



Date: September 22, 2018
To: Bridget Canty
From: Ed Bowers
Subject: Prevailing Wind Park Project, Potential House Field Review

Prevailing Wind Park, LLC engaged Burns & McDonnell (Burns) to conduct an independent review of residences within the Prevailing Wind Park project area (Project Area) and within a half-mile of the Project Area (Verification Area). Prevailing Wind Park, LLC directed Burns to evaluate whether there were any occupied residences in the Verification Area that were not included in the 137 occupied residences shown in the Application for a Facility Permit in South Dakota Public Utilities Commission Docket EL18-026. This memorandum describes the verification process and the results of our investigation.

Burns first reviewed aerial imagery to identify potential occupied residences within the Verification Area. Through that process, Burns identified 28 structures that could be residences. The 28 were assigned house numbers XX-1 through XX-28.

The locations of these 28 structures were field reviewed on September 17 and 18, 2018 by Angie Woehler, assistant environmental scientist and Ed Bowers, environmental scientist.

We drove by each of the identified 28 potential residences and visually observed the general appearance for signs that the structure could be considered occupied. Signs of potential occupation included the presence of a mailbox, visible electric or other utility service to the house, condition of the driveway or access to the house (maintained versus tall vegetation), and the overall condition of the house.

Houses with some signs of occupation, but that displayed evidence of long-term structural and property decline (broken out windows, holes and damage to roof, overgrown vegetation, etc.) were classified as non-occupied. In cases where visual observation of the potential house was restricted, we relied upon visual signs to assess whether the house was occupied. In cases where there were some signs of occupancy as well as abandonment, the house was presumed to be occupied.

We recorded notes about our observations and took a photo(s) of each of the houses to support our classification decision. The location and occupation status for each house was also recorded into a geographic information system (GIS) geodatabase using a global positioning system (GPS) enabled laptop computer with ArcGIS 10.4 software. Recording GIS data provides a record of each house that can be viewed and evaluated in relationship to other resources in the project area, particularly the proximity to proposed wind turbines. Using GIS

with GPS also provided us a means of efficiently navigating to each house while documenting our search area.

As part of our field work reviewing the 28 structures, we also looked for any discrepancies in the status of nearby residences previously identified in the Application. No discrepancies were observed.

During the process of classifying the 28 identified structures, we observed an additional potential residence, bringing the total potential residences to 29. The structure had not been identified as a potential residence in the desktop review due to its general appearance.

In the field, we observed a second structure next to XX-22 that appeared to have electric service connected to an electric meter, had what looked like a newer roof installed, and gave the overall appearance it could be occupied. Rather than change the location of XX-22 to this structure, we added it to the geodatabase as XX-22A, and classified it as occupied. We also recorded the location of a few structures that we observed, which were not part of the prior study and not included in the 28 potential houses. These were recorded into the geodatabase in case they are later observed on aerials and their status is brought into question. None of these additional structures was determined to be an occupied residence.

Of the 29 structures evaluated, we classified 20 houses as non-occupied and nine structures as occupied residences. A spreadsheet is attached that provides the house numbers we observed matched with the reference numbers of photos taken of the house and the field notes recorded during our observation.

Ed F. Bowers

A handwritten signature in cursive script that reads "Edward L. Bowers". The signature is written in black ink and is positioned below the typed name.

