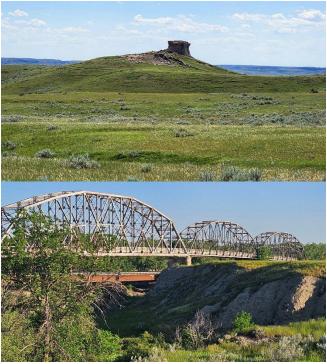


# Finding of No Significant Impact And Final Environmental Assessment

# Dry-Redwater Rural Water Project MTAO-EA-2024-003

Montana Area Office, Missouri Basin Region





# **Mission Statements**

The U.S. Department of the Interior protects and manages the Nation's natural resources and cultural heritage; provides scientific and other information about those resources; and honors its trust responsibilities or special commitments to American Indians, Alaska Natives, and affiliated Island Communities.

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.

# **Dry-Redwater Rural Water Project Finding of No Significant Impact**

# Introduction

The U.S. Bureau of Reclamation (Reclamation), Montana Area Office, has prepared this Finding of No Significant Impact (FONSI) to comply with the National Environmental Policy Act<sup>1</sup>. The Dry-Redwater Rural Water Project Final Environmental Assessment (EA) documents the Proposed Federal Action, alternatives considered, a summary of the environmental effects, and any minimization measure aimed at reducing potential impacts of the Proposed Action Alternative.

# **Purpose and Need**

The purpose and need of the proposed project is to provide consistent and reliable good quality water within the Dry-Redwater Regional Water Authority (DRWA) service area. The DRWA service area is located in Northeastern Montana for the following counties: Garfield, McCone, Richland, Dawson, and Prairie. This area includes the following communities:

- The towns of Circle, Richey, and Jordan;
- The unincorporated towns of Lambert, Savage, Bloomfield, Brockway, Brusett, Cohagen, Lindsay, and Vida; and
- The water districts of Highland Park, Forrest Park, and Whispering Tree.

Throughout the DRWA service area, residents, schools, and communities struggle to obtain reliable, good quality drinking water via private or public groundwater wells. The groundwater throughout the service area is limited in quantity and is high in inorganic chemicals like sodium and sulfates. The deeper wells are high in fluoride and sodium that require expensive treatment options to meet the Primary Drinking Water Standards.

<sup>&</sup>lt;sup>1</sup> Executive Order 14154, Unleashing American Energy (Jan. 20, 2025), and a Presidential Memorandum, Ending Illegal Discrimination and Restoring Merit-Based Opportunity (Jan. 21, 2025), require the Department to strictly adhere to the National Environmental Policy Act (NEPA), 42 U.S.C. §§ 4321 et seq. Further, such Order and Memorandum repeal Executive Orders 12898 (Feb. 11, 1994) and 14096 (Apr. 21, 2023). Because Executive Orders 12898 and 14096 have been repealed, complying with such Orders is a legal impossibility. Reclamation verifies that it has complied with the requirements of NEPA, including the Department's regulations and procedures implementing NEPA at 43 C.F.R. Part 46 and Part 516 of the Departmental Manual, consistent with the President's January 2025 Order and Memorandum. Reclamation has also voluntarily considered the Council on Environmental Quality's rescinded regulations implementing NEPA, previously found at 40 C.F.R. Parts 1500–1508, as guidance to the extent appropriate and consistent with the requirements of NEPA and Executive Order 14154.

# **Proposed Action**

Under the Proposed Action, DRWA would receive congressional authorization and funding to construct a regional water system that would provide clean drinking water to residents of northeastern Montana. The DRWA would be responsible for the financial administration of the system, operation and maintenance, billing and collection, and all other duties and or items required for operations. The Proposed Action includes approximately 1,335 miles of pipelines, 116 miles of electrical lines, intake structures, water treatment plants (WTP), pump stations, and storage tanks. To ensure environmental impacts are reduced to the maximum extent possible, the environmental commitments identified in Appendix G of the Dry-Redwater Rural Water Project Final EA would be implemented as part of the Proposed Action. To track the implementation of environmental commitments, Reclamation would put together an Interdisciplinary Team that would have yearly meetings and site visits to oversee construction activities. Appendix G is attached to this document for reference.

# **Summary of Environmental Effects/Conservation Measures**

# Vegetation

Vegetation communities would be permanently affected by the construction of aboveground facilities such as pumping plants, water treatment plants, water storage tanks, transmission line towers, permanent access roads, and an electrical substation. The environmental commitments, including those specific to lands administered by BLM, would minimize or avoid potential minor adverse effects on vegetation communities.

### **Invasive and Noxious Weeds**

The Proposed Action has the potential to spread invasive and noxious weeds by creating disturbed soils favored by invasive weeds, and by introducing their seeds to disturbed areas by inadvertently spreading weed seeds and rhizomes into areas not previously infested. The environmental commitments, including those specific to lands administered by BLM, would minimize or avoid potential minor adverse effects related to the spread of invasive and noxious weeds.

