Environmental Assessment

# Appendix G: New Mexico Noxious Weeds List



#### NEW MEXICO DEPARTMENT OF AGRICULTURE

Office of the Director/Secretary MSC 3189 New Mexico State University P.O. Box 30005 Las Cruces, NM 88003-8005

Phone: (575) 646-3007

July 2, 2020

#### **MEMORANDUM**

TO: General Public

FROM: Director/Secretary Jeff Witte

SUBJECT: New Mexico Noxious Weed List Update

Petitions to add new plant species to the state noxious weed list were solicited and received by the New Mexico Department of Agriculture (NMDA) from Cooperative Weed Management Areas, individuals, agencies and organizations. The petitions were reviewed by the New Mexico Weed List Advisory Committee using ecological, distribution, impact, and legal status criteria within the State of New Mexico and adjoining states.

This list does not include every plant species with the potential to negatively impact the state's environment or economy. Landowners and land managers are encouraged to recognize plant species listed on the federal noxious weed list and other western states' noxious weed lists as potentially having negative impacts and to manage them accordingly.

As required by the Noxious Weed Management Act of 1998, the following plant species (see attached New Mexico Noxious Weed List) are designated as noxious weeds to be targeted for control or eradication. Thank you to the Cooperative Weed Management Areas, individuals, agencies and organizations who participated in this process.

attachment: New Mexico Noxious Weed List

IMG/jm/jw

# **New Mexico Noxious Weed List**

Updated June 2020

## **Class A Species**

Class A species are currently not present in New Mexico or have limited distribution. Preventing new infestations of these species and eradicating existing infestations is the highest priority.

Common Name	Scientific Name
Black henbane	Hyoscyamus niger
Camelthorn	Alhagi psuedalhagi
Canada thistle	Cirsium arvense
Dalmation toadflax	Linaria dalmatica
Diffuse knapweed	Centaurea diffusa
Dyer's woad	Isatis tinctoria
Giant salvinia	Salvinia molesta
Hoary cress	Cardaria spp.
Leafy spurge	Euphorbia esula
Oxeye daisy	Leucanthemum vulgare
Purple loosestrife	Lythrum salicaria
Purple starthistle	Centaurea calcitrapa
Ravenna grass	Saccharum ravennae
Scentless chamomile	Matricaria perforata
Scotch thistle	Onopordum acanthium
Spotted knapweed	Centaurea biebersteinii
Yellow starthistle	Centaurea solstitialis
Yellow toadflax	Linaria vulgaris

## **Class B Species**

Class B species are limited to portions of the state. In areas with severe infestations, management should be designed to contain the infestation and stop any further spread.

Common Name	Scientific Name
African rue	Peganum harmala
Bull thistle	Cirsium vulgare
Chicory	Cichorium intybus
Halogeton	Halogeton glomeratus
Malta starthistle	Centaurea melitensis
Perennial pepperweed	Lepidium latifolium
Poison hemlock	Conium maculatum
Quackgrass	Elytrigia repens
Spiny cocklebur	Xanthium spinosum
Teasel	Dipsacus fullonum

## **Class C Species**

Class C species are widespread in the state. Management decisions for these species should be determined at the local level, based on feasibility of control and level of infestation.

Common Name	Scientific Name
Cheatgrass	Bromus tectorum
Curlyleaf pondweed	Potamogeton crispus
Eurasian watermilfoil	Myriophyllum spicatum
Giant cane	Arundo donax
Hydrilla	Hydrilla verticllata
Jointed goatgrass	Aegilops cylindrica
Musk thistle	Carduus nutans
Parrotfeather	Myriophyllum aquaticum
Russian knapweed	Acroptilon repans
Russian olive	Elaeagnus angustifolia
Saltcedar	Tamarix spp.
Siberian elm	Ulmus pumila
Tree of heaven	Ailanthus altissima

## **Watch List Species**

Watch List species are species of concern in the state. These species have the potential to become problematic. More data is needed to determine if these species should be listed. When these species are encountered, please document their location and contact appropriate authorities.

<u>Common Name</u>	Scientific Name
Buffelgrass	Pennisetum ciliaris
Crimson fountaingrass	Pennisetum setaceum
Meadow knapweed	Centaurea pratensis
Myrtle spurge	Euphorbia myrsinites
Pampas grass	Cortaderia sellonana
Yellow bluestem	Bothriochloa ischaemum
Myrtle spurge Pampas grass	Euphorbia myrsinites Cortaderia sellonana

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# Appendix H: Observed Flora

