2016 Bat Mist-netting Survey for the North Deuel Wind Energy Project Deuel County, South Dakota

Final Report July 22 – August 15, 2016



Prepared for:

Deuel Wind Energy LLC

One South Wacker Drive, Suite 1800 Chicago, Illinois 60606

Prepared by:

Kristen Chodachek, Rebecca Schmitt, and Cara Meinke

Western EcoSystems Technology, Inc. 4007 State Street, Suite 109 Bismarck, North Dakota 58503

November 4, 2016



STUDY PARTICIPANTS

Western EcoSystems Technology, Inc.

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REPORT REFERENCE

Chodachek, K., R. Schmitt, and C. Meinke. 2016. 2016 Bat Mist-netting Survey for the North Deuel County Wind Energy Project, Deuel County, South Dakota. Draft Report: July 22 – August 15, 2016. Prepared for Deuel Wind Energy LLC, Chicago, Illinois. Prepared by Western EcoSystems Technology, Inc. (WEST), Bismarck, North Dakota. 6 pages + appendices.

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Appendix B. Copy of State Permit Number 60 and Federal Permit Numbers TE102292-11, TE48049B-0, and TE148282-3

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I. INTRODUCTION

In accordance with Condition K of Federal Permits TE102292-11, TE48049B-0, and TE14820-3 (Appendices A and B), Western EcoSystems Technology, Inc. (WEST) is providing the following mist-netting study report for the North Deuel County Wind Energy Project (Project) in Deuel County, South Dakota. Mist-netting was conducted in accordance with the study plan approved by the U.S. Fish and Wildlife Service (USFWS) on July 18, 2016 (WEST 2016). The mist-netting study was conducted from July 22 – August 15, 2016.

Figure 1 shows the USFWS-approved mist-net sites and capture locations for the Project relative to potential northern long-eared bat (*Myotis septentrionalis*) summer habitat based on the 2011 National Land Cover Data (Homer et al. 2015). The approved study plan meets guidelines for threatened or endangered bat presence/absence surveys (WEST 2016).

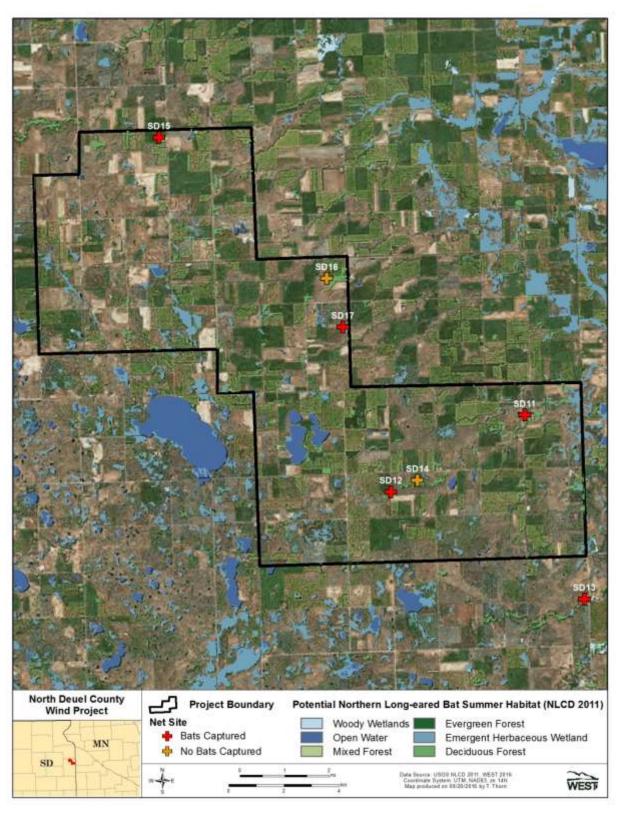


Figure 1. U.S. Fish and Wildlife Service-approved mist-net sites and capture locations for the North Deuel County Wind Energy Project, Deuel County, South Dakota, July 22, 2016 – August 15, 2016.

II. REQUIRED INFORMATION

1. Table 1 provides the date, time, geographic location (North American Datum 1983, Universal Transverse Mercator Zone 14 North), species, age, sex, weight, band number, reproductive condition, and whether the bat was tracked using telemetry for all bats encountered.

Table 1. Date, time, geographic location, species, age, sex, weight, band number, reproductive condition, and telemetry tracking data for mist-netting surveys conducted at the North Deuel County Wind Energy Project, Deuel County, South Dakota, from July 22, 2016 -August 15, 2016.

Date	Time	Geographic Location ¹	Species ²	Age ³	Sex ⁴	Weight (ounces)	Band Number ⁵	Reproductive Condition ⁶	Tracked using Telemetry ⁷
8/4/2016	23:06	SD11, 699206, 4972697	EPFU	Α	F	0.63	N/A	NR	N
8/5/2016	01:56	SD11, 699206, 4972697	LABO	Α	F	0.53	N/A	NR	N
8/6/2016	22:50	SD12, 694340, 4969914	LABO	Α	M	0.35	N/A	SC	N
8/6/2016	22:30	SD12, 694330, 4969988	LABO	Α	M	0.35	N/A	SC	N
8/7/2016	00:05	SD12, 694330, 4969988	LACI	Α	M	0.71	N/A	SC	N
8/7/2016	22:15	SD12, 694330, 4969988	LABO	-	-	-	N/A	-	N
8/7/2016	01:05	SD13, 701350, 4966168	EPFU	Α	F	0.74	N/A	NR	N
8/7/2016	00:50	SD13, 701423, 4965946	LABO	-	M	0.37	N/A	NR	N
8/8/2016	23:10	SD13, 701350, 4966168	EPFU	Α	F	0.81	N/A	PL	N
8/8/2016	21:53	SD13, 701417, 4965948	LABO	Α	М	0.35	N/A	NR	N
8/9/2016	00:01	SD13, 701417, 4965948	LABO	Α	F	0.53	N/A	NR	N
8/10/2016	00:04	SD15, 685956, 4982694	LABO	Α	-	-	N/A	-	N
8/15/2016	00:45	SD17, 692572, 4975854	EPFU	Α	F	0.71	N/A	PL	N

¹ Geographic location in UTM using North American Datum (NAD) 83, Zone 14
² EPFU=big brown bat, LABO=eastern red bat, LACI=hoary bat
³ A=adult, J=juvenile, - = no data collected

⁴ F=female, M=male; - = no data collected

⁵ N/A = not banded

⁶ For females: NR = non-reproductive, P = pregnant, NOP = not obviously pregnant, L= lactating, PL = post-lactating. For males: NR = non-reproductive, SC = scrotal; - = no data collected

 $^{^{7}}$ Y = yes; N = no

- 2. Locations surveyed where no bats were encountered include the following:
 - a. Site SD14 (see "No Bat Captures" in Figure 1). Topography was rolling hills; habitat was unused cropland and grassland with forest. Nets were placed along a shelterbelt edge, in a forest shelterbelt corridor, and across a stream.
 - b. Site SD16 (see "No Bat Captures" in Figure 1). Topography was flat; habitat was agriculture with forest shelterbelt. Nets were placed along a forest shelterbelt edge and in forest shelterbelt corridors.
- 3. No bats were banded (Table 1).
- 4. Information on injuries and/or mortalities and disposition of specimens is provided below:
 - a. No bats were injured or killed during mist netting. No bats appeared to have been injured prior to being caught.
- 5. No northern long-eared bats were netted. Therefore, no telemetry was conducted and no roost trees or bat colonies were located.
- 6. There are no separate reports and/or publications from work conducted under the authority of Federal Permits TE102292-11, TE48049B-0, and TE148282-3 (Appendices A and B).
- 7. & 8. Completed data collection forms, as found in the USFWS 2016 Range-Wide Indiana Bat Summer Survey Guidelines (USFWS Guidelines; Appendix B; USFWS 2016), cited in Condition M of Federal Permits TE102292-11, TE48049B-0, and TE148282-3 included in Appendix B. Data have been submitted for all bats captured and include the data requested in the species-specific data form provided by the USFWS (i.e., Indiana Bat Survey and Banding Data forms and the data collection forms found in the USFWS Guidelines [USFWS 2016] cited in Condition M of Federal Permits TE102292-11, TE48049B-0, and TE148282-3; Appendix B). No photographs of federally listed species are provided as none were captured.
- 8. See 7 & 8 above.
- 9. Copies of all site-specific authorization letters required under Condition M.8 of Federal Permits TE102292-11, TE48049B-0, and TE148282-3 are provided in Appendix A.

III. LITERATURE CITED

- Homer, C. G., J. A. Dewitz, L. Yang, S. Jin, P. Danielson, G. Xian, J. Coulston, N. D. Herold, J. D. Wickham, and K. Megown. 2015. Completion of the 2011 National Land Cover Database for the Conterminous United States-Representing a Decade of Land Cover Change Information. Photogrammetric Engineering and Remote Sensing 81(5): 345-354. Available online from: http://www.mrlc.gov/nlcd2011.php
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 Updated April 11, 2016. Available online at:

 http://www.fws.gov/midwest/endangered/mammals/inba/surveys/pdf/2016IndianaBatSummerSurveyGuidelines11April2016.pdf
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- Western EcoSystems Technology, Inc. (WEST). 2016. Bat Mist-netting Work Plan for the Deuel County Wind Energy Project. Deuel County, South Dakota. Prepared for Deuel Wind Energy LLC, Chicago, Illinois. Prepared by Western EcoSystems Technology, Inc. (WEST), Bismarck, North Dakota. July 8, 2016.

Appendix A. Copies of All Site-Specific Authorization Letters Required under Condition F of Federal Permit Numbers TE102292-11, TE48049B-0, TE148282-3



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ecological Services 420 South Garfield Avenue, Suite 400 Pierre, South Dakota 57501-5408



June 29, 2016

Mr. Jeremy Jackson dba Jackson Environmental Consulting Services 1586 Boonesborough Road Richmond, KY 40475

Dear Mr. Jackson,

This letter provides your site specific authorization per condition F of Federal Endangered Species Permit No. TE102292-10. Under this condition you are to notify the U.S. Fish and Wildlife Service (Service) Field Supervisor for the state in which activities are proposed to occur at least 15 days prior to conducting any activities.

The information required under condition F was provided to the Service in an attachment to an email message dated June 28, 2016. In summary, surveys for the northern long-eared bat (Myotis septentrionalis) will be conducted for the Jackson Group at a proposed wind farm site in Deuel County, South Dakota and will include emergence surveys, mist-netting, handling to collect physiological measurements, banding, transmitter attachment to designated individuals, hair collection, and release. Activities will take place between approximately May 15, 2016 and August 15, 2016. All activities will take place as part of ongoing studies for a proposed wind farm. All survey activities should conform to the conditions of your Service permit TE102292-10. Dan Cox and Rex Medlin are also authorized under this permit to conduct activities.

Please report your data from this survey to the USFWS South Dakota Field Office utilizing the 2016 Bat Reporting spreadsheets for Region 6, to fulfill condition M of your permit. The spreadsheet and instructions can be found on the Service's website http://www.fws.gov/midwest/endangered/mammals/inba/inbasummersurveyguidance.html.

As stated in your permit, your concurrence letter must be carried with this permit to authorize site-specific activities. If you have any questions, please feel free to call Charlene Bessken at 605-224-8693.

Sincerely,

Scott V. Larson Field Supervisor

United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ecological Services 420 South Garfield Avenue, Suite 400 Pierre, South Dakota 57501-5408



June 29, 2016

Ms. Kathryn Cunningham 305 Lindenhurst Drive Apt 3102 Lexinton, KY 40509

Dear Ms. Cunningham,

This letter provides your site specific authorization per condition F of Federal Endangered Species Permit No. TE48049B-0. Under this condition you are to notify the U.S. Fish and Wildlife Service (Service) Field Supervisor for the state in which activities are proposed to occur at least 15 days prior to conducting any activities.

The information required under condition F was provided to the Service in an attachment to an email message dated June 28, 2016. In summary, surveys for the northern long-eared bat (Myotis septentrionalis) will be conducted for the Jackson Group at a proposed wind farm site in Deuel County, South Dakota and will include emergence surveys, mist-netting, handling to collect physiological measurements, banding, transmitter attachment to designated individuals, hair collection, and release. Activities will take place between approximately May 15, 2016 and August 15, 2016. All activities will take place as part of ongoing studies for a proposed wind farm. All survey activities should conform to the conditions of your Service permit TE48049B-0.

Please report your data from this survey to the USFWS South Dakota Field Office utilizing the 2016 Bat Reporting spreadsheets for Region 6, to fulfill condition M of your permit. The spreadsheet and instructions can be found on the Service's website http://www.fws.gov/midwest/endangered/mammals/inba/inbasummersurveyguidance.html.

As stated in your permit, your concurrence letter must be carried with this permit to authorize site-specific activities. If you have any questions, please feel free to call Charlene Bessken at 605-224-8693.

Sincerely,

Scott V. Larson Field Supervisor

United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ecological Services 420 South Garfield Avenue, Suite 400 Pierre, South Dakota 57501-5408



June 29, 2016

Mr. Jack D, Wilhide DBA Jackson Group 3945 Simpson Lane Richmond, KY 40475

Dear Mr. Wilhide,

This letter provides your site specific authorization per condition F of Federal Endangered Species Permit No. TE14828-3. Under this condition you are to notify the U.S. Fish and Wildlife Service (Service) Field Supervisor for the state in which activities are proposed to occur at least 15 days prior to conducting any activities.

The information required under condition F was provided to the Service in an attachment to an email message dated June 28, 2016. In summary, surveys for the northern long-eared bat (Myotis septentrionalis) will be conducted for the Jackson Group at a proposed wind farm site in Deuel County, South Dakota and will include emergence surveys, mist-netting, handling to collect physiological measurements, banding, transmitter attachment to designated individuals, hair collection, and release. Activities will take place between approximately May 15, 2016 and August 15, 2016. All activities will take place as part of ongoing studies for a proposed wind farm. All survey activities should conform to the conditions of your Service permit TE14828-3.

Please report your data from this survey to the USFWS South Dakota Field Office utilizing the 2016 Bat Reporting spreadsheets for Region 6, to fulfill condition M of your permit. The spreadsheet and instructions can be found on the Service's website http://www.fws.gov/midwest/endangered/mammals/inba/inbasummersurveyguidance.html.

As stated in your permit, your concurrence letter must be carried with this permit to authorize site-specific activities. If you have any questions, please feel free to call Charlene Bessken at 605-224-8693.

Sincerely,

Scott V. Larson Field Supervisor Appendix B. Copy of State Permit Number 60 and Federal Permit Numbers TE102292-11, TE48049B-0, and TE148282-3

2016 FREE SCIENTIFIC COLLECTOR'S PERMIT

State of South Dakota Department of Game, Fish, and Parks

To Whom It May Concern		License	Number_6
This Permit Authorizes:			
Jeremy Jackson, Rex Medlin,	JD Wilhide, Kathryn Cunning	am, and Jonathan Hootman	
NAME		and Johannan Hoomian	
3945 Simpson Lane			
ADDRESS			
Richmond	KY	40475	
cnv	STATE	ZIP TO T/S	
Collecting for (Institution or Association	on):		
Jackson Environmental Con			
NAME	January Dellies		_
3945 Simpson Lane			
ADDRESS			
Richmond	KY	40475	
cmy	STATE	ZIP	_

To take, possess, transport, collect, or study for scientific purposes the following wild animals in such manner and under such conditions set forth below:

COMMON NAME & SPECIES NUMBER VICINITY OF COLLECTION 1. Northern long-eared bat (Myotis septentrionalis) 2. Other non-target SD bat species As needed Deuel County, SD

** FOR ANY MONITORED SPECIES, PLEASE LIST SPECIFIC COLLECTION LOCATION(S).

Prior to collecting any bat species, permittees MUST contact the Natural Heritage Program (605-773-4229).

DISPOSITION OF SPECIMENS AND/OR SPECIAL CONDITIONS: Permittees may sample for the aforementioned species using mist nets and harp traps. Non-target bat species will be measured and released within 15 minutes of capture. Captured Northern Long-eared Bats may be held up to 30 minutes to attach radio-transmitters and forearm bands. Permittees will follow the USFWS White Nose Syndrome decontamination protocol and SD Game, Fish and Parks Bat Sampling and Collection Protocol Guidelines for all capture efforts. Northern long-eared bat collection, handling, and tagging activities are as authorized under permittees' Federal Endangered Sp. Recovery Permits TE102292-11, TE148282-3, TE48049B-0, and TE56430B-0.

NOTICE: A copy of this permit must be carried when exercising its authority. Collecting that may be authorized under this permit does not relieve the permit holder from compliance with any Federal law or regulation. ***** The taking of any federal or state threatened or endangered species is prohibited, unless specifically authorized by a state or federal permit. Please inform this office (605-773-4345) if you incidentally take any of these species. ***** The permit holder MUST notify the local Conservation Officer prior to engaging in any collections. The enclosed collection report forms must be submitted to the Department of Game, Fish, and Parks, 523 E. Capitol-Foss Bidg., Pierre, SD 57501 no later than January 31, 2017. This permit is granted under the provisions of SDCL 41-6-32. Permit will expire on the 31st day of December for the year issued, unless a specific collection period is specified.

Dated at Pierre, South Dakota this 27th day of June, 2016.

y Costey Heinstell
South Dakota Department of Game, Fish, and Parks

Transa Military

OUPARTMENT OF THE INTERIOR U.S. FISH & WILDLIFF SERVICE Ecological Services Permit Office 1875 Century Boulevard Atlanta, GA 30345 permitsR4ES@fws.gov

FEDERAL FISH AND WILDLIFE PERMIT

1. PERMOTTEE

JEREMY LYNN JACKSON dba JACKSON ENVIRONMENTAL CONSULTING SERVICES 1586 BOONESBOROUGH ROAD RICHMOND, KY 40475 U.S.A.