### Wetlands and Riparian Areas

Construction would have minor to moderate short-term and temporary effects to wetlands and riparian areas. These impacts would be associated with construction of the water intakes in Fort Peck Reservoir and in the Missouri River. The pipeline would be routed around wetlands to the extent possible and wetlands that can't be avoided, would be bored under. There would be no major long-term loss of riparian or wetlands due to the proposed action.

## Special-Status Plants

Construction of proposed components would involve actions such as vegetation clearing, soil excavation, piling of soil materials, and increased vehicle, equipment, and human traffic, which could result in losses of individual special-status plants and degradation of habitat. Effects may include increased erosion, dust deposition, and spread of invasive species and noxious weeds. Indirect effects as a result of soil disturbance and vegetation removal increases the potential for colonization of invasive species and noxious weeds, which could affect special status plants and habitats through competition and increased fire regimes.

Drift of herbicides associated with treatment of noxious weeds within the right of way (ROW) may inadvertently cause mortality to special status plants. Increased access on new and existing access roads could result in dust deposition, which could inhibit photosynthesis, reproductive ability, and various metabolic processes for individual plants. Increased access in the ROWs could increase potential for illegal collection of commercially desirable special status plants.

### Fish

Fish communities could be adversely impacted by the construction of the water intakes in Fort Peck Reservoir and on the Missouri River downstream of Fort Peck Dam. To reduce impacts to fish communities, screens would be installed on all intake to reduce chances of entrainment. Most river and wetland crossings would be bored reducing the potential for fishery impacts.

### Wildlife

Construction activities would temporarily displace wildlife present in the immediate area of the activities, like mule deer or sharp-tailed grouse. Land disturbance activities associated with the Proposed Action would occur within the 50-foot-wide construction easement width on either side of the proposed trench for pipeline installation. Most of the pipeline construction and installation activities would occur within or immediately adjacent to state and county ROWs. These areas are adjacent to roads and receive regular physical and noise disturbance due to traffic and road maintenance activities. The distribution of wildlife is low within these areas relative to the region. Any wildlife displaced during the pipeline installation phase would resume to normal activities upon completion of the activities.

The proposed project crosses several areas of important sage grouse habitat. The proposed electric transmission lines would traverse 29.14 miles of Core Habitat and 28.20 miles of General Habitat. The proposed electric distribution lines would traverse 13.97 miles of Core Habitat and 17.17 miles of General Habitat. There are 32 leks potentially affected by the Proposed Action owing to encroachment into lek buffer zones. With the implementation of conservation measures, effects to greater sage grouse would be minor.

# **Endangered Species Act – Threatened and Endangered Species**

The Proposed Action could potentially impact the ESA listed pallid sturgeon and whooping crane. Pallid sturgeon could be impacted by the construction of water intakes and by the long-term withdrawal of water. Screening criteria specific to the pallid sturgeon would be implemented at all water intakes located in pallid sturgeon habitat (Missouri River downstream of Fort Peck). In-water work would be restricted from April 15 – July 1 to avoid impacts to spawning pallid sturgeon

Impacts to whooping cranes would be minimized by conducting preconstruction surveys in areas that are known as migration corridors.

# **Bald and Golden Eagles**

Collisions with and electrocutions from high voltage powerlines could be a threat to golden and bald eagles. Direct effects to birds during operation of electric lines include risk of mortality and injury from in-flight collision and electrocution with transmission lines, which would be minimized with incorporation of APLIC guidelines per the environmental commitments. Effects would be minor after implementation of additional environmental commitments.

# **Migratory Birds**

Collisions with and electrocutions from high voltage powerlines could be a threat to migratory birds. Direct effects to birds during operation of electric lines include risk of mortality and injury from inflight collision and electrocution with transmission lines, which would be minimized with incorporation of APLIC guidelines per the environmental commitments. Effects would be minor after implementation of additional environmental commitments.

# Fort Peck Reservoir and Missouri River Streamflow

The Proposed Action would require diversion of about 332.5 acre-feet per month on average from Fort Peck Reservoir or the Missouri River (in the case of the satellite intakes). By month, the percent change of legally available water in Fort Peck Reservoir associated with the Proposed Action ranges between -0.88% and -0.05%. In DRWA's Beneficial Water Use Right Permit (NO. 40E 30064997), DNRC concluded that water can reasonably be considered legally available during the period in which the applicant seeks to appropriate, in the amount requested; and that the water rights of a prior appropriator would not be adversely affected. The Environmental Assessment for Routine Actions with Limited Environmental Impact (DNRC 2013) concluded that there would be no significant effect to Fort Peck Reservoir's levels due to use of the water right.

# **Floodplains**

The Proposed Action would be located in approximately 120 acres each of Flood Zone A and AE, which have 1 percent annual chance of flood hazard. The Proposed Action would use underground construction activities such as HDD to avoid larger waterbodies that may occur within or adjacent to the Project study area and would not impede flood flows.

