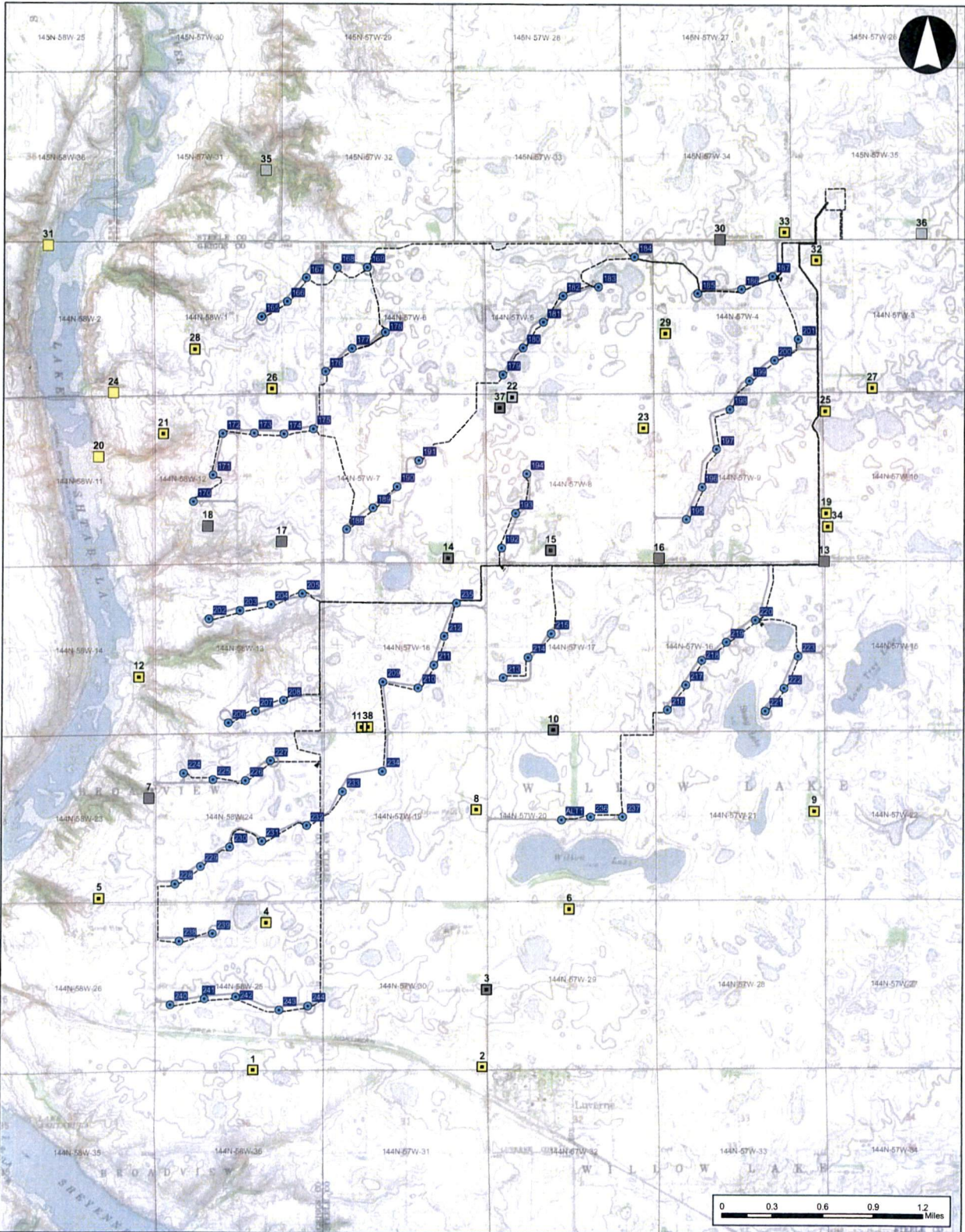


Results of Shadow Flicker Impact Analysis for the Luverne Wind Farm

Residence ID	FSRStatus	StbkStats	Shadow, Worst Case (hrs/yr)	Potential Shadow Days, (days/yr)	Max Shadow hours per day, (hrs/day)	Shadow, Expected Values (hrs/yr)
26	Active, Occupied	Occupied	142:45:00	197	1:09:00	46:36:00
28	Active, Occupied	Occupied	57:37:00	159	0:39:00	21:25:00
23	Active, Occupied	Occupied	53:30:00	202	0:27:00	18:56:00
21	Active, Occupied	Occupied	53:22:00	125	0:41:00	18:32:00
17	N/A	Unoccupied	53:10:00	111	0:49:00	21:42:00
29	Active, Occupied	Occupied	50:18:00	206	0:25:00	19:12:00
4	Active, Occupied	Occupied	46:34:00	149	0:37:00	16:27:00
7	N/A	Unoccupied	44:41:00	133	0:35:00	16:45:00
15	Active, Vacant	Unoccupied	44:00:00	132	0:48:00	16:11:00
14	Inactive, Vacant	Unoccupied	43:49:00	130	0:53:00	16:53:00
5	Active, Vacant?	Occupied	41:14:00	133	0:38:00	15:37:00
12	Active, Occupied	Occupied	38:25:00	185	0:20:00	13:44:00
32	Active, Occupied	Occupied	38:13:00	65	0:57:00	12:49:00
25	Active, Occupied	Occupied	35:50:00	134	0:26:00	14:13:00
30	N/A	Unoccupied	35:43:00	106	0:33:00	11:43:00
11	Active, Occupied	Occupied	33:37:00	134	0:31:00	13:07:00
13	N/A	Unoccupied	29:49:00	129	0:27:00	8:46:00
38	Active, Occupied	Occupied	28:13:00	118	0:35:00	10:55:00
8	Active, Occupied	Occupied	24:59:00	96	0:30:00	10:16:00