Common Name	Scientific Name			
Agavaceae - Century-plant Family				
Soapweed Yucca	Yucca glauca			
Asteraceae - Aster Family				
Common Yarrow	Achillea millefolium			
Pussytoes	Antennaria sp.			
Big Sagebrush	Artemisia tridentata			
Ragleaf Bahia	Bahia dissecta			
Longflower Rabbitbrush	Chrysothamnus depressus			
Bigelow's Tansyaster Dieteria bigelovii				
Rubber Rabbitbrush Ericameria nauseos				
Trailing Fleabane Erigeron flagellaris				
Broom Snakeweed	Gutierrezia sarothrae			
Pingue Rubberweed	Hymenoxys richardsonii			
Upright Prairie Coneflower	Ratibida columnifera			
Common Dandelion	Taraxacum officinale			
Spiny Cocklebur*	Xanthium spinosum			
Brassicaceae - Mustard Family				
Desert Madwort	Alyssum desertorum			
Common Peppergrass	Lepidium densiflorum			
Tall Tumblemustard*	Sisymbrium altissimum			
Cactaceae - Cactus Family				
Plains Pricklypear	Opuntia polyacantha			
Chenopodiaceae - Goosefoot Family				
Slender Russian-Thistle	Salsola collina			
Prickly Russian Thistle	Salsola tragus			
Convolvulaceae - Morning Glory Family				
Field Bindweed	Convolvulus arvensis			
Cupressaceae - Cypress Family				
Rocky Mountain Juniper	Juniperus scopulorum			
Fabaceae - Legume Family				
Medick	Medicago sp.			
Yellow Sweetclover	Melilotus officinalis			
Fagaceae - Oak Family				
Gambel oak	Quercus gambelii			
Malvaceae - Mallow Family				
Scarlet Globemallow	Sphaeralcea coccinea			
Pinaceae - Pine Family				
Pinyon Pine	Pinus edulis			
Ponderosa Pine	Pinus ponderosa			
Poaceae - Grass Family				
Purple Threeawn	Aristida purpurea			
Blue Grama	Bouteloua gracilis			
Cheatgrass*	Bromus tectorum			

Squirreltail	Elymus elymoides
Slender Wheat Grass	Elymus trachycaulus
Needle-and-thread Grass	Hesperostipa comata
curlyleaf muhly	Muhlenbergia setifolia
Polemoniaceae - Phlox Family	
Lonleaf Phlox	Phlox longifolia
Polygonaceae - Buckwheat Family	
James' Buckwheat	Eriogonum jamesii
Rosaceae - Rose Family	
elegant cinquefoil	Potentilla concinna
Scrophulariaceae - Figwort Family	
Great Mullein	Verbascum thapsus
Parmeliaceae - Lichen-forming Fungi	
Beard Lichen	<i>Usnea</i> sp.

<sup>\*</sup>non-native species

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# Appendix I: Observed Fauna

Common Name	Scientific Name	
Insects		
Speckle-winged Rangeland Grasshopper	Arphia conspersa	
Harvester Ant	Pogonomyrmex sp.	
Ground squirrel (burrows)	Spermophilus sp.	
Abert's squirrel	Sciurus aberti	
Mammals		
Horse	Equus ferus	
Elk (scat) Cervus canadensis		
Mule deer (tracks)  Odocoileus hemionus		
Pocket gopher	Family Geomyidae	
Birds		
Red-tailed Hawk	Buteo jamaicensis	
Mourning Dove	Zenaida macroura	
Broad-tailed Hummingbird	Selasphorus platycercus	
Virginia Warbler	Rallus limicola	
Northern Flicker	Colaptes auratus	
Cassin's Kingbird	Tyrannus vociferans	
Say's Phoebe	Sayornis saya	
Plumbeous Vireo	Vireo plumbeus	
Steller's Jay	Cyanocitta stelleri	
Woodhouse's Scrub-jay	Aphelocoma woodhouseii	
Common Raven	Corvus corax	
Mountain Chickadee	Poecile gambeli	
Bridled Titmouse	Baeolophus wollweberi	
Bushtit	Psaltriparus minimus	
White-breasted Nuthatch	Sitta carolinensis	
Cassin's Finch	Haemorhous cassinii	
Brewer's Sparrow	Spizella breweri	
Spotted Towhee	Pipilo maculatus	
MacGillivray's Warbler	Geothlypis tolmiei	
Hepatic Tanager	Piranga flava	
Black-headed Grosbeak	Pheucticus melanocephalus	

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# Appendix J: Field Site Visit Notes and Photographs

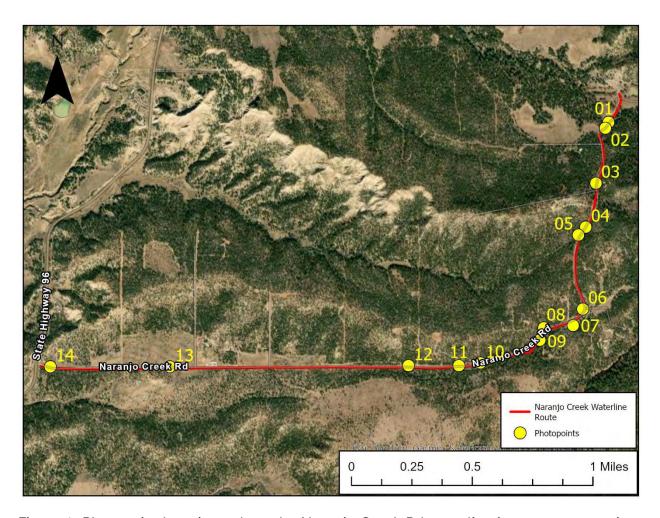


Figure 1. Photopoint locations along the Naranjo Creek Rd waterline improvement project route.