# **Water Quality**

The project would only have very minor impacts to water quality due to construction of the water intakes in Fort Peck Reservoir or the Missouri River downstream of Fort Peck Dam. Small releases of turbidity are possible during construction activities, however, no long-term effects to water quality are anticipated.

### **Groundwater**

The Proposed Action avoids all known well locations. In some instances, the new water service available to DRWA customers may result in a change of use from groundwater sources. This could reduce the current use of groundwater in a manner that may be beneficial to groundwater resources over time.

### Soils

The Project study area, approximately 2,457 acres of sensitive soil, would be subject to some level of temporary surface disturbance over the period of construction. Approximately 143 acres of BLM-managed land within the Project study area have soils classified as sensitive under the BLM Resource Management Plan (RMP). These lands would be subject to the environmental commitments specific to BLM lands.

Short-term adverse effects include disturbed soil for a brief period at any one location within the Project study area caused by grading and excavation activities. Soils exposed during construction would be restored following excavation with temporary erosion control measures. Once construction and initial site-restoration measures have been completed, subsequent revegetation and

monitoring efforts would be performed consistent with applicable federal, state, and local requirements. After construction and site restoration activities have been completed, the potential for soil erosion would be reduced to conditions similar to the existing condition.

# Farmland of Statewide Importance

There are 3,085 acres of Farmland of Statewide Importance in the Project study area. Construction activities would be performed over the course of up to 10 years in phases. Short-term, temporary adverse effects would occur on these lands over the course of the construction period. Only a portion of the Project study area would be subject to disturbance in any one year. Approximately 50 acres would be converted to non-farmland in conjunction with the construction of permanent facilities over the period of construction.

As part of the restoration efforts, revegetation would be initiated at the appropriate time to take advantage of seasonal growing conditions. It is anticipated that several growing seasons would be required to reestablish the productivity of disturbed lands.

# **Paleontological Resources**

All paleontological resources would be identified and surveyed prior to construction of the proposed project. Any resources identified would be avoided to the extent possible. If they can't be avoided they would be mitigated. No long-term adverse effects to paleontological resources would be anticipated.

### **Cultural Resources**

All cultural resources would be identified and surveyed prior to construction of the proposed project. Any resources identified would be avoided to the extent possible. If they can't be avoided they would be mitigated. No long-term adverse effects to cultural resources would be anticipated.

### Socioeconomics

Communities and rural households in the Project study area have indicated their willingness to pay for the benefits of the Proposed Action through a recent economic survey conducted by DRWA. Initial analyses of the survey data have found that households are willing to pay approximately \$57 to \$146 per month above their existing water costs for better water. Though it is unclear how much cost savings families would benefit from under the Proposed Action, a reduction in household water treatment systems and appliance maintenance and replacement could represent a long-term economic benefit.

### Land Use

Temporary construction effects would occur on approximately 60 acres of land managed by the USACE. After completion of site-specific reclamation/restoration efforts on these lands, approximately 6 acres of these lands would be subject to permanent effects associated with operation and maintenance of the infrastructure and improvements (e.g., intake, access road). Burial of electrical distribution lines would reduce visual effects to residences within and adjacent to the Project study area.

Temporary construction effects would occur on approximately 544 acres of land managed by the BLM. After completion of site-specific reclamation/restoration efforts on these lands,

approximately 65 acres of land would be subject to permanent effects associated with operation and maintenance of the infrastructure and improvements (e.g., intake, pump station, access road).

Temporary, minor adverse effects of construction of the waterlines and electrical lines would occur on approximately 964 acres of land managed by the DNRC. After completion of site-specific reclamation/restoration efforts on these lands, approximately 166 acres of these lands would be subject to permanent effects associated with operation and maintenance of the infrastructure and improvements (e.g., intake, pump station, access road). Minor but permanent adverse effects associated with the permanent footprint of electrical lines would persist, but over time mitigation measures would reduce those effects.

Temporary effects related to constructing the Proposed Action would occur on approximately 15,984 acres of private lands, with 331 acres of permanent effects associated with aboveground components remaining after construction. While private lands within the four counties included in the Project study area are all subject to the respective county jurisdictions, there are no land use plans or local planning guidance applicable to the Proposed Action. Therefore, construction and operation of the Proposed Action on private lands would be consistent with consent of individual landowners.

### **Visual Resources**

The Proposed Action would consist of new infrastructure and existing facilities that would be necessary to construct and operate the Proposed Action. The construction of permanent components associated with two (Missouri 1, Missouri 8) of the satellite WTPs and associated facilities intakes would occur on BLM-managed lands designated as VRM Class II. These facilities could result in an adverse effect on the visual characteristics of the lands managed by BLM and would be inconsistent with the BLM RMP objectives for these lands. Adverse effects would be considered a minor.

### Recreation

No significant impacts to recreation were identified.

### Traffic

The Proposed Action would result in a small increase in vehicle use of these roads during the timeframe construction would occur. As proposed, about 10 percent of the Proposed Action would be constructed each year for a period of about 10 years. Each construction phase would have an effect on some proportion of the highways and roads throughout the DRWA service area. There would be an increase of 10-20 vehicles using one or more highways and local roads as part of the Proposed Action; about a three percent overall increase in AADT throughout the DRWA service area. This slight increase would not be considered an adverse effect on traffic.

