

## Technical Memorandum

**To:** Crowned Ridge Wind I, LLC

**From:** SWCA Environmental Consultants

**Date:** November 28, 2018

**Re:** **Crowned Ridge I Raptor Nest Aerial Surveys / SWCA Project No. 44511**

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### INTRODUCTION

Crowned Ridge Wind, LLC, an indirect, wholly owned subsidiary of NextEra Energy Resources, LLC (NEER), plans to develop an approximately 300-megawatt wind facility known as the Crowned Ridge I Wind Energy Facility (the project) in Grant and Codington Counties, South Dakota (see project boundary, Figure 1). SWCA Environmental Consultants (SWCA) completed raptor nest aerial surveys for the project during 2017 and 2018. At the time of the 2017 survey, the study area included approximately 69,433 acres (ac) (28,099 hectares [ha]) (Figure 1). At the time of the 2018 survey, the study area as provided to SWCA on March 20, 2018, included approximately 57,126 ac (23,118 ha) (Figure 2).

SWCA performed two raptor nest aerial surveys in 2017 and one in 2018 to identify nesting raptors and to provide NEER spatial and species information for use during its turbine siting process to minimize the potential for impacts during construction and operation. SWCA completed surveys on April 5 and 6, 2017, June 8 and 9, 2017, and April 25 and 26, 2018. All raptor nests were surveyed within the study areas and a 2-mile (mi) (3.2-kilometer [km]) buffer. The study areas plus a 10-mi (16-km) buffer were surveyed to search specifically for eagle nests. SWCA used fixed-wing aerial survey methods following recommendations contained in the U.S. Fish and Wildlife Service Land-Based Wind Energy Guidelines<sup>1</sup> and Eagle Conservation Plan Guidance.<sup>2</sup>

### METHODS

Two avian biologists and an experienced wildlife survey pilot conducted the raptor nest aerial surveys in a Cessna 172. The first nest survey in 2017 was conducted April 5 and 6 just prior to leaf-out to provide the best opportunity for nest detection. The second 2017 nest survey was conducted on June 8 and 9 (near most eagle and other large raptor fledgling dates) to determine activity and productivity, if possible, of previously identified nests. Nest surveys in 2018 were completed April 25 and 26 to better determine status during a single survey period and avoid visibility issues due to canopy closure encountered during 2017. SWCA documented all raptor nests identified within the study area and associated 2-mi (3.2-km) buffer and all eagle nests identified within the study area and associated 10-mi (16-km) buffer. The study

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<sup>1</sup> U.S. Fish and Wildlife Service. 2012. *Land-Based Wind Energy Guidelines*. Wind Turbine Guidelines Advisory Committee. Washington, D.C.: U.S. Department of the Interior, U.S. Fish and Wildlife Service.

<sup>2</sup> U.S. Fish and Wildlife Service. 2013. *Eagle Conservation Plan Guidance, Module 1 – Land-Based Wind Energy, Version 2*. Washington, D.C.: U.S. Department of the Interior, U.S. Fish and Wildlife Service, Division of Migratory Bird Management.

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area and 2-mi (3.2-km) buffer survey were conducted by flying pre-established linear north–south transects at 0.5-mi (800-m) intervals at an altitude of 300 to 700 feet (ft) (91–213 meters [m]) above ground level, depending on terrain and flight safety issues. Transects within the 2-mi buffer were pre-established in ArcGIS software and loaded in a global positioning system (GPS) unit for guidance during the survey. The study area and 10-mi (16-km) buffer survey were conducted by flying roaming, east–west transects at 1.0- to 3.5-mi (1.6–5.6-km) intervals across the entire survey area at an altitude of 300 to 700 ft above ground level, with a focus on suitable eagle nesting habitat (Figures 3 and 4).

SWCA identified suitable eagle nesting habitat during a preliminary ArcGIS software desktop analysis to guide the nest survey. Additional areas of suitable eagle nesting habitat identified during the survey also were investigated for presence of eagle nests. Characteristics of suitable eagle nesting habitat include wooded riparian corridors, utility structures, and stands of large trees capable of supporting an eagle nest. Potential nest locations detected within the 2-mi (3.2-km) and 10-mi (16-km) buffers were observed until raptor nest status (nest/no nest, active/inactive, etc.) could be confirmed.

## DATA ANALYSIS

Data recorded at each raptor nest location included nest substrate, condition (i.e., good, fair, or poor), and status (i.e., occupied or unoccupied); raptor species using occupied nests; number of adults, eggs, and/or nestlings, if observed; behavior (e.g., incubating, perched at nest, flying nearby); and GPS location. A summary of all nests detected is presented in the section below. All eagle nest data recorded during the raptor nest aerial survey are presented in Attachments 1 and 2. See Figure 5 for detected raptor nest locations in the 2-mi buffer during each survey year, and Figure 6 for eagle nest locations detected in the 10-mi buffer during each survey year.

Though all nests observed during the aerial nest survey were documented, it is possible that nests of certain species (e.g., American kestrel [*Falco sparverius*], prairie falcon [*Falco mexicanus*], and northern harrier [*Circus cyaneus*]) were not located due to the nature of aerial surveys. This is primarily due to the height and speed at which aerial surveys are conducted, and because of the nest structure and preferred substrate of these species (i.e., built in small cavities along rock outcrops or in trees, or built on the ground nestled in tall grasslands).

## RESULTS

### 2017 Non-Eagle Raptor Nests

The April 2017 aerial raptor nest surveys identified 22 non-eagle raptor nest structures within the 2-mi buffer (Figure 5). Eight of these nests were considered occupied due to the presence of an adult in incubation position; five of these nests were located within the study area (Table 1). Fourteen nests were considered unoccupied due to a lack of an attending/incubating adult, nestlings, or eggs at the time of the survey. The non-eagle raptor nests were of medium size, built with sticks, and located in small- to medium-sized deciduous trees. Given that the nest survey was conducted just prior to leaf-out, it was difficult to determine the exact species of a nest tree. The species composition of the occupied non-eagle raptor nests consisted of one great-horned owl (*Bubo virginianus*), three red-tailed hawks (*Buteo jamaicensis*), and one Swainson's hawk (*Buteo swainsoni*). The sixteen unoccupied nests were consistent in size and composition to those made by a *Buteo* species.

Visibility of the raptor nests was extremely restricted due to dense foliage (i.e., deciduous trees had fully leafed out). As such no new nests not already documented during April surveys were discovered during the June 2017 nest status survey. Only eagle nests located during the April survey were observed from the aircraft during the June survey (discussed below).