Field notes from the June 3, 2025 project area survey visit.

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## Photos from the field survey effort



Photo 01-1. Northeastern end of the project route, looking north. A meadow located within ponderosa pine-Gambel's oak-pinon pine-rocky mountain juniper forest and woodland habitat.



Photo 01-2. Northeastern end of the project route, looking south. A meadow located within ponderosa pine-Gambel's oak-pinon pine-rocky mountain juniper forest and woodland habitat.



Photo 03-1. Naranjo Creek Rd waterline route through ponderosa pine-Gambel's oak forest habitat, looking north.



Photo 03-2. Naranjo Creek Rd waterline route through ponderosa pine-Gambel's oak forest habitat, looking west.



Photo 05-1. Pinon-juniper woodland habitat along the Naranjo Creek Rd waterline improvement route.



Photo 05-2. Pinon-juniper woodland habitat along the Naranjo Creek Rd waterline improvement route.



Photo 06-1. Pinon-juniper woodland with scattered big sagebrush understory habitat along the Naranjo Creek Rd waterline improvement route.



Photo 06-2. Pinon-juniper woodland with scattered big sagebrush understory habitat along the Naranjo Creek Rd waterline improvement route.



Photo 07-1. Earthen dam water tank along the south side of the Naranjo Creek Rd waterline improvement project.



Photo 08-1. Open grass/sagebrush area amongst ponderosa pine-pinon-juniper woodland.



Photo 08-2. Open grass/sagebrush area amongst ponderosa pine-pinon-juniper woodland.



Photo 09-1. Ephemeral drainage along the south side of the Naranjo Creek Rd waterline improvement project route.



Photo 09-2. Ephemeral drainage along the south side of the Naranjo Creek Rd waterline improvement project route.



Photo 10-1. Transition to pinon-juniper woodland habitat.



Photo 10-2. Transition to pinon-juniper woodland habitat.



Photo 11-1. Recently cleared roadside right-of-way along Naranjo Creek Rd in pinon-juniper woodland habitat.



Photo 11-2. Recently cleared roadside right-of-way along Naranjo Creek Rd in pinon-juniper woodland habitat.



Photo 12-1. Recently cleared roadside right-of-way along Naranjo Creek Rd in pinon-juniper woodland habitat.



Photo 12-2. Recently cleared roadside right-of-way along Naranjo Creek Rd in pinon-juniper woodland habitat.



Photo 13-1. Actively cleared roadside right-of-way along Naranjo Creek Rd in a mix of pinon-juniper woodland and sagebrush habitats.



Photo 13-2. Actively cleared roadside right-of-way along Naranjo Creek Rd in a mix of pinon-juniper woodland and sagebrush habitats.



Photo 14-1. Western end of the Naranjo Creek Rd waterline improvement project, looking east.



Photo 14-2. Western end of the Naranjo Creek Rd waterline improvement project, looking east.

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# Appendix K: Information Planning and Consultation Report



# United States Department of the Interior



#### FISH AND WILDLIFE SERVICE

New Mexico Ecological Services Field Office 2105 Osuna Road Ne Albuquerque, NM 87113-1001 Phone: (505) 346-2525 Fax: (505) 346-2542

In Reply Refer To: 05/30/2025 18:54:59 UTC

Project Code: 2025-0103711

Project Name: Naranjo Creek Rd waterline

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

#### To Whom It May Concern:

Thank you for your recent request for information on federally listed species and important wildlife habitats that may occur in your project area. The U.S. Fish and Wildlife Service (Service) has responsibility for certain species of New Mexico wildlife under the Endangered Species Act (ESA) of 1973 as amended (16 USC 1531 et seq.), the Migratory Bird Treaty Act as amended (16 USC 701-715), and the Bald and Golden Eagle Protection Act as amended (16 USC 668-668(c)). We are providing the following guidance to assist you in determining which federally imperiled species may or may not occur within your project area, and to recommend some conservation measures that can be included in your project design.

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the ESA of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the ESA is to provide a means whereby threatened and endangered species and

the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the ESA and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (NEPA; 42 USC 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at <a href="https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf">https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf</a>.

#### **Candidate Species and Other Sensitive Species**

Project code: 2025-0103711

designated critical habitat.

A list of candidate and other sensitive species in your area is also attached. Candidate species and other sensitive species are species that have no legal protection under the ESA, although we recommend that candidate and other sensitive species be included in your surveys and considered for planning purposes. The Service monitors the status of these species. If significant declines occur, these species could potentially be listed. Therefore, actions that may contribute to their decline should be avoided.

Lists of sensitive species including State-listed endangered and threatened species are compiled by New Mexico State agencies. These lists, along with species information, can be found at the following websites.