# **Consultation, Coordination, and Public Involvement**

Reclamation and DRWA have participated in extensive outreach and communication with federal, state, and local agencies that may have jurisdiction or a regulatory responsibility over the Proposed Action. Reclamation reached out to the US Army Corps of Engineers (USACE), U.S. Bureau of Indian Affairs (BIA), U.S. Bureau of Land Management (BLM), Natural Resource and Conservation Services (NRCS,) U.S. Fish and Wildlife Service (USFWS), the Western Area Power Administration (WAPA), and the DNRC to solicit interest on participating as a cooperating agency in this EA. The

NRCS, USACE, and WAPA have agreed to function as Cooperating Agencies. BLM declined to be a Cooperating Agency at this time, but they will be consulted at a later time to provide supplemental NEPA guidance.

Reclamation also completed Tribal consultations and sent letters to the following Native American tribes to gage interest in the proposed project.

- Fort Belknap Indian Community
- Crow Tribe
- Three Affiliate Tribes of the Fort Berthold Reservation, North Dakota
- Little Shell Chippewa Tribe
- Turtle Mountain Band of Chippewa
- Turtle Mountain (Trenton Indian Service Area)

The scoping period began on November 14, 2023, with the publication of the scoping meeting notices, and closed on December 15, 2023. Scoping meeting notices were mailed to all government agencies, tribal governments and individuals determined to be a stakeholder in the DRWA service area. Reclamation and DRWA hosted three public scoping meetings in Billings, Jordan and Circle.

The draft EA was released for public review on October 11, 2024. The document was made publicly available on Reclamation's website. Public comments could be submitted via mail or email. The 30-day public review and comment period for the Draft EA ended on November 9, 2024. Reclamation and DRWA hosted three public meetings to present the Draft EA and receive comments. These meetings occurred in Billings, Circle and Jordan.

Finalized documents will be made available on Reclamation's Montana Area Office webpage: <a href="https://www.usbr.gov/gp/mtao/dry-redwater/">https://www.usbr.gov/gp/mtao/dry-redwater/</a>.

# **Finding**

Approved:

Based on the analysis of the environmental impacts as described in the EA, the Bureau of Reclamation, Montana Area Office, finds that all potentially significant issues and resource impacts have been identified, evaluated, addressed and resolved. In accordance with the National Environmental Policy Act of 1969, as amended, Reclamation has determined that the Proposed Action will not have significant impacts on the quality of the human environment and that an Environmental Impact Statement is not required.

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Kvan Newman	Ryan Newman		



Appendix G

# **Environmental Commitments**

Final Environmental Assessment Dry-Redwater Rural Water Project, Montana Montana Area Office – Missouri Basin Region

# Appendix G

# **Environmental Commitments**

Final Environmental Assessment Dry-Redwater Rural Water Project, Montana Montana Area Office – Missouri Basin Region

prepared by:

United States Department of the Interior Bureau of Reclamation Montana Area Office

**April 2025** 

MTAO-EA-2024-003

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# **Abbreviations and Acronyms**

APE Area of Potential Effect

BLM U.S. Bureau of Land Management

DRWA Dry Redwater Regional Water Authority

HDD horizontal directional drilling

MDEQ Montana Department of Environmental Quality

PFYC Potential Fossil Yield Classification

Reclamation U.S. Bureau of Reclamation

ROW right of way

SHPO State Historic Preservation Office SPCC Spill Prevention and Control Plan

SUT Seasonal use timeframe

USACE U.S. Army Corps of Engineers
USFWS U.S. Fish and Wildlife Service

USGS U.S. Geological Survey

**Appendix G – Environmental Commitments** 

# **Environmental Commitments**

Environmental commitments are implemented to avoid, minimize, or monitor environmental impacts associated with the Proposed Action. These commitments have been developed in coordination with federal, state, and local agencies. If authorized, a more detailed identification of resources and development of site-specific measures would be developed to minimize, avoid, or mitigate impacts during subsequent design and planning efforts.

# Vegetation

Prior to construction and all other surface-disturbing activities, the Applicant shall conduct and submit an inventory (including field surveys) of biological resources within the Project study area, including vegetation communities, Waters of the U.S. (including wetlands), locations of noxious weed populations, and special-status species. If changes are made to the extent or alignment of the Proposed Action following the completed field surveys, additional field surveys would be conducted within the Project study area, as refined during final design and permitting.