## 2018 Non-Eagle Raptor Nests

The April 2018 aerial raptor nest survey identified 47 non-eagle raptor nest structures within the 2-mi buffer (Figure 5). Sixteen nests were considered occupied due to the presence of an adult in incubation position; eight of these nests were located within the study area (Table 1). Thirty-one nests were considered unoccupied due to a lack of an attending/incubating adult, nestlings, or eggs at the time of the survey. Of the 16 active non-eagle raptor nests, one (No. 122-2018, red-tailed hawk nest) was located within the 2-mi buffer of *both* the Crowned Ridge I and Crowned Ridge II study areas. The non-eagle raptor nests were of medium size, built with sticks, and located in small- to medium-sized deciduous trees. Given that the nest survey was conducted just prior to leaf-out, it was difficult to determine the exact species of a nest tree. The species composition of occupied non-eagle raptor nests consisted of three great-horned owl nests and nine red-tailed hawk nests. The 31 unoccupied nests were consistent in size and composition to those made by a *Buteo* species.

**Table 1. Occupied Non-Eagle Raptor Nests within the Study Area and 2-mi Buffer**

| Nest No.                 | Nesting Species  | Nest Condition | Nest Contents    | Location          | Coordinates           |
|--------------------------|------------------|----------------|------------------|-------------------|-----------------------|
| <b>2017 Nest Surveys</b> |                  |                |                  |                   |                       |
| 52-2017                  | Red-tailed hawk  | Good           | Incubating adult | Within study area | 45.1365 N, -96.9746 W |
| 34-2017                  | Great-horned owl | Good           | Incubating adult | Within study area | 45.0240 N, -96.9853 W |
| 47-2017                  | Red-tailed hawk  | Good           | Incubating adult | Within study area | 45.0598 N, -96.9681 W |
| 48-2017                  | Red-tailed hawk  | Good           | Incubating adult | Within study area | 45.0788 N, -97.0094 W |
| 49-2017                  | Red-tailed hawk  | Good           | Incubating adult | Within study area | 45.0637 N, -97.0019 W |
| 06-2017                  | Red-tailed hawk  | Good           | Incubating adult | 2-mi buffer       | 45.1178 N, -96.7304 W |
| 50-2017                  | Red-tailed hawk  | Good           | Incubating adult | 2-mi buffer       | 45.1745 N, -97.0048 W |
| 51-2017                  | Swainson's hawk  | Good           | Incubating adult | 2-mi buffer       | 45.1749 N, -96.9806 W |
| <b>2018 Nest Surveys</b> |                  |                |                  |                   |                       |
| 33-2018                  | Red-tailed hawk  | Good           | Incubating adult | Within study area | 45.0446 N, -96.9510 W |
| 34-2018                  | Red-tailed hawk  | Good           | Incubating adult | Within study area | 45.0562 N, -96.9345 W |
| 134-2018                 | Great-horned owl | Good           | Incubating adult | Within study area | 45.1063 N, -96.8274 W |
| 137-2018                 | Red-tailed hawk  | Good           | Incubating adult | Within study area | 45.0447 N, -96.8213 W |
| 139-2018                 | Great-horned owl | Good           | Incubating adult | Within study area | 45.1427 N, -96.8053 W |
| 142-2018                 | Red-tailed hawk  | Good           | Incubating adult | Within study area | 45.1419 N, -96.7969 W |
| 145-2018                 | Red-tailed hawk  | Good           | Incubating adult | Within study area | 45.0948 N, -96.7877 W |
| 152-2018                 | Red-tailed hawk  | Good           | Incubating adult | Within study area | 45.1682 N, -96.7754 W |
| 80-2018                  | Red-tailed hawk  | Good           | Incubating adult | 2-mi buffer       | 45.0225 N, -97.0363 W |
| 82-2018                  | Great-horned owl | Good           | Incubating adult | 2-mi buffer       | 45.1032 N, -96.9498 W |
| 96-2018                  | Red-tailed hawk  | Good           | Incubating adult | 2-mi buffer       | 45.0874 N, -97.0615 W |
| 97-2018                  | Red-tailed hawk  | Good           | Incubating adult | 2-mi buffer       | 45.0335 N, -97.0145 W |
| 122-2018                 | Red-tailed hawk  | Good           | Incubating adult | 2-mi buffer       | 45.0032 N, -96.8694 W |
| 141-2018                 | Great-horned owl | Good           | Incubating adult | 2-mi buffer       | 45.0195 N, -96.8057 W |
| 158-2018                 | Red-tailed hawk  | Good           | Incubating adult | 2-mi buffer       | 45.1538 N, -96.7554 W |
| 160-2018                 | Red-tailed hawk  | Good           | Incubating adult | 2-mi buffer       | 45.1030 N, -96.7440 W |

## 2017 Bald Eagle Nests

No bald eagle nests were observed within the study area during 2017 surveys. Two occupied bald eagle (*Haliaeetus leucocephalus*) nests were observed within the 2-mi buffer (Table 2; Figure 6). The two

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occupied bald eagle nests were identified as such due to the presence of an adult in incubation position. The detected eagle nests within the 2-mi buffer were found in medium- to large-sized eastern cottonwood (*Populus deltoides*) trees approximately 0.10 mi (0.16 km), and approximately 1.6 mi (2.6 km) outside of the study area. No bald eagle nests were identified within the 10-mi buffer (outside of the 2-mi buffer [Figure 6]) except those identified within the 2-mi buffer of the Crowned Ridge II study area.

No new nests not already documented during April surveys were discovered during the June 2017 survey. Of the two active bald eagle nests observed in April, both were still active and contained one eaglet each and observations of a nearby adult were recorded.

## **2018 Bald Eagle Nests**

No bald eagle nests were observed within the study area during 2018 surveys. Two occupied bald eagle nests and one (likely) unoccupied eagle nest were observed within the 2-mi buffer (Table 2 and Figure 6). The two occupied bald eagle nests were identified as such due to the presence of an adult in incubation position. Unoccupied Nest No. 87-2018 was the same as occupied Nest No. 42-2017 identified during 2017 surveys. Occupied Nest No. 04-2018 was the same as occupied Nest No. 05-2017 identified during 2017 surveys. Eagle Nest No. 124-2018 and Nest No. 87-2018 were in the 2-mi buffer of both the Crowned Ridge I and Crowned Ridge II study areas.