Biota Information System of New Mexico (BISON-M): www.bison-m.org

New Mexico State Forestry. The New Mexico Endangered Plant Program: <a href="https://www.emnrd.nm.gov/sfd/rare-plants/">https://www.emnrd.nm.gov/sfd/rare-plants/</a>

New Mexico Rare Plant Technical Council, New Mexico Rare Plants: nmrareplants.unm.edu

Natural Heritage New Mexico, online species database: <a href="nhnm.unm.edu">nhnm.unm.edu</a>

#### WETLANDS AND FLOODPLAINS

Project code: 2025-0103711

Under Executive Orders 11988 and 11990, Federal agencies are required to minimize the destruction, loss, or degradation of wetlands and floodplains, and preserve and enhance their natural and beneficial values. These habitats should be conserved through avoidance, or mitigated to ensure that there would be no net loss of wetlands function and value.

We encourage you to use the National Wetland Inventory (NWI) maps in conjunction with ground-truthing to identify wetlands occurring in your project area. The Service's NWI program website, <a href="https://www.fws.gov/wetlands/Data/Mapper.html">www.fws.gov/wetlands/Data/Mapper.html</a>, integrates digital map data with other resource information. We also recommend you contact the U.S. Army Corps of Engineers for permitting requirements under section 404 of the Clean Water Act if your proposed action could impact floodplains or wetlands.

#### **MIGRATORY BIRDS**

In addition to responsibilities to protect threatened and endangered species under the ESA, there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the Service (50 CFR 10.12 and 16 USC 668(a)). For more information regarding these Acts, see <a href="https://www.fws.gov/program/migratory-bird-permit/what-we-do">https://www.fws.gov/program/migratory-bird-permit/what-we-do</a>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a Federal nexus) or a Bird/Eagle Conservation Plan (when there is no Federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see <a href="https://www.fws.gov/library/collections/threats-birds">https://www.fws.gov/library/collections/threats-birds</a>. We also recommend review of the Birds of Conservation Concern list (<a href="https://www.fws.gov/media/birds-conservation-concern-2021">https://www.fws.gov/media/birds-conservation-concern-2021</a>) to fully evaluate the effects to the birds at your site. This list identifies migratory and non-migratory bird species (beyond those already designated as federally threatened or endangered) that represent top conservation priorities for the Service, and are potentially threatened by disturbance, habitat impacts, or other project development activities.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 thereby provides additional protection for both migratory birds and migratory bird habitat. Please visit <a href="https://www.fws.gov/partner/council-conservation-migratory-birds">https://www.fws.gov/partner/council-conservation-migratory-birds</a> for information regarding the implementation of Executive Order 13186.

We suggest you contact the New Mexico Department of Game and Fish, and the New Mexico Energy, Minerals, and Natural Resources Department, Forestry Division for information regarding State protected and at-risk species fish, wildlife, and plants.

For further consultation with the Service we recommend submitting inquiries or assessments electronically to our incoming email box at <a href="mailto:nmesfo@fws.gov">nmesfo@fws.gov</a>, where it will be more promptly routed to the appropriate biologist for review.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

#### Attachment(s):

Project code: 2025-0103711

Official Species List

# **OFFICIAL SPECIES LIST**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New Mexico Ecological Services Field Office 2105 Osuna Road Ne Albuquerque, NM 87113-1001 (505) 346-2525

## **PROJECT SUMMARY**

Project Code: 2025-0103711

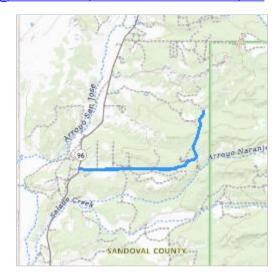
Project Name: Naranjo Creek Rd waterline

Project Type: Wastewater Pipeline - New Constr - Below Ground

Project Description: Waterline along Naranjo Creek.

**Project Location:** 

The approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/@36.1506579">https://www.google.com/maps/@36.1506579</a>,-106.94298249019361,14z



Counties: Sandoval County, New Mexico

## **ENDANGERED SPECIES ACT SPECIES**

Project code: 2025-0103711

There is a total of 6 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Project code: 2025-0103711 05/30/2025 18:54:59 UTC

**MAMMALS** 

NAME STATUS

Mexican Wolf Canis lupus baileyi

Endangered

Population: Wherever found, except where listed as an experimental population

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/3916">https://ecos.fws.gov/ecp/species/3916</a>

**BIRDS** 

NAME STATUS

Mexican Spotted Owl Strix occidentalis lucida

Threatened

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/8196

Threatened

Yellow-billed Cuckoo *Coccyzus americanus* Population: Western U.S. DPS

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

Species profile: <a href="https://ecos.fws.gov/ecp/species/3911">https://ecos.fws.gov/ecp/species/3911</a>

**INSECTS** 

NAME STATUS

Monarch Butterfly *Danaus plexippus* 

\_

There is **proposed** critical habitat for this species. Your location does not overlap the critical

Proposed Threatened

habitat.

Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>

Suckley's Cuckoo Bumble Bee Bombus suckleyi

Proposed

Population:

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/10885">https://ecos.fws.gov/ecp/species/10885</a>

Endangered

**FLOWERING PLANTS** 

NAME

Knowlton's Cactus Pediocactus knowltonii

Endangered

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1590">https://ecos.fws.gov/ecp/species/1590</a>

### **CRITICAL HABITATS**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

Project code: 2025-0103711 05/30/2025 18:54:59 UTC

# **IPAC USER CONTACT INFORMATION**

Agency: Private Entity Name: Charles Britt

Address: 3500 Sedona Hills Parkway

City: Las Cruces

State: NM Zip: 88001

Email charles.britt@soudermiller.com

Phone: 5756219425

Regina MDWCA Naranjo Creek Rd Water System Improvements Project September 2025

Environmental Assessment

Appendix L: New Mexico Environmental Review
Tool Report



#### PROJECT INFORMATION

Project Title: Naranjo Creek Rd waterline

Project Type: WATER MANAGEMENT, WATER DELIVERY (PIPELINES, WATER LINES), WATER

LINES-NEW CONSTRUCTION

Latitude/Longitude (DMS): 36.144249 / -106.949349

County(s): SANDOVAL

**Project Description:** 2.6 mile waterline along Naranjo Creek Rd.

#### REQUESTOR INFORMATION

**Project Organization:** 

Contact Name: Charles Britt

Email Address: charles.britt@soudermiller.com
Organization: Souder, Miller and Associates

Address: 3500 Sedona Hills Parkway, Las Cruces NM 88001

**Phone:** 5756219425

#### **OVERALL STATUS**

This report contains an initial list of recommendations regarding potential impacts to wildlife or wildlife habitats from the proposed project; see the Project Recommendations section below for further details. Your project proposal is being forwarded to a New Mexico Department of Game and Fish (Department) biologist for review to determine whether there are any additional recommendations regarding the proposed actions. A Department biologist will be in touch within 30 days if there are further recommendations regarding this project proposal.

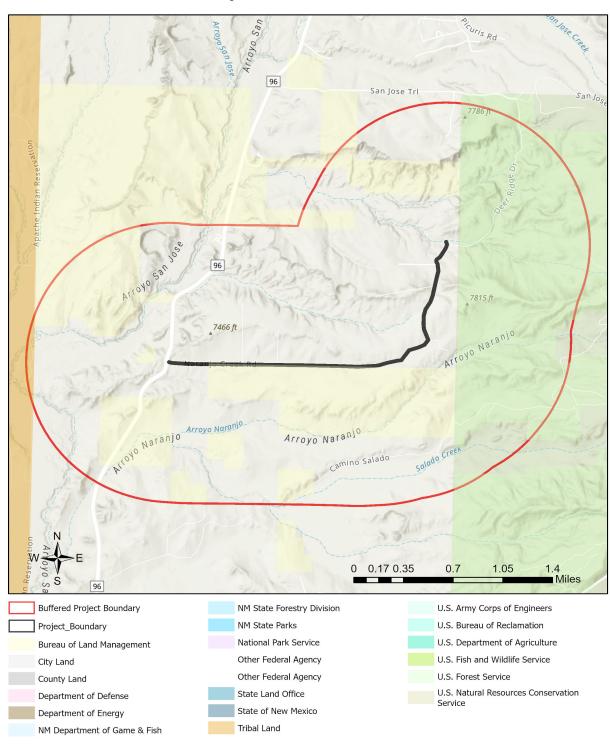
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#### About this report:

- This environmental review is based on the project description and location that was entered. The report must be updated if the project type, area, or operational components are modified.
- This is a preliminary environmental screening assessment and report. It is not a substitute for the potential wildlife knowledge gained by having a biologist conduct a field survey of the project area. Federal status and plant data are provided as a courtesy to users. The review is also not intended to replace consultation required under the federal Endangered Species Act (ESA), including impact analyses for federal resources from the U.S. Fish and Wildlife Service (USFWS) using their Information for Planning and Consultation tool.
- This report contains information on wildlife species protected under the ESA and the Wildlife Conservation Act (WCA), Species of Greatest Conservation Need (SGCN), and Species of Economic and Recreational Importance (SERI). Species listed under the ESA are protected from take at the federal level and under the WCA are protected from take at the state level. SGCN are identified in the State Wildlife Action Plan (SWAP) for New Mexico; all of these species are considered to be of conservation concern but not all of them are protected from take at the state or federal level. The harvest of all SERI is regulated at the state level. The Department has no authority to designate critical habitat for species listed under the WCA; only the USFWS can designate critical habitat for species listed under the ESA.
- The New Mexico Environmental Review Tool (ERT) utilizes species observation locations and species habitat suitability models, both of which are subject to ongoing change and refinement. Inclusion or omission of a species within a report cannot guarantee species presence or absence within your project area. To determine occurrence of any species listed in this report, or other wildlife that may be present within your project area, onsite surveys conducted by a qualified biologist during appropriate, species-specific survey timelines may be necessary.
- The Department encourages use of the ERT to modify proposed projects for avoidance, minimization, or mitigation of wildlife impacts. However, the ERT is not intended to be used in a repeatedly iterative fashion to adjust project attributes until a previously determined recommendation is generated. The ERT serves to assess impacts once project details are developed. The <a href="New Mexico Crucial Habitat Assessment Tool">New Mexico Crucial Habitat Assessment Tool</a>, the data layers from which are included in the ERT, is the appropriate system for advising early-stage project planning and design to avoid areas of anticipated wildlife concerns and associated regulatory requirements.