- A Biological Resources Report describing vegetation, fish, and wildlife resources shall be submitted to the U.S. Bureau of Reclamation (Reclamation) and cooperating agencies for review at least 120 days before the start of construction, and shall be modified in response to agency comments, with the final report completed at least 60 days before the first ground disturbance.
- Prior to mobilization of construction equipment and supplies the Area of Direct Impact shall be identified with flagging, lathe stakes, or wildlife exclusion fencing consistent with agency and landowner requirements. The access routes to the Area of Direct Impact, staging areas, and material storage areas shall be delineated prior to mobilization of construction equipment or supplies. Flagging, stakes, or fencing shall be maintained throughout the duration of construction activities.
- All equipment, vehicles, and construction work shall be confined within delineated areas. Signage shall be used to direct construction traffic to and from approved access routes.
- A noxious weed control plan shall be submitted to applicable agencies consistent with applicable permit or right-of-way (ROW) conditions.
- Minimum bore depths shall be determined when boring under sensitive communities and special-status plant occurrences to prevent damage or plant mortality.

### **Appendix G – Environmental Commitments**

- Ground disturbance and vegetation clearing shall be limited to the minimum extent practicable. Open excavations shall be backfilled with native soil and recompacted after installation of the conduit.
- At locations where the excavated material is not adequate for backfilling, construction crews shall remove it from the project workspaces and dispose of at a pre-approved location within the Project study area. In areas where backfill material must be imported (e.g., areas where excavated material has high rock content), soils shall be obtained from weed seedfree, commercially available sources.

### • Site Restoration

- O A biologist(s) with expertise in eastern Montana ecosystems and native plant revegetation techniques shall prepare and implement a Revegetation and Restoration Plan for review and approval by appropriate federal, state, and trustee agencies. Approval of the plan shall be completed before construction starts. Implementation of the plan shall commence within one year of construction's conclusion. Annual monitoring reports shall be prepared by Reclamation and the Dry-Redwater Regional Water Authority (DRWA) and submitted to the applicable federal and state agencies.
- After completion of project activities, all temporarily disturbed work areas shall be restored to their pre-construction contours, and areas of exposed soils shall be stabilized and re-seeded with native seed mixes appropriate to the habitat type.
   Broadcast seed where appropriate in order to minimize visual impacts.
- Minimize disturbance to sagebrush (Artemisi spp.) plants. In the event sagebrush
  plants are removed or killed, plants would be reestablished through seeding or
  replanting.
- Avoid and minimize effects on special-status plants
  - O Locations of special-status plant populations shall be identified in the field by staking, flagging, or fencing a minimum 50-foot-wide buffer around them before activities that may cause disturbance. No construction activities shall occur within the buffer area unless such activities are approved by federal and state botanists.
  - Avoidance of special-status plant populations shall be achieved where feasible by minor rerouting of pipelines in the ROW corridor, by directional drilling under the population, or by other means agreed to by agency botanists.

### **Appendix G – Environmental Commitments**

# Wetlands

Jurisdictional wetlands are protected under Section 404 of the Clean Water Act; therefore, disturbance to wetlands would be avoided whenever possible. In the event that impacts to wetlands cannot be avoided, the following environmental commitments would be incorporated into the Proposed Action.

- Delineate wetlands in accordance with the 1987 Corps of Engineers Wetland Delineation Manual and Data Forms. Results would be documented consistent with requirements for a 404 Permit, consistent with guidance established by the U.S. Army Corps of Engineers (USACE), Omaha District.
- The Applicant shall avoid directly affecting wetlands, streams, and Waters of the U.S. using horizontal directional drilling (HDD) or other suitable trenchless technology, or by rerouting around resources. Reclamation and DRWA shall ensure that each HDD is at a sufficient depth to prevent draining of waters and to minimize the risk of a frac-out.
- The results of a geotechnical investigations shall be included in the Surface Spill and Hydrofracture Contingency Plan prepared for the Project which shall address the risk of a frac out during HDD operations and contingency measures to take in the event of a frac out. The federal and state resource agencies shall review and approve of the Surface Spill and Hydrofracture Contingency Plan prior to commencement of HDD operations.
- Use silt barriers when disturbance areas occur adjacent to wetlands in order to control sediment.

# Fish and Wildlife

Prior to construction and all other surface-disturbing activities, the Applicant shall conduct and submit an inventory (including field surveys) of significant biological resources within the Project study area, including special-status species. If any changes are made to the extent or alignment of the Proposed Action following the completed field surveys, more field surveys would be conducted within the Project study area.

- Consult with the U.S. Fish and Wildlife Service (USFWS) regarding proposed activities or potential impacts to federally listed species and/or critical habitat.
- For any project activity that involves construction or ground-disturbing activities, all construction workers will be required to participate in environmental awareness training. The training will educate workers on: (1) special-status species that may occur in the work area, (2) procedures to follow if a special-status species is observed during construction, and (3) other environmental best management practices and emergency response protocols.