16 USC 1539(a)	
RECRULATIONS 50 CFR 17.22	
50 CFR 13	
1. NUMBER TE102292-11	AMENDMENT
	AMENDMENT 1 MAY COPY YES NO

I MAME AND TITLE OF PRINCIPAL OFFICER (If it is released)

NATIVE ENDANGERED SP. RECOVERY - E V

LOCATION WHERE ALIDEOADAD ACTIVITY MAY BE CONSECTED

H. CONDITIONS AND AUTHORIZATIONS

A. CENDIAL CONDITIONS SET OUT IN SUBJECT IF OF SO CERTL, AND STOCKED CONTRINED IN FEDERAL REGULATIONS CITED IN BLOCK #2 ABOVE, ARE RETREBY MADE A PART OF THIS FERMIT. ALL ACTIVITIES AUTHORIZED HERSEN MUST BE CARRIED OUT IN ACCORD WITH AND FOR THE PURPOSES DESCRIBED. IN THE APPLICATION SUBMITTED CONTRIBUTED VALUETY OR PERSIAMAL OF PRINCIPLES OF PURPOSES DESCRIBED. IN THE APPLICATION FUND FOR THE PURPOSES DESCRIBED TO COMPLETE AND TIMESY COMPLIANCE WITH ALL APPLICABLE CONDITIONS, ENCLUDING THE FUND OF ALL REQUIRED DIFFORMATION AND REPORTS.

Location: Alabama, Arkansas, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Jowa, Kunsas, Keutucky, Louisiana, Maine, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Vermont, Virginia, West Virginia, Wisconsin, and Wyoming.

- B. THE VALIDITY OF THIS PERMIT IS ALSO CONDITIONED UPON STRICT OBSERVANCE OF ALL APPLICABLE FOREIGN, STATE, LOCAL, TRIBAL, OR OTHER PRIFIRM LAW
- C. VALID FOR USE BY PERMITTEE NAMED ABOVE.
- C. 1. In addition to the permittee, the following individuals are authorized to conduct activities as authorized by this permit: Dan Cox, Jason Damm, and Rex Medlin.

Trained assistants not named on this permit may work on permitted bat activities under the direct and on-site supervision of the individuals named above. However, trained assistants may not work independently at a site. Trained assistants are individuals who are considered qualified by the permitted biologist(s) to select sampling sites, deploy sampling equipment and nets, and handle bats in the field.

At least one named permittee must remain present at each mist-net or harp trap site while it is being operated.

D. Acceptance of this permit serves as evidence that the permittee understands and agrees to abide by the terms of this permit and all sections of title 50 Code of Federal Regulations, parts 13 and 17, pertinent to issued permits. Section 11 of the Endangered Species Act of 1973, as amended, provides for civil and criminal penaltics for failure to comply with permit conditions.

ADDITIONAL CONDITIONS AND AUTHORIZATIONS ALSO APPLY

12. BEPORTING REQUIREMENTS

Annual reports due by January 31 following each year this permit is in effect

ISSUED BY ASIA

TITLE CHIEF, DIVISION OF ENVIRONMENTAL REVIEW DATE 06/02/2016

- E. Permittee is authorized to take (enter hibernacula or maternity roost caves, salvage dead bats, capture with mist nets or harp traps, handle, identify, collect hair samples, band, radio-tag, light-tag, and wing-punch) Indiana bats (<u>Myotis sodalis</u>), gray bats (<u>Myotis grisescens</u>), northern long-cared bats (<u>Myotis septentrionalis</u>), and Virginia big-eared bats (<u>Corynorhinus townsendii virginianus</u>) as described in permittee's while conducting presence/absence surveys, studies to document habitat use, and population monitoring, as described in permittee's applications and as conditioned below.
- F. The permitted activities described above require prior, site-specific approval from the USFWS Field Supervisor in the State(s) where the project will occur. Permittee shall notify the USFWS Field Supervisor for the State in which activities are proposed to occur at least 15 days prior to conducting any activities. Contact information is in Condition P, below. Your request for this site-specific approval must be in writing and must indicate:
- F.1. The purpose and a description of the activities proposed (e.g., surveys, radio telemetry studies, etc.).
- F.2. Location of proposed activities, including project site (legal description and lat/long), county, and state.
- F.3. Dates when the project is proposed to take place.
- F.4. You may proceed with activities only upon receipt of written concurrence from the applicable USFWS Field Supervisor. Your concurrence letter must be carried with this permit to authorize site-specific activities.
- G. Permittee shall adhere to the following conditions involving capture and handling of bats:
- G.1. Federally listed bats may be captured (e.g., mist-nets and harp traps) following the protocol(s) provided by the USFWS, when available. Permittees must contact the USFWS FO in the State(s) in which activities are proposed to ensure correct protocol(s) are used. For example, the current Range-wide Indiana Bat Summer Survey Guidelines are available at:
- http://www.fws.gov/midwest/endangered/mammals/inba/inbasummersurveyguidance.html. The monitoring interval for mist nets is once every 10 minutes. Harp traps must be continually monitored.
- G.2. Captured bats may be held for a maximum of 30 minutes, unless injured. If an exception is required to this prohibition, permittee must receive prior written approval from the USFWS Field Supervisor for the state in which the activities are proposed to occur.
- G.3. Permittees shall carry out non-intrusive measurements on all captured bats. Data shall be recorded for all bats captured and include, but not be limited to, the data requested in any automated or species specific data form provided by the USFWS (e.g., USFWS Bat Reporting Form available at: http://www.fws.gov/midwest/Endangered/mammals/inba/inbasummersurveyguidance.html). Handling should be limited to the maximum extent practicable and should cease immediately at signs of undue stress (e.g., bat becoming unresponsive, etc.). Bats that appear stressed from handling should be placed in a dark, quiet location away from activity where it can safely fly away after recovery, and should be checked to ensure successful recovery before leaving the study site. Photographs of the identifying characteristics for each individual federally listed species captured are encouraged. The permittee may be requested to provide individual photographs after submittal of annual reporting data.
- G.4. If bands are applied, they must be lipped metal bands having a unique identifier. Bands should be applied to the forearm of captured bats prior to release. No more than one band per bat may be used. Position the band on the wing so that when the bat is hanging upside down, the band numbers are right-side up. A single band should be placed on the right forearm of each male and the left forearm of each female bat.
- G.5. Radio transmitters may be applied during spring, summer, and fall roosting and migration periods via

nontoxic skin bond adhesive. The total weight of the transmitter may not exceed 5% of the bat's body weight and the total weight of the package (transmitter and adhesive) may not exceed 6% of the bat's body weight. The lightest package (both transmitter and adhesive) capable of accomplishing the required task should be used, especially with pregnant females and newly volant juveniles. Bats carrying transmitters must be monitored daily for at least five days, or until the transmitter falls off, whichever occurs first. * When conducting mist-netting within the white-nose syndrome (WNS) zone of the range of the northern long-eared bat in support of proposed tree removal activities, permittee is expected to radio-tag and track female northern long-eared bats in an attempt to locate roost trees and/or hibernacula, unless otherwise directed by the appropriate Field Office identified in Condition P. Specifics on the number of females that are expected to be tracked will be determined in coordination with the appropriate Field Office, as specified in Condition F (above).

- G.6. No capture activities shall occur within 20 meters of a known or potential summer or winter roost site, either natural or artificial, of a federally listed bat. If an exception is required to this prohibition, permittee must receive prior written approval from the USFWS Field Supervisor for the State in which the activities are proposed to occur.
- G.7. Permittee may collect dorsal hair samples and wing biopsy tissue samples from captured bats for scientific study. Hair samples shall be obtained via clipping fur from between scapula from females and juvenile males. The clipped area is the same area frequently clipped for radio transmitter attachment. Wing tissue samples may be taken using a new, sterile biopsy punch (2mm) for each endangered bat sampled. No more than two samples, one from each wing, may be obtained per individual. All boards and equipment used to obtain samples must be disinfected according to the protocol cited in Condition G.9.
- G.8. Cyalume light tags may be affixed to the back of unmarked bats during summer roosting period via non-toxic skin bond adhesive to aid in identification of individuals for echolocation recordings. Light tags shall not be affixed to bats carrying radio transmitters. Light tag cannot exceed 2 cm in length or 0.15 g in weight. The light tag must be resistant to tooth puncture and sealed to prevent bats from ingesting cyalume compound. Any light tag that has the potential to expose bats to the cyalume compound is prohibited; the compound is known to be toxic to bats.
- G.9. Equipment used to capture and handle bats shall be cleaned and decontaminated, including personal gear such as boots and gloves, using products cited in decontamination guidelines and in compliance with label directions. The most recent decontamination guidance is found on the web at: http://whitenosesyndrome.org/.
- G.10. Caves, mines, or other suitable hibernation sites may be quietly searched in a manner that minimizes disturbance by utilizing the minimum number of people and time required to complete the survey. Surveys of known hibernacula conducted during the winter hibernation season shall follow the guidelines established in the recovery plans for each federally listed bat species with regards to how often a site may be visited and other species-specific requirements related to entering hibernaculum (for example, for Indiana bats, winter surveys should not be repeated more often than once every other year in any given hibernaculum; for gray bats, winter surveys should not be repeated more often than once every three years in any given hibernaculum), unless authorized by the appropriate Service Recovery Lead identified in Condition O (below).

Under no circumstances should multiple trips to the hibernation area occur within the same year without written approval of the USFWS Field Supervisor for the state in which activities are proposed.

Bats may be handled during winter surveys in order to collect band information and confirm the identification of listed species. When possible, bands should be read without touching the bat. Banded bats should only be handled if easily accessible and removal of the bat does not disturb a large number of additional bats and is unlikely to result in injury to the bat. Detailed photographs should be taken to document the presence of listed species in previously undocumented hibernaculum. Where hibernacula area and safety conditions allow,

individuals entering hibernacula are recommended to utilize night vision goggles or red-filtered light and to remain in the site no more than 90 minutes to complete the work.

- G.11. Surveys of gray bat and Virginia big-eared bat maternity roosts and their other known summer roost sites shall be conducted by observing the bats with night vision equipment and/or infrared light sources (e.g., thermal infrared) as they emerge from their roosts to avoid any possible disturbance to these bats. At previously undocumented sites for these species, the accepted method to determine if they are present is to carefully and slowly enter the potential roost site to check for evidence of presence/use, such as visual observation of bats, significant quantities or a strong smell of guano, or the audible sounds produced by bats roosting at the site. As soon as any evidence is obtained that the roost site is being used by a federally listed bat species, survey team members shall immediately exit the roost site and make further observations from outside the entrance to the roost. All further observations shall be made from the entrance during the evening emergence.
- H. Upon determination that endangered bats are present, permittee shall notify the following offices immediately (not to exceed 1 business day): the appropriate USFWS Regional Office (Condition N), and the USFWS Field Office within the geographic location of study areas (Condition P).
- Permittee must carry a copy of this permit at all times when conducting the authorized activities. NOTE: This
 permit is limited to the above activities and identified species.
- J. Issuance of this permit does not constitute permission to conduct these activities on National Wildlife Refuges or any other public or private lands; such permission must be obtained separately from the appropriate landowner or land manager before beginning these authorized activities. This permit, neither directly nor by implication, grants the right of trespass.
- K. The Service anticipates that no federally listed bats will be injured or killed as a result of permitted activities. In the event that any accidental injury or mortality occurs, all activities must cease and the injury or mortality reported immediately (not to exceed 1 business day) to the Southeast Regional Office listed in condition N.3. and to the Lead Recovery Biologist for the species (Condition O). The USFWS will work with the permittee to determine the cause of injury or mortality and whether such could be avoided should activities be allowed to proceed. Dead or moribund bats may be retained for further study only with the written permission of the USFWS. Any bats that are not authorized for retention are to be chilled and promptly transferred to the USFWS for potential necropsy and/or for scientific or educational purposes.

Upon locating a dead, injured, or sick bat, or any other threatened or endangered species, under circumstances not addressed in this authorization, initial notification must be made immediately (not to exceed 1 business day) to the appropriate Regional Office identified in Condition N, below, including a description of the circumstances, location information, and photo documentation. Notification should also be made at the same time to the appropriate USFWS Field Office identified in Condition P, below. Care should be taken in handling sick, injured, or dead specimens to ensure effective treatment or to preserve biological materials for later analysis. In conjunction with the care of sick or injured threatened or endangered species, and the preservation of biological materials from a dead animal, the permittee should take responsible steps to ensure that the site is not unnecessarily disturbed. Prior to collecting the specimen(s), you must photograph the specimen(s) to document the conditions in which they were found. You may preserve the specimen(s) by freezing them or other suitable method to allow scientific study. Disposition of collected specimen(s) shall be determined by the USFWS Field Office.

- L. This permit is non-transferable.
- M. Reports are due on January 31 following each year this permit is in effect. At a minimum, your report shall include:

- M.1. The date, time, geographic locations (including datum and projection information).
- M.2. All locations surveyed (regardless of whether federally listed bats were captured/observed).
- M.3. Band numbers of all bats banded and all bats recovered/observed.
- M.4. Information on any injuries and/or mortalities and disposition of specimens.
- M.5. Location and characteristics of roost trees and bat colonies.
- M.6. Copies of any separate reports and/or publications resulting from work conducted under the authority of this permit.
- M.7. Data shall be submitted for all bats captured and include, but not be limited to, the data requested in any automated or species-specific data form provided by the USFWS (e.g., USFWS Bat Reporting Form available at: http://www.fws.gov/midwest/Endangered/mammals/inba/inbasummersurveyguidance.html). Photographs of the identifying characteristics for each individual federally listed species captured are encouraged. The permittee may be requested to provide individual photographs after submittal of annual reporting data.
- M.8. Copies of all site specific authorization letters required under Condition F.

IF NO ACTIVITIES OCCURRED OVER THE COURSE OF THE YEAR, INDICATION OF SUCH SHALL BE SUBMITTED AS AN ANNUAL REPORT.

- N. Copies of your reports shall be sent to the offices listed below. When possible, electronic copies shall be submitted in lieu of hard copies in MS Word, Portable Document Format, Rich Text Format, or other file format that is compatible with the receiving office.
- N. Copies of your reports shall be sent to the offices listed below. When possible, electronic copies shall be submitted in lieu of hard copies in MS Word, Portable Document Format, Rich Text Format, or other file format that is compatible with the receiving office.

N.1.

Regional Recovery Permits Coordinator
U.S. Fish and Wildlife Service - Southwest Region (Region 2)
500 Gold Ave., SW
P.O. Box 1306
Albuquerque, New Mexico 87103-1306
(505/248-6665; fax 505/248-6788)
permitsR2ES@fws.gov

N 2

Regional Recovery Permits Coordinator
U.S. Fish and Wildlife Service - Midwest Region (Region 3)
Ecological Services - Endangered Species
5600 American Blvd. W., Suite 990
Bloomington, Minnesota 55437-1458
(612/713-5343; fax 612/713-5292)
permitsR3ES@fws.gov

N.3.

Regional Recovery Permits Coordinator
U.S. Fish and Wildlife Service - Southeast Region (Region 4)
1875 Century Boulevard, Ecological Services
Atlanta, Georgia 30345-3301
(404/679-7101; fax 404/679-7081)
permitsR4ES@fws.gov

N4

Regional Recovery Permits Coordinator
U.S. Fish and Wildlife Service - Northeast Region (Region 5)
Endangered Species Division
300 Westgate Center Drive
Hadley, Massachusetts 01035-9589
(703/358-2402; fax 413/253-8482)
permitsR5ES@fws.gov <mailto:permitsR5ES@fws.gov>

N.5.

Regional Recovery Permits Coordinator & Assistant Regional Recovery Coordinator U.S. Fish and Wildlife Service - Mountain-Prairie Region (Region 6) Endangered Species Permits Office Denver Federal Center, P.O. Box 25486 Denver, Colorado 80225-0489 (303/236-4212; fax 303/236-0027) permitsR6ES@fws.gov

- O. Additionally, based on the species, reports and publications shall be submitted to the following:
- O.1. For activities/studies involving Indiana Bats:

Lori Pruitt, Recovery Lead U.S. Fish and Wildlife Service Indiana Ecological Services Field Office 620 S. Walker Street Bloomington, Indiana 47403-2121 (812/334-4261 x1213; fax 812/334-4273)

O.2. For activities/studies involving Gray Bats:

Shauna Marquardt, Recovery Lead U.S. Fish and Wildlife Service Missouri Ecological Services Field Office 101 Park De Ville Drive, Suite A Columbia, Missouri 65203 (573/234-2132 x174; fax 573/234-2181)

O.3. For activities/studies involving Northern Long-eared Bats:

Jill Utrup, Recovery Lead U.S. Fish and Wildlife Service Twin Cities Ecological Services Field Office 4104 American Blvd. E Bloomington, Minnesota 55425 (612/725-3548 x207; fax 612/725-3609)

O.4. For Studies involving Virginia Big-eared Bats:

Barbara Douglas U.S. Fish and Wildlife Service West Virginia Ecological Services Field Office 694 Beverly Pike Elkins, West Virginia 26241 (304/636-6586 x19; fax 304/636-7824)

- P. Additionally, based on geographic area, reports and publications shall be submitted to the following:
- P.1. For studies conducted in Alabama:

Field Supervisor Alabama Ecological Services Field Office 1208-B Main Street Daphne, Alabama 36526-4419 (251) 441-5181

P.2. For studies conducted in Arkansas:

Field Supervisor Arkansas Field Office 110 South Amity Road Suite 300 Conway, Arkansas 72032-8975 (501) 513-4470

P.3. For studies conducted in Connecticut, Massachusetts, New Hampshire, Rhode Island and Vermont:

Field Supervisor New England Field Office 70 Commercial Street, Suite 300 Concord, NH 03301 (603) 223-2541

P.4. For studies conducted in Delaware:

Field Supervisor Chesapeake Bay Field Office 177 Admiral Cochrane Drive Annapolis, MD 21401 (410) 573-4573

P.5. For studies conducted in North Florida:

Field Supervisor North Florida Ecological Services Office 7915 Baymeadows Way Suite 200 Jacksonville, FL 32256-7517 (904) 731-3336

P.6. For studies conducted in Georgia:

Field Supervisor Georgia Field Office 105 Westpark Drive, Suite D Athens, GA 30606-3175 (706) 613-9493; fax 706/613-6059

P.7. For studies conducted in Illinois:

P.7.a.
Kristen Lundh
Endangered Species Coordinator for Illinois/Iowa
U.S. Fish and Wildlife Service
Ecological Services Field Office
1511 47th Ave.
Moline, Illinois 61265
(309/757-5800, x215; fax 309/757-5807)

P.7.b.
Joe Kath
Endangered Species Coordinator
Illinois Department of Natural Resources
Division of Natural Heritage
One Natural Resource Way
Springfield, Illinois 62702-1271
(217/785-8764; fax 217/785-2438)

P.8. For studies conducted in Indiana:

P.8.a.
Lori Pruitt
Endangered Species Coordinator for Indiana
U.S. Fish and Wildlife Service
Ecological Services Field Office
620 S. Walker Street
Bloomington, Indiana 47403-2121
(812/334-4261 x1213; fax 812/334-4273)