Three occupied bald eagle nests were identified within the 10-mi buffer (outside the 2-mi buffer) (Figure 6, Table 3). Occupied Nest No. 89-2018 appears to be in the same territory as unoccupied (destroyed) Nests No. 43-2017 and No. 45-2017 identified during 2017 surveys. The remaining two nests identified within the 10-mi buffer during the 2018 survey were previously undetected and/or new nest structures. Given that the nest survey was conducted just prior to leaf-out, it was difficult to determine the exact species of a nest tree. Bald eagle nests located within the 10-mi buffer of the Crowned Ridge I study area and within the 2-mi buffer of Crowned Ridge II were not included in this analysis (see *Crowned Ridge II Aerial Raptor Nest Surveys Technical Memorandum*).

**Table 2. Bald Eagle Nests within the 2-mi Buffer (and Outside the Study Area)**

| Nest No. | Survey Year | Status     | Nest Condition     | Nest Contents    | Nest Coordinates      |
|----------|-------------|------------|--------------------|------------------|-----------------------|
| 05-2017* | 2017        | Occupied   | Sticks – intact    | 1 nestling       | 45.1172 N, -96.9126 W |
| 42-2017† | 2017        | Occupied   | Sticks – intact    | 1 nestling       | 45.0236 N, -96.8553 W |
| 04-2018* | 2018        | Occupied   | Sticks – excellent | Incubating adult | 45.1172 N, -96.9126 W |
| 87-2018† | 2018        | Unoccupied | Excellent          | Empty            | 45.0238 N, -96.8553 W |
| 124-2018 | 2018        | Occupied   | Sticks – excellent | Incubating adult | 44.7947 N, -96.9330 W |

\* Indicates same nest site between years

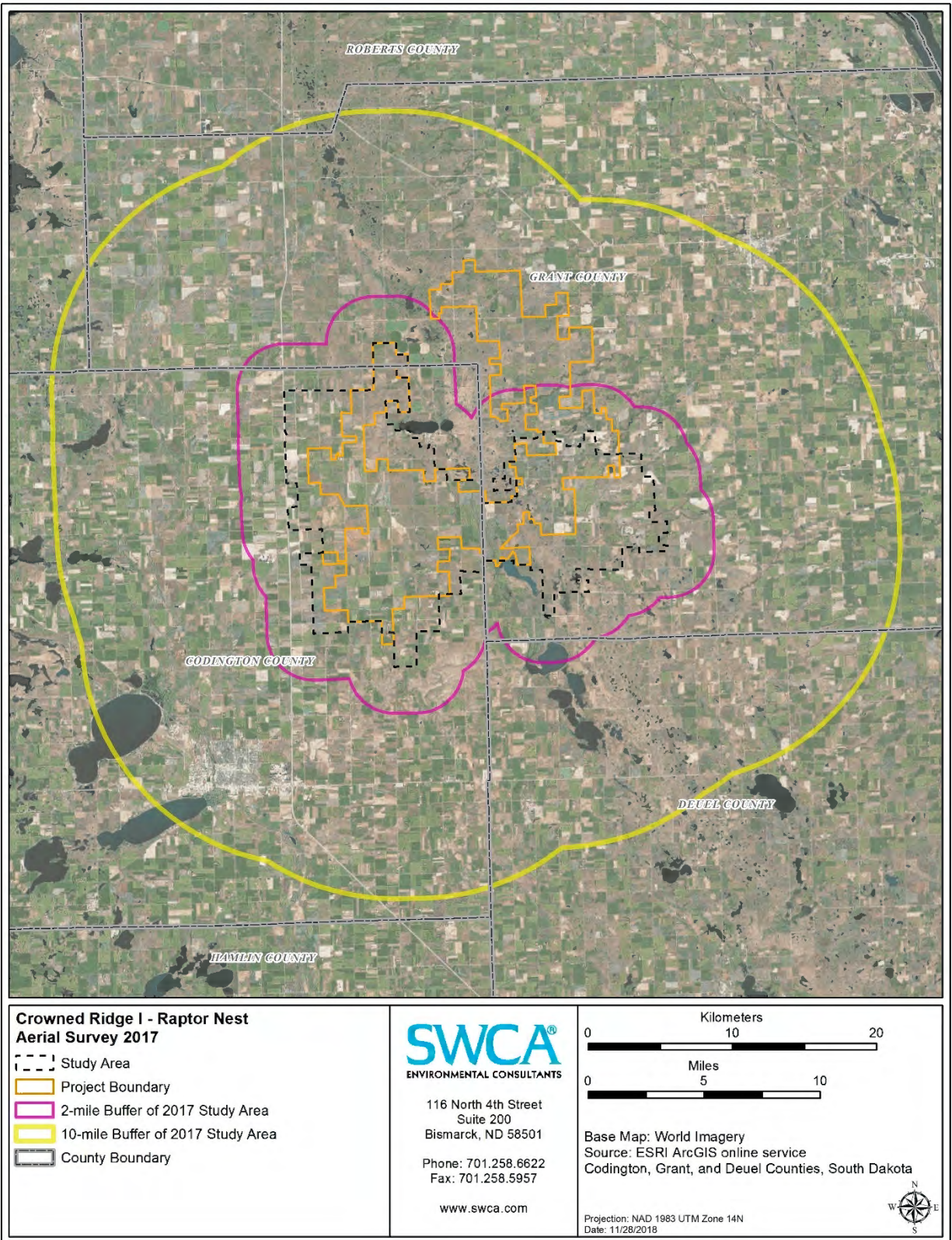
† Indicates same nest site between years

**Table 3. Bald Eagle Nests within the 10-mi Buffer (and Outside the Study Area and 2-mi Buffer)**

| Nest No.  | Survey Year | Status   | Nest Condition | Nest Contents    | Nest Coordinates      |
|-----------|-------------|----------|----------------|------------------|-----------------------|
| 89-2018   | 2018        | Occupied | Excellent      | 1 nestling       | 45.2750 N, -97.0030 W |
| 93-2018*  | 2018        | Occupied | Excellent      | Incubating adult | 45.2710 N, -96.5420 W |
| 163-2018* | 2018        | Occupied | Excellent      | Incubating adult | 45.0313 N, -97.2456 W |

