



# United States Department of the Interior

## FISH AND WILDLIFE SERVICE

Ecological Services  
3425 Miriam Avenue  
Bismarck, North Dakota 58501



**AUG 24 2010**

Ms. Heather Jandt, Biology Consultant  
Keitu Engineers & Consultants, Inc.  
2610 Old Red Trail Ste. C  
Mandan North Dakota 58554-1447

Re: Four Bears Pipeline, Bridger Pipeline  
LLC, Billings, Dunn, McKenzie  
Counties, North Dakota

Dear Ms. Jandt:

This is in response to your letter dated June 13, 2010, received in our office on July 14, 2010, regarding the proposed construction of a pipeline in Billings, Dunn and McKenzie Counties, North Dakota. The proposed Four Bears Pipeline would be constructed by Bridger Pipeline LLC (Bridger) and would be approximately 73 miles long.

We offer the following comments under the authority of and in accordance with the National Environmental Policy Act of 1969, as amended (42 U.S.C. 4321 et seq.) (NEPA), the Migratory Bird Treaty Act (16 U.S.C. 703 et seq.) (MBTA), the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d, 54 Stat. 250) (BGEPA) and the Endangered Species Act (16 U.S.C. 1531 et seq.) (ESA).

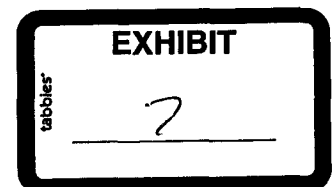
### **Threatened and Endangered Species**

A list of federally endangered and threatened species that may be present within the proposed project's area of influence is enclosed. This list fulfills requirements of the Service under Section 7 of the ESA. This list remains valid for 90 days.

There is designated critical habitat for the piping plover in Dunn and McKenzie Counties. Piping plovers and their critical habitat are protected wherever they occur, regardless of land ownership. In North Dakota, piping plovers begin arriving on their breeding grounds in early to mid-April and are typically gone by September 1. Disturbance from construction activities during this timeframe is possible depending on proximity to birds. The Service recommends that construction activities in these areas take place from September 1 – April 1. Be advised that this timeframe may not coincide with recommended construction timeframes for migratory birds (see below), and both ESA and MBTA construction windows should be considered during project planning. We can provide shapefiles for designated critical habitat for piping plover; however, there are

31 PU-09-750 Filed: 9/13/2010 Pages: 9  
Exhibit 7

Bridger Pipeline LLC



also other suitable wetlands in the project area where plovers may be nesting. Piping plovers nesting on one wetland could be feeding on another. The alkali soils on the wetlands are soft and tracks are easily left behind. Piping plover chicks have been documented to be trapped and/or drowned in depressions as shallow as a few inches. Compaction of soil in dry or frozen conditions has the potential to impact piping plovers for many years after the activity. In order to avoid disturbing these birds and their habitat, we recommend the following precautions when working in potential or known piping plover habitat:

- Total avoidance of the documented and potential nesting wetlands from April 1 – September 1;
- On wetlands with potential or documented plover nesting, use a one-half mile no entry buffer on all shorelines throughout the year;
- All vehicle use should be avoided on any wetland or lake shoreline in the project area.

If you are unable to positively identify piping plover nesting areas, or to maintain a one-half mile no-entry buffer on all nesting wetlands, we recommend that you retain the services of a qualified biologist to survey your project area for these resources. If there is no Federal funding or permit involved in the project, the project proponent is still required to ensure that their activities do not result in take of piping plovers, their eggs or chicks, and do not adversely modify or destroy designated critical habitat.

The Aransas Wood Buffalo Population (AWBP) of endangered whooping cranes is the only self-sustaining migratory population of whooping cranes remaining in the wild. These birds breed in the wetlands of Wood Buffalo National Park in Alberta and the Northwest Territories of northern Canada, and overwinter on the Texas coast. Whooping cranes in the AWBP annually migrate through North Dakota during their spring and fall migrations. They make numerous stops along their migration route to feed and roost before moving on.

