



Project Review Report

Project Description

Approximate permit boundary for Sweetwater Lake Recreation Management and Development Project
(<https://www.fs.usda.gov/detail/whiteriver/news-events/?cid=FSEPRD1174591>)

Project Information

Report Generation Date: 7/16/2024 09:57:36 AM

Project Title: Sweetwater Lake Recreation Management and Development Project

User Project Number(s):

System Generated ID: CODEX-4194

Project Type: Conservation/Restoration

Project Size: 869.72 (acres)

Latitude/Longitude: 39.804664 / -107.171333

County(s): GARFIELD

Watershed(s) HUC 8: Colorado Headwaters

Township/Range and/or Section(s): 003S087W - 05 - 6P, 003S087W - 09 - 6P, 003S087W - 08 - 6P,
003S087W - 16 - 6P, 003S087W - 15 - 6P

Contact Information

Organization: Rocky Mountain Wild

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Submitted On Behalf Of:

Prepared By:

Project Report:

The information contained herein represents the results of a search of Colorado's Conservation Data Explorer (CODEX) and can be used as notice to anticipate possible impacts or identify areas of interest. This tool queries multiple conservation datasets and includes a synthesis of Colorado Natural Heritage Program (CNHP) and Colorado Parks and Wildlife (CPW) data for sensitive animal and plant species and natural communities. Care should be taken in interpreting these data.

Please note that the absence of data for a particular area, species, or habitat does not necessarily mean that these natural heritage resources do not occur on or adjacent to the project site, rather that our files do not currently contain information to document their presence. CODEX information should not replace field studies necessary for more localized planning efforts, especially if impacts to wildlife habitat are possible. Although every attempt is made to provide the most current and precise information possible, please be aware that some of our sources provide a higher level of accuracy than others, and some interpretation may be required. CODEX data is constantly updated and revised. Please contact CNHP, CPW and our partners for assistance with interpretation of this report or to obtain more information.

Disclaimer:

1. This is a preliminary environmental screening tool. It is not a substitute for the potential knowledge gained by having a biologist conduct a field survey of the project area. **This review does not constitute environmental consultation (including federal consultation under the Endangered Species Act), land use permitting, or the review of site-specific projects by CNHP and CPW and our partners.**
2. This Project Report is based on the project study area that was entered. The report must be updated if the project study area, location, or the type of project changes.
3. The Conservation Data Explorer (CODEX) data is constantly changing and being updated and is not intended to be the final word on the potential distribution of special status species. Colorado is large and diverse with plants, animals, and environmental conditions that are ever changing. Consequently, many areas may contain species that biologists do not know about or species previously noted in a particular area may no longer occur there. CODEX data contains information about species occurrences that have actually been reported to CNHP, CPW and our partners. Not all of Colorado has been surveyed for special status species, and surveys that have been conducted have varied greatly in scope and intensity. Such surveys may reveal previously undocumented population of species of special concern.

Location Accuracy Disclaimer:

Project locations are assumed to be both precise and accurate for the purposes of environmental review. The creator/owner of the Project Review Report is solely responsible for the project location and thus the correctness of the Project Review Report content.

Contact for CODEX Support:

Colorado Natural Heritage Program (CNHP)

CNHP
Colorado State University
1475 Campus Delivery
Fort Collins, CO 80523-1475

Tel: (970) 491-7331

Email: CNHP_codex_support@mail.colostate.edu

CNHP Website: cnhp.colostate.edu

Colorado Parks and Wildlife

For support regarding project review of land use impacts to wildlife, please contact the regional office in which your project resides and visit <https://cpw.state.co.us/conservation/Pages/CON-Energy-Land.aspx>