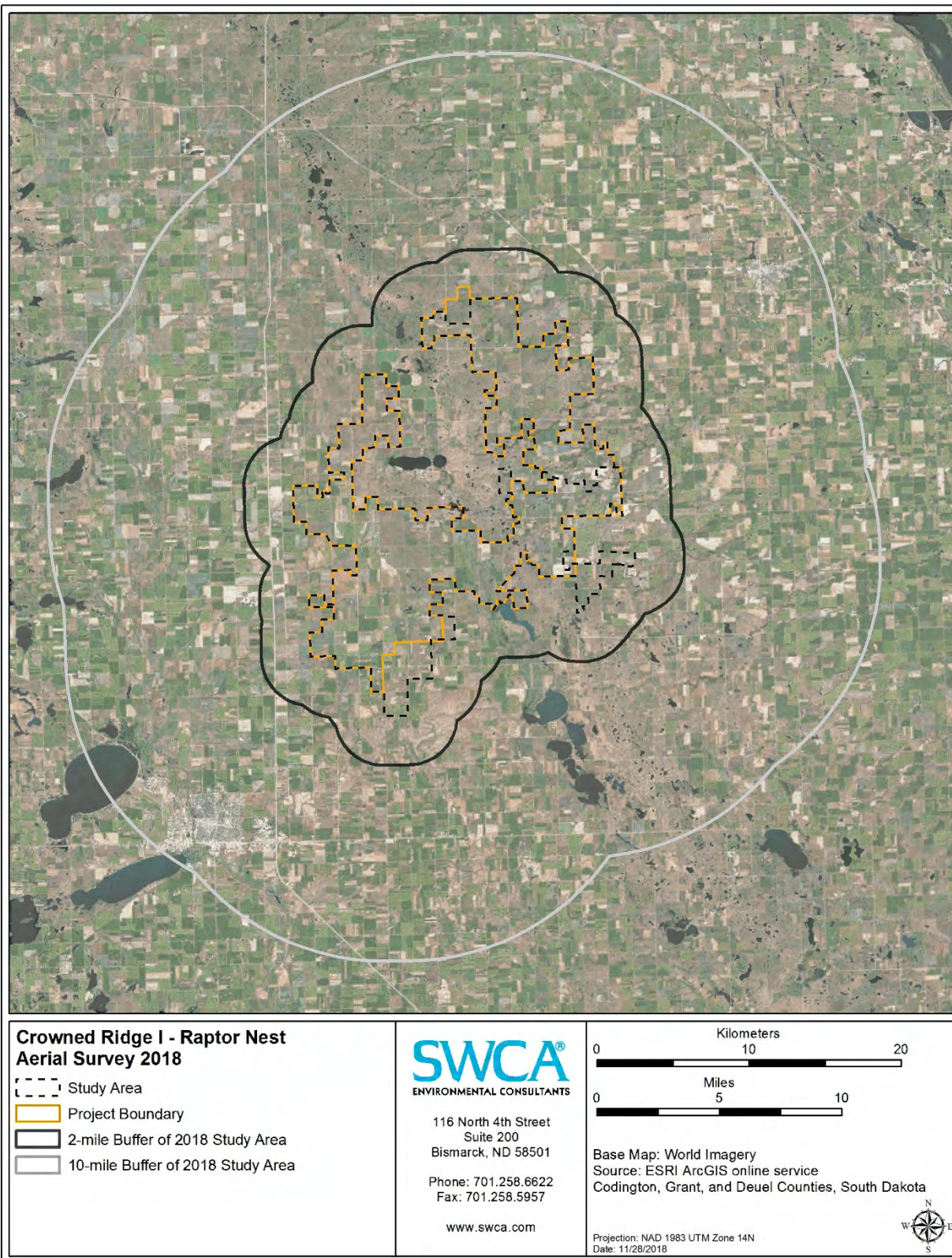
\* Located 1.3 to 5.8 kilometers outside of 10-mi (16-km) buffer but on waterways that cross the study area 10-mi buffer