P.8.b. Scott Johnson Indiana Department of Natural Resources 5596 East State Road 46 Bloomington, Indiana 47401 (812/334-1137, ext. 3400)

P.9. For studies conducted in Iowa:

P.9.a.
Kristen Lundh
Endangered Species Coordinator for Illinois/Iowa
U.S. Fish and Wildlife Service
Ecological Services Field Office
1511 47th Ave.
Moline, Illinois 61265
(309/757-5800, x215; fax 309/757-5807)

P.9.b.
Kelly Poole
Endangered Species Coordinator
Iowa Department of Natural Resources
Parks, Recreation, and Preserves
Wallace State Office Building
East 9th and Grand Avenue
Des Moines, Iowa 50319-0034
(515/281-8524)

P.10. For studies conducted in Kansas:

Field Supervisor Kansas Field Office 2609 Anderson Avenue Manhattan, Kansas 68502 785/539-3474; fax 785/539-8567

P.11. For studies conducted in Kentucky:

Field Supervisor Frankfort Field Office J C Watts Federal Bldg., Rm 265 330 West Broadway Frankfort, KY 40601-8670 (502) 695-0468

P.12. For studies conducted in Louisiana:

Field Supervisor Louisiana Ecological Services 646 Cajundome Blvd., Suite 400 Lafayette, La. 70506 Phone 337.291.3100 Fax 337.291.3139

P. 13. For studies conducted in Maine:

Field Supervisors Maine Field Office U.S. Fish and Wildlife Service 17 Godfrey Drive, Suite 2 Orono, ME 04473

Phone: 207-866-3344

P.15. For studies conducted in Michigan:

Barbara Hosler Endangered Species Coordinator for Michigan U.S. Fish and Wildlife Service 2651 Coolidge Road East Lansing, Michigan 48823 (517/351-6326; fax 517/351-1443)

Dan Kennedy Endangered Species Coordinator Michigan Department of Natural Resources Wildlife Division P.O. Box 30444 Lansing, Michigan 48909-7444 (517) 284-6194; fax 517/373-6705

P.16. For studies conducted in Minnesota:

P.16.a. Phil Delphey Endangered Species Coordinator U.S. Fish and Wildlife Service Ecological Services Field Office 4101 American Blvd. E. Bloomington, Minnesota 55425 (952/252-0092 x206; fax 952/646-2873)

P.16.b. Richard Baker Endangered Species Coordinator Minnesota Department of Natural Resources Division of Ecological and Water Resources 500 Lafayette Road, Box 25 St. Paul, Minnesota 55155 (651/259-5073) <mailto:Owen.Boyle@wisconsin.gov> P.17. For studies conducted in Mississippi:

Field Supervisor Mississippi Field Office 6578 Dogwood View Pkwy, Ste A Jackson, MS 39213-7856 (601) 321-1122

P.18. For studies conducted in Missouri:

P.18.a.
Field Supervisor
U.S. Fish and Wildlife Service
Missouri Ecological Services Field Office
101 Park DeVille Drive, Suite A
Columbia, Missouri 65203-2132
(573/234-2132; fax 573/234-2181)

P.18.b.

Scientific Collecting Permit Coordinator Missouri Department of Conservation Endangered Species and Natural History Division 2901 W. Truman Blvd., P.O. Box 180 Jefferson City, Missouri 65102-0180 (573/522-4115 ext. 3322; fax 573/751-4864)

P.19. For studies conducted in Montana:

Project Leader 585 Shepard Way Helena, Montana 59601 Telephone: 406-449-5225 Fax: 406-449-5339

P.20. For studies conducted in Nebraska:

Assistant Field Supervisor 9325 South Alda Road Wood River, NE 68883 Fax:(308) 384-8835 Phone: (308) 382-6468

P. 21. For studies conducted in New Hampshire.

See P.3. (above)

P.22. For studies conducted in New Jersey:

Field Supervisor New Jersey Field Office 927 N. Main Street, Building D Pleasantville, NJ 08232-1454 (609) 646-9310

P.23. For studies conducted in New York:

Field Supervisor New York Field Office 3817 Luker Road Cortland, NY 13045 (607) 753-9334

P.24. For studies conducted in North Carolina:

Field Supervisor Asheville Field Office 160 Zillicoa Street Asheville, NC 28801-1082 (828) 258-3939

P.25. For studies conducted in North Dakota:

North Dakota Field Office 3425 Miriam Avenue Bismarck, North Dakota 58501-7926 Phone: (701) 250-4481 Fax: (701) 355-8513

P.26. For studies conducted in Ohio:

P.26.a.
Endangered Species Coordinator for Ohio
U.S. Fish and Wildlife Service
Ohio Ecological Services Field Office
4625 Morse Road, Suite 104
Columbus, Ohio 43230
(614/416-8993, x22; fax 614/416-8994)

P.26.b.
Endangered Species Coordinator
Ohio Department of Natural Resources
Division of Wildlife
2045 Morse Road, Building G
Columbus, Ohio 43229-6693

(614-265-6329; fax 614/262-1143)

P.27. For studies conducted in Oklahoma:

P.27.a.
Field Supervisor
Oklahoma Field Office
U.S. Fish and Wildlife Service
9014 E. 21st St.
Tulsa, Oklahoma 74129-1428
(918) 382-4501

P.27.b. Todd Fagin Oklahoma Natural Heritage Inventory 111 E. Chesapeake St. Norman, OK 73019 405 325-4700 (Direct Line)

405 325-4042 (Oklahoma Biological Survey main office)

405 325-7702 (Fax)

tfagin@ou.edu <mailto:tfagin@ou.edu>

Oklahoma Department of Wildlife Conservation Wildlife Division 1801 N. Lincoln Blvd. Oklahoma City, Oklahoma 73105 405/990-7259; fax 405/521-4706

P.28. For studies conducted in Pennsylvania:

Field Supervisor Pennsylvania Field Office 315 So. Allen Street, Suite 322 State College, PA 16801-4850 (814) 234-4090

P.29. For studies conducted in Rhode Island:

See P.3. (above)

P.30. For studies conducted in South Carolina:

P.30.a. South Carolina Field Office Field Supervisor 176 Croghan Spur Road, Suite 200 Charleston, SC 29407-7558 (843) 727-4707 x227

P.30.b. Mary Bunch Biologist/Preserve Manager South Carolina Department of Natural Resources 311 Natural Resources Drive Clemson, SC 29631 (864) 654-6738 x15 Fax: (864) 654-9168

P.31. For studies conducted in South Dakota:

South Dakota Ecological Services Field Office 420 S. Garfield Avenue,

Suite 400 Pierre, SD 57501-5408 Phone (605) 224-8693 FAX 605-224-9974

P.32. For studies conducted in Tennessee:

P.32.a. Field Supervisor Cookeville Field Office U.S. Fish and Wildlife Service 446 Neal Street Cookeville, TN 38501-4027 (931) 528-6481

P.32.b.
Josh Campbell
Wildlife Diversity Coordinator, Region II
Tennessee Wildlife Resources Agency
P.O. Box 41489
Nashville, TN 37204
(615) 781-6626
Josh.Campbell@tn.gov <mailto:Josh.Campbell@tn.gov>

P.33. For studies conducted in Texas:

Regional Recovery Permits Coordinator
U.S. Fish and Wildlife Service - Southwest Region (Region 2)
500 Gold Ave., SW
P.O. Box 1306
Albuquerque, New Mexico 87103-1306
(505/248-6665; fax 505/248-6788)

P.34. For studies conducted in Vermont:

See P.3. (above)

P.35. For studies conducted in Virginia:

Field Supervisor Virginia Field Office 6669 Short Lane Gloucester, VA 23061 (804) 693-6694

P.36. For studies conducted in West Virginia:

Field Supervisor West Virginia Field Office 694 Beverly Pike Elkins, WV 26241

(304) 636-6586

P.37. For studies conducted in Wisconsin:

Phil Delphey Endangered Species Coordinator U.S. Fish and Wildlife Service Ecological Services Field Office 4101 American Blvd. E. Bloomington, Minnesota 55425 (952/252-0092 x206; fax 952/646-2873)

P.37.b. Owen Boyle Wisconsin Department of Natural Resources P.O. Box 7921 Madison, Wisconsin 53707-7921 (608/266-5244; fax 608/266-2925)

P. 38. For studies conducted in Wyoming:

Ecological Services Wyoming Field Office 5353 Yellowstone Road, Suite 308A Cheyenne, Wyoming 82009 Tel: (307) 772-2374

Fax: (307)772-2358

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- D. Acceptance of this permit serves as evidence that the permittee understands and agrees to abide by the terms of this permit and all sections of title 50 Code of Federal Regulations, parts 13 and 17, pertinent to issued permits. Section 11 of the Endangered Species Act of 1973, as amended, provides for civil and criminal penalties for failure to comply with permit conditions.
- E. Permittee is authorized to take (enter hibernacula, capture with mist nets or harp traps, handle, identify, band, radio-tag, salvage) Indiana bats (<u>Myotis sodalis</u>) and Northern long-eared bats (<u>Myotis septentrionalis</u>) for presence/absence surveys and monitoring, as described in permittee's September 4, 2013, application and as conditioned below.
- F. Activities at the following locations require written site-specific approval from the USFWS Field Supervisor in the State(s) where the project will occur (as outlined in Condition G):
- F.1. Locations within Region 2 of the USFWS: Oklahoma
- F.2. Locations within Region 3 of the USFWS: Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio, and Wisconsin
- F.3. Locations within Region 4 of the USEWS: Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, and Tennessee
- F.4. Locations within Region 5 of the USFWS: Connecticut, Delaware, Maryland, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia and West Virginia
- F.5. Locations within Region 6 of the USFWS: Kansas, Montana, Nebraska, North Dakota South Dakota, Wyoming
- G. Permittee shall notify the USFWS Field Supervisor for the State in which activities are proposed to occur at least 15 days prior to conducting any activities. Contact information is in Condition P., below. Your request for this site-specific approval must be in writing and must indicate:
- G.1. The purpose and a description of the activities proposed (e.g., surveys, radio telemetry studies, etc.).
- G.2. Location of proposed activities, including project site (legal description and lat/long), county, and state.
- G.3. Dates when the project is proposed to take place.
- G.4. You may proceed with activities only upon receipt of written concurrence from the applicable USFWS Field Supervisor. Your concurrence letter must be carried with this permit to authorize site-specific activities.
- H. Permittee shall adhere to the following conditions involving capture and handling of bats:
- H.1. Federally listed bats may be captured (e.g., mist-nets and harp traps) following the protocol(s) provided by the USFWS, when available. Permittees must contact the USFWS FO in the State(s) in which activities are proposed to ensure correct protocol(s) are used. For example, the current Range-wide Indiana Bat Summer Survey Guidelines are available at:

http://www.fws.gov/midwest/endangered/mammals/inha/inbasummersurveyguidance.html. The monitoring interval for mist nets is once every 10 minutes. Harp traps must be continually monitored.

H.2. Captured bats may be held for a maximum of 30 minutes, unless injured. If an exception is required to this prohibition, permittee must receive prior written approval from the USFWS Field Supervisor for the state in which the activities are proposed to occur.

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- H.3. Permittees shall carry out non-intrusive measurements on all captured bats. Data shall be recorded for all bats captured and include, but not be limited to, the data requested in any automated or species specific data form provided by the USFWS (e.g., INDIANA BAT SURVEY AND BANDING DATA form). Handling should be limited to the maximum extent practicable and should cease immediately at signs of undue stress (e.g., bat becoming unresponsive, etc.). Bats that appear stressed from handling should be placed in a dark, quiet location away from activity where it can safely fly away after recovery, and should be checked to ensure successful recovery before leaving the study site. Photographs of the identifying characteristics for each individual federally listed species captured are encouraged. The permittee may be requested to provide individual photographs after submittal of annual reporting data.
- H.4. If bands are applied, they must be lipped metal bands having a unique identifier. Bands should be applied to the forearm of captured bats prior to release. No more than one band per bat may be used. Position the band on the wing so that when the bat is hanging upside down the band numbers are right-side up. A single band should be placed on the right forearm of each male and the left forearm of each female ba:
- H.5. Radio transmitters may be applied during spring, summer, and fall roosting and migration periods via nontoxic skin bond adhesive. The total weight of the transmitter may not exceed 5% of the bat's body weight and the total weight of the package (transmitter and adhesive) may not exceed 6% of the bat's body weight. The lightest package (both transmitter and adhesive) capable of accomplishing the required task should be used, especially with pregnant females and newly volant juveniles. Bats carrying transmitters must be monitored daily for at least five days or until the transmitter falls off, whichever occurs first.
- H.6. No capture activities shall occur within 20 meters of a known or potential summer or winter roost site, either natural or artificial, of a federally listed bat. If an exception is required to this prohibition, permittee must receive prior written approval from the USFWS Field Supervisor for the State in which the activities are proposed to occur.
- H.7. Equipment used to capture and handle bats shall be cleaned and decontaminated, including personal gear such as boots and gloves, using products cited in decontamination guidelines and in compliance with label directions. The most recent decontamination guidance is found on the web at: http://whitenosesyndrome.org/
- H.8. Caves, mines, or other suitable hibernation sites may be quietly searched in a manner that minimizes disturbance by utilizing the minimum number of people and time required to complete the survey. Surveys of known hibernacula conducted during the winter hibernation season shall follow the guidelines established in the recovery plans for each federally listed bat species with regards to how often a site may be visited and other species-specific requirements related to entering hibernaculum (for example, for Indiana bats, winter surveys should not be repeated more often than once every other year in any given hibernaculum), unless authorized by the appropriate Service Recovery Lead identified in Condition O (below).

Under no circumstances should multiple trips to the hibernation area occur within the same year without written approval of the USFWS Field Supervisor for the state in which activities are proposed.

Bats may be handled during winter surveys in order to collect band information and confirm the identification of listed species. When possible, bands should be read without touching the bat. Banded bats should only be handled if easily accessible and removal of the bat does not disturb a large number of additional bats and is unlikely to result in injury to the bat. Detailed photographs should be taken to document the presence of listed species in previously undocumented hibernaculum. Where hibernacula area and safety conditions allow, individuals entering hibernacula are recommended to utilize night vision goggles or red-filtered light and to remain in the site no more than 90 minutes to complete the work.

Upon determination that endangered bats are present, permittee shall notify the following offices immediately

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Offices immediately

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(not to exceed 1 business day): the appropriate USFWS Regional Office (Condition N.), and the USFWS Field Office within the geographic location of study areas (Condition O.).

- J. Permittee must carry a copy of this permit at all times when conducting the authorized activities. NOTE: This permit is limited to the above activities and identified species.
- K. Issuance of this permit does not constitute permission to conduct these activities on National Wildlife Refuges or any other public or private lands; such permission must be obtained separately from the appropriate landowner or land manager before beginning these authorized activities. This permit, neither directly nor by implication, grants the right of trespass.
- L. Accidental injury or mortality may not exceed one specimen. In the event that any accidental injury or mortality occurs, all activities must cease and the injury or mortality reported immediately (not to exceed 1 business day) to the applicable office listed in condition N. and to the Lead Recovery Biologist for the species (condition O). The USFWS will work with the permittee to determine the cause of injury or mortality and whether such could be avoided should activities be allowed to proceed. Dead or moribund bats may be retained for further study only with the written permission of the USFWS. Any bats that are no authorized for retention are to be chilled and promptly transferred to the USFWS for potential necropsy and/or for scientific or educational purposes.

Upon locating a dead, injured, or sick bat, or any other threatened or endangered species under circumstances not addressed in this authorization, initial notification must be made immediately (not to exceed 1 business day) to the appropriate USFWS Office identified in condition N., below, including a description of the circumstances, location information, and photo documentation. Notification should also be made at the same time to the appropriate USFWS Field Office identified in condition P., below. Care should be taken in handling sick, injured, or dead specimens to ensure effective treatment or to preserve biological materials for later analysis. In conjunction with the care of sick or injured threatened or endangered species, and the preservation of biological materials from a dead animal, the permittee should take responsible steps to ensure that the site is not unnecessarily disturbed. Prior to collecting the specimen(s), you must photograph the specimen(s) to document the conditions in which they were found. You may preserve the specimen(s) by freezing them or other suitable method to allow scientific study. Disposition of collected specimen(s) shall be determined by the USFWS Field Office.

- M. Reports are due on January 31 following each year this permit is in effect. At a minimum, your report shall include:
- M.1. The date, time, geographic locations (including datum and projection information).
- M.2. All locations surveyed (regardless of whether federally listed bats were captured/observed).
- M.3. Band numbers of all bats banded and all bats recovered/observed.
- M.4. Information on any injuries and/or mortalities and disposition of specimens.
- M.5. Location and characteristics of roost trees and bat colonies.
- M.6. Copies of any separate reports and/or publications resulting from work conducted under the authority of this permit.
- M.7. Data shall be submitted for all bats captured and include, but not be limited to, the data requested in any automated or species-specific data form provided by the USFWS (e.g., INDIANA BAT SURVEY AND BANDING DATA forms, the data collection forms found in the current Rangewide Indiana Bat Summer Survey

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Guidelines cited in Condition H.1., or other species-specific forms). Photographs of the identifying characteristics for each individual federally listed species captured are encouraged. The permittee may be requested to provide individual photographs after submittal of annual reporting data.

M.8. Copies of all site specific authorization letters required under Condition G.

If no activities occurred over the course of the year, indication of such shall be submitted as an annual report.

N. Copies of your reports shall be sent to the offices listed below. When possible, electronic copies shall be submitted in lieu of hard copies in MS Word, Portable Document Format, Rich Text Format, or other file format that is compatible with the receiving office.

NI

Regional Recovery Permits Coordinator
U.S. Fish and Wildlife Service - Southwest Region (Region 2)
500 Gold Ave., SW
P.O. Box 1306
Albuquerque, New Mexico 87103-1306
(505/248-6665; fax 505/248-6788)
permitsR2ES@fws.gov

N.2.

Regional Recovery Pennits Coordinator
U.S. Fish and Wildlife Service - Midwest Region (Region 3)
Ecological Services - Endangered Species
5600 American Blvd. W., Suite 990
Bloomington, Minnesota 55437-1458
(612/713-5343; fax 6)2/713-5292)
permitsR3ES@fws.gov

N 3

Regional Recovery Permits Coordinator
U.S. Fish and Wildlife Service - Southeast Region (Region 4
1875 Century Boulevard, Suite 200
Atlanta, Georgia 30345-3301
(404/679-7101; fax 404/679-7081)
permitsR4ES@fws.gov

N.4.