Whooping cranes in the AWBP annually migrate through North Dakota during their spring and fall migrations. The proposed project lies within a corridor that includes approximately 95 percent of all reported whooping crane sightings in the State (enclosure). The presence of suitable roosting and feeding habitat for whooping cranes document the potential for whooping crane presence in the proposed project area. Whooping cranes are unlikely to spend more than a few days in any one spot during migration. The Service recommends that if a whooping crane is sighted within one mile of a pipeline or associated facilities while it is under construction, that all work cease within one mile of that part of the project and the Service be contacted immediately. In coordination with the Service, work may resume after the bird(s) leave the area.

Potential habitat for the Dakota skipper exists throughout the project area. In 1995, the Dakota skipper was determined to be a candidate species under the ESA. No legal

requirement exists to protect candidate species; however, it is within the spirit of the ESA to consider these species as having significant value and worth protecting. The Dakota skipper is a small to medium-sized hesperiine butterfly associated with high quality prairie ranging from wet-mesic tallgrass prairie to dry-mesic mixed grass prairie. The first type of habitat is relatively flat and moist native bluestem prairie. Three species of wildflowers are usually present: wood lily (*Lilium philadelphicum*), harebell (*Campanula rotundifolia*), and smooth camas (*Zygadenus elegans*). The second habitat type is upland (dry) prairie that is often on ridges and hillsides. Bluestem grasses and needlegrasses dominate these habitats. On this habitat type, three wildflowers are typically present in high quality sites that are suitable for Dakota skipper: pale purple (*Echinacea pallida*) and upright (*E. angustifolia*) coneflowers and blanketflower (*Gaillardia sp.*). Because of the difficulty of surveying for Dakota skippers and a short survey window, we recommend that the project avoid any impacts to potential Dakota skipper habitat. If Dakota skipper habitat is present near the proposed project, and you intend to take precautions to avoid impacts to skipper habitat, please notify the Service for further direction.

### **Migratory Birds**

The Migratory Bird Treaty Act prohibits the taking, killing, possession, and transportation, (among other actions) of migratory birds, their eggs, parts, and nests, except when specifically permitted by regulations. While the MBTA has no provision for allowing unauthorized take, the USFWS realizes that some birds may be killed during construction even if all known reasonable and effective measures to protect birds are used. The USFWS Office of Law Enforcement carries out its mission to protect migratory birds through investigations and enforcement, as well as by fostering relationships with individuals, companies, and industries that have taken effective steps to avoid take of migratory birds, and by encouraging others to implement measures to avoid take of migratory birds. It is not possible to absolve individuals, companies, or agencies from liability even if they implement bird mortality avoidance or other similar protective measures. However, the Office of Law Enforcement focuses its resources on investigating and prosecuting individuals and companies that take migratory birds without identifying and implementing all reasonable, prudent and effective measures to avoid that take. Companies are encouraged to work closely with Service biologists to identify available protective measures when developing project plans and/or avian protection plans, and to implement those measures prior to/during construction or similar activities.

The BGEPA prohibits anyone without a permit issued by the Secretary of the Interior from taking bald eagles, including their parts, nests, or eggs. The Act provides criminal and civil penalties for persons who take, possess, sell, purchase, barter, offer to sell, purchase or barter, transport, export or import, at any time or any manner, any bald eagle ... [or any golden eagle], alive or dead, or any part, nest, or egg thereof. The Act defines take as pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb. "Disturb means to agitate or bother a bald or golden eagle to a degree that causes, or is likely to cause, based on the best scientific information available, 1) injury to

an eagle, 2) a decrease in its productivity, by substantially interfering with normal breeding, feeding, or sheltering behavior, or 3) nest abandonment, by substantially interfering with normal breeding, feeding, or sheltering behavior." In addition to immediate impacts, this definition also covers impacts that result from human-induced alterations initiated around a previously used nest site during a time when eagles are not present, if, upon the eagles return, such alterations agitate or bother an eagle to a degree that injures an eagle or substantially interferes with normal breeding, feeding, or sheltering habits and causes, or is likely to cause, a loss of productivity or nest abandonment.