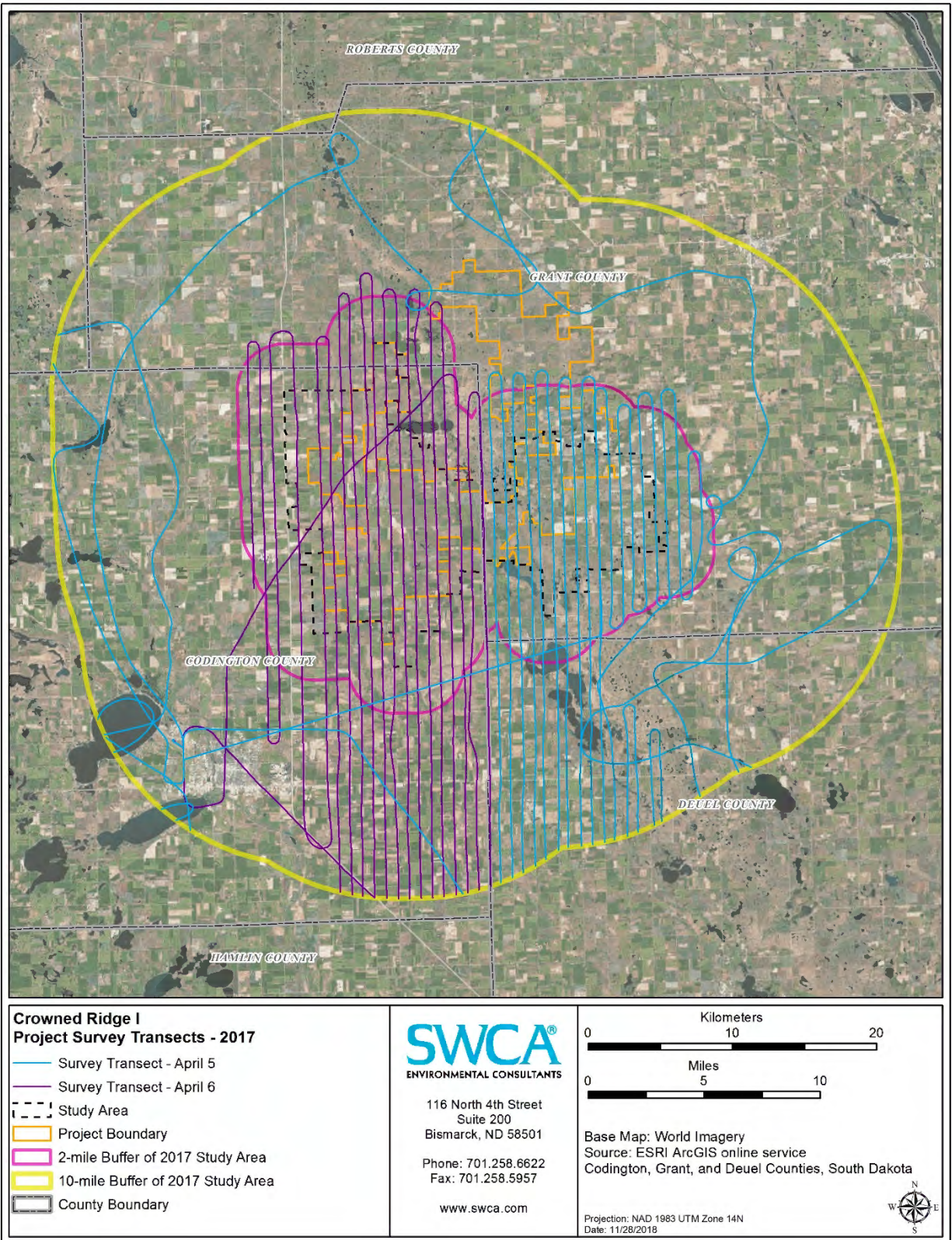
**Figure 1. Study areas, 2017.**





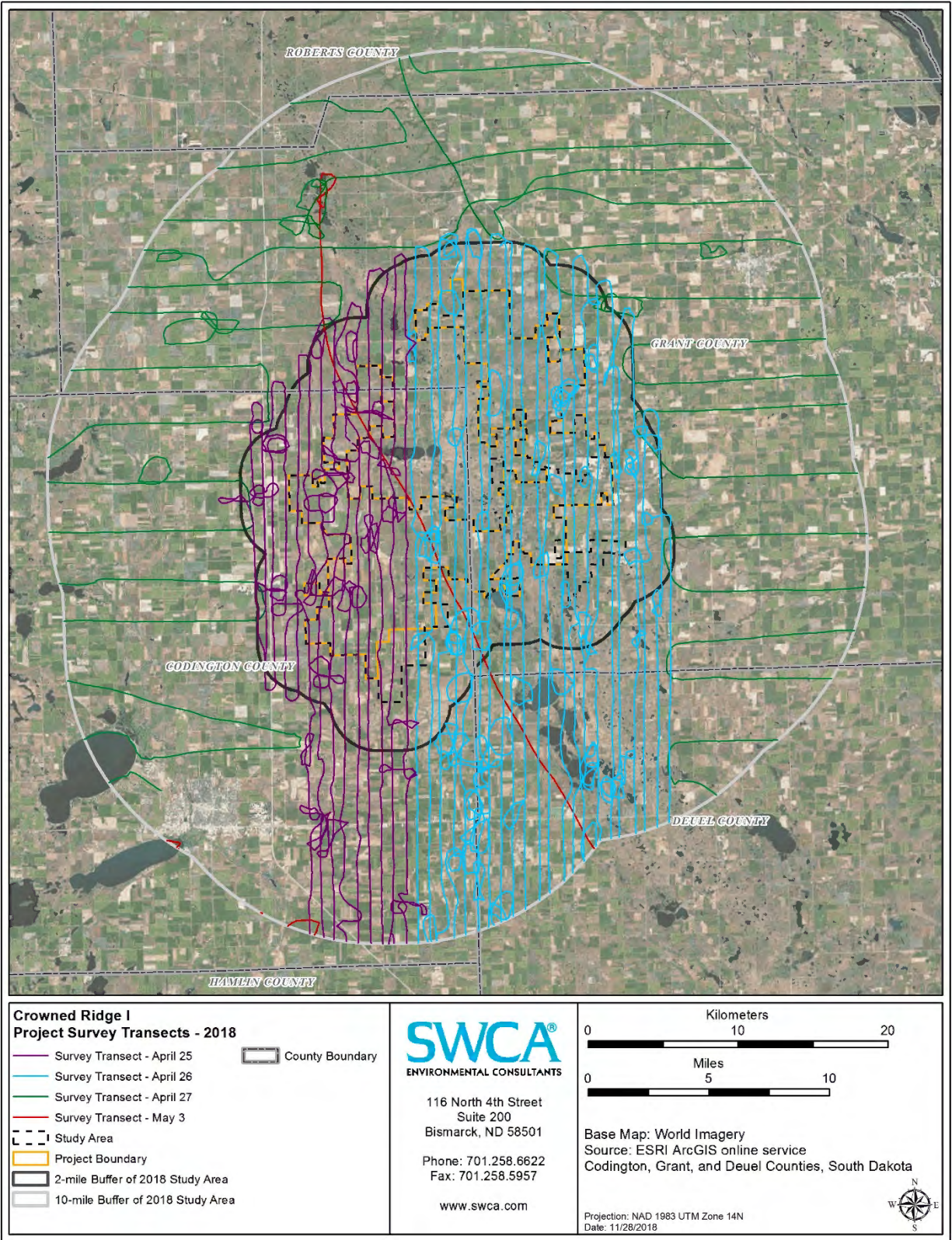
**Figure 2. Study areas, 2018.**





**Figure 3. Survey transects, 2017.