### **Appendix G – Environmental Commitments**

- Protect aquatic resources for fish and wildlife by implementing measures described above in previous sections.
- The design of new power lines or lines in need of modification would comply with Avian Power Line Interaction Committee's Suggested Practices on Power Lines: The State of the Art in 2006 (APLIC 2006), and be constructed using the techniques in "Suggested Practices for Raptor Protection on Power Lines: The State of the Art in 1996."
- No construction activities would be allowed within 4 miles of a sharp-tailed grouse (*Tympanuchus phasianellus*) or a greater sage-grouse (*Centrocercus urophasianus*) lek during periods of breeding or nesting (Manier et al., 2014).
- Before any construction between March 31 and October 31 adjacent to major rivers, initial project screening and surveys of suitable habitat for federally endangered northern long-eared bat roosting in riparian habitat and fissures on cut banks shall be conducted. If northern long-eared bats are detected, construction shall be delayed until bats depart, or until November 1 of that year (beginning of inactive season).
- Before any construction during May-August in or adjacent to large wetlands, surveys for
  federally threatened rufa red knot shall be conducted by a qualified wildlife biologist. If rufa
  red knots are detected, construction shall be delayed until the biologist confirms that the
  observed birds have departed the area.
- Before any construction during May-July in the Missouri River channel or Fort Peck
  Reservoir, surveys for federally threatened piping plover shall be conducted by a qualified
  biologist. If piping plovers are detected, construction shall be delayed until the biologist
  confirms that the observed birds have departed the area.
- Implement applicable whooping crane protection measures:
  - To the extent possible, avoid construction of overhead power lines within 5.0 miles of designated critical habitat and documented high use areas (these locations can be obtained from the local USFWS office).
  - o To the extent possible, bury all new power lines, especially those within 1.0 mile of potentially suitable habitat.
  - o If it is not economically or technically feasible to bury lines, the following conservation measures be implemented:
    - Within the 95-percent sighting corridor:

### **Appendix G – Environmental Commitments**

- Mark new lines within 1.0 mile of potentially suitable habitat and an
  equal amount of existing line within 1.0 mile of potentially suitable
  habitat according to USFWS recommendations described in Avian
  Power Line Interaction Committee (APLIC) 2006 (as amended).
- Mark replacement or upgraded lines within 1.0 mile of potentially suitable habitat according to the USFWS recommendations described in APLIC 2006 (as amended).
- Outside the 95-percent sighting corridor within a State's borders:
  - Mark new lines within 1.0 mile of potentially suitable habitat at the discretion of the local USFWS field office, based on the biological needs of the whooping crane.
- Develop compliance monitoring plans. Provide written confirmation to USFWS that power lines have been or will be marked and maintained.
- Implement applicable pallid sturgeon protection measures:
  - In-water construction and other in-water work activities should not occur from April 15 – July 1.
  - O Water intakes should be screened with a maximum mesh size of 6.35 mm (1/4-inch), although 1.75 mm (2.38 mm profile bar) is preferred.
  - O Maximum flow velocity upstream of and across the water intake screen should be 0.12 meters per second (0.4 feet per second) or less.
  - Water intakes should be installed outside of the river thalweg and as far away from the thalweg as practicable.
  - O Water intakes should operate above the lower 25% of the water column and at least one meter above the channel bed throughout the year.
- Implement applicable bald and golden eagles protection measures:
  - Prior to each construction season, the pipeline route will be surveyed for the
    presence of bald and golden eagles. The surveyor will be provided a current list of all
    known nests.
  - O To avoid potential disturbance of occupied eagle nests during construction, the USFWS recommends avoiding construction activities between January 1 and August15 (or until eaglets have fledged the nest and left the immediate area or the

### **Appendix G – Environmental Commitments**

nest has failed). The actual buffer for each nest would be selected based on sitespecific conditions, including history, demonstrated tolerance, screening, topography, etc.

- Permanent development changes or habitat alterations within 2-miles of an active nest must be coordinated with the USFWS and Reclamation. This may require design changes, or mitigation.
- Implement applicable greater sage grouse protection measures:
  - o "Seasonal use timeframe" (SUT) is the sage grouse breeding, nesting, and early brood-rearing period from March 15 to July 15. To the extent practicable, all ground-disturbing construction activities would occur outside the SUT.
  - Lek buffers entail 4-mile radii for leks in Core Habitat, and 2-mile radii for leks in General Habitat. Project construction activities shall occur outside of the SUT to the greatest extent practicable.

# **Hydrology and Water Quality**

- Conform to federal and state standards for all crossing of jurisdictional waters and be consistent with any permits and/or authorizations.
- Place silt barriers to control sediment on slopes in excess of five percent at all crossings of jurisdictional waters (e.g., riverine, riparian wetlands).
- Stockpile soil from trenches beyond the boundary of a jurisdictional water and replace after construction.
- Select sites for crossing jurisdictional waters to maximize stability of the bed/banks (avoid areas where active erosion of bed or banks is observed).
- Construct crossings of channelized jurisdictional waters perpendicular to the flow line, where feasible.
- Minimize or avoid impacts to jurisdictional waters, where required, by using underground
  construction activities such as HDD technology, as applicable for the width and depth of
  specific jurisdictional water.
- Complete open-trench methods of crossing jurisdictional waters in those situations where trenching and reclamation would occur during a period in which water would not be encountered in surface or subsurface conditions.