Bald and/or golden eagles are known to use the project area where the pipeline will be located. Golden eagles inhabit a wide variety of habitat types, including open grassland areas. They are known to nest on cliffs, in trees, manmade structures, and on the ground (Kochert et al. 2002). While the bald eagle tends to be more closely associated with forested areas near water (Buehler 2000), they have been found nesting in single trees several miles from the nearest water body. Therefore, there may also be potential habitat for the bald eagle at the proposed project site. Especially early in the nesting season, eagles can be very sensitive to disturbance near the nest site and may abandon their nest as a result of low disturbance levels, even from foot traffic. A buffer of at least 0.5 mile should be maintained for golden and bald eagle nests. A permit is required for any take of bald or golden eagles or their nests. Permits to take golden eagles or their nests are available only for legitimate emergencies and as part of a program to protect golden eagles.

The Service recommends that aerial eagle nest surveys be conducted prior to any on-the-ground activities. The Service recommends that an aerial nest survey (preferably by helicopter) be conducted within the one-mile-wide evaluation corridor to identify occupied and unoccupied eagle nest sites near the proposed well pad and associated facilities. The aerial surveys should include surveys for proposed new roads. Aerial surveys should be conducted between March 1 and May 15, before leaf-out so that nests are visible.

Aerial surveys should include the following:

1. Due to the ability to hover and facilitate observations of the ground, helicopters are preferred over fixed-wing aircraft, although small aircraft may also be used for the raptor surveys. Whenever possible, two observers should be used to conduct the surveys. Even experienced observers only find approximately 50 percent of nests on a flight, so we recommend that two flights be performed prior to any on-the-ground work, including other biological surveys or other work.
2. Observations of any eagles and nest sites should be recorded using GPS. The date, location, nest condition, activity status, raptor species, and habitat should be recorded for each sighting.

3. We request that you share the qualifications of the biologist(s) conducting the survey, method of survey, and results of the survey with the Service.

To the extent practicable, schedule construction for late summer or fall/early winter so as not to disrupt waterfowl or other wildlife during the breeding season (February 1 to July 15). If work is proposed to take place during the breeding season or at any other time which may result in the take of bald or golden eagles or other migratory birds, their eggs, or active nests, the Service recommends that the project proponent implement all practicable measures to avoid all take, such as suspending construction where necessary and/or maintaining adequate buffers to protect the birds until the young have fledged. The Service further recommends that if you choose to conduct field surveys for nesting birds, including eagles, with the intent of avoiding take, that you maintain any documentation of the presence of eagles or other migratory birds, eggs, and active nests, along with information regarding the qualifications of the biologist(s) performing the survey(s), and any avoidance measures implemented at the project site. Should surveys or other available information indicate a potential for take of eagles or other migratory birds, their eggs, or active nests, the Service requests that you contact this office for further coordination on the extent of the impact and the long-term implications of the intended use of the project on eagles or other migratory bird populations.

#### **High Value Habitat Avoidance**

According to the Service's National Wetland Inventory maps, the corridor and the study area intersect several wetlands. Wetlands are important for water quality as well as for a variety of wildlife species. The Service suggests that Bridger include a detailed plan to avoid or mitigate for unavoidable impacts to wetlands. This will also avoid impacts to threatened and endangered species as discussed above. If your project will result in unavoidable impacts to wetlands, we request to review a mitigation plan to compensate for all wetland losses. If a 404 permit is required, the Service will provide recommendations on this project to the Corps.