10	Active, Occupied?	Unoccupied	21:21:00	107	0:25:00	9:01:00
24	N/A	Occupied	19:54:00	89	0:27:00	6:38:00
33	Active, Occupied	Occupied	16:59:00	79	0:20:00	4:30:00
20	N/A	Occupied	16:21:00	70	0:20:00	6:15:00
19	Active, Vacant?	Occupied	15:37:00	87	0:16:00	6:37:00
22	Abandoned, Bin Site	N/A	15:25:00	92	0:19:00	4:48:00
37	Active, Vacant	Unoccupied	15:17:00	74	0:22:00	4:06:00
27	Active, Occupied	Occupied	14:14:00	71	0:21:00	5:44:00
16	N/A	Unoccupied	13:30:00	74	0:29:00	4:18:00
18	N/A	Unoccupied	11:02:00	58	0:19:00	3:37:00
34	Active, Vacant?	Occupied	6:33:00	40	0:15:00	2:41:00
35	N/A	N/A	5:57:00	32	0:14:00	1:45:00
36	N/A	N/A	1:46:00	15	0:11:00	0:35:00
1	Active, Occupied	Occupied	0:00:00	0	0:00:00	0:00:00
2	Active, Occupied	Occupied	0:00:00	0	0:00:00	0:00:00
3	Active, N/A	Unoccupied	0:00:00	0	0:00:00	0:00:00
6	Active, Occupied	Occupied	0:00:00	0	0:00:00	0:00:00
9	Active, Occupied	Occupied	0:00:00	0	0:00:00	0:00:00
31	N/A	Occupied	0:00:00	0	0:00:00	0:00:00













ASHTABULA WIND II, LLC
LVERNE WIND FARM
ACOUSTIC ASSESSMENT
 STEELE AND GRIGGS COUNTIES, NORTH DAKOTA

FIGURE 1. PROJECT LAYOUT

 JUNE 2009

Legend

-  Wind Turbine Generator (siteplan layout dated 5/22/09)
-  Receptor Identified in FSR
-  Occupied Receptor
-  Unoccupied Receptor
-  Unknown Occupancy Status
-  Collection Line (5/22/09)
-  Access Road (5/22/09)
-  Township-Range-Section