### **Appendix G – Environmental Commitments**

- Restore the bed and banks of the jurisdictional feature to original contours and stabilize with appropriate erosion control measures, where permitted.
- Service and refuel construction equipment a minimum of 500 feet from all waters.
- Follow American Water Works Association C651 for Disinfecting Water Mains and C655 for Field Dechlorination of the chlorinated water in the section of pipeline being tested and disinfected per Montana Department of Environmental Quality (MDEQ).
- Obtain and comply with federal and state permits necessary to construct and operate the Proposed Action, including required pre-construction surveys, construction monitoring and post-construction monitoring of reclamation efforts.
- Coordinate with U.S. Geological Survey (USGS) prior to construction in the event the
  existing stream gage on the Missouri River near Wolf Point (06177000), operated by the
  USGS, is subject to disturbance or disruption.

# **Geology, Soils, and Paleontological Resources**

- Maximize construction of pipelines and electrical lines next to existing roads to eliminate or reduce the need for new maintenance or access roads.
- Use appropriate measures for dust control (e.g., periodic water trucks) to minimize impact on soil resources and air quality.
- Return topography to preconstruction contours and mound soil over buried project features (e.g., waterline, power lines) to allow settling.
- Control erosion by reseeding areas disturbed by underground construction during acceptable dryland seeding periods in either fall or spring, consistent with specific requirements of federal, state, and local state agencies and private landowners.
- Separate and stockpile topsoil on-site as the first step in any underground excavation. If pipeline or conduits are plowed in or trenched (18 inches wide or less), the topsoil may be incorporated with other fill as part of backfilling efforts. Install silt barriers to reduce surface erosion on slopes greater than five percent.
- Replace the topsoil as the last step in backfilling process, so the protective soils would be returned to the soil horizon.
- Leave buffer strips of undisturbed vegetation adjacent to waterways.

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- Scarify topsoil before seeding, where necessary, to prevent compaction or crusting. Leave soil in a roughened condition until it is seeded to prevent wind erosion.
- Hydromulch slopes steeper than 15 percent.
- Install water bars as necessary to divert runoff from disturbed areas.
- Consult with staff from lead and cooperating agencies for technical assistance in avoiding, minimizing, and monitoring for lost or degraded soil and water resource values.
- Prior to construction and all other surface-disturbing activities, the Applicant shall have conducted and submitted an inventory (including field surveys) of significant paleontological resources within the Project study area on federal lands for any locations within the Project study area with a Potential Fossil Yield Classification (PFYC) of high or very high.
- A Paleontological Resources Report documenting the results of the field surveys shall be submitted to Reclamation and applicable cooperating agencies for review at least 120 days before the start of construction, and shall be modified in response to agency comments, with the final report completed at least 60 days before the first ground disturbance.
- Following completion and approval of the Paleontological Resources Report and prior to the start of ground-disturbing construction, the Applicant shall prepare and submit to Reclamation and applicable cooperating agencies for review and approval, a Paleontological Resources Mitigation and Monitoring Plan. The Plan shall include a site-specific investigation to identify construction effect areas of high (PFYC 4) and very high (PFYC 5) sensitivity for encountering significant resources and the approximate depths at which those resources are likely to be encountered for each component of each segment of the Proposed Action. The Plan shall define monitoring procedures and methodology. The Plan shall also detail methods of recovery, preparation and analysis of specimens, final curation of specimens at a federally accredited repository, data analysis, and reporting.
- All construction personnel shall be trained regarding the recognition of possible subsurface
  paleontological resources and protection of all paleontological resources during construction.
  Upon discovery of paleontological resources by paleontologists or construction personnel,
  work in the immediate area of the find shall be halted and the Applicant's paleontologist
  notified.
- The Applicant shall conduct full-time construction monitoring through its qualified paleontological monitor in areas determined to have high (PFYC 4) to very high (PFYC 5) sensitivity.

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# **Cultural Resources**

As suggested by Montana State Historic Preservation Office, cultural resources would be protected by implementing the following measures:

- Reclamation, DRWA and any other applicable agency or Tribe shall develop and implement
  a Programmatic Agreement for cultural resources consultation and protection. This
  document would line out survey requirements, consultation requirements, and avoidance
  requirements for the project. This plan must be finalized and implement prior to final design
  and construction of the project.
- Prior to final design and construction of a project, a Class III Pedestrian archaeological survey would be performed under the direction of a Principal Investigator that meets the Department of Interior qualifications for the entire Area of Potential Effect (APE). Surveys, including site recordation, would be commensurate with Montana State Historic Preservation Office (SHPO) requirements and documented in an Archaeological Survey Report; the final report would be submitted to the Montana SHPO, other federal and state agencies, and interested parties as necessary to support compliance with Section 106 of the National Historic Preservation Act. Within the report, identified resources would be documented consistent with Montana SHPO, Reclamation, and USACE/U.S. Bureau of Land Management (BLM) requirements, recommendations would be made for a resource's potential eligibility to the National Register of Historic Places, and project effects would be identified. The report would serve as a baseline for understanding activities that might result in adverse, permanent, localized damage to the historic properties in the APE.
- Reclamation would prepare a Monitoring and Unanticipated Discoveries Plan in
  consultation with participating Native American tribes prior to the initiation of the Proposed
  Action. Protocols for monitoring, such as scheduling, personnel responsibilities, chain of
  command, and reporting would be detailed in the Monitoring and Unanticipated Discoveries
  Plan.