Enclosure: House Status Classification Spreadsheet

House Number	Photo Number	Field Notes	Occupation Status	Property Status	Latitude_DMS	Longitude_DMS	Date Field Classified
XX-01	Photo 032	Mailbox and gate (locked) both look newer. Electricity present, No access to house, but appears on aerial layer. Landowner had contacted project team prior to field visit	Occupied	Non-participating	43d 5' 55.232" N	98d 8' 32.940" W	18-Sep-18
XX-02	Photo 028 & 029	No mailbox, no electric, broken windows	Non-occupied	Non-participating	43d 11' 1.833" N	98d 8' 40.131" W	18-Sep-18
XX-03	Photos 006 & 007	Has electric, several old cars, gate locked. Does not appear to be occupied	Non-occupied	Non-participating	43d 10' 35.127" N	98d 3' 6.224" W	17-Sep-18
XX-04	Photo 005	Has AC unit, satellite dish, electric, no mailbox. Looks livable	Occupied	Non-participating	43d 11' 21.356" N	98d 3' 2.897" W	17-Sep-18
XX-05	Photo 003	House gone, barn present. No mailbox, no electric	Non-occupied	Non-participating	43d 12' 5.113" N	98d 0' 40.937" W	17-Sep-18
XX-06	Photo 027	Dog in yard, Overall looks occupied	Occupied	Non-participating	43d 4' 11.480" N	97d 57' 50.740" W	17-Sep-18
XX-07	Photo 025	No mailbox, rope gate, no access but driveway mowed and clear, has electric and newer vehicles outside	Occupied	Non-participating	43d 2' 52.807" N	97d 59' 12.417" W	17-Sep-18
XX-08	Photos 023 & 024	Satellite dish but very overgrown, no mailbox, damage to roof visible	Non-occupied	Non-participating	43d 2' 27.827" N	97d 59' 26.585" W	17-Sep-18
XX-09	Photo 022	Chickens and cats in yard, electric, looks occupied	Occupied	Non-participating	43d 1' 43.601" N	97d 58' 54.005" W	18-Sep-18
XX-10	Photo 014	Boarded_up windows, overgrown vegetation on driveway, does not appear occupied	Non-occupied	Non-participating	43d 1' 32.372" N	98d 4' 50.731" W	17-Sep-18
XX-11	Photo 041	Satellite dish, house has decorations for autumn and appears well kept and occupied	Occupied	Non-participating	43d 2' 34.786" N	98d 9' 46.298" W	18-Sep-18
XX-12	Photo 031	No mailbox, no electric, damage to roof, locked gate	Non-occupied	Non-participating	43d 7' 23.940" N	98d 10' 14.558" W	18-Sep-18
XX-13	Photo 008	No mailbox, gate open, but no sign of traffic on driveway, broken windows	Non-occupied	Leased	43d 8' 11.171" N	98d 4' 12.108" W	17-Sep-18
XX-14	Photo 009	Has electric, no mailbox, gate locked with "No Trespassing", Looks like frequently visited, but not occupied	Non-occupied	Leased	43d 8' 3.304" N	98d 4' 2.772" W	17-Sep-18
XX-15	Photo 039	No mailbox, tall vegetation on driveway, roof damaged	Non-occupied	Leased	43d 5' 5.351" N	98d 6' 15.889" W	18-Sep-18
XX-16	Photo 010	Has long driveway, has electric, satellite dish, dawn-to-dusk light, propane tank	Occupied	Leased	43d 5' 33.462" N	98d 3' 48.488" W	17-Sep-18
XX-17	Photos 037 & 038	No mailbox, but has electric. Damaged and broken windows	Non-occupied	Leased	43d 4' 49.482" N	98d 6' 36.828" W	18-Sep-18
XX-18	Photo 011	Has mailbox, looks livable	Occupied	Leased	43d 4' 55.837" N	98d 4' 8.622" W	17-Sep-18
XX-19	Photo 040	Broken glass, overgrown vegetation	Non-occupied	Leased	43d 2' 43.987" N	98d 5' 21.487" W	18-Sep-18

House Number	Photo Number	Field Notes	Occupation Status	Property Status	Latitude_DMS	Longitude_DMS	Date Field Classified
XX-20	Photos 001 & 002	Appears abandoned, has electric, but no sign of life	Non-occupied	Leased	43d 11' 44.326" N	97d 59' 33.618" W	17-Sep-18
XX-21	Photo 030	No gate, mailbox, electric. Broken windows	Non-occupied	Non-participating	43d 10' 19.688" N	98d 9' 57.741" W	18-Sep-18
XX-22	Photos 032- 035	Gate locked, no mailbox. House originally identified is overgrown with trees and considered unoccupied.	Non-occupied	Non-participating	43d 4' 51.192" N	98d 9' 18.526" W	18-Sep-18
XX-22A	Photos 036	Located next to potential house XX.22. Gate was locked (In Google Earth photo there is no gate and a mailbox is present at end of driveway). Has newer roof, has electric meter visible on side of building, driveway appears maintained and used (no tall grass). Could not gain closer view, so considered occupied	Occupied	Non-participating	43d 11' 47.88" N	98d 1' 15.89" W	18-Sep-18
XX-23	Photo 026	Has mailbox, but overgrown with vegetation, windows broken. House looks very fragile	Non-occupied	Non-participating	43d 4' 52.288" N	97d 59' 19.726" W	17-Sep-18
XX-24	Photos 012 & 013	Overgrown vegetation, no mailbox, no electric	Non-occupied	Non-participating	43d 3' 57.850" N	98d 4' 12.042" W	17-Sep-18
XX-25	Photo 016 & 017	Gate locked and way back from road, no access, no mailbox, no electric	Non-occupied	Leased	43d 2' 53.592" N	98d 3' 15.406" W	17-Sep-18
XX-26	Photo 018 & 019	Overgrown vegetation, broken windows	Non-occupied	Leased	43d 2' 17.864" N	98d 0' 49.813" W	17-Sep-18
XX-27	Photos 020 & 021	Locked gate, no mail box, no access	Non-occupied	Leased	43d 1' 36.832" N	98d 0' 44.229" W	17-Sep-18
XX-28	Photo 015	House and surrounding trees appear to have been removed. Structure in background shows up behind house on aerials and is not believed to be occupied either	Non-occupied	Non-participating	43d 1' 30.692" N	98d 4' 2.560" W	17-Sep-18