 4,772,084    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-082       | 575,265     | 4,775,117    | 8.75                         | 31                                 | Participating        | Bon Homme   |
| REC-083       | 575,384     | 4,771,696    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-084       | 575,460     | 4,773,772    | 4.85                         | 29                                 | Participating        | Bon Homme   |
| REC-085       | 576,210     | 4,770,611    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-086       | 576,538     | 4,765,598    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-087       | 576,971     | 4,770,447    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-088       | 577,660     | 4,765,661    | 5.57                         | 28                                 | Participating        | Bon Homme   |
| REC-089       | 577,747     | 4,768,860    | 24.83                        | 42                                 | Participating        | Bon Homme   |
| REC-090       | 577,878     | 4,764,079    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-091       | 577,916     | 4,763,844    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-092       | 578,532     | 4,767,119    | 3.78                         | 24                                 | Participating        | Bon Homme   |
| REC-093       | 578,576     | 4,778,619    | 20.83                        | 37                                 | Participating        | Bon Homme   |
| REC-094       | 578,515     | 4,776,677    | 12.23                        | 38                                 | Participating        | Bon Homme   |
| REC-095       | 578,804     | 4,764,275    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-096       | 578,828     | 4,768,793    | 22.47                        | 54                                 | Non-participating    | Bon Homme   |
| REC-097       | 578,943     | 4,770,455    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-098       | 579,475     | 4,767,289    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-099       | 579,721     | 4,762,442    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-100       | 580,720     | 4,765,706    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |

# EXHIBIT A3-1

## SHADOW FLICKER RESULTS - SORTED BY RECEPTOR ID - GE3.8-137

| Receptor Name | Easting [m] | Northing [m] | Flicker Duration [hour/year] | Flicker Duration [max minutes/day] | Participating Status | County Name |
|---------------|-------------|--------------|------------------------------|------------------------------------|----------------------|-------------|
| REC-101       | 580,992     | 4,762,541    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-102       | 581,560     | 4,763,175    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-103       | 581,721     | 4,767,420    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-104       | 581,794     | 4,770,382    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-105       | 581,891     | 4,769,063    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-106       | 581,883     | 4,766,985    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-107       | 582,090     | 4,770,568    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-108       | 582,148     | 4,764,102    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-109       | 582,610     | 4,767,583    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-110       | 583,963     | 4,770,430    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-111       | 582,578     | 4,767,332    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-112       | 570,034     | 4,777,429    | 5.37                         | 31                                 | Non-participating    | Charles Mix |
| REC-113       | 580,226     | 4,778,670    | 5.92                         | 31                                 | Participating        | Bon Homme   |
| REC-114       | 580,644     | 4,779,066    | 32.80                        | 46                                 | Participating        | Bon Homme   |
| REC-115       | 580,813     | 4,776,798    | 1.73                         | 17                                 | Participating        | Bon Homme   |
| REC-116       | 581,676     | 4,775,654    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-117       | 579,368     | 4,775,404    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-118       | 580,095     | 4,784,337    | 0.00                         | 0                                  | Non-participating    | Hutchinson  |
| REC-119       | 581,868     | 4,783,246    | 0.00                         | 0                                  | Non-participating    | Hutchinson  |
| REC-120       | 582,411     | 4,781,467    | 0.00                         | 0                                  | Non-participating    | Hutchinson  |
| REC-121       | 582,256     | 4,783,055    | 0.00                         | 0                                  | Non-participating    | Hutchinson  |
| REC-122       | 582,261     | 4,777,793    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-123       | 581,461     | 4,785,646    | 0.00                         | 0                                  | Non-participating    | Hutchinson  |
| REC-124       | 577,505     | 4,781,336    | 0.00                         | 0                                  | Non-participating    | Hutchinson  |
| REC-125       | 580,996     | 4,773,976    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-126       | 580,916     | 4,774,830    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-127       | 581,474     | 4,775,076    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-128       | 581,468     | 4,774,997    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-129       | 576,816     | 4,779,814    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-130       | 567,502     | 4,781,060    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-131       | 568,850     | 4,781,446    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-132       | 570,408     | 4,783,811    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-133       | 570,806     | 4,783,497    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-134       | 570,845     | 4,782,153    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-135       | 573,665     | 4,780,153    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-136       | 579,049     | 4,772,150    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-137       | 579,104     | 4,772,978    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-138       | 573,105     | 4,772,224    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-139       | 569,781     | 4,772,134    | 6.15                         | 26                                 | Non-participating    | Charles Mix |
| REC-140       | 580,689     | 4,768,952    | 5.27                         | 29                                 | Non-participating    | Bon Homme   |
| REC-141       | 577,130     | 4,782,270    | 0.00                         | 0                                  | Non-participating    | Hutchinson  |
| REC-142       | 584,340     | 4,769,093    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-143       | 582,522     | 4,766,643    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-144       | 582,964     | 4,764,514    | 0.00                         | 0                                  | Non-participating    | Bon Homme   |
| REC-145       | 568,186     | 4,765,929    | 0.00                         | 0                                  | Non-participating    | Charles Mix |
| REC-146       | 576,221     | 4,771,527    | 0.00                         | 0                                  | Participating        | Bon Homme   |
| REC-147       | 575,778     | 4,770,361    | 15.03                        | 43                                 | Participating        | Bon Homme   |

**SHADOW FLICKER RESULTS - SORTED BY RECEPTOR ID - GE3.8-137**

| <b>Receptor Name</b> | <b>Easting [m]</b> | <b>Northing [m]</b> | <b>Flicker Duration [hour/year]</b> | <b>Flicker Duration [max minutes/day]</b> | <b>Participating Status</b> | <b>County Name</b> |
|----------------------|--------------------|---------------------|-------------------------------------|---|-----------------------------|--------------------|
| REC-148              | 568,806            | 4,770,128           | 0.00                                | 0   | Non-participating           | Charles Mix        |
| REC-149              | 567,763            | 4,773,526           | 7.35                                | 31  | Non-participating           | Charles Mix        |

**Notes:**

- [1] All coordinates presented in UTM NAD83 Zone 14N (meters)
- [2] All results based on GE3.8-137 layout
- [3] Obstacles modeled for certain receptor locations noted in version 5c of the full report dated 20180529