# **Visual Resources**

- Develop a visual resource plan that includes avoidance, minimization, and rectification measures to ensure that objectives for Visual Resource Management Class II lands are achieved.
- Opportunities to screen permanent facilities using topographic or vegetation screening would be incorporated into final design, construction, and operational aspects of the Proposed Action. In addition, minimization measures such as painting the structures to

### **Appendix G – Environmental Commitments**

match the background and minimize visual contrast with the existing landscape would be implemented.

• Revegetation of the disturbed area would be incorporated into the final design, construction, and operation of these facilities.

# **Traffic**

- A Traffic Management Plan would be developed to identify specific measures (e.g., speed limits, detours, delays) that may be necessary to avoid or minimize disruption in traffic patterns and reduce delay times.
- Keep disruptions of traffic to a minimum (less than a 10-minute delay at any given time). All crossings or construction within ROWs would require permit/permission of appropriate federal, state, or local agency.

# **Hazardous Materials**

- A phase 1 Environmental Site Assessment would be conducted by a qualified inspector prior to ground breaking activities. If found, hazardous material features would not be disturbed during construction activities.
- Cease construction if contaminated soils/sites are unexpectedly encountered and consult with a qualified hazardous materials professional to comply with applicable laws, rules, and regulations. As appropriate, the MDEQ and other applicable federal, state, and local agencies would be contacted and consulted prior to reinitiating construction activities.
- Complete a spill prevention and clean-up plan (SPCC) to minimize potential effects.
- Provide mineral materials (e.g., sand and gravel) from approved sources; no new mineral material sites would be developed.

# **BLM-Specific Environmental Commitments**

The following environmental commitments were excerpted from the BLM's 2015 Miles City Resource Management Plan and would be applicable to Project activities proposed for lands administered by the BLM, Miles City District.

• The total disturbance area would be minimized to the extent possible.

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- Surface disturbances would be co-located in areas of previous or existing disturbance to the extent technically feasible.
- Linear facilities would be located in the same trenches (or immediately parallel to) and when possible, installed during the same period of time.
- Plan of development would be required for major ROWs. Such a plan would identify measures for reducing impacts.
- Vegetation would be removed only when necessary. Moving would be preferred. If moved, possible work would be performed when vegetation is dormant.
- Two-track (primitive roads) would be used when possible.
- Utilities would be ripped or wheel-trenched whenever practical.
- Remote telemetry would be used to reduce vehicle traffic to the extent technically feasible.
- Perennial streams would be crossed using trenchless crossings or other environmentally sound methods.
- For activities resulting in major surface-disturbance as determined by the BLM's Authorizing
  Officer, a mitigation monitoring and reporting strategy would be developed and
  implemented.
- Accelerated erosion, soil loss and impacts to water quality would be reduced by diverting stormwater and trapping sediment during activity.
- Fertilizer would not be applied within 500 feet of wetlands and water bodies.
- Vehicle and equipment servicing and refueling activities would take place 500 feet from the outer edge of riparian areas, wet areas, and drainages.
- Emission reduction measures and conservation actions will be considered during projectlevel planning.
- Activities may be restricted during wet or frozen conditions. Mechanized equipment use would be avoided if equipment causes rutting to a depth of 4 inches or greater.
- Vehicle cleaning stations would be used prior to entering or leaving disturbance to reduce the transport and establishment of invasive weed species.
- Invasive plant parts would not be transported off site without appropriate disposal measures.

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- Overhead power lines would follow the recommendation in the most recent guidance from the Avian Power Line Interaction Committee (2006, as amended).
- Weed management prescriptions would be included in all new treatment projects.
- Whenever possible, ROWs would be constructed within or next to compatible ROWs such as roads and pipelines.
- The operator shall be responsible for locating and protecting existing pipelines, power lines, communication lines and other related infrastructure.

# References

- Avian Power Line Interaction Committee (APLIC). 2006. Suggested Practices on Power Lines: the State of the Art in 2006. Edison Electric Institute, APLIC, and the California Energy Commission. Washington, D.C. and Sacramento, CA
- Manier, D.J., Z.H. Bowen, M.L. Brooks, M.L. Casazza, P.S. Coates, P.A. Deibert, S.E. Hanser, and D.H. Johnson. 2014. Conservation buffer distance estimates for Greater Sage-Grouse—A review: U.S. Geological Survey Open-File Report 2014–1239, 14 p., Available at: <a href="https://dx.doi.org/10.3133/ofr20141239">https://dx.doi.org/10.3133/ofr20141239</a>.
- U.S. Bureau of Land Management (BLM). 2015. Miles City Field Office Approved Resource Management Plan.