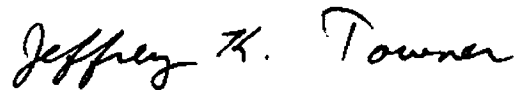
Construction activities should be conducted in a manner that will avoid/minimize impacts to the existing habitat in the project area. The following recommendations are intended to reduce construction related impacts:

- Make no stream channel alterations or changes in drainage patterns.
- Install and maintain appropriate erosion control measures to reduce sediment transport to adjacent wetlands and stream channels.
- Reseed disturbed areas with a mixture of native grass and forb species immediately after construction to reduce erosion. Parts of the proposed project area appear to be grassland habitat. If trenching is performed in these areas, post-construction reseeded of native prairie grasses, forbs and legumes should be completed. The Service suggests that Bridger consider planting a diverse mix of native species to reclaim the grassland areas. Recent research indicates that a

diverse native species mix, including numerous forb species, is not only ecologically beneficial, but is also more weed resistant. A diverse planting of native grasses and forbs allows for less intensive management and chemical use. The more species included in a mixture, the higher the probability of providing competition to resist invasion by non-native plants.

Thank you for the opportunity to comment on this project. If you require further information or the project plans change, please contact me or Heidi Kuska of my staff at (701) 250-4481 or at the letterhead address.

Sincerely,



Jeffrey K. Towner  
Field Supervisor  
North Dakota Field Office

Enclosures

cc: Regulatory Office, Army Corps of Engineers, Bismarck  
(Attn: D. Cimarosti)  
ND Game & Fish Department, Bismarck

FEDERAL THREATENED, ENDANGERED, AND CANDIDATE SPECIES  
AND DESIGNATED CRITICAL HABITAT FOUND IN  
BILLINGS, DUNN AND MCKENZIE COUNTIES, NORTH DAKOTA

**ENDANGERED SPECIES**

Birds

Interior least tern (*Sterna antillarum*): Nests along midstream sandbars of the Missouri and Yellowstone Rivers.

Whooping crane (*Grus Americana*): Migrates through west and central counties during spring and fall. Prefers to roost on wetlands and stockdams with good visibility. Young adult summered in North Dakota in 1989, 1990, and 1993. Total population 140-150 birds.

Fish

Pallid sturgeon (*Scaphirhynchus albus*): Known only from the Missouri and Yellowstone Rivers. No reproduction has been documented in 15 years.

Mammals

Black-footed ferret (*Mustela nigripes*): Exclusively associated with prairie dog towns. No records of occurrence in recent years, although there is potential for reintroduction in the future.

Gray wolf (*Canis lupus*): Occasional visitor in North Dakota. Most frequently observed in the Turtle Mountains area.

**THREATENED SPECIES**

Birds

Piping plover (*Charadrius melodus*): Nests on midstream sandbars of the Missouri and Yellowstone Rivers and along shorelines of saline wetlands. More nest in North Dakota than any other state.

## **CANDIDATE SPECIES**

### Invertebrates

Dakota skipper (Hesperia dacotae): Found in native prairie containing a high diversity of wildflowers and grasses. Habitat includes two prairie types: 1) low (wet) prairie dominated by bluestem grasses, wood lily, harebell, and smooth camas; 2) upland (dry) prairie on ridges and hillsides dominated by bluestem grasses, needlegrass, pale purple and upright coneflowers and blanketflower.