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# Naranjo Creek Rd waterline



NHNM, USGS, USFS, US Census Bureau, NMDGF
Esri, NASA, NGA, USGS
Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA, USFWS

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## Special Status Animal Species Potentially within 1 Miles of Project Area

Common Name	Scientific Name	USFWS (ESA)	NMDGF (WCA)	NMDGF SGCN/SERI	USFS	USFS SCC	BLM
Jemez Mountains Salamander	Plethodon neomexicanus	LE	E	SGCN			
Peregrine Falcon	Falco peregrinus		Т	SGCN			BLM WATCH
Mountain Plover	<u>Charadrius montanus</u>			SGCN	Sensitive Species		BLM WATCH
Flammulated Owl	Otus flammeolus			SGCN			BLM WATCH
Western Burrowing Owl	Athene cunicularia hypugaea			SGCN	Sensitive Species	USFS R3 SCC	BLM SENSITIVE
Common Nighthawk	Chordeiles minor			SGCN			
Black Swift	Cypseloides niger			SGCN		USFS R3 SCC	
Lewis's Woodpecker	Melanerpes lewis			SGCN		USFS R3 SCC	BLM WATCH
Williamson's Sapsucker	Sphyrapicus thyroideus			SGCN			
Olive-Sided Flycatcher	Contopus cooperi			SGCN			
Bank Swallow	Riparia riparia			SGCN			
Pinyon Jay	Gymnorhinus cyanocephalus			SGCN		USFS R3 SCC	BLM SENSITIVE
Clark's Nutcracker	Nucifraga columbiana			SGCN			
<u>Juniper Titmouse</u>	Baeolophus ridgwayi			SGCN		USFS R3 SCC	BLM WATCH
Pygmy Nuthatch	Sitta pygmaea			SGCN			
Western Bluebird	Sialia mexicana			SGCN			
Mountain Bluebird	Sialia currucoides			SGCN			
Loggerhead Shrike	<u>Lanius Iudovicianus</u>			SGCN		USFS R3 SCC	BLM WATCH
Gray Vireo	Vireo vicinior		Т	SGCN	Sensitive Species	USFS R3 SCC	BLM WATCH
Black-Throated Gray Warbler	Setophaga nigrescens			SGCN			BLM WATCH
Grace's Warbler	Setophaga graciae			SGCN		USFS R3 SCC	BLM WATCH
Painted Redstart	Myioborus pictus			SGCN			
Black-Chinned Sparrow	Spizella atrogularis			SGCN			BLM WATCH

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#### Special Status Animal Species Potentially within 1 Miles of Project Area

Common Name	Scientific Name	USFWS (ESA)	NMDGF (WCA)	NMDGF SGCN/SERI	USFS	USFS SCC	BLM
Vesper Sparrow	Pooecetes gramineus			SGCN			
Thick-billed Longspur	Rhynchophanes mccownii			SGCN			BLM SENSITIVE
Chestnut-Collared Longspur	<u>Calcarius ornatus</u>			SGCN			BLM SENSITIVE
Cassin's Finch	Haemorhous cassinii			SGCN			BLM WATCH
Evening Grosbeak	Coccothraustes vespertinus			SGCN			
Spotted Bat	Euderma maculatum		Т	SGCN	Sensitive Species	USFS R3 SCC	BLM SENSITIVE
Pale Townsend's Big-Eared Bat	Corynorhinus townsendii pallescens			SGCN	Sensitive Species	USFS R3 SCC	BLM SENSITIVE
Gunnison's Prairie Dog	Cynomys gunnisoni			SGCN	Sensitive Species		BLM SENSITIVE
Black Bear	Ursus americanus			SERI			
Mountain Lion	Puma concolor			SERI			
<u>Elk</u>	Cervus canadensis			SERI			
Mule Deer	Odocoileus hemionus			SERI			
<u>Pronghorn</u>	Antilocapra americana			SERI			

Common Name hyperlink takes you to species account in bison-m.org; Scientific Name hyperlink takes you to information in NatureServe Explorer; ESA = Endangered Species Act, C = Candidate, LE = Listed Endangered, LT = Listed Threatened, XN = Non-essential Experimental Population, for other ESA codes see this website; WCA = Wildlife Conservation Act, E = Endangered, T = Threatened; SERI = Species of Economic and Recreational Importance; SGCN = Species of Greatest Conservation Need; USFS = U.S. Forest Service, Sensitive Species = A species likely to occur on USFS lands that is of concern for a potential reduction in population viability; SCC = Species of Conservation Concern; BLM = Bureau of Land Management, BLM SENSITIVE = A species that occurs on BLM lands and whose viability is at risk, BLM WATCH = Species that may be added to the sensitive species list in future pending new information regarding species status.