**





**Figure 4. Survey transects, 2018.**



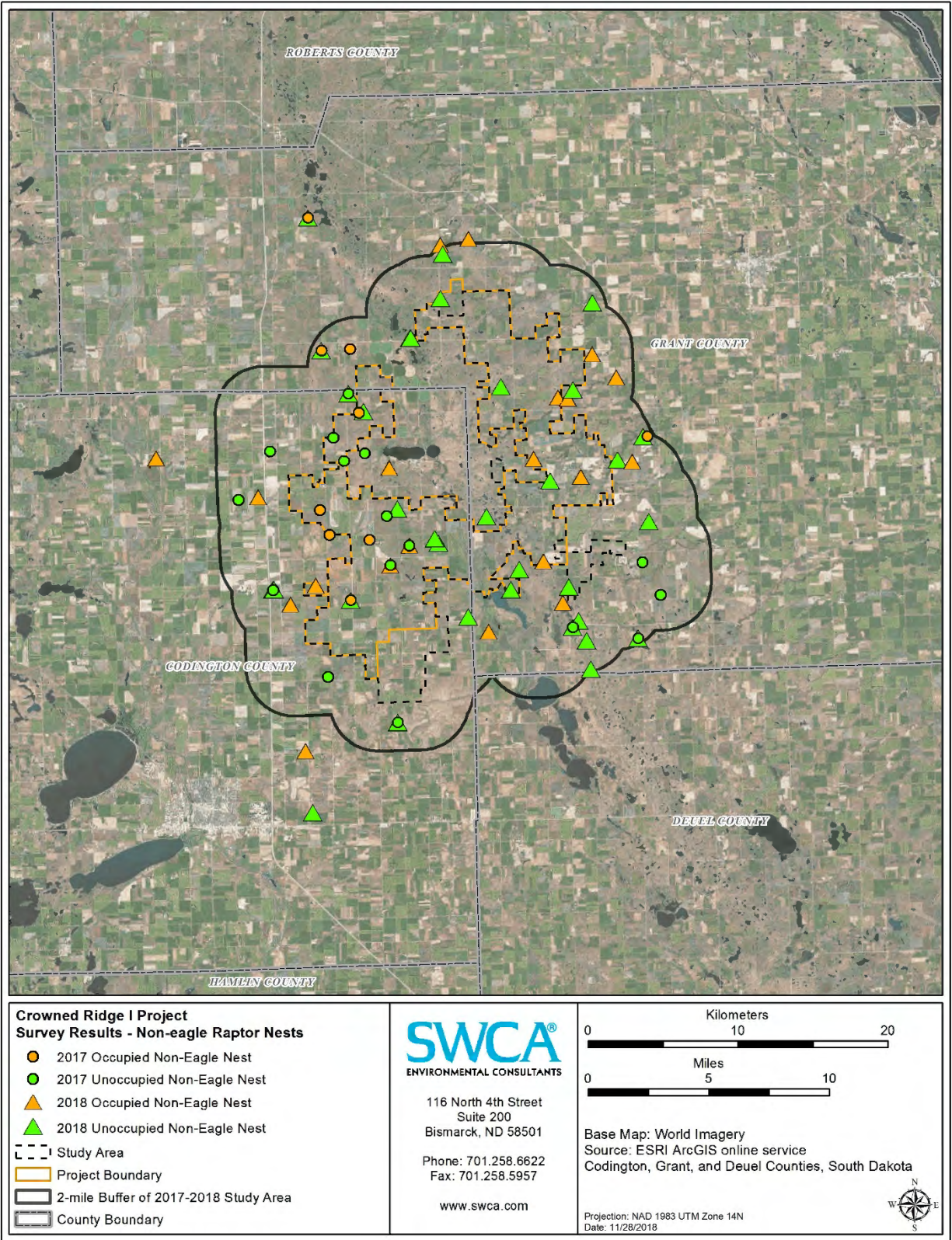


Figure 5. Survey results: non-eagle raptor nests.



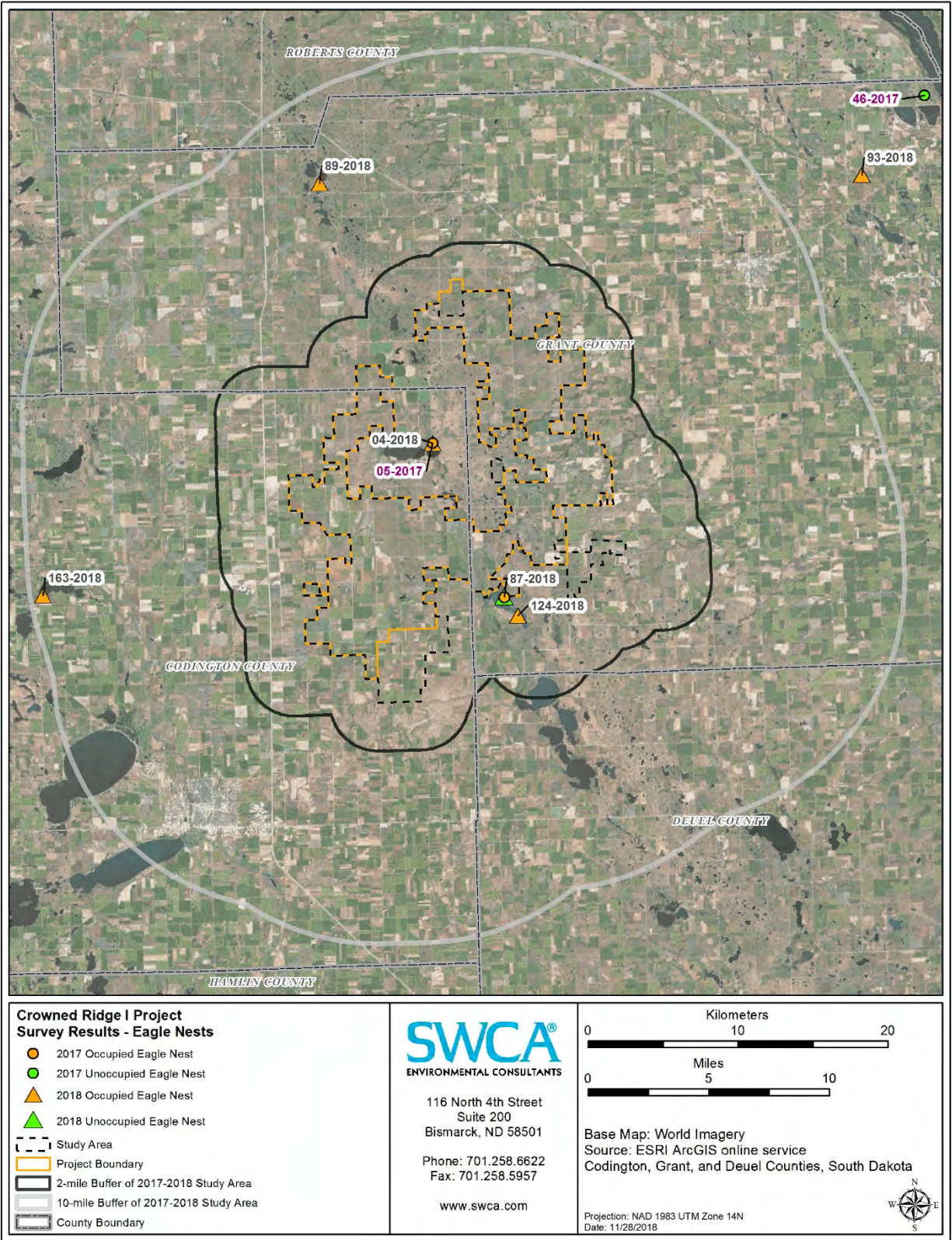


Figure 6. Survey results: eagle nests.