Regional Recovery Permits Coordinator
U.S. Fish and Wildlife Service - Northeast Region (Region 5)
Endangered Species Division
300 Westgate Center Drive
Hadley, Massachusetts 01035-9589
(703/358-2402; fax 413/253-8482)
permitsR5ES@fws.gov <mailto:permitsR5ES@fws.gov>

N.5.

Regional Recovery Permits Coordinator & Assistant Regional Recovery Coordinator U.S. Fish and Wildlife Service - Mountain-Prairie Region (Region 6) Endangered Species Permits Office Denver Federal Center, P.O. Box 25486

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Denver, Colorado 80225-0489 (303/236-4212; fax 303/236-0027) permitsR6ES@fws.gov

- O. Additionally, based on species, reports and publications shall be submitted to the following:
- O.1. For Studies involving Indiana Bats:

Lori Pruitt, Recovery Lead U.S. Fish and Wildlife Service Indiana Ecological Services Field Office 620 S. Walker Street Bloomington, Indiana 47403-2121 (812/334-4261 x1213; fax 812/334-4273)

O.2. For Studies involving Northern Long-eared Bats:

Jill Utrup, Recovery Lead
U.S. Fish and Wildlife Service
Twin Cities Ecological Services Field Office
4104 American Blvd. E
Bloomington, Minnesota 55425
(612/725-3548 x207; fax 612/725-3609)

- P. Additionally, based on geographic area, reports and publications shall be submitted to the following:
- P.1. For studies conducted in Alabama:

Field Supervisor Alabama Ecological Services Field Office 1208-B Main Street Daphne, Alabama 36526-4419 (251) 441-5181

P.2. For studies conducted in Arkansas:

Field Supervisor Arkansas Field Office 110 South Amity Road Suite 300 Conway, Arkansas 72032-8975 (501) 513-4470

P.3. For studies conducted in Connecticut, Massachusetts, New Hampshire, Rhode Island and Vermont:

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Field Supervisor New England Field Office 70 Commercial Street, Suite 300 Concord, NH 03301 (603) 223-2541

P.4. For studies conducted in Delaware and Maryland:

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Field Supervisor Chesapeake Bay Field Office 177 Admiral Cochrane Drive Annapolis, MD 21401 (410) 573-4573

P.5. For studies conducted in North Florida:

Field Supervisor North Florida Ecological Services Office 7915 Baymeadows Way Suite 200 Jacksonville, FL 32256-7517 (904) 731-3336

P.6. For studies conducted in Georgia:

Field Supervisor Georgia Field Office 105 Westpark Drive, Suite D Athens, GA 30606-3175 (706) 613-9493; fax 706/613-6059

P.7. For studies conducted in Illinois:

P.7.a.
Kristen Lundh
Endangered Species Coordinator for Illinois/Iowa
U.S. Fish and Wildlife Service
Ecological Services Field Office
1511 47th Ave.
Moline, Illinois 61265
(309/757-5800, x215; fax 309/757-5807)

P.7.b.
Joe Kath
Endangered Species Coordinator
Illinois Department of Natural Resources
Division of Natural Heritage
One Natural Resource Way
Springfield, Illinois 62702-1271
(217/785-8764; fax 217/785-2438)

P.8. For studies conducted in Indiana:

P.8.a. Lori Pruitt Endangered Species Coordinator for Indiana U.S. Fish and Wildlife Service Ecological Services Field Office 620 S. Walker Street

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Bloomington, Indiana 47403-2121 (812/334-4261 x1213; fax 812/334-4273)

P.8.b. Scott Johnson Indiana Department of Natural Resources 5596 East State Road 46 Bloomington, Indiana 47401 (812/334-1137, ext. 3400)

P.9. For studies conducted in Iowa:

P.9.s.
Kristen Lundh
Endangered Species Coordinator for Illinois/Iowa
U.S. Fish and Wildlife Service
Ecological Services Field Office
1511 47th Ave.
Moline, Illinois 61265
(309/757-5800, x215; fax 309/757-5807)

P.9.b.
Kelly Poole
Endangered Species Coordinator
lowa Department of Natural Resources
Parks, Recreation, and Preserves
Wallace State Office Building
East 9th and Grand Avenue
Des Moines, Iowa 50319-0034
(515/281-8524)

P.10. For studies conducted in Kansas:

Field Supervisor Kansas Field Office 2609 Anderson Avenue Manhattan, Kansas 68502 785/539-3474; fax 785/539-8567

P.11. For studies conducted in Kentucky:

Field Supervisor Frankfort Field Office J C Watts Federal Bldg., Rm 265 330 West Broadway Frankfort, KY 40601-8670 (502) 695-0468

P.12. For studies conducted in Louisiana:

Field Supervisor Louisiana Ecological Services

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646 Cajundome Blvd., Suite 400 Lafayette, La. 70506 Phone 337.291.3100 Fax 337.291.3139

P. 13. For studies conducted in Maine:

Field Supervisors Maine Field Office U.S. Fish and Wildlife Service 17 Godfrey Drive, Suite 2 Orono, ME 04473 Phone: 207-866-3344

P.14. For studies conducted in Maryland:

Field Supervisor Chesapeake Bay Field Office 177 Admiral Cochrane Drive Annapolis, MD 21401 (410) 573-4573

P.15. For studies conducted in Michigan:

P.15.a.
Barbara Hosler
Endangered Species Coordinator for Michigan
U.S. Fish and Wildlife Service
2651 Coolidge Road
East Lansing, Michigan 48823
(517/351-6326; fax 517/351-1443)

P.15.b.
Dan Kennedy
Endangered Species Coordinator
Michigan Department of Natural Resources/
Wildlife Division
P.O. Box 30444
Lansing, Michigan 48909-7444

(517) 284-6194; fax 517/373-6705

P.16. For studies conducted in Minnesota and Wisconsin:

P.16.a.
Phil Delphey
Endangered Species Coordinator for Minnesota and Wisconsin
U.S. Fish and Wildlife Service
Ecological Services Field Office
4101 American Blvd E.
Bloomington, Minnesota 55425
(612/725-3548 x2206; fax 612/725-3609)

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P.16.b. Owen Boyle Wisconsin Department of Natural Resources 101 S. Webster Street Madison, Wisconsin 53707-7921 (608/266-5244)

Owen.Boyle@wisconsin.gov <mailto:Owen.Boyle@wisconsin.gov>

Richard Baker

Minnesota Endangered Species Coordinator Division of Ecological and Water Resources Minnesota Department of Natural Resources 500 Lafayette Rd., Box 25 St. Paul, MN 55155

Phone: 651/259-5073

richard.baker@state.mn.us <mailto:richard.baker@dnr.state.mn.us>

P.17. For studies conducted in Mississippi:

Field Supervisor Mississippi Field Office 6578 Dogwood View Pkwy Ste A Jackson, MS 39213-7856 (601) 321-1122

P.18. For studies conducted in Missouri:

P.18.a. Field Supervisor U.S. Fish and Wildlife Service Missouri Ecological Services Field Office 101 Park DeVille Drive, Suite A Columbia, Missouri 65203-2132 (573/234-2132; fax 573/234-2181)

Scientific Collecting Permit Coordinator Missouri Department of Conservation Endangered Species and Natural History Division 2901 W. Truman Blvd., P.O. Box 180 Jefferson City, Missouri 65102-0180 (573/522-4115 ext. 3322; fax 573/751-4864)

P.19. For studies conducted in Montana:

Project Leader 585 Shepard Way Helena, Montana 59601 Telephone: 406-449-5225 Fax: 406-449-5339

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P.20. For studies conducted in Nebraska:

Assistant Field Supervisor 9325 South Alda Road Wood River, NE 68883 Fax:(308) 384-8835 Phone: (308) 382-6468

P.21. For studies conducted in New Jersey:

Field Supervisor New Jersey Field Office 927 N. Main Street, Building D Pleasantville, NJ 08232-1454 (609) 646-9310

P.22. For studies conducted in New York:

Field Supervisor New York Field Office 3817 Luker Road Cortland, NY 13045 (607) 753-9334

P.23. For studies conducted in North Carolina:

Field Supervisor Asheville Field Office 160 Zillicoa Street Asheville, NC 28801-1082 (828) 258-3939

P.24. For studies conducted in North Dakota:

North Dakota Field Office 3425 Miriam Avenue Bismarck, North Dakota 58501-7926 Phone: (701) 250-4481 Fax: (701) 355-8513

P.25. For studies conducted in Ohio:

P.25.a.
Endangered Species Coordinator for Ohio
U.S. Fish and Wildlife Service
Ohio Ecological Services Field Office
4625 Morse Road, Suite 104
Columbus, Ohio 43230
(614/416-8993, x22; fax 614/416-8994)

P.25.b.

Endangered Species Coordinator

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Ohio Department of Natural Resources Division of Wildlife 2045 Morse Road, Building G Columbus, Ohio 43229-6693 (614-265-6329; fax 614/262-1143)

P.26. For studies conducted in Oklahoma:

P.26.a. Field Supervisor Oklahoma Field Office U.S. Fish and Wildlife Service 9014 E. 21st St. Tulsa, Oklahoma 74129-1428 (918) 382-4501

P.26.b.
Todd Fagin
Oklahoma Natural Heritage Inventory
III E. Chesapeake St.
Norman, OK 73019
405 325-4700 (Direct Line)
405 325-4042 (Oklahoma Biological Survey main office)
405 325-7702 (Fax)
Ifagin@ou.edu <mailto:tfagin@ou.edu>

P.26.c.
Oklahoma Department of Wildlife Conservation
Wildlife Division
1801 N. Lincoln Blvd.
Oklahoma City, Oklahoma 73105
405/990-7259; fax 405/521-4706

P.27. For studies conducted in Pennsylvania

Field Supervisor Pennsylvania Field Office 315 So. Allen Street, Suite 322 State College, PA 16801-4850 (814) 234-4090

P.28. For studies conducted in South Carolina:

P. 28.a. South Carolina Field Office Thomas McCoy, Acting Field Supervisor 176 Croghan Spur Road, Suite 200 Charleston, SC 29407-7558 (843) 727-4707 x227

P. 28.b. Mary Bunch Biologist/Preserve Manager South Carolina Department of Natural Resources 311 Natural Resources Drive Clemson, SC 29631 (864) 654-6738 x15 Fax: (864) 654-9168

P.29. For studies conducted in South Dakota:

South Dakota Ecological Services Field Office

420 S. Garfield Avenue, Suite 400 Pierre, SD 57501-5408 Phone (605) 224-8693

FAX 605-224-9974

P.30. For studies conducted in Tennessee;

P. 30 a. Field Supervisor Cookeville Field Office U.S. Fish and Wildlife Service 446 Neal Street Cookeville, TN 38501-4027 (931) 528-6481

P. 30.b.
Brian Flock
Bat Coordinator
Tennessee Wildlife Resources Agency
P.O. Box 40747
Nashville, TN 37204
(615) 781-6569

P. 31. For studies conducted in Texas:

Regional Recovery Permits Coordinator
U.S. Fish and Wildlife Service - Southwest Region (Region 2)
500 Gold Ave., SW
P.O. Box 1306
Albuquerque, New Mexico 87103-1306
(505/248-6665; fax 505/248-6788)

P.32. For studies conducted in Virginia:

Field Supervisor Virginia Field Office 6669 Short Lane Gloucester, VA 23061 (804) 693-6694

P.33. For studies conducted in West Virginia;

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Field Supervisor West Virginia Field Office 694 Beverly Pike Elkins, WV 26241 (304) 636-6586

P. 34. For studies conducted in Wyoming:

Ecological Services Wyoming Field Office 5353 Yellowstone Road, Suite 308A Cheyenne, Wyoming 82009 Tel: (307) 772-2374

Fax: (307)772-2358



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DEPARTMENT OF THE INTERIOR
U.S. FISH & WILDLIFE SERVICE
Endangered Species Permit Office
1875 Century Boulevard, Suite 200
Atlanta, GA 30345
permitsR4ES@fws.gov

FEDERAL FISH AND WILDLIFE PERMIT

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JACK (J.D.) D. WEHIDE dbs JACKSON GROUP 3945 SIMPLSON LANE RICHMOND, KY 40475 U.S.A.

1 AUTHORITY-STATUTE 16 USC 1539(a)	5
16 USC 1533(d)	
REGULATIONS	
50 CFR 17.22	
50 CFR 17.32	
50 CFR 13	
	AMENDMENT
3 NUMBER	AMENDMENT 1 MAY COPY
3 NUMBER TE148282-3	
3 NUMBER TE148282-3 4 RENEWABLE	5 MAY COPY
3 NUMBER TE148282-3 4 RENEWABLE YES	5 MAY COPY YES

S. NAME AND TITLE OF PRINCIPAL OPTICES. (NY / 16 or Austron)

* TYPE OF PERMIT

NATIVE ENDANGERED & THREATENED SP. RECOVERY - E & WILDLIFE

IB LOCATION WHERE AUTHORIZED ACTIVITY MAY BE CONDUCTED

Location Alabama, Arkansas, Connectiout, Delaware, Florida, Georgia, Illinois, Iowa, Indiana, Kansas, Kentucky, Louisiana, Maiss, Maryland, Massachusetts, Michigan, Minnesora, Mississippi, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Penssylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Virginia, Vermont, West Virginia, Wisconsin, and Wyoming

1. CONDITIONS AND AUTHORIZATIONS.

- A CIDICIAN CONDITIONS SIT OUT IN SUBPART DOF SOCRE 13, AND SPECIFIC CONDITIONS CONTAINED IN FEDERAL REGILATIONS CITED IN BLOCK AT ABOVE, ARE HEREBY MADE A PART OF THIS PERMIT. ALL ACTIVITIES AUTHORIZED HEREIN MUST BE CARRIED OUT IN ACCORD WITH AND FOR THE PERFOSES DESCRIBED IN THE APPLICATION SUBMITTED. CONTRIBUTE VALUETY, OR RENEWAL, OF THIS PERMIT IS SUBJECT TO COMPLETE AND TIMELY COMPLIANCE WITH ALL APPLICABLE CONDITIONS, INCLUDING THE FILING OF ALL REQUERED INFORMATION AND REPORTS.
- B. THE VALIDITY OF THIS PERMIT IS ALSO CONDITIONED UPON STRICT OBSERVANCE OF ALL APPLICABLE FORDIGN, STATE, LOCAL, TRUMAL, OR OTHER PEDITIAL LAW.
- C. VALID FOR USE BY PERMITTER NAMED ABOVE.
- C. Continued: the following individuals are authorized to conduct activities as authorized by this permit: Mr. Jack (J.D.) Wilhide.

Trained assistants not named on this permit may work on permitted bat activities under the direct and on-site supervision of the individuals named above. However, trained assistants may not work independently at a site. Trained assistants are individuals who are considered qualified by the permitted biologist(s) to select sampling sites, deploy sampling equipment and nets, and handle bats in the field.

- D. Acceptance of this permit serves as evidence that the permittee understands and agrees to abide by the terms of this permit and all sections of title 50 Code of Federal Regulations, parts 13 and 17, pertinent to issued permits. Section 11 of the Endangered Species Act of 1973, as amended, provides for civil and criminal penalties for failure to comply with permit conditions.
- E. Permittee is authorized to conduct the following take activities to gray bats (Myotis grisescens), Indiana bats (Myotis sodalis), northern long-eared bats (Myotis septentrionalis), Ozark big-eared bats (Corynorhinus

anual reports are due Jan	pary 31 following each year the permit is effective.	
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townsendii ingens), Virginia big-cared bat (Coryrhinus townsendii virginianus): capture with mist nets, capture with harp traps, handle, measure, identify, band, attach radio-transmitters, wing-punch, light-tag, and enter hibernacula and summer roosts while conducting presence/absence surveys, studies to document habitat use, and population monitoring, as conditioned below.

- F. The permitted activities described above require prior, site-specific approval from the USFWS Field Supervisor in the State(s) where the project will occur. Permittee shall notify the USFWS Field Supervisor for the State in which activities are proposed to occur at least 15 days prior to conducting any activities. Contact information is in Condition P., below. Your request for this site-specific approval must be in writing and must indicate:
- F.1. The purpose and a description of the activities proposed (e.g., surveys, radio telemetry studies, etc.).
- F.2. Location of proposed activities, including project site (legal description and lat/long), county, and state.
- F.3. Dates when the project is proposed to take place.
- F.4. You may proceed with activities only upon receipt of written concurrence from the applicable USFWS Field Supervisor. Your concurrence letter must be carried with this permit to authorize site-specific activities.
- G. Permittee shall adhere to the following conditions involving capture and handling of bats:
- G.1. Federally listed bats may be captured (e.g., mist-nets and harp traps) following the protocol(s) provided by the USFWS, when available. Permittees must contact the USFWS FO in the State(s) in which activities are proposed to ensure correct protocol(s) are used. For example, the current Range-wide Indiana Bat Summer Survey Guidelines are available at:
- http://www.fws.gov/midwest/endangered/mammals/inba/inbasummersurveyguidance.html. The monitoring interval for mist nets is once every 10 minutes. Harp traps must be continually monitored.
- G.2. Captured bats may be held for a maximum of 30 minutes, unless injured. If an exception is required to this prohibition, permittee must receive prior written approval from the USFWS Field Supervisor for the state in which the activities are proposed to occur.
- G.3. Permittees shall carry out non-intrusive measurements on all captured bats. Data shall be recorded for all bats captured and include, but not be limited to, the data requested in any automated or species specific data form provided by the USFWS (e.g., INDIANA BAT SURVEY AND BANDING DATA form). Handling should be limited to the maximum extent practicable and should cease immediately at signs of undue stress (e.g., bat becoming unresponsive, etc.). Bats that appear stressed from handling should be placed in a dark, quiet location away from activity where it can safely fly away after recovery, and should be checked to ensure successful recovery before leaving the study site. Photographs of the identifying characteristics for each individual federally listed species captured are encouraged. The permittee may be requested to provide individual photographs after submittal of annual reporting data.
- G.4. If bands are applied; they must be lipped metal bands having a unique identifier. Bands should be applied to the forearm of captured bats prior to release. No more than one band per bat may be used. Position the band on the wing so that when the bat is hanging upside down, the band numbers are right-side up. A single band should be placed on the right forearm of each male and the left forearm of each female bat.
- G.5. Radio transmitters may be applied during spring, summer, and fall roosting and migration periods via nontoxic skin bond adhesive. The total weight of the transmitter may not exceed 5% of the bat's body weight and the total weight of the package (transmitter and adhesive) may not exceed 6% of the bat's body weight. The lightest package (both transmitter and adhesive) capable of accomplishing the required task should be used,

especially with pregnant females and newly volant juveniles. Bats carrying transmitters must be monitored daily for at least five days, or until the transmitter falls off, whichever occurs first.