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#### **Project Recommendations**

Open trenches excavated for underground water or oil and gas pipelines, powerlines, or fiber optic communication lines can unintentionally entrap and cause the unnecessary mortality of amphibians, reptiles, and small mammals, and can cause injury to large mammals. Trapped animals can die from exposure, starvation, crushing from pipe-laying, entombment from trenching backfilling, drowning, and predation. This unnecessary wildlife mortality can be avoided by implementing conservation measures including: concurrent trenching, pipe-laying, and backfilling operations to minimize the amount of trench left open overnight or longer; construction escape ramps; and employing biological monitors to remove trapped animals. Periods of highest activity for amphibians and reptiles vulnerable to entrapment include summer months and wet weather, and they can be active both day and night. Small mammals subject to entrapment are active year-round and generally most active at night.

Implementing the general trenching conservation measures outlined in the Department's <u>Trenching Project Guidelines</u> will help minimize unnecessary mortality of wildlife. Best management practices should include, at minimum, the following mitigation measures.

- Whenever possible, locate trenching activities within previously disturbed areas, such as existing road or pipeline right-of-ways. To the extent possible, avoid trenching in undisturbed habitat.
- Trench during the cooler months (October March).
- Utilize concurrent trenching, pipe- or cable-laying, and backfilling. Keep trenching, pipe- or cable-laying, and
  backfilling crews as close together as possible to minimize the amount of open trench at any given time. When
  trenching activities are temporarily halted (e.g., overnight, weekends, holidays, weather shutdowns), protect
  wildlife from accessing any open trench between digging and backfilling operations by using one or more of the
  methods described below.
- Avoid leaving trenches open overnight. When trenches cannot be backfilled immediately, escape ramps should be constructed at least every 90 meters and preferably 30 meters. Escape ramps can be constructed parallel or perpendicular to the existing trench. The escape ramp slope should be less than 45 degrees (1:1). If pipe or cable has been installed but backfilling has not occurred, escape ramps may need to be constructed on both sides of the trench, since, unless the pipe is elevated enough to allow animals to move underneath it, the pipe or cable may block access of amphibians, reptiles, and small mammals to the ramps if only constructed on one side.
- Trenches that have been left open overnight should be inspected the following day by a qualified biological monitor and trapped animals removed as soon as possible, especially where state- or federally-listed threatened or endangered amphibians, reptiles, or small mammals occur. Untrained personnel should not attempt to remove trapped wildlife because of the potential to injure animals and the possibility of injury from venomous snakes. Required tools for removal will include snake tongs for removing snakes and a dip net for capturing and removing amphibians and small mammals. Many animals trapped in a trench will burrow under loose soil. To the extent possible, the biological monitor should disturb loose soil in the trench to uncover and remove trapped animals. Animals should be relocated at least 50 meters away from the open trench in undisturbed habitat.
- When pipe has been laid in the trench, end caps should be placed on the open end(s) of the pipe to preclude animals from entering. Pipe staged outside the trench should be capped until placed in the trench or checked for wildlife before being placed into the trench.
- Most wildlife can be protected by constructing silt fence completely around the open trench. Silt fence should be supported from sagging by t-posts, rebar, or stakes and buried at the base to preclude animals from moving below the fence. If construction of a silt fence is a required best management practice for erosion control, then, to preclude the need for a biological monitor, escape ramps, and concurrent backfilling, the guidelines for silt fence installation and maintenance in the <a href="Trenching Project Guidelines">Trenching Project Guidelines</a> should be followed.

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Your proposed project activities may require a custom review for assessment of potential effects to wildlife. See the "OVERALL STATUS" section above to determine the likelihood that your project will be reviewed further based on its location. A Department biologist will confirm whether any additional conservation measures are needed. You should expect to receive any additional project recommendations within 30 days of your project submission. If the "OVERALL STATUS" section indicates that no further consultation with the Department is required based on its location, then you will only receive additional project feedback from the Department if a biologist deems it necessary.

It appears that the project area is adjacent to Pueblo/Reservation lands. The Department has no jurisdiction or authority for the wildlife resources on Indian reservations or property. We would recommend that you contact the Pueblo/Reservation regarding general wildlife issues or information they may have.

Your project could affect important components of habitat for large mammals, including important and sensitive seasonal areas, stopover sites, or movement corridors for elk, mule deer, or pronghorn. Mitigation measures should be implemented as appropriate in these high use sites and movement areas that were identified based on data gathered and analyzed by the New Mexico Department of Game and Fish (Department) and partners. Management recommendations within these areas may include the following (as relevant to the proposed project).