# ATTACHMENT 1. 2017 Crowned Ridge I Raptor Nest Survey Data

| Nest No. | Status    | Species               | Study Area | Study Area Proximity | Latitude | Longitude |
|----------|-----------|-----------------------|------------|----------------------|----------|-----------|
| 53-2017  | Active    | Swainson's Hawk       | CRI        | 10-mi                | 45.2544  | -97.0135  |
| 43-2017  | Destroyed | Unoccupied Stick Nest | CRI        | 10-mi                | 45.2744  | -97.0027  |
| 45-2017  | Destroyed | Unoccupied Stick Nest | CRI        | 10-mi                | 45.2750  | -97.0030  |
| 03-2017  | Inactive  | Unoccupied Stick Nest | CRI        | 10-mi                | 45.0223  | -96.7234  |
| 15-2017  | Inactive  | Unoccupied Stick Nest | CRI        | 10-mi                | 44.9967  | -96.7430  |
| 46-2017  | Inactive  | Unoccupied Stick Nest | CRI        | 10-mi                | 45.3176  | -96.4869  |
| 05-2017  | Active    | Bald Eagle            | CRI        | 2-mi                 | 45.1172  | -96.9126  |
| 42-2017  | Active    | Bald Eagle            | CRI & CRII | 2-mi                 | 45.0236  | -96.8553  |
| 06-2017  | Active    | Red-tailed Hawk       | CRI        | 2-mi                 | 45.1178  | -96.7304  |
| 50-2017  | Active    | Red-tailed Hawk       | CRI        | 2-mi                 | 45.1745  | -97.0048  |
| 51-2017  | Active    | Swainson's Hawk       | CRI        | 2-mi                 | 45.1749  | -96.9806  |
| 01-2017  | Inactive  | Unoccupied Stick Nest | CRI        | 2-mi                 | 45.0043  | -96.7980  |
| 14-2017  | Inactive  | Unoccupied Stick Nest | CRI        | 2-mi                 | 45.1149  | -97.0505  |
| 20-2017  | Inactive  | Unoccupied Stick Nest | CRI        | 2-mi                 | 45.0860  | -97.0784  |
| 22-2017  | Inactive  | Unoccupied Stick Nest | CRI        | 2-mi                 | 45.0424  | -96.7376  |
| 23-2017  | Inactive  | Unoccupied Stick Nest | CRI        | 2-mi                 | 44.9786  | -97.0061  |
| 25-2017  | Inactive  | Unoccupied Stick Nest | CRI        | 2-mi                 | 45.0315  | -97.0508  |
| 13-2017  | Inactive  | Unoccupied Stick Nest | CRI & CRII | 2-mi                 | 44.9500  | -96.9480  |
| 34-2017  | Active    | Great Horned Owl      | CRI        | Within               | 45.0240  | -96.9853  |
| 47-2017  | Active    | Red-tailed Hawk       | CRI        | Within               | 45.0598  | -96.9681  |
| 48-2017  | Active    | Red-tailed Hawk       | CRI        | Within               | 45.0788  | -97.0094  |
| 49-2017  | Active    | Red-tailed Hawk       | CRI        | Within               | 45.0637  | -97.0019  |
| 52-2017  | Active    | Red-tailed Hawk       | CRI        | Within               | 45.1365  | -96.9746  |
| 35-2017  | Inactive  | Red-tailed Hawk       | CRI        | Within               | 45.0446  | -96.9510  |
| 36-2017  | Inactive  | Red-tailed Hawk       | CRI        | Within               | 45.0562  | -96.9345  |
| 37-2017  | Inactive  | Red-tailed Hawk       | CRI        | Within               | 45.0741  | -96.9532  |
| 39-2017  | Inactive  | Red-tailed Hawk       | CRI        | Within               | 45.1075  | -96.9878  |
| 40-2017  | Inactive  | Red-tailed Hawk       | CRI        | Within               | 45.1218  | -96.9966  |
| 41-2017  | Inactive  | Red-tailed Hawk       | CRI        | Within               | 45.1482  | -96.9829  |
| 38-2017  | Inactive  | Swainson's Hawk       | CRI        | Within               | 45.1120  | -96.9703  |

## ATTACHMENT 2. 2018 Crowned Ridge I Raptor Nest Survey Data

| Nest No. | Status   | Species          | Study Area | Study Area Proximity | Latitude | Longitude |
|----------|----------|------------------|------------|----------------------|----------|-----------|
| 111-2018 | Active   | Red-tailed Hawk  | CR         | 10-mi                | 45.2362  | -96.9019  |
| 117-2018 | Active   | Red-tailed Hawk  | CR         | 10-mi                | 45.2394  | -96.8778  |
| 89-2018  | Active   | Bald Eagle       | CRI        | 10-mi                | 45.2750  | -97.0030  |
| 93-2018  | Active   | Bald Eagle       | CRI        | 10-mi                | 45.2710  | -96.5420  |
| 163-2018 | Active   | Bald Eagle       | CRI        | 10-mi                | 45.0313  | -97.2456  |
| 164-2018 | Active   | Great-horned Owl | CRI        | 10-mi                | 45.1122  | -97.1473  |
| 14-2018  | Inactive | Unknown          | CRI        | 10-mi                | 44.9967  | -96.7430  |
| 72-2018  | Inactive | Unknown          | CRI        | 10-mi                | 45.2544  | -97.0135  |
| 98-2018  | Active   | Red-tailed Hawk  | CRI & II   | 10-mi                | 44.9343  | -97.0264  |
| 99-2018  | Inactive | Unknown          | CRI & II   | 10-mi                | 44.8972  | -97.0215  |
| 151-2018 | Inactive | Unknown          | CRI & II   | 10-mi                | 44.9789  | -96.7835  |
| 158-2018 | Active   | Red-tailed Hawk  | CR         | 2-mi                 | 45.1538  | -96.7554  |
| 102-2018 | Inactive | Unknown          | CR         | 2-mi                 | 45.1807  | -96.9294  |
| 104-2018 | Inactive | Unknown          | CR         | 2-mi                 | 45.1807  | -96.9287  |
| 110-2018 | Inactive | Unknown          | CR         | 2-mi                 | 45.2040  | -96.9026  |
| 112-2018 | Inactive | Unknown          | CR         | 2-mi                 | 45.2307  | -96.8996  |
| 162-2018 | Inactive | Unknown          | CR         | 2-mi                 | 45.1178  | -96.7338  |
| 05-2018  | Gone     |                  | CR         | 2-mi                 | 45.1178  | -96.7304  |
| 04-2018  | Active   | Bald Eagle       | CRI        | 2-mi                 | 45.1172  | -96.9126  |
| 82-2018  | Active   | Great-horned Owl | CRI        | 2-mi                 | 45.1032  | -96.9498  |
| 141-2018 | Active   | Great-horned Owl | CRI        | 2-mi                 | 45.0195  | -96.8057  |
| 80-2018  | Active   | Red-tailed Hawk  | CRI        | 2-mi                 | 45.0225  | -97.0363  |
| 96-2018  | Active   | Red-tailed Hawk  | CRI        | 2-mi                 | 45.0874  | -97.0615  |
| 97-2018  | Active   | Red-tailed Hawk  | CRI        | 2-mi                 | 45.0335  | -97.0145  |
| 160-2018 | Active   | Red-tailed Hawk  | CRI        | 2-mi                 | 45.1030  | -96.7440  |
| 21-2018  | DNLO     | Unknown          | CRI        | 2-mi                 | 45.0424  | -96.7376  |
| 00-2018  | Inactive | Unknown          | CRI        | 2-mi                 | 45.0043  | -96.7980  |
| 12-2018  | Inactive | Unknown          | CRI        | 2-mi                 | 44.9500  | -96.9480  |
| 24-2018  | Inactive | Unknown          | CRI        | 2-mi                 | 45.0315  | -97.0508  |
| 39-2018  | Inactive | Unknown          | CRI        | 2-mi                 | 45.1482  | -96.9829  |
| 69-2018  | Inactive | Unknown          | CRI        | 2-mi                 | 45.1745  | -97.0048  |
| 94-2018  | Inactive | Unknown          | CRI        | 2-mi                 | 45.0315  | -97.0497  |
| 118-2018 | Inactive | Unknown          | CRI        | 2-mi                 | 45.0723  | -96.8683  |
| 140-2018 | Inactive | Unknown          | CRI        | 2-mi                 | 45.0288  | -96.8005  |
| 146-2018 | Inactive | Unknown          | CRI        | 2-mi                 | 45.0083  | -96.7928  |
| 147-2018 | Inactive | Unknown          | CRI        | 2-mi                 | 44.9961  | -96.7865  |
| 153-2018 | Inactive | Unknown          | CRI        | 2-mi                 | 45.1041  | -96.7562  |
| 161-2018 | Inactive | Unknown          | CRI        | 2-mi                 | 45.0666  | -96.7308  |
| 22-2018  | Unknown  | Unknown          | CRI        | 2-mi                 | 44.9786  | -97.0061  |
| 36-2018  | Gone     | -                | CRI        | 2-mi                 | 45.1120  | -96.9703  |