- G.6. No capture activities shall occur within 20 meters of a known or potential summer or winter roost site, either natural or artificial, of a federally listed bat. If an exception is required to this prohibition, permittee must receive prior written approval from the USFWS Field Supervisor for the State in which the activities are proposed to occur.
- G.7. Equipment used to capture and handle bats shall be cleaned and decontaminated, including personal gear such as boots and gloves, using products cited in decontamination guidelines and in compliance with label directions. The most recent decontamination guidance is found on the web at: http://whitenosesyndrome.org/
- G.8. Caves, mines, or other suitable hibernation sites may be quietly searched in a manner that minimizes disturbance by utilizing the minimum number of people and time required to complete the survey. Surveys of known hibernacula conducted during the winter hibernation season shall follow the guidelines established in the recovery plans for each federally listed but species with regards to how often a site may be visited and other species-specific requirements related to entering hibernaculum (for example, for Indiana bats, winter surveys should not be repeated more often than once every other year in any given hibernaculum), unless authorized by the appropriate Service Recovery Lead identified in Condition O (below).

Under no circumstances should multiple trips to the hibernation area occur within the same year without written approval of the USFWS Field Supervisor for the state in which activities are proposed.

Bats may be handled during winter surveys in order to collect band information and confirm the identification of listed species. When possible, bands should be read without touching the bat. Banded bats should only be handled if easily accessible and removal of the bat does not disturb a large number of additional bats and is unlikely to result in injury to the bat. Detailed photographs should be taken to document the presence of listed species in previously undocumented hibernaculum. Where hibernacula area and safety conditions allow, individuals entering hibernacula are recommended to utilize night vision goggles or red-filtered light and to remain in the site no more than 90 minutes to complete the work.

- G.9. Surveys of gray bat maternity roosts and their other known summer roost sites shall be conducted by observing the bats with night vision equipment and/or infrared light sources (e.g., thermal infrared) as they emerge from their roosts to avoid any possible disturbance to these bats. At previously undocumented sites for these species, the accepted method to determine if they are present is to carefully and slowly enter the potential roost site to check for evidence of presence/use, such as visual observation of bats, significant quantities or a strong smell of guano, or the audible sounds produced by bats roosting at the site. As soon as any evidence is obtained that the roost site is being used by a federally listed bat species, survey team members shall immediately exit the roost site and make further observations from outside the entrance to the roost. All further observations shall be made from the entrance during the evening emergence.
- H. Upon determination that endangered bats are present, permittee shall notify the following offices immediately (not to exceed 1 business day): the appropriate USFWS Regional Office (Condition N.), and the USFWS Field Office within the geographic location of study areas (Condition P.).
- Permittee must carry a copy of this permit at all times when conducting the authorized activities. NOTE: This
 permit is limited to the above activities and identified species.
- J. Issuance of this permit does not constitute permission to conduct these activities on National Wildlife Refuges or any other public or private lands; such permission must be obtained separately from the appropriate landowner or land manager before beginning these authorized activities. This permit, neither directly nor by implication,

grants the right of trespass.

K. The Service anticipates that no federally listed bats will be injured or killed as a result of permitted activities. In the event that any accidental injury or mortality occurs, all activities must cease and the injury or mortality reported immediately (not to exceed 1 business day) to the applicable office listed in condition N. and to the Lead Recovery Biologist for the species (Condition O). The USFWS will work with the permittee to determine the cause of injury or mortality and whether such could be avoided should activities be allowed to proceed. Dead or moribund bats may be retained for further study only with the written permission of the USFWS. Any bats that are not authorized for retention are to be chilled and promptly transferred to the USFWS for potential necropsy and/or for scientific or educational purposes.

Upon locating a dead, injured, or sick bat, or any other threatened or endangered species, under circumstances not addressed in this authorization, initial notification must be made immediately (not to exceed 1 business day) to the appropriate USFWS Office identified in Condition N., below, including a description of the circumstances, location information, and photo documentation. Notification should also be made at the same time to the appropriate USFWS Field Office identified in Condition P., below. Care should be taken in handling sick, injured, or dead specimens to ensure effective treatment or to preserve biological materials for later analysis. In conjunction with the care of sick or injured threatened or endangered species, and the preservation of biological materials from a dead animal, the permittee should take responsible steps to ensure that the site is not unnecessarily disturbed. Prior to collecting the specimen(s), you must photograph the specimen(s) to document the conditions in which they were found. You may preserve the specimen(s) by freezing them or other suitable method to allow scientific study. Disposition of collected specimen(s) shall be determined by the USFWS Field Office.

- L. This permit is non-transferable.
- M. Reports are due on January 31 following each year this permit is in effect. At a minimum, your report shall include:
- M.1. The date, time, geographic locations (including datum and projection information).
- M.2. All locations surveyed (regardless of whether federally listed bats were captured/observed).
- M.3. Band numbers of all bats banded and all bats recovered/observed.
- M.4. Information on any injuries and/or mortalities and disposition of specimens.
- M.5. Location and characteristics of roost trees and bat colonies.
- M.6. Copies of any separate reports and/or publications resulting from work conducted under the authority of this permit.
- M.7. Data shall be submitted for all bats captured and include, but not be limited to, the data requested in any automated or species-specific data form provided by the USFWS (e.g., INDIANA BAT SURVEY AND BANDING DATA forms, the data collection forms found in the current Rangewide Indiana Bat Summer Survey Guidelines cited in Condition H.1., or other species-specific forms). Photographs of the identifying characteristics for each individual federally listed species captured are encouraged. The permittee may be requested to provide individual photographs after submittal of annual reporting data.
- M.8. Copies of all site specific authorization letters required under Condition F.

IF NO ACTIVITIES OCCURRED OVER THE COURSE OF THE YEAR, INDICATION OF SUCH SHALL BE SUBMITTED AS AN ANNUAL REPORT.

N. Copies of your reports shall be sent to the offices listed below. When possible, electronic copies shall be submitted in lieu of hard copies in MS Word, Portable Document Format, Rich Text Format, or other file format that is compatible with the receiving office.

N.1.

Regional Recovery Permits Coordinator
U.S. Fish and Wildlife Service - Midwest Region (Region 3)
Ecological Services - Endangered Species
5600 American Blvd. W., Suite 990
Bloomington, Minnesota 55437-1458
(612/713-5343; fax 612/713-5292)
permitsR3ES@fws.gov

N 2

Regional Recovery Permits Coordinator
U.S. Fish and Wildlife Service - Southeast Region (Region 4)
1875 Century Boulevard, Suite 200
Atlanta, Georgia 30345-3301
(404/679-7097; fax 404/679-7081)
permitsR4ES@fws.gov

N.3.

Regional Recovery Permits Coordinator
U.S. Fish and Wildlife Service - Northeast Region (Region 5)
Endangered Species Division
300 Westgate Center Drive
Hadley, Massachusetts 01035-9589
(703/358-2402; fax 413/253-8482)
permitsR5ES@fws.gov <mailto:permitsR5ES@fws.gov>

N 4

Regional Recovery Permits Coordinator & Assistant Regional Recovery Coordinator U.S. Fish and Wildlife Service - Mountain-Prairie Region (Region 6) Endangered Species Permits Office Denver Federal Center, P.O. Box 25486 Denver, Colorado 80225-0489 (303/236-4212; fax 303/236-0027) permitsR6ES@fws.gov

- O. Additionally, based on the species, reports and publications shall be submitted to the following:
- O.1. For activities/studies involving Indiana Bats:

Lori Pruitt, Recovery Lead U.S. Fish and Wildlife Service Indiana Ecological Services Field Office 620 S. Walker Street Bloomington, Indiana 47403-2121 (812/334-4261 x1213; fax 812/334-4273)

O.2. For activities/studies involving Gray Bats:

Shauna Marquardt, Recovery Lead U.S. Fish and Wildlife Service Missouri Ecological Services Field Office 101 Park De Ville Drive, Suite A Columbia, Missouri 65203 (573/234-2132 x174; fax 573/234-2181)

O.3. For activities/studies involving Northern Long-eared Bats:

Jill Utrup, Recovery Lead U.S. Fish and Wildlife Service Twin Cities Ecological Services Field Office 4104 American Blvd. E Bloomington, Minnesota 55425 (612/725-3548 x207; fax 612/725-3609)

O.4. For activities/studies involving Ozark Big-eared Bats:

Richard Stark, Recovery Lead
Oklahoma Field Office
U.S. Fish and Wildlife Service
9014 E. 21st St.
Tulsa, Oklahoma 74129-1428
(918) 382-4501
O.5. For activities/studies involving Virginia Big-eared Bats:

Barbara Douglas, Recovery Lead U.S. Fish and Wildlife Service West Virginia Field Office 694 Beverly Pike Elkins, WV 26241 (304) 636-6586

- P. Additionally, based on geographic area, reports and publications shall be submitted to the following:
- P.1. For studies conducted in Alabama:

Field Supervisor Alabama Ecological Services Field Office 1208-B Main Street Daphne, Alabama 36526-4419 (251) 441-5181

P.2. For studies conducted in Arkansas:

Field Supervisor Arkansas Field Office 110 South Amity Road Suite 300 Conway, Arkansas 72032-8975 (501) 513-4470

P.3. For studies conducted in Connecticut, Massachusetts, New Hampshire, Rhode Island and Vermont:

Field Supervisor New England Field Office 70 Commercial Street, Suite 300 Concord, NH 03301 (603) 223-2541

P.4. For studies conducted in Delaware, District of Columbia, and Maryland:

Field Supervisor Chesapeake Bay Field Office 177 Admiral Cochrane Drive Annapolis, MD 21401 (410) 573-4573

P.5. For studies conducted in North Florida:

Field Supervisor North Florida Ecological Services Office 7915 Baymeadows Way Suite 200 Jacksonville, FL 32256-7517 (904) 731-3336

P.6. For studies conducted in Georgia:

Field Supervisor Georgia Field Office 105 Westpark Drive, Suite D Athens, GA 30606-3175 (706) 613-9493; fax 706/613-6059

P.7. For studies conducted in Illinois:

P.7.a.
Kristen Lundh
Endangered Species Coordinator for Illinois/Iowa
U.S. Fish and Wildlife Service
Ecological Services Field Office
1511 47th Ave.
Moline, Illinois 61265
(309/757-5800, x215; fax 309/757-5807)

P.7.b. Joe Kath Endangered Species Coordinator Illinois Department of Natural Resources Division of Natural Heritage One Natural Resource Way Springfield, Illinois 62702-1271 (217/785-8764; fax 217/785-2438)

P.8. For studies conducted in Indiana:

P.8.a.
Lori Pruitt
Endangered Species Coordinator for Indiana
U.S. Fish and Wildlife Service
Ecological Services Field Office
620 S. Walker Street
Bloomington, Indiana 47403-2121
(812/334-4261 x1213; fax 812/334-4273)

P.8.b. Scott Johnson Indiana Department of Natural Resources 5596 East State Road 46 Bloomington, Indiana 47401 (812/334-1137, ext. 3400)

P.9. For studies conducted in Iowa:

Kelly Poole
Endangered Species Coordinator
Iowa Department of Natural Resources
Parks, Recreation, and Preserves
Wallace State Office Building
East 9th and Grand Avenue
Des Moines, Iowa 50319-0034
(515/281-8524)

p.10. For studies conducted in Kansas

Field Supervisor Kansas Field Office 2609 Anderson Avenue Manhatten, Kansas 66502

P.11. For studies conducted in Kentucky:

Field Supervisor Frankfort Field Office J C Watts Federal Bldg., Rm 265 330 West Broadway Frankfort, KY 40601-8670

(502) 695-0468

P.12. For studies conducted in Michigan:

P.12.a.

Barbara Hosler
Endangered Species Coordinator for Michigan
U.S. Fish and Wildlife Service
2651 Coolidge Road
East Lansing, Michigan 48823
(517/351-6326; fax 517/351-1443)

P.12.b.

Dan Kennedy
Endangered Species Coordinator
Michigan Department of Natural Resources
Wildlife Division
P.O. Box 30444
Lansing, Michigan 48909-7444
(517) 284-6194; fax 517/373-6705

P.13. For studies conducted in Minnesota and Wisconsin:

P.13.a.

Phil Delphey
Endangered Species Coordinator for Minnesota and Wisconsin
U.S. Fish and Wildlife Service
Ecological Services Field Office
4101 American Blvd E.
Bloomington, Minnesota 55425
(612/725-3548 x2206; fax 612/725-3609)

P.13.b.

Owen Boyle
Wisconsin Department of Natural Resources
101 S. Webster Street
Madison, Wisconsin 53707-7921
(608/266-5244)

Owen.Boyle@wisconsin.gov <mailto:Owen.Boyle@wisconsin.gov>

P.13.c.

Richard Baker

Minnesota Endangered Species Coordinator Division of Ecological and Water Resources Minnesota Department of Natural Resources 500 Lafayette Rd., Box 25

St. Paul, MN 55155 Phone: 651/259-5073

richard.baker@state.mn.us <mailto:richard.baker@dnr.state.mn.us>

P.14. For studies conducted in Mississippi:

Field Supervisor Mississippi Field Office 6578 Dogwood View Pkwy, Ste A Jackson, MS 39213-7856 (601) 321-1122

P.15. For studies conducted in Missouri:

P.15.a.
Field Supervisor
U.S. Fish and Wildlife Service
Missouri Ecological Services Field Office
101 Park DeVille Drive, Suite A
Columbia, Missouri 65203-2132
(573/234-2132; fax 573/234-2181)

P.15.b.

Scientific Collecting Permit Coordinator Missouri Department of Conservation Endangered Species and Natural History Division 2901 W. Truman Blvd., P.O. Box 180 Jefferson City, Missouri 65102-0180 (573/522-4115 ext. 3322; fax 573/751-4864)

p.16. For studies conducted in Montana

Field Supervisor Montana Field Office 585 Shepard Way, Suite 1 Helena, Montana 59601

P.17. For studies conducted in New Jersey:

Field Supervisor New Jersey Field Office 927 N. Main Street, Building D Pleasantville, NJ 08232-1454 (609) 646-9310

P.18. For studies conducted in New York:

Field Supervisor New York Field Office 3817 Luker Road Cortland, NY 13045 (607) 753-9334

P.19. For studies conducted in North Carolina:

Field Supervisor

Asheville Field Office 160 Zillicoa Street Asheville, NC 28801-1082 (828) 258-3939

p.20. For studies conducted in North Dakota:

Field Supervisor North Dakota Field Office 3425 Miriam Avenue Bismarck, North Dakota 58501

P.21. For studies conducted in Ohio:

P.21.a.

Endangered Species Coordinator for Ohio U.S. Fish and Wildlife Service Ohio Ecological Services Field Office 4625 Morse Road, Suite 104 Columbus, Ohio 43230 (614/416-8993, x22; fax 614/416-8994)

P.21.b.

Endangered Species Coordinator Ohio Department of Natural Resources Division of Wildlife 2045 Morse Road, Building G Columbus, Ohio 43229-6693 (614-265-6329; fax 614/262-1143)

P.22. For studies conducted in Oklahoma:

P.22.a.

Field Supervisor Oklahoma Field Office U.S. Fish and Wildlife Service 9014 E. 21st St. Tulsa, Oklahoma 74129-1428 (918) 382-4501

P.22.b.

Todd Fagin

Oklahoma Natural Heritage Inventory

111 E. Chesapeake St.

Norman, OK 73019

405 325-4700 (Direct Line)

405 325-4042 (Oklahoma Biological Survey main office)

405 325-7702 (Fax)

tfagin@ou.edu <mailto:tfagin@ou.edu>

P.22.c.