## **DESIGNATED CRITICAL HABITAT**

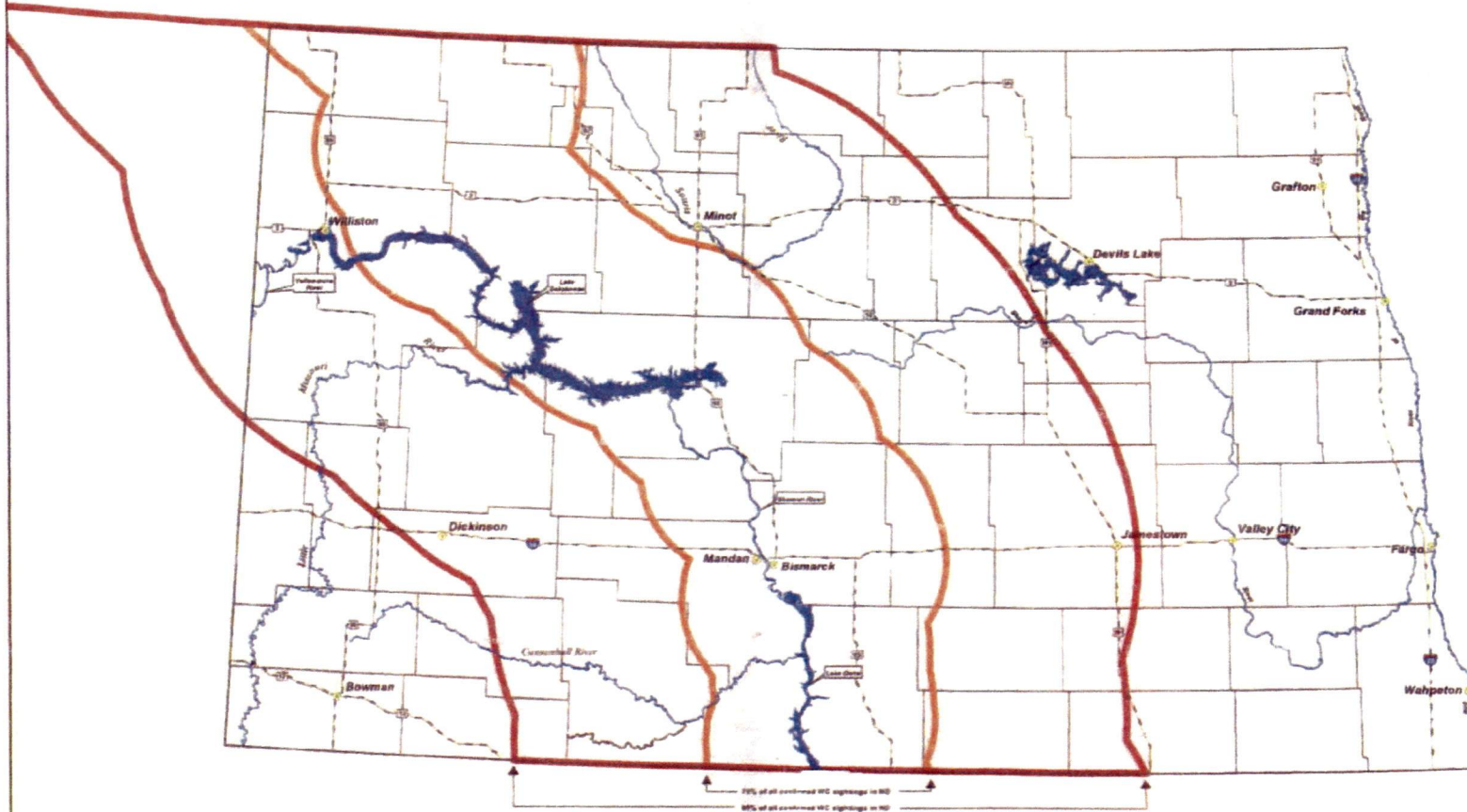
### Birds

Piping Plover - Alkali Lakes and Wetlands - Critical habitat includes: (1) shallow, seasonally to permanently flooded, mixosaline to hypersaline wetlands with sandy to gravelly, sparsely vegetated beaches, salt-encrusted mud flats, and/or gravelly salt flats; (2) springs and fens along edges of alkali lakes and wetlands; and (3) adjacent uplands 200 feet (61 meters) above the high water mark of the alkali lake or wetland.


Piping Plover - Lake Sakakawea and Oahe - Critical habitat includes sparsely vegetated shoreline beaches, peninsulas, islands composed of sand, gravel, or shale, and their interface with the water bodies.



# North Dakota Whooping Crane Migration Corridor



**DISCLAIMER:**  
 The USFWS makes no claim as to the accuracy or completeness of the displayed information. Species occurrence and habitat information is provided for illustrative purposes only. Federal action agencies and project proponents should contact the USFWS North Dakota Field Office for more detailed species information and technical assistance in evaluating potential project impacts to fish and wildlife resources.  
 Map produced 04/21/2010 by USFWS Ecological Services, Bismarck, ND.

 75% Whooping Crane Migration Corridor  
 95% Whooping Crane Migration Corridor