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| <b>Nest No.</b> | <b>Status</b> | <b>Species</b>   | <b>Study Area</b> | <b>Study Area Proximity</b> | <b>Latitude</b> | <b>Longitude</b> |
|-----------------|---------------|------------------|-------------------|-----------------------------|-----------------|------------------|
| 66-2018         | Gone          | -                | CRI               | 2-mi                        | 45.0637         | -97.0019         |
| 67-2018         | Gone          | -                | CRI               | 2-mi                        | 45.0635         | -96.9985         |
| 70-2018         | Gone          | -                | CRI               | 2-mi                        | 45.1749         | -96.9806         |
| 77-2018         | Gone          | -                | CRI               | 2-mi                        | 45.1808         | -96.9756         |
| 78-2018         | Gone          | -                | CRI               | 2-mi                        | 45.0277         | -97.0096         |
| 124-2018        | Active        | Bald Eagle       | CRI & II          | 2-mi                        | 45.0123         | -96.8440         |
| 122-2018        | Active        | Red-tailed Hawk  | CRI & II          | 2-mi                        | 45.0032         | -96.8694         |
| 127-2018        | Inactive      | Unknown          | CRI & II          | 2-mi                        | 45.0279         | -96.8495         |
| 128-2018        | Inactive      | Unknown          | CRI & II          | 2-mi                        | 45.0399         | -96.8418         |
| 87-2018         | Inactive      | Prob. Bald Eagle | CRI & II          | Within                      | 45.0238         | -96.8553         |
| 134-2018        | Active        | Great-horned Owl | CR                | Within                      | 45.1063         | -96.8274         |
| 139-2018        | Active        | Great-horned Owl | CR                | Within                      | 45.1427         | -96.8053         |
| 145-2018        | Active        | Great-horned Owl | CR                | Within                      | 45.0948         | -96.7877         |
| 142-2018        | Active        | Red-tailed Hawk  | CR                | Within                      | 45.1419         | -96.7969         |
| 152-2018        | Active        | Red-tailed Hawk  | CR                | Within                      | 45.1682         | -96.7754         |
| 123-2018        | Inactive      | Unknown          | CR                | Within                      | 45.1499         | -96.8531         |
| 143-2018        | Inactive      | Unknown          | CR                | Within                      | 45.1469         | -96.7921         |
| 33-2018         | Active        | Red-tailed Hawk  | CRI               | Within                      | 45.0446         | -96.9510         |
| 34-2018         | Active        | Red-tailed Hawk  | CRI               | Within                      | 45.0562         | -96.9345         |
| 137-2018        | Active        | Red-tailed Hawk  | CRI               | Within                      | 45.0447         | -96.8213         |
| 32-2018         | Inactive      | Unknown          | CRI               | Within                      | 45.0240         | -96.9853         |
| 83-2018         | Inactive      | Unknown          | CRI               | Within                      | 45.1373         | -96.9703         |
| 101-2018        | Inactive      | Unknown          | CRI               | Within                      | 45.0781         | -96.9437         |
| 108-2018        | Inactive      | Unknown          | CRI               | Within                      | 45.0571         | -96.9095         |
| 109-2018        | Inactive      | Unknown          | CRI               | Within                      | 45.0597         | -96.9126         |
| 138-2018        | Inactive      | Unknown          | CRI               | Within                      | 45.0926         | -96.8139         |
| 38-2018         | Gone          |                  | CRI               | Within                      | 45.1218         | -96.9966         |
| 62-2018         | Gone          |                  | CRI               | Within                      | 45.0611         | -96.9243         |
| 63-2018         | Gone          |                  | CRI               | Within                      | 45.0598         | -96.9681         |
| 64-2018         | Gone          |                  | CRI               | Within                      | 45.1000         | -96.9943         |
| 65-2018         | Gone          |                  | CRI               | Within                      | 45.0788         | -97.0094         |
| 71-2018         | Gone          |                  | CRI               | Within                      | 45.1365         | -96.9746         |
| 116-2018        | Inactive      | Unknown          | CRI & II          | Within                      | 45.0122         | -96.8862         |
| 58-2018         | Gone          |                  | CRI & II          | Within                      | 44.9729         | -96.8838         |
| 60-2018         | Gone          |                  | CRI & II          | Within                      | 45.0014         | -96.9039         |