Oklahoma Department of Wildlife Conservation Wildlife Division 1801 N. Lincoln Blvd. Oklahoma City, Oklahoma 73105 405/990-7259; fax 405/521-4706

P.23. For studies conducted in Pennsylvania:

Field Supervisor Pennsylvania Field Office 315 So. Allen Street, Suite 322 State College, PA 16801-4850 (814) 234-4090

P.24. For studies conducted in South Carolina:

P.24.a. South Carolina Field Office Thomas McCoy, Field Supervisor 176 Croghan Spur Road, Suite 200 Charleston, SC 29407-7558 (843) 727-4707 x227

P.24.b.
Mary Bunch
Biologist/Preserve Manager
South Carolina Department of Natural Resources
311 Natural Resources Drive
Clemson, SC 29631
(864) 654-6738 x15
Fax: (864) 654-9168

p.25.. For studies conducted in South Dakota

Field Supervisor South Dakota Field Office 420 South Garfield Avenue, Suite 400 Pierre, South Dakota 57501

P.26. For studies conducted in Tennessee:

P.26 a. Field Supervisor Cookeville Field Office U.S. Fish and Wildlife Service 446 Neal Street Cookeville, TN 38501-4027 (931) 528-6481 P.26.b.
Brian Flock
Bat Coordinator
Tennessee Wildlife Resources Agency
P.O. Box 40747
Nashville, TN 37204
(615) 781-6569

P.27. For studies conducted in Virginia:

Field Supervisor Virginia Field Office 6669 Short Lane Gloucester, VA 23061 (804) 693-6694

P.28. For studies conducted in West Virginia:

Field Supervisor West Virginia Field Office 694 Beverly Pike Elkins, WV 26241 (304) 636-6586

p.29. For studies conducted in Wyoming

Field Supervisor Wyoming Field Office 5353 Yellowstone Road, Suite 308A Cheyenne, Wyoming 82009

Appendix C. Completed Data Forms

Deuel County Wind Energy Net Site Data Sheet

Site No.; SD11	Project Name: Deuel County Wind Energy	Site Name: Wsdndc0105	Date: 08/03/2016
County: Deuel	State: South Dakota	Company:	Surveyors: Rex Medlin
KM Block No.:	Approx. Mile Post (XXX.X):	Tract No.:	Permits:

Net Site	Diagram: DeuelCountyWindEnergy_Wsdndc0105_Net	SiteDiagram_1470465411999.png			D	ominant Veget	ation	
\bigcap) N 13 . C	astare	1 Fr	axinus per	nsylva	nica		
<u></u>		w,,, e	Carrie	Net	(s) or	Acoustic Unit(s) by I	Habitat
. /			Net	Habitat		Latitude		Longitude
	7 7 5	_	Α	Corridor	44.87	797785485141	-96	478223515881
	\		В	Corridor	44.87	796864819199	-96	478556594198
1 _	(10 = 1		С	Stream	44.87	798824222838	-96	477956557294
1 ()	SCOP	1721.	D	Stream	44.87	798333630896	-96	47773961646
\	()	1. 200	E	Corridor	44.88	301105795846	-96	47797859282
	17.1	51			No.	of Poles X Net	lengt	h
1_5	10/2/)//	Α	6	×	5.2	=	31.2
C .	(5)	ノレムル	В	9	х	5.2	=	46.8
49	₹6 · ``)(`` ·	(С	4	×	5.2	=	20.8
-			D	6	×	5.2	=	31.2
			E	9	x	5.2	=	46.8

Deuel County Wind Energy Bat Capture Data Sheet
Site Name: Wsdndc0105

Site	No.: SD11		Project Name:	Deuel Co	unty Wind	Energy					Site	Name: W	sdndc0105	5			Date: 08/	03/2016	3		
Cou	nty: Deuel		State: South Do	akota			- 62				Com	pany:			22-17		Surveyor	s: Rex I	Medlin		
KM I	Block No.:		Approx. Mile Po	ost (XXX.	X):						Tract	No.:					Permits:	-			
#	Time	Spec	ies Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Not Name	Net Height	Guano/ Hair	Wing Score	Band # Type	Bat Photos	Note	Date	Moon Phase	Moon II luminat ion(%)	Moor	2	Sun Rise	Sun
									1.						08/0 3/20 16	Waxin g Cres cent	2.4	07:12	21:12	06:19	20:46
															Time	Temp	Sky	T	Win	d	# Bat
															21:3 7	78°F	Partly Ck	oud c	alm (0 mph)	0
															22:11	76°F	Partly Ck	oud Li	ight wind (1	-3 mph)	0
															23:0 5	76°F	Clear	Li)	ight breeze	(4-7 mph	0
															N	et(s) and	l/or Acous	stic Uni	it(s) Lat/Lo	ng (DD.d	ddd):
															#	Net Nan	ne N	w	Compass	Not F	hotos
															"		Acoustic	Unit S	erial #		Brand
																Star	t Time		E	nd Time	

Site Photos: 115.png,115.png,115.png,115.png,123.png,123.png

	te No.: SD11		Project Name: I	Deuel Co	ounty Wind E	nergy					Site	Name: V	Vsdndc010	5			Date: 0	8/04/2016			
C	ounty: Deuel		State: South Da	kota					PATTERNS		Com	pany:					Survey	ors: Rex M	edlin		
K	M Block No.:		Approx. Mile Po	st (XXX	.X);						Tract	t No.:					Permits	c			
	Time	Spec	iles Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing Score	Band # Type	Bat Photos	Note	Dat	e Mor		t Moon	Moor		Sun Set
1	08/04/2016 23:06	Big brown t	bat A	F	Non-repro ductive	45	18	c V	1m		0		113.png		08/0 4/20 16			08:15	21:45	06:20	20:45
															Tin	ne Te	mp Sky	1	Wind	d	# Bats
															20:5	68 68	F Clea	Light wi	ind (1-3	mph)	0
															22:4	12 65	F Clear	Light br	eeze (4-	-7 mph)	0
																THE RESERVE			Colonia in the		_
															23:3	30 64	F Clear	Light wi	ind (1-3	mph)	1
																			- April	mph)	
																			(s) Lat/L	9249	iddd):
																Net(s)	ind/or Aco	ustic Unit	(s) Lat/L	Long (DD.d	Net Photo
															*	Net(s) Net Name	nd/or Acc N 44.879783	ustic Unit W -96.478 088291	(s) Lat/L 663 3 2 8	Long (DD.d Compass 34.2849578	Not Photo: 113.pn
															# A B	Net(s): Net Name	N 44.879783 6439809 44.879838	-96.478 088291 -96.477 721044	(s) Lat/L 663 3 2 8 764 6 5 9	Long (DD.d Compass 34.2849578 357422 54.9522933	Net Photo 113.pn 9 119.pn
															# A B	Net(s): Net Name	N 44.879783 6439809 44.879838 4376713 44.879848	-96.478 088291 -96.477 721044 -96.477 859837	(s) Lat/L 663 3 2 8 764 6 5 9 880 2 4 2	Long (DD.d Compass 34.2849578 357422 54.9522933 359961 279.310333	Net Photos 113.pn 9 119.pn 9
															# A B	Net(s): Net Name	N 44.879783 6439809 44.879838 4376713 44.879848 3098344 44.879959 2985391	-96.478 088291 -96.477 721044 -96.477 859837 -96.477	(s) Lat/L 663 3 2 8 764 6 5 9 880 2 4 2 485 1 8 3	Long (DD.d Compass 34.2849578 357422 54.9522933 359961 279.310333 251953 171.587875 366211	Net Photor 113.pn 9 119.pn 9 120.pn 9

20:45

01:45

Site Photos: 115.png,115.png,115.png,115.png,123.png,123.png,123.png

Site No.: SD11	Project Name: Deuel County Wind Energy	Site Name: Wsdndc0105	Date: 08/05/2016
County: Deuel	State: South Dakota	Company:	Surveyors: Rex Mediin
KM Block No.:	Approx. Mile Post (XXX.X):	Tract No.:	Permits:

KN	M Block No.:		Approx	x, Mile Pos	at (XXX.	X):						Tract	t No.:					Permits:				
#	Time	Spi	ecles	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing	Band # Type	Bat Photos	Note	Date	Moon Phase	Moon II luminat ion(%)	Moon Rise	Moon Set	Sun Rise	Sun Set
1	08/05/2016 01:56	Eastern r	ed bat	A	F	Non-repro ductive	40	15	С	1m		0		122.png		08/0 5/20 16	Waxin g Cres cent	2000	09:17	22:15	06:21	20:44
																Time	e Tem	p Sky		Wind		# Bats
																00:21	62°F	Clear	Light w	and (1-3	mph)	0
																01:21		7,544,7,41	Light w	ind (1-3	mph)	0
																20:18	-	_	Calm (_	_	0
																21:41		Clear	Calm (0
																22:20	-		Calm (0
																23:26	63'F	Clear	Calm () mph)		0
																N	et(s) and	Vor Acou	stic Unit(s) Lat/Lo	ong (DD.d	iddd):
																	Net ame	N	w	c	ompass	Net Photos
																АВ		879780 21472	-96.4787 4872831		7.897583 7812	122.pn g
																#		Acoustic	Unit Ser	ial #		Brand
																1	Star	t Time			End Time	1
															- 1	20:45	2500		C	01:45	alla illina	

Site Photos: 115.png, 115.png, 115.png, 115.png, 123.png, 123.png, 123.png

Site	No.; SD11		Project	Name: D	euel Cou	unty Wind I	Energy					Site I	Name: W	sdndc010	5			Date: 08/	06/2016			
Cour	nty: Deuel		State: S	South Dak	ota							Com	pany:					Surveyor	s: Rex M	edlin		
KM E	Block No.:		Approx.	Mile Pos	ı (XXX.)	K):						Tract	No.:					Permits:				_
	Time	Spec	ies	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing Score	Band # Type	Bat Photos	Note	Date	Moon Phase	Moon II luminat lon(%)	Moon Rise	Moon Set	Sun Rise	Su Se
																Tim	e Te	mp S	ky	Wind		# Bat
																00.04	750 STORY	ALC: THE PROPERTY OF	35 CO. 1 1 1 44 CO.	A CONTRACTOR OF STREET		
																00:04	61"	Cle	ar Ca	ılm (0 mph)	, ,)
																01:23	-		-	ilm (0 mph)	_)
																01:23	58"	Cle	er Ca			0
																01:23 No	58"	Cle	ar Ca	ilm (0 mph)	ng (DD.) iddd):
																01:23 No	58°1 ot(s) and Not Nan	Cle	stic Unit	ilm (0 mph) (s) Lat/Lor ompass	ng (DD.c	dddd): Photos
																01:23 No	58"(ot(s) and Net Nan	Cleaning N	stic Unit	elm (0 mph) (s) Lat/Lor ompass	ng (DD.c	dddd): Photos Brand

Deule County Wind Farm Net Site Data Sheet

Site No.: 6	Project Name: Deule County Wind Farm	Site Name: SD-12	Date: 08/06/2016
County: Deuel	State: South Dakota	Company: Jackson Group	Surveyors: Kat Cunningham
KM Block No.:	Approx. Mile Post (XXX.X):	Tract No.: WSDNDC0081	Permits: TE48049B-0

	Net Site Diagram: DeuleCountyWindFarm_SD12_Net	SiteDiagram_1471855024796.png			Don	ninant Vege	tation	
		ge yas	1 Ulnu	s sp.		221	- 840	
1 -		1~	2 Acer	negundo			III.	
1		$f^{-\lambda}$	Part of	Net(s)	or Ac	oustic Unit	(s) by I	Habitat
14			Net	Habita	t	Latitude		Longitude
')	1_		(A)	Edge	1	4.856823	-	96.540485
(.	2		B	Stream	7	44.856375	-	96.540342
1921	1		(c)	Edge	1	14.856148	-	96.540385
Y WALL	1			N	lo. of	Poles X Ne	t lengti	h
TO	11		A	9	x	5.2	=	46.8
	1100		В	12	X	5.2	=	62.4
1 4			С	9	×	5.2	=	46.8
Brid	2 1 T						-	

Site No.: 6	Project Name: Deule County Wind Farm	Site Name: SD-12	Date: 06/06/2016	
County: Deuel	State: South Dakota	Company: Jackson Group	Surveyors: Kat Cunningham	
KM Block No.:	Approx. Mile Post (XXX.X):	Tract No.: WSDNDC0081	Permits: TE480498-0	

#	Time	Species	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing Score	Band # Type	Bat Photos	Note	Date	Moon Phase	Moon lumina lon(%	t M		Moon Set	Sun Rise	
	08/06/2016 22:50	LABO	A	м	Testes de scended	35.5	10	С	2.5m		0				6/20	Waxin g Cres	l same	10:	15 2	20:42	06:17	20:43
	08/06/2016 22:30	LABO	A	м	Testes de scended	35	10	A	2.5m		0			П	16	cent				92.5		
				-		-			-					_	Tim	e Te	mp	Sky	1 7	Wind		# Bats
														- 1	4 1 2 2 2 2 2	2000					_	
															21:00		C CI	ear	Calm	(0 mph)		
															21:00		2 1 100	ear ear	-	(0 mph)		0
															_	19*0	c cı	9.53	Calm) (
															22:00	19*0	c ci	ear ear	Calm Calm	(0 mph)) (0 2
															22:00 23:00 Ne	19*0	C CI	ear ear	Calm Calm	(0 mph)) (0 2 dddd):
															22:00 23:00 Ne	19"(18"(et(s) and Net Nam	C CI	ear ear ustic (Calm Calm Unit(s)	(0 mph) (0 mph) Lat/Lon	ng (DD.c	0 2 dddd):
															22:00 23:00 No	19"(18"0 et(s) and Net Nan	C CI	ear ear ustic (Calm Calm Unit(s)	(0 mph) (0 mph) Lat/Lon pass	ng (DD.c	0 2 dddd): Photo Brand

Site No.: 6	Project Name: Deule County Wind Farm	Site Name: SD-12	Date: 08/07/2016
County: Deuel	State: South Dakota	Company: Jackson Group	Surveyors: Kat Cunningham
KM Block No.:	Approx. Mile Post (XXX.X):	Tract No.: WSDNDC0081	Permits: TE48049B-0

#	Time	Sp	ecies	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing Score	Band # Type	Bat Photos	Note	Date	Moon Phase	Moon lumina lon(%)	t Mo		Sun Rise	Su Se
	08/07/2016 00:05	LACI		A	м	Testes de scended	50	20	A	5m		0				Time	e Ter	mp	Sky	Wind		# Bat
	08/07/2016	LABO		N/A	N/A	Unknown			A	4m					Esca	00:00	18°0	Ci	эаг	Calm (0 mph)		2
	22:15	1000000		110000	1.00000	SECTION .			~	1770					ped	01:00	17*0	CI	ear	Calm (0 mph)		2
																21:00	20*0	CI	еаг	Calm (0 mph		0
																1	_				_	
																22:00	19*0	CI	ear	Calm (0 mph)		0
																22:00	_	_	ear ear	Calm (0 mph)	-	1
																23:00 Ne	18*0	Vor Aco	ear		ng (DD.	1
																23:00 Ne	18*0 et(s) and Net Nam	Vor Aco	ustic U	Calm (0 mph	ng (DD.	1 dddd
																23:00 Ne	18*0 et(s) and Net Nam	Vor Aco	ustic U	Calm (0 mph init(s) Lat/Lor Compass Serial #	ng (DD.	ddddd Phot

Site Photos:

Site No.: 6	Project Name: Deule County Wind Farm	Site Name: SD-12 Date: 08/08/2016
County: Deuel	State: South Dakota	Company: Jackson Group Surveyors: Kat Cunningham
KM Block No.:	Approx. Mile Post (XXX.X):	Tract No.: WSDNDC0081 Permits: TE480498-0
KW BIOCK NO.,	Approx. Mile Post (AAA.A):	Tract No.: WSDNDC0081 Permits: TE480498-0
ar 1 ac - 1	David DEA Mary May No.	Band Moon II

Time	Species	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing Score	Band # Type	Bat Photos	Note	Date		Moon II luminat ion(%)	Moon Rise	Moon Set	Sun Rise	Sun Set
														Time	Temp	Sky	Г	Wind		# Bats
														00:00	17°C	Clear	Calm (mph)		1
														01:00	16°C	Clear	Calm (mph)		2
														21:00	23°C	Clear	Calm (6	mph)		0
														22:00	21°C	Clear	Light w	ind (1-3 m	iph)	0
													- 1	23:00	20°C	Clear	Light w	ind (1-3 m	nph)	0
														Ne	t(s) and/	or Acous	tic Unit(s) Lat/Lor	ng (DD.c	dddd):
													- 1	#	Net Nam	B N	W Co	mpass	Net	Photos
																Acoustic	Unit Ser	al#		Brand
															Start	Time		E	nd Time	
													- 1	20:45	3		- 0	1:45		

one	No.: 6		Project N	lame: Deu	ile Coun	ty Wind Fa	m)				Site	Vame: S	D-12				Date: U	8/09/2016				
Cour	nty: Deuel		State: So	outh Dako	ta					- Une	Comp	pany: Ja	ckson G	roup			Surveyo	ors: Kat Cu	unninghar	m		
KM E	Block No.:		Approx. I	Mile Post	(XXXX)						Tract	No.: WS	SDNDC0	081			Permits	: TE48049	B-0			
*	Time	Spe	ecles	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing Score	Band # Type	Bat Photos	Note	Date	Moon Phase	Moon II luminat lon(%)	Moon Rise	Moon Set	Sun Rise	Sun Set
																Time	Temp	Sky		Wind		# Bat
																00:00	1000	100				
																00.00	19°C	Clear	Light bre	eze (4-7 i	mph)	0
																01:00	_			eze (4-7 i		0
																01:00	18°C	Clear	Light bre		mph)	0
																01:00	18°C	Clear	Light bre	eeze (4-7 i	mph)	0 ddd):
																01:00	18°C et(s) and Net Nam	Clear	Light bre stic Unit(W Co	eeze (4-7 i s) Lat/Lor ompass	mph) ng (DD.d	0 ddd):
																01:00	18°C et(s) and Net Nam	Clear Vor Acous	Light bre stic Unit(W Co	s) Lat/Lor ompass	mph) ng (DD.d	0 ddd): Photos Brand

Deuel County Wind Energy Net Site Data Sheet

Site No.: Sd13	Project Name: Deuel County Wind Energy	Site Name: Wsdndc0073	Date: 08/06/2016
County: Deuel	State: South Dakota	Company:	Surveyors: Rex Medlin
KM Block No.:	Approx. Mile Post (XXX.X):	Tract No.:	Permits:

Net Site Diagram: DevelCou	ntyWindEnergy_Wsdndc0073_NetSiteDiagram_	1470557535580.png			D	ominant Vegeta	tion	
10	1 5		1 Po	pulous del	loides			
			2 Ac	er negund	0			
	- I	/		Net	(s) or <i>i</i>	Acoustic Unit(s) by H	labitat
		10	Net	Habitat		Latitude		Longitude
651		11,	Α	Stream	44.86	691921721089	-96.	4304969899253
		8	В	Stream	44.82	202035250559	-96.	4525617287461
10	(3)	٦ / ۶	С	Corridor	44.82	200931634312	-96.4	1531283743456
Ĩ	r_1	4			No.	of Poles X Net	length	1
	15	2	Α	4	х	5.2	=	20.8
1	\cap 1	-0 1	В	6	X	5.2	=	31.2
C 5/	() astur	N	С	9	×	5.2	-	46.8
- /(. ESS:	(0)1+						
1879								

Site	No.: Sd13		Project Name:	Deuel Co	unty Wind E	Energy					Site	Name: V	vsdndc007	3			Date: 08/	06/2016			
Cou	nty: Deuel	10.50	State: South D	akota							Com	рапу:					Surveyor	s: Rex M	edlin		
KM	Block No.:		Approx. Mile P	ost (XXX.	X):						Trac	t No.:					Permits:				
#	Time	Spec	iles Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing	Band # Type	Bat Photos	Note	Date	Moon Phase	Moon II luminat lon(%)	Moon Rise	Moon Set	Sun	Sur
						-									08/0 6/20 16	Waxin g Cres cent	0.9000	10:18	22:44	06:22	20:44
															Time	Temp	Sky		Wind		# Bat
															21:01	68°F	Clear	Calm (0 mph)		0
														- 4	22:07	66°F	Clear	Calm (0 mph)		0
															23:15	65*F	Clear	Light w	vind (1-3 r	mph)	0
														- 1	No	et(s) and	or Acou	stic Unit(s) Lat/Lo	ng (DD.	iddd):
															*	Net Nam	e N	W Co	mpass	Net	Photos
															#		Acoustic	Unit Ser	ial#	T	Brand
																Start	Time	I		End Time	
														- 4	_			_	_		