- Restrictions on noise-generating activities during wintering and calving/fawning seasons. These seasons are
  November 15-April 30 for wintering and May 15-June 30 for calving fawning in northern New Mexico; specific
  timing differs for southern New Mexico. These activities include oil and gas well pad development and
  operations that expose wildlife to loud noises from drilling, compressors, and pumping stations within 400 feet
  of the source.
- Avoid new fence construction where possible and modify unavoidable fences along high use areas to make them wildlife friendly and facilitate large animal movement. Where possible, divide larger fenced sites into smaller fenced areas with movement corridors in between.
- Avoid siting facilities within important habitats such as critical seasonal ranges or parturition sites.
- To minimize surface disturbance, implement directional drilling and co-locate drill holes on a single pad in the least suitable areas for wildlife.
- Avoid construction or development activities during important times, like parturition (May 15 June 30 in northern New Mexico).
- Where feasible, coordinate with the Department on collection of pre- and post-construction observational or GPS collar data to quantify responses of big game herds to project implementation.

Burrowing owl (*Athene cunicularia*) may occur within your project area. Burrowing owls are protected from take by the Migratory Bird Treaty Act and under New Mexico state statute. Before any ground disturbing activities occur, the Department recommends that a preliminary burrowing owl survey be conducted by a qualified biologist using the Department's <u>Burrowing Owl Survey Protocol</u>. Should burrowing owls be documented in the project area, please contact the Department or USFWS for further recommendations regarding relocation or avoidance of impacts.

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Prairie dog colonies may occur within the vicinity of your project area. Both black-tailed prairie dogs (*Cynomys ludovicianus*) and Gunnison's prairie dogs (*Cynomys gunnisoni*) are designated as New Mexico SGCN, and their colonies provide important habitat for other grassland wildlife. Wherever possible, occupied prairie dog colonies should be left undisturbed, and all project activities should be directed off the colony. Any burrows that are located on the project site should be surveyed by a qualified biologist to determine whether burrows are active or inactive and whether burrowing owls may be utilizing the site. Colonies within the range of the black-tailed prairie dog can be surveyed by a qualified biologist diurnally, year-round using binoculars. Colonies within the range of the Gunnison's prairie dog can be surveyed by a qualified biologist diurnally, using binoculars during the warmer months from April through October and by searching for fairly fresh scat and lack of cobwebs or debris at the mouths of burrows during the cold months (November through March). If ground-disturbing activities cannot be relocated off the prairie dog colony, or if project activities involve control of prairie dogs, the Department recommends live-trapping and relocation of prairie dogs. The Department can provide recommendations regarding suitability of potential translocation areas and procedures.

The proposed project occurs within or near a riparian area. Because riparian areas are important wildlife habitats, the project footprint should avoid removing any riparian vegetation or creating ground disturbance either directly within or affecting the riparian area, unless the project is intended to restore riparian habitat through non-native plant removal and replanting with native species. If your project involves removal of non-native riparian trees or planting of native riparian vegetation, please refer to the Department's habitat handbook guideline for Restoration and Management of Native and Non-native Trees in Southwestern Riparian Ecosystems. The New Mexico Riparian Habitat Map (NMRipMap) may also provide useful information on local riparian habitat composition and structure.

Your proposed project occurs within an area where springs or other important natural water features occur. This may result in the presence of a high use area for wildlife relative to the surrounding landscape. To ensure continued function of these important wildlife habitats, your project should consider measures to avoid the following.

- Altering surface or groundwater flow or hydrology,
- Disturbance to soil that modifies geomorphic properties or facilitates invasion of non-native vegetation.
- Affecting local surface or groundwater quality.
- Creating disturbance to wildlife utilizing these water features. Disturbance to wildlife can be reduced through
  practices including clustering infrastructure and activity wherever possible, avoiding large visual obstructions
  around water features, and limiting nighttime project operations or activities.

Department biologists are available for site-specific consultation regarding measures to assist with management and conservation of these habitat resources.

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#### Disclaimers regarding recommendations:

- The Department provides technical guidance to support the persistence of all protected species of native fish and wildlife, including game and nongame wildlife species. Species listed within this report include those that have been documented to occur within the project area, and others that may not have been documented but are projected to occur within the project vicinity.
- Recommendations are provided by the Department under the authority of § 17-1-5.1 New Mexico Statutes
  Annotated 1978, to provide "communication and consultation with federal and other state agencies, local
  governments and communities, private organizations and affected interests responsible for habitat, wilderness,
  recreation, water quality and environmental protection to ensure comprehensive conservation services for
  hunters, anglers and nonconsumptive wildlife users".
- The Department has no authority for management of plants or Important Plant Areas. The New Mexico
   <u>Endangered Plant Program</u>, under the Energy, Minerals, and Natural Resources Department's Forestry
   Division, identifies and develops conservation measures necessary to ensure the survival of plant species
   within New Mexico. Plant status information is provided within this report as a courtesy to users.
   Recommendations provided within the ERT may not be sufficient to preclude impacts to rare or sensitive plants,
   unless conservation measures are identified in coordination with the Endangered Plant Program.
- Additional coordination and/or consultation may also be necessary under the federal ESA or National Environmental Policy Act (NEPA). Further site-specific mitigation recommendations may be proposed during ESA consultation and/or NEPA analyses or through coordination with affected federal agencies.

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