Site Photos: 130.png,130.png,130.png,130.png

								Deu	el County	Wind Er	nergy Bat	Captur	o Data S	Sheet								
Sit	te No.: Sd13		Project	Name: D	euel Co	unty Wind Er	nergy					Site	Name: V	Vsdndc007	3			Date: 08/	07/2016			
Co	ounty: Deuel		State: S	South Dak	cota							Com	pany:					Surveyor	s: Rex M	edlin		
KA	M Block No.:		Approx.	Mile Pos	st (XXX.	X):						Trac	t No.:					Permits:				
	Time	Speci	les	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing	Band # Type	Bat Photos	Note	Date	Moon Phase	Moon II luminat lon(%)	Moon Rise	Moon Set	Sun Rise	Sun Set
1	08/07/2016 01:05	Big brown b	at	A	F	Non-repro ductive	45	21	В	1m		0		120.png		7/20	Waxin g Cres	24.4	11:17	23:12	06:23	20:41
2	08/07/2016 00:50	Eastern red	bat		м	Non-repro ductive	35	10.5		2.5m		0		119.png		16	cent	, as				
				in:	70											Time	Temp	Sky		Wind		# Bats
																00:11	63°F	Clear	Light bro	eeze (4-7	mph)	0

Net(s) and/or	Acoustic Unit(s) Lat/Long (DD.dddd):

Clear Calm (0 mph)

Clear Light wind (1-3 mph)

Calm (0 mph)

Calm (0 mph)

Calm (0 mph)

01:12 63°F

20:39 71°C

21:37 69°F

23:08 66°F

68°F

Clear

22:23

0

0

0

0

0

Brand

#	Net Name	N	w	Compass	Net Photos
A	(B)	44.820519 1875294	-96.453237 0586847	358.486206 054687	128.pn g
В	A	44.818520 733771	-96.452482 461293	234.713211 05957	129.pn 9
С	С	44.819620 2315756	-96.454423 9459815	10.0118494 033814	134.pn g

Start Time	End Time
20:45	01:45

Acoustic Unit Serial #

Site Photos: 130.png,130.png,130.png,130.png

Site No.: Sd13	Project Name: Deuel County Wind Energy	Site Name: Wsdndc0073	Date: 08/08/2016
County: Deuel	State: South Dakota	Company:	Surveyors: Rex Medlin
KM Block No.:	Approx. Mile Post (XXX.X):	Tract No.:	Permits:

-	Approx. Mile Post (XXX.X):								Trac	Tract No.:						Permits:					
	Time	Species	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing Score	Band # Type	Bat Photos	Note	Date	Moon Phase		Moon Rise	Moon Set	Sun Rise	Sur
1	08/08/2016 23:10	Big brown bat	A	F	Post-lacta ting	45	23	В	1m		0		129.png		08/0 8/20	Waxin g Cres	34.4	12:15	23:41	06:24	20:40
2	08/08/2016 21:53	Eastern red bat	A	м	Non-repro ductive	38	10	A	1m		0		121.png		16	cent				77 19	
_									_			_		-	Time	Tomp	Sky		Wind		# Bats
														- 1		64°F	Clear	Light bre	breeze (4-7 mph) 0		
															01:16	63°F	Clear Light breeze (4-7 mph)			mph)	0
															20:51	1 72°F Clear Calm (0 mph)					
																					0
															22:04	69°F	Clear	Calm (0	75-1-100		1
															N		Clear	Calm (0	mph)	_	1
															N	et(s) and Net Nam	Clear	Calm (0 stic Unit(W Co	mph) s) Lat/Lo ompass	Net	1 Iddd):
															N-	et(s) and Net Nam	Clear Nor Acous	Calm (0 stic Unit(W Co	mph) s) Lat/Lo ompass fal #	Net	1 Iddd): Photos Brand

Site Photos: 130.png,130.png,130.png,130.png

Sit	e No.: Sd13		Project I	Name: De	euel Co	unty Wind Er	nergy					Site	Name: V	Vsdndc0073	1			Date: 08/	09/2016			
Co	unty: Deuel		State: S	outh Dak	ota		-					Com	ралу:					Surveyon	s: Rex Me	dlin		
KM	Block No.:		Approx.	Mile Pos	t (XXX.	X):						Trac	t No.:					Permits:				
	Time	Spe	cles	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing	Band # Type	Bat Photos	Note	Date	Moon Phase	Moon II luminat lon(%)	MOOD	Moon Set	Sun Rise	Sun Set
1	08/09/2016 00:01	Eastern re	d bat	A	F	Non-repro ductive	41	15	AV	1m		0		128.png		Time	Temp	Sky		Wind		# Bats
															111	00:06	68°F	Clear	Light bre	eze (4-7	mph)	1
																Ne	et(s) and	or Acous	stic Unit(s) Lat/Loi	ng (DD.d	(ddd):
																#	Net Nam	e N	W Co	mpass	Net	Photos
																				1000	-	
																#	3/8	Acoustic	Unit Ser	ial#		Brand

End Time

01:45

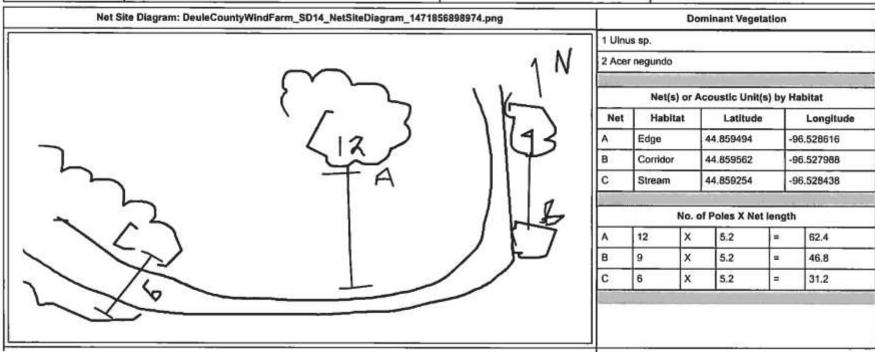
Start Time

20:45

Site Photos: 130.png,130.png,130.png,130.png

Deule County Wind Farm Net Site Data Sheet

Site No.: 7	Project Name: Deule County Wind Farm	Site Name; SD-14	Date: 08/09/2016
County: Deuel	State: South Dakota	Company: Jackson Group	Surveyors: Kat Cunningham
KM Block No.:	Approx. Mile Post (XXX.X):	Tract No.: WSDNDC0081	Permits: TE48049B-0



Site	No.: 7		Project h	Name: De	ule Cour	ity Wind Fa	irm				Site	Name: 5	D-14				Date: 08	3/09/2016				
Cou	nty: Deuel		State: S	outh Dako	ta						Com	pany: Ja	ckson G	roup			Surveyo	rs: Kat C	unningha	m		
KM	Block No.:		Approx.	Mile Post	(XXX.X)						Trac	t No.: W	SDNDC	081			Permits:	TE48049	B-0			
#	Time	Spi	cies	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing	Band # Type	Bat Photos	Note	Date	Moon Phase	Moon II luminat lon(%)	Moon Rise	Moon Set	Sun Rise	Sun
•				•			-									08/0 9/20 16	Waxin g Cres cent		13:12		06:20	20:39
																Time	Temp	Sky	1	Wind	- 4	# Bats
																21:00	27°C	Clear	Light w	ind (1-3 n	nph)	0
															- 1	22:00	26°C	Clear	Light w	ind (1-3 n	nph)	0
															- 1	23:00	24°C	Clear	Calm (0 mph)		0
																Ne	et(s) and	or Acou	stic Unit(s) Lat/Lo	ng (DD.c	iddd):
																#	Net Nam	e N	W Co	mpass	Net	Photos
																#		Acoustic	Unit Ser	lal#	T	Brand
																	Start	Time	1	E	nd Time	

Site Photos:

_	No.: 7		Project N	lame: Deu	ıle Coun	ty Wind Far	m				Site	Name: S	D-14				Date: 0	8/10/2016				
Cour	nty: Deuel		State: So	outh Dako	ta						Com	pany: Ja	ckson G	roup			Survey	ors: Kat C	unningha	ım		
KM E	Block No.:		Approx. I	Mile Post	(XXXXX)						Trac	No.; WS	SDNDCO	081			Permits	: TE48049	9B-0			
-		-					-	200		1000	30,00								015910		100000	2350
#	Time	Sp	ecles	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing Score	Band # Type	Bat Photos	Note	Date	Moon Phase	Moon II luminat ion(%)	Moon	Moon Set	Sun Rise	Sur
-																08/1 0/20 16	First O uarter	50.0	14:10	12:07	06:22	20:37
																Time	Temp	Sk	у.	w	ind	# Bat
																00:0	23°C	Clear		Calm (0 m	nph)	0
																01:0 0	22°C	Clear		Light wind	1 (1-3 mpi	1) 0
															- 1	21:0	21°C	Cloudy o	r Overc	Gentle bre	eeze (8-1	2
																0	8117	ast		mph)		0
																22:0	21°C		r Light	mph) Gentle bre mph)	eeze (8-1	2 0
																22:0		ast Drizzle o	r Light	mph) Gentle bre	eeze (8-1	2 0
																22:0 0 01:2 9	21°C	ast Drizzle or Rain Thunders	r Light storm	mph) Gentle bre mph) Gentle bre	eeze (8-1 eeze (8-1	2 0
																22:0 0 01:2 9	21°C	Orizzle or Rain Thunders	r Light storm	mph) Gentle bromph) Gentle bromph)	eeze (8-1 eeze (8-1 ng (DD.d	2 0
																22:0 0 01:2 9	21°C 21°C et(s) and	Orizzle or Rain Thunders	r Light storm stic Unit	mph) Gentle bre mph) Gentle bre mph) (s) Lat/Loo ompass	ng (DD.d	2 0 2 0 ddd):
																22:0 0 01:2 9	21°C 21°C et(s) and	Drizzle or Rain Thunders d/or Acous	r Light storm stic Unit	mph) Gentle bre mph) Gentle bre mph) (s) Lat/Lo ompass	ng (DD.d	2 0 2 0 dddd):

Site	No.: 7		Project N	Name: De	ule Coun	ity Wind Fa	ım				Site	Name: S	D-14				Date: 0	8/11/2016	10			
Cou	inty: Deuel		State: S	outh Dako	ta						Com	pany: Ja	ckson G	iroup			Survey	ors: Kat Co	unningha	m		
KM	Block No.:		Approx.	Mile Post	(XXX.X)						Trac	No.: WS	BONDCO	0081			Permits	: TE48049	B-0			
	Time	Spi	ecles	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing	Band # Type	Bat Photos	Note	Date	Moon Phase	Moon II luminat lon(%)	Moon Rise	Moon Set	Sun Rise	Su
				- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1												08/1 1/20 16	Waxin g Gibb ous	2000	15:07	12:39	06:23	20:30
																Time	Temp	Sk	у	w	/ind	# Ba
																21:0 0	25°C	Partly Clo	oudy	Light bre ph)	eze (4-7 n	0
																22:0 0	24°C	Cloudy or ast	Overc	Light bre ph)	eze (4-7 n	0
																23:0 0	23°C	Cloudy or ast	Overc	Light bre ph)	еzе (4-7 п	0
																N	et(s) and	Vor Acous	stic Unit	(s) Lat/Lo	ng (DD.de	idd):
																#	Net Nan	ne N	w c	ompass	Net P	hotos
																#		Acoustic	Unit Se	rial #	E	rand
																	Star	t Time		-	end Time	
																20:35				01:35		

Site Photos:

Site t	No.: 7		Project N	lame: Dec	ule Coun	ity Wind Fa	m				Site I	Name: S	D-14				Date: 0	8/12/2016				
Coun	nty: Deuel		State: So	outh Dako	ta						Com	pany: Ja	ickson G	roup			Surveyo	ors: Kat Cu	unningha	m		
KM E	Block No.:		Approx.	Mile Post	(XXX.X)						Tract	No.: WS	SDNDC0	081			Permits	: TE48049	9B-0			
#	Time	Spi	ecles	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Halr	Wing	Band #	Bat Photos	Note	Date	Moon Phase	Moon II luminat	Moon Rise	Moon Set	Sun Rise	Sui
_										0.555.450)—————————————————————————————————————		Туре			08/1 2/20 16	Waxin g Gibb ous	ion(%) 68.0	16:03	01:14	06:24	20:3
																Time	Temp	Sk	у	w	/ind	fi Ba
																00:0	23°C	Cloudy or ast		Light bree ph)	eze (4-7 m	0
																01:0	22°C	Cloudy or ast		Light bree ph)	eze (4-7 m	0
																21:0 0	21°C	Clear		Calm (0 r	mph)	0
																22:0 0	20°C	Clear		Calm (0 r	mph)	0
																23:0 0	19°C	Clear		Calm (0 r	mph)	0
																No	et(s) and	lor Acous	stic Unit	(s) Lat/Lo	ng (DD.dd	ldd):
																#	Net Nan	ne N	w c	ompass	Net PI	hotos
																#		Acoustic	Unit Se	rial#	В	rand
																	Star	t Time	I	E	End Time	

-	No.: 7		Project N	lame: Det	de Cour	ity Wind Fa	ırm				Site	Name: S	5D-14				Date: 08	8/13/201	16				
Cou	nty: Deuel		State: So	outh Dako	ta						Com	pany: Ja	ckson G	roup			Surveyo	ors: Kat	Cunni	ngham			
KM	Block No.:		Approx.	Mile Post	(XXX.X)						Trac	t No : W	SDNDC	081			Permits	TE480	49B-0				
#	Time	Spe	ecles	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing Score	Band # Type	Bat Photos	Note	Date	Moon Phase	Moon lumina ion(%	at M	10 C 10 C 11 C 10 C 10 C 10 C 10 C 10 C	000000	Sun Rise	Sur
																Tim	e Ter	тр	Sky	T v	Wind	1	
																	_	-		-		_	# Bats
																00:00			lear lear	Calm (0	mph)	0)
																01:00	17°C	c	lear	Calm (0 Calm (0	0 mph) 0 mph)	0	
																01:00 No	17°C	lor Aco	lear	Calm (0	0 mph) 0 mph) at/Long	(DD.d) Iddd):
																01:00 No	17°C	C C	ustic W	Calm (0 Calm (0 Unit(s) La	0 mph) 0 mph) at/Long	(DD.d) Iddd): Photos
																01:00 Ne	17°0 et(s) and Not Nam	C C	ustic W	Calm (0 Calm (0 Unit(s) La	0 mph) 0 mph) at/Long	(DD.d) Iddd): Photos Brand

Deuel County Wind Energy Net Site Data Sheet

Site No.: Sd15	Project Name: Deuel County Wind Energy	Site Name: Wsdndc0064	Date: 08/09/2016
County: Deuel	State: South Dakota	Company:	Surveyors: Rex Medlin
KM Block No.:	Approx. Mile Post (XXX.X):	Tract No.:	Permits:

NM BIOCK NO.:	Approx. Mile Post (XXX.X):		Tract No.:			Pi	ermits:		
Net Site	Diagram: DeuelCountyWindEnergy	_Wsdndc0064_NetSiteDiagram_1470	809339842.png			De	ominant Vegeta	stion	(12111.3)
				1 Fr	axinus pen	nsylva	nica		74110
				2 Uli	mus rubra				
/	. <i>N</i>		478	3 Pir	nus spp.				
_		7	, , ,		Net	(s) or /	Acoustic Unit(s) by H	abitat
		es t		Net	Habitat		Latitude		Longitude
				Α	Corridor	44.97	736189580145	-96.6	41444351848
	, '	**		В	Corridor	44.97	35122640105	-96.6	41869442627
TI	دو ایمو			С	Corridor	44.97	34447058709	-96.6	3416346655196
						No.	of Poles X Net	length	
4	7-1		1/2	Α	4	х	5.2	=	20.8
ř.	· 10k #1		112	В	6	×	5.2	=	31.2
	1.00 A	3		С	4	x	5.2		20.8
								(8)	
				1				_	

Site I	No.: Sd15		Project Nam	e: De	uel Cou	unty Wind E	nergy					Site !	Name: W	sdndc0064	1			Date: 08/	09/2016			
Coun	ty: Deuel		State: South	Dako	ota							Com	pany:					Surveyor	s: Rex Me	edlin		
км в	lock No.:		Approx. Mile	Post	(XXX)	K):						Tract	No.:					Permits:				
	-								000			-	- 700								com-	
	Time	Speci	ies A	ge	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing Score	Band # Type	Bat Photos	Note	Date	Moon		Moon Rise	Moon Set	Sun Rise	Sun Set
-2.57	- 10													_		08/0 9/20 16		43.2	23:13		06:26	20:38
																Tim	e Temp	Sk	у	W	/ind	# Bats
																21:1	79°F	Cloudy o	Overc	Light win	d (1-3 mpl	0
																22:0 6	79°F	Partly Cle	oudy	Light bre ph)	eze (4-7 m	0
																23.0 6	76°F	Partly Ck	oudy	Light win)	d (1-3 mp)	0
																23:4	75°F	Few Clou	ids	Calm (0	mph)	0
																	Vet(s) an	d/or Acou	stic Unit(s) Lat/Lo	ong (DD.de	ddd):
																	Net lame	N	w	c	ompass	Net Photo:
																A		1.973912 184298	-96.641 485936		6764907 6914	135.pn g
																В		4.973503 301384	-96.6418 59548		4.597259 1484	136.pn g
																9	9 4	1.973336 282287	-96.641 248296		2540054 1289	137.pn g
																*		Acoustic	Unit Ser	ial #	1 8	Brand
																	Sta	rt Time		-	End Time	
																20:3	290	_	_	11:30		

	e No.: Sd15		Project	Name: D	euel Co	unty Wind E	nergy					Site	Name: V	Vsdndc006	1			Date: 08/	10/2016			
Co	unty: Deuel		State: S	South Dak	cota							Com	pany:					Surveyor	s: Rex Me	edlin		
KN	Block No.:		Approx.	Mile Pos	st (XXX.	X):						Traci	t No.:					Permits:				
	Time	Spec	cies	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing	Band # Type	Bat Photos	Note	Date	Moon Phase	Moon II luminat ion(%)	Moon Rise	Moon Set	Sun Rise	Sun
1	08/10/2016 00:04	Eastern red	d bat	А	N/A	Unknown			С	1m				134.png	Esca ped fr om n et	08/1 0/20 16	Waxin g Gibb ous	53	00:11	14:10	06:27	20:37
		1				1			li .							Time	Temp	Si	ky	v	Vind	# Bats
																00:0 6	74°F	Clear		Light wi	nd (1-3 m	1
																01:0 3	74°F	Clear		Light wi	nd (1-3 m	0
																	74°F 76°F	Clear Partly Clo	oudy	ph)	nd (1-3 m nd (1-3 m	0
																21:0	Same			ph) Light wir ph)	ACELEVOSTERIO.	0
																3 21:0 2 22:1	76*F	Partiy Cic	r Overca	ph) Light wir ph) Light wir ph)	nd (1-3 m	0
																3 21:0 2 22:1 5 23:2 9	76°F 74°F 75°F	Partty Cloudy or st	r Overca r Light R	ph) Light wir ph) Light wir ph) Light wir ph)	nd (1-3 m nd (1-3 m nd (1-3 m	0 0
																3 21:0 2 22:1 5 23:2 9	76°F 74°F 75°F	Partty Cic Cloudy or st Drizzle or ain	r Overca r Light R stic Unit(ph) Light wir ph) Light wir ph) Light wir ph)	nd (1-3 m nd (1-3 m nd (1-3 m	0 0
																3 21:0 2 22:1 5 23:2 9	76°F 74°F 75°F et(s) and	Partly Cloudy or st Drizzle or ain	r Overca r Light R stic Unit(W Co	ph) Light win ph) Light win ph) Light win ph) Light win ph) s) Lat/Lo pmpass	nd (1-3 m nd (1-3 m nd (1-3 m nd (DD.de	0 0 0
																3 21:0 2 22:1 5 23:2 9	76°F 74°F 75°F et(s) and	Partly Cloudy or st Drizzle or ain	r Overca r Light R stic Unit(W Co	ph) Light wir ph) Light wir ph) Light wir ph) s) Lat/Lo pmpass	nd (1-3 m nd (1-3 m nd (1-3 m nd (DD.de	0 0 0 ddd): Photos

Site Name: Wsdndc0064

Date: 08/11/2016

Site No.: Sd15

Site Photos: 138.png,138.png,138.png.138.png

Project Name: Deuel County Wind Energy

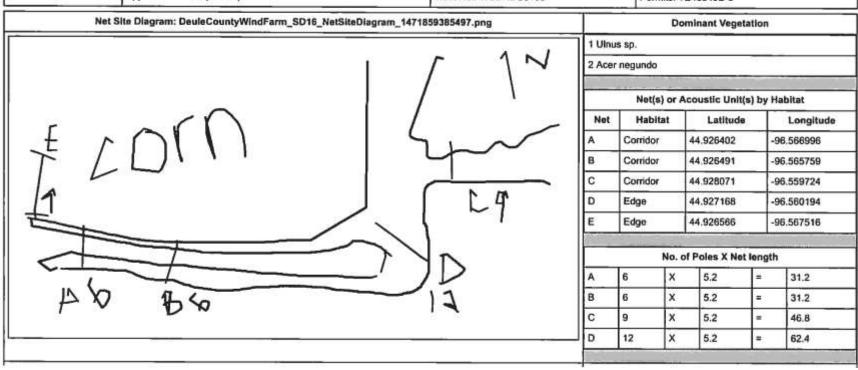
Co	unty: Deuel		State: 5	South Dak	ota							Com	pany:					Surveyor	: Rex Me	idlin		
КМ	Block No.:		Approx	. Mile Pos	t (XXX.)	K):						Trac	t No.;					Permits:				
#	Time	Spec	les	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing Score	Band # Type	Bat Photos	Note	Date	Moon Phase	Moon II luminat lon(%)	Moon Rise	Moon Set	Sun Rise	Sun Set
																08/1 1/20 16	Waxin g Gibb ous	66.5	00:43	15:06	06:44	20:29
																Time	-		Sky	T	Wind	# Bat
																20:26	77°F	-	or Overca:	_	n (0 mph) n (0 mph)	0
																22:08	+	-	or Overca	-	(0 mph)	+
																23:15	73°F	Cloudy o	r Overca	st Calm	(0 mph)	0
																Ne	et(s) and	l/or Acous	stic Unit(s) Lat/Lo	ng (DD.d	ddd):
																#	Net Nan	ne N	W Co	mpass	Net F	hotos
																#	7	Acoustic	Unit Ser	ial#		Brand
																	Star	t Time	-		End Time	
															1	20:30	_		0	1:30		

Onte	No.: Sd15		Project I	Name: De	euel Cou	enty Wind E	nergy					Site	reame: vi	/sdndc006	•			Dale Op	12/2016			
Cou	inty: Deuel		State: S	outh Dak	ota							Com	pany:					Surveyor	s: Rex M	edlin		
KM	Block No.:		Арргох.	Mile Pos	t (XXX.)	O:						Tract	t No.:					Permits:				
#	Time	Spec	les	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing Score	Band # Type	Bat Photos	Note	Date	Moon Phase	Moon II luminat ion(%)	Moon Rise	Moon Set	Sun Rise	Sur
																08/1 2/20 16	Waxin g Gibb ous	71.8	01:20	16:02	06:20	20:34
																Time	Temp	Sky	T	Wind		# Ba
																Time 20:44	_	Sky	Light v	Wind vind (1-3 r	nph)	# Ba
																_	71°F	-	-	300000		-
																20:44	71°F 70°F	Clear	Light v	vind (1-3 r		0
																20:44 21:18 22:19 No	71°F 70°F 68°F	Clear Clear Clear	Caim (vind (1-3 r vind (1-3 r	nph)	O O O dddd):
																20:44 21:18 22:19	71°F 70°F 68°F et(s) and	Clear Clear Clear	Light v Caim (stic Unit	vind (1-3 r vind (1-3 r 0 mph) (s) Lat/Lo ompass	nph)	0 0 0 iddd):
																20:44 21:18 22:19	71°F 70°F 68°F et(s) and	Clear Clear Clear	Light v Caim (stic Unit	vind (1-3 r vind (1-3 r 0 mph) (s) Lat/Lo ompass	nph)	0 0 iddd): Photos Brand

Site	No.: Sd15		Project	Name: D	euel Cou	unty Wind E	nergy					Site	Name: W	sdndc006				Date: 08	/13/20	16		
Cour	nty: Deuel		State: S	outh Dak	ota							Com	pany:					Surveyo	rs: Re	x Medlin		
KM E	Block No.:		Approx.	Mile Pos	t (XXX.)	():						Traci	t No :					Permits:				
*	Time	Spec	ies	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing Score	Band # Type	Bat Photos	Note	Date	Moon Phase	Moon i lumina ion(%)	MO		Sun Rise	Sur Set
																Tim	e Te	mp S	sky	Wind		# Bats
																	-		-	-	_	# Data
																00:41	64*1	F Cle	ar	Calm (0 mph)	0
																00:41			020 II	Calm (0 mph		La Trans
																01:03	64*1	Cle	ar	The state of the s)	0
																01:03 Ne	64*1	Cle	ear estic U	Calm (0 mph	ng (DD.	0 0 dddd):
																01:03 Ne	64*I et(s) and Net Nan	Cle	ear estic U W	Calm (0 mph init(s) Lat/Lo Compass	ng (DD.c	0 0 dddd):
																01:03 Ne	64*i et(s) and Net Nan	Cle	ear estic U W	Calm (0 mph Init(s) LaVLo Compass Serial #	ng (DD.c	0 dddd): Photos Brand

Deule County Wind Farm Net Site Data Sheet

Site No.: 8	Project Name: Deule County Wind Farm	Site Name: SD-16	Date: 08/13/2016
County: Deuel	State: South Dakota	Company: Jackson Group	Surveyors: Kat Cunningham
KM Block No.:	Approx. Mile Post (XXX.X):	Tract No.: WSDNDC0130	Permits: TE48049B-0



	No.: 8		Project Nar	me: Deu	de Coun	ty Wind Fa	m				Site	Name: S	D-16				Date: 0	8/13/2016	1			
Cou	nty: Deuel		State: Sout	th Dakot	ta						Com	pany: Ja	ckson G	roup			Surveyo	ors: Kat Cu	ınningh	am		
KM	Block No.:		Approx. Mil	le Post ((XXX.X):						Trac	No.: WS	SDNDC	130			Permits	: TE48049	B-0			
#	Time	Spe	icles	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing Score	Band # Type	Bat Photos	Note	Date	Moon Phase	Moon II luminat ion(%)	Moor Rise		Sun Rise	Sun Set
																08/1 3/20 16	Waxin g Gibb ous	77.3	16:57	01:55	06:25	20:33
																Time	Temp	Sky		Win	d	# Bats
																21:00	21°C	Clear	L	ight wind (1	-3 mph)	0
																22:00	19°C	Few Clo	uds C	alm (0 mpl	1)	0
																23:00	18°C	Few Clo	uds L	ight wind (1	-3 mph)	0
																	et(s) and Net Nan			it(s) Lat/Lo Compass	1	
																	(4-7-2)				Net	ddd): 'holos
																#	1000	Acoustic				-
																				erial #		Photos

Site	No.: 8		Project N	lame: Det	ule Coun	ity Wind Fa	m				Site	Name: S	D-16				Date: 0	8/14/2016				
Cou	nty: Deuel		State: So	uth Dako	ta		VE-10003				Com	pany: Ja	ckson G	roup			Survey	ors: Kat C	unningh	am		
КМ	Block No.:		Approx. I	Mile Post	(XXX.X)						Trac	t Np.: W	SDNDC	130			Permits	: TE48049	9B-0			
#	Time	Spe	cles	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing	Band # Type	Bat Photos	Note	Date	Moon Phase	Moon II luminat ion(%)	Moor		Sun Rise	Sun
																08/1 4/20 16	Waxin g Gibb ous		17:48	02:41	06:26	20:31
																Time	Temp	Sky		Win	d	# Bats
																00:00	17°C	Few Clo	uds L	ight wind (1	-3 mph)	0
																01:00	17°C	Few Clo	uds L	ight wind (1	-3 mph)	0
																21:00	21°C	Few Clo	uds L	ight wind (1	-3 mph)	0
																22:00	-	Few Clo	uds L	ight wind (1	-3 mph)	0
																23:00	18°C	Clear	C	alm (0 mph	1)	0
																Ne	et(s) and	for Acou	stic Uni	It(s) Lat/Lo	ng (DD.d	ddd):
																#	Not Nan	ne N	w	Compass	Net F	Photos
																#		Acoustic	Unit S	orial #		Brand
																	Star	t Time		E	nd Time	
																20:30	(1)			01:30		

Site Photos:

Site	No.: 8		Project N	ame: ner	ile Coun	ty Wind Fa	m				SHE	Vame: S	D-16				Date: 0	8/15/2016				18
Cour	nty: Deuel		State: Sc	uth Dako	la						Com	pany: Ja	ckson G	roup			Survey	ors: Kat Cu	inningha	ım		
KM E	Block No.:		Approx.	Mile Post	(XXXX)						Tract	No.: WS	SDNDCO	130			Permits	: TE48049	B-0			
	Time	Spe	cles	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing Score	Band # Type	Bat Photos	Note	Date	Moon Phase	Moon II luminat lon(%)	Moon Rise	Moon Set	Sun Rise	Sun
																Time	Temp	Sky		Wine	d	# Bat
																Time 00:00	-	Sky	_	Wind ght wind (1		#Bat
																_	18°C	-	Lig		-3 mph)	
																00:00	18°C	Clear	Lig uds Lig	ght wind (1 ght wind (1	-3 mph)	0
																00:00 01:00 Ne	18°C	Clear Few Clou	Lig uds Lig	ght wind (1 ght wind (1	-3 mph) -3 mph) ng (DD.d	0
																00:00 01:00 Ne	18°C 17°C et(s) and Net Nam	Clear Few Clou	Lig uds Lig stic Units	ght wind (1 ght wind (1 (s) Lat/Lor ompass	-3 mph) -3 mph) ng (DD.d	0 0 ddd):
																00:00 01:00 Ne	18°C 17°C et(s) and	Clear Few Cloud Nor Acous	Lig uds Lig stic Units	ght wind (1 ght wind (1 (s) Lat/Lor ompass rial #	-3 mph) -3 mph) ng (DD.d	0 ddd): Photos Brand

Deuel County Wind Energy Net Site Data Sheet

Site No.: Sd17	Project Name: Deuel County Wind Energy	Site Name: Wsdnc016	Date: 08/13/2016
County: Deuel	State: South Dakota	Company:	Surveyors: Rex Medlin
KM Block No.:	Approx. Mile Post (XXX,X):	Tract No.:	Permits:

Net S	ite Diagram: DeuelCountyWindEnergy_	Wsdnc016_NetSiteDlagram_14	71213937264.png			Don	ninant Vegeta	ition	
				1 Fra	axinus pen	nsylvani	ca		
\sim		4 5 5	helter	2 Ac	er negund	0			
2 / 6	ter y	- 7	Belt		Net	(s) or Ac	coustic Unit(s) by H	abitat
\ '.	Z (T	B L		Net	Habitat	L	atitude		Longitude
\sim	~~·	1		Α	Corridor	44.910	5640454636	-96.5	60403211132
- 1			1	В	Corridor	44.910	8285783277	-96.5	5945622371
1			1	С	Edge	44.910	6898578302	-96.5	5947793284
	f	_	-	D	Edge	44.910	4627501638	-96.5	6029298910
	1 ace		U	E	Edge	44,909	9604227067	-96.5	6030447231
00	=5ture 1	1	1 -	-		No. of	Poles X Net	length	
			797	Α	6	x	5.2	=	31.2
		/ 11	FIAIL	В	6	×	5.2	=	31.2
	_ 1	(IV	16,5	С	6	×	5,2	E	31.2
			**	D	12	×	5.2	=	62.4
				E	9	x	5.2	=	46.8

Site	No.: Sd17	Proj	ect Name: 0	Deuel Co	unty Wind	Energy				- Control of the Cont	Si	te Name	Wsdnc016	6			Date: 08/1:	3/2016			
Cou	nty: Deuel	Stat	e: South Da	kota							C	ompany:					Surveyors:	Rex Med	llin		
KM	Block No.:	Арр	rox. Mile Po	st (XXX.)	X):						Tr	act No.:					Permits:	20			
*	Time	Species	Age	Sex	Repro.	RFA (mm)	Mass	Net	Net	Guano/			Bat	Note	Date	Moon		Moon	Moon	Sun	Su

Time	Species	Age	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing Score	Band # Type	Bat Photos	Note	Di		hace	Moon II luminat lon(%)	Moon	Moon Set	Sun Rise	Sun Set
														08 3/ 16	20 g	Vaxin Gibb us	80.4	02:01	16:56	06:30	20:40
														7	lme	Temp	Sky		Wind		# Bat
														21	:44	68°F	Clear	Light w	ind (1-3 n	nph)	0
														-		64°F	Clear		ind (1-3 n	nph)	0
														22	:35	63°C	Clear	Calm (0	mph)		0
													1	r	Net(s) and/	or Acous	stic Unit(s) Lat/Lo	ng (DD.d	lddd):
														#	Net Nam		N	w	C	ompass	Ne Phot
														A	A		10584 2169	-96.5604 0959496		4.267547 7422	147.g
														В	В		10700 2139	-96.5595 6155984		2.029556 4414	148. g
														С	С		10426 3374	-96,5603 5108898		9.176673 916	149.
														D	(D)		110056 4075	-96.5604 6948878		0750427 5094	150.j g
														Ε	E		10715 6349	-96.5603 8592077		8.780914 5641	151.g
															T	-	Acoustic	Unit Seri	al#		Brand
														P		Start	Time			End Time	
													- 1	20	:30			0	1:30		

Site	No.: Sd17		Project Nan	ne: De	suel Co	unty Wind i	Energy					S	ite Name:	Wsdnc016	5			Date: 08/1	4/2016	3		
Cou	nty: Deuel		State: Sout	h Dak	ota							C	ompany:				- 1	Surveyors	Rex	Medlin		
KM	Block No.:		Approx. Mil	e Post	t (XXX.	X):	- 0.0		all'action		2-1/-	Tr	ract No.:		-6			Permits:				
#	Time	Spec	ios A	ge	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Guano/ Hair	Wing Score		Bat Photos	Note	Date	Moon Phase	Moon II luminat lon(%)	Mod		Sun Rise	Sun Set
-1-							1									08/1 4/20 16	Waxin g Gibb ous	700	02:47	17:47	06:31	20:31
																Time	Temp	Sky		Win	d	# Bats
																00:05	63°F	Clear		Light wind (1	-3 mph)	0
															- 1	01:05	63°F	Clear		Calm (0 mph)	0
																21:00	100	Few Clo		Light wind (1	-3 mph)	0
																22:01	-	Few Clo	_	Light wind (1		0
																23:00	19°C	Few Clo	uds	Calm (0 mph	1)	0
																N	et(s) and	lor Acous	stic Ur	nit(s) Lat/Lo	ng (DD.d	ddd):
																#	Net Nan	ne N	w	Compass	Net I	hotos
																#		Acoustic	Unit 8	Serial #	T	Brand
																	Star	t Time			nd Time	
															- 9	20:30		=		01:30		

Site Photos: 143.png,143.png,143.png,143.png

	9 No.: Sd17		Project Nar	e: Deu	uel Cou	inty Wind E	nergy				s	Site Name	: Wsdnc01	6				Date: 08/1	5/2016	200		
Co	unty: Deuel		State: Sout	Dakot	ta						C	Company	η = = =					Surveyors:	Rex Me	edlin	-	
KM	Block No.:		Approx. Mil	Post ((XXX.X	C):					T	ract No.:						Permits:				
#	Time	Spec	les A	ge s	Sex	Repro. Cond.	RFA (mm)	Mass (g)	Net Name	Net Height	Wing		Photos	Note	l o		Moon Phase		Moon Rise	Moon Set	Sun Rise	Sun Set
1	08/15/2016 00:45	Big brown b	oat	`		Post-lacta ting	48	20	D√	3m	0		135.png		T	me	Temp	Sky	у	w	ind.	# Bats
															111	-						19-50/1003
															000	0:0	19°C	Cloudy or ast	r Overc	Light wind	d (1-3 mph	0
																	19°C	1000 to 1000 miles)	d (1-3 mph eze (4-7 m	7
															0	0:5	19"C	ast Cloudy or	r Overc	Light bree ph)	eze (4-7 m	0
															0	Net	19"C	ast Cloudy or ast	r Overc	Light bree ph)	eze (4-7 m	o idd):
															0004	Net	19°C t(s) and	ast Cloudy or ast	stic Unit	Light bree ph) t(s) Lat/Loc compass	ng (DD.dd	o idd):
															0004	Net	19°C t(s) and	ast Cloudy or ast d/or Acous	stic Unit	Light bree ph) (s) Lat/Lor ompass	ng (DD.dd	0 ldd): hotos

Site Photos: 143.png,143.png,143.png,143.png