CPW Website : cpw.state.co.us

Northeast Region

Denver Office

6060 Broadway
Denver, CO 80216
Tel: (303) 291-7227

Northwest Region

Grand Junction Office

711 Independent Avenue
Grand Junction, CO 81505
Tel: (970) 255-6100

Southeast Region

Colorado Springs Office

4255 Sinton Road
Colorado Springs, CO 80907
Tel: (719) 227-5200

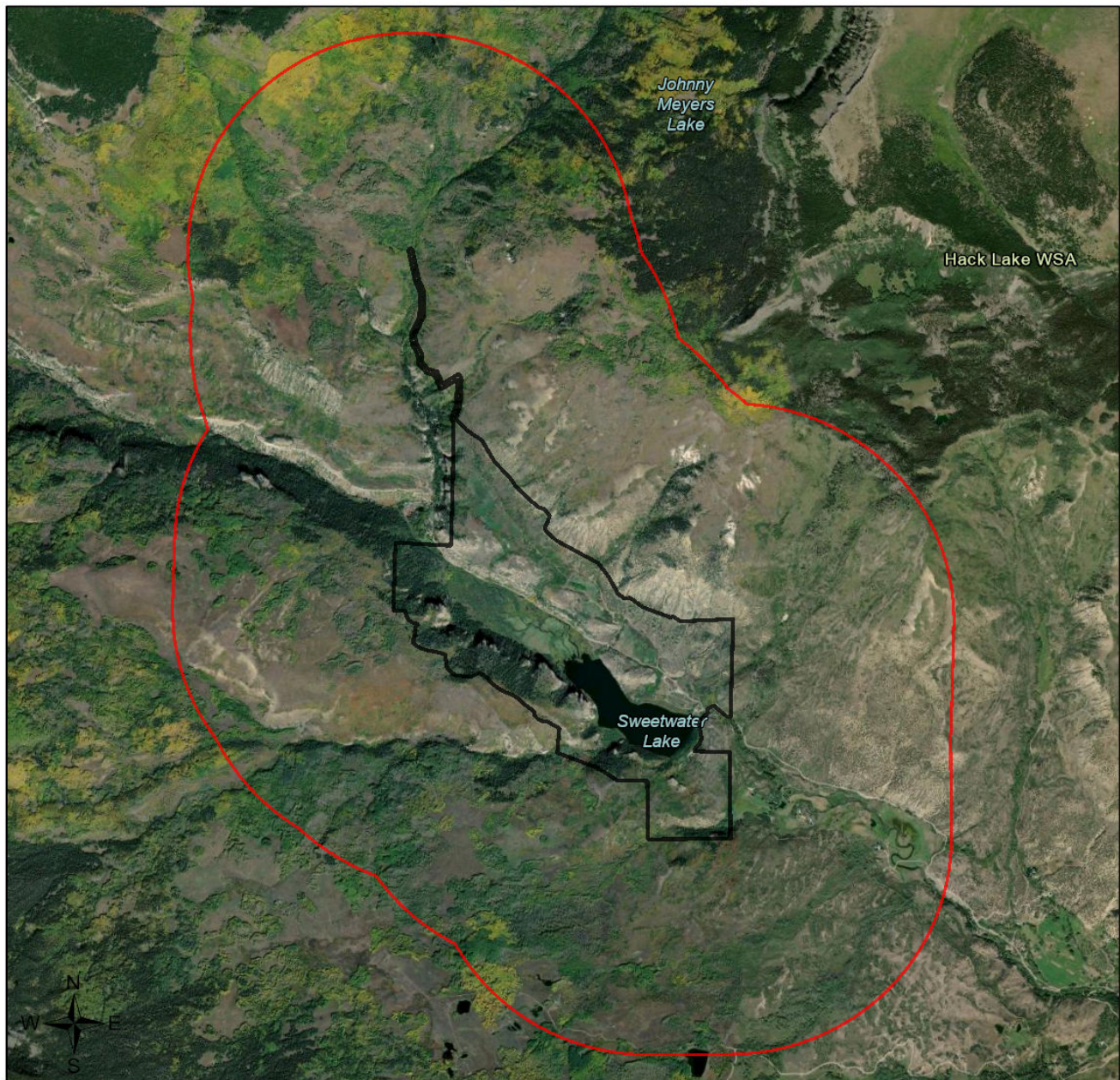
Southwest Region

Durango Office

151 East 16th Street
Durango, CO 81301
Tel: (970) 247-0855

For questions regarding CPW data in CODEX please contact 303-291-7152 or matt.schulz@state.co.us

Sweetwater Lake Recreation Management and Development Project Aerial Image with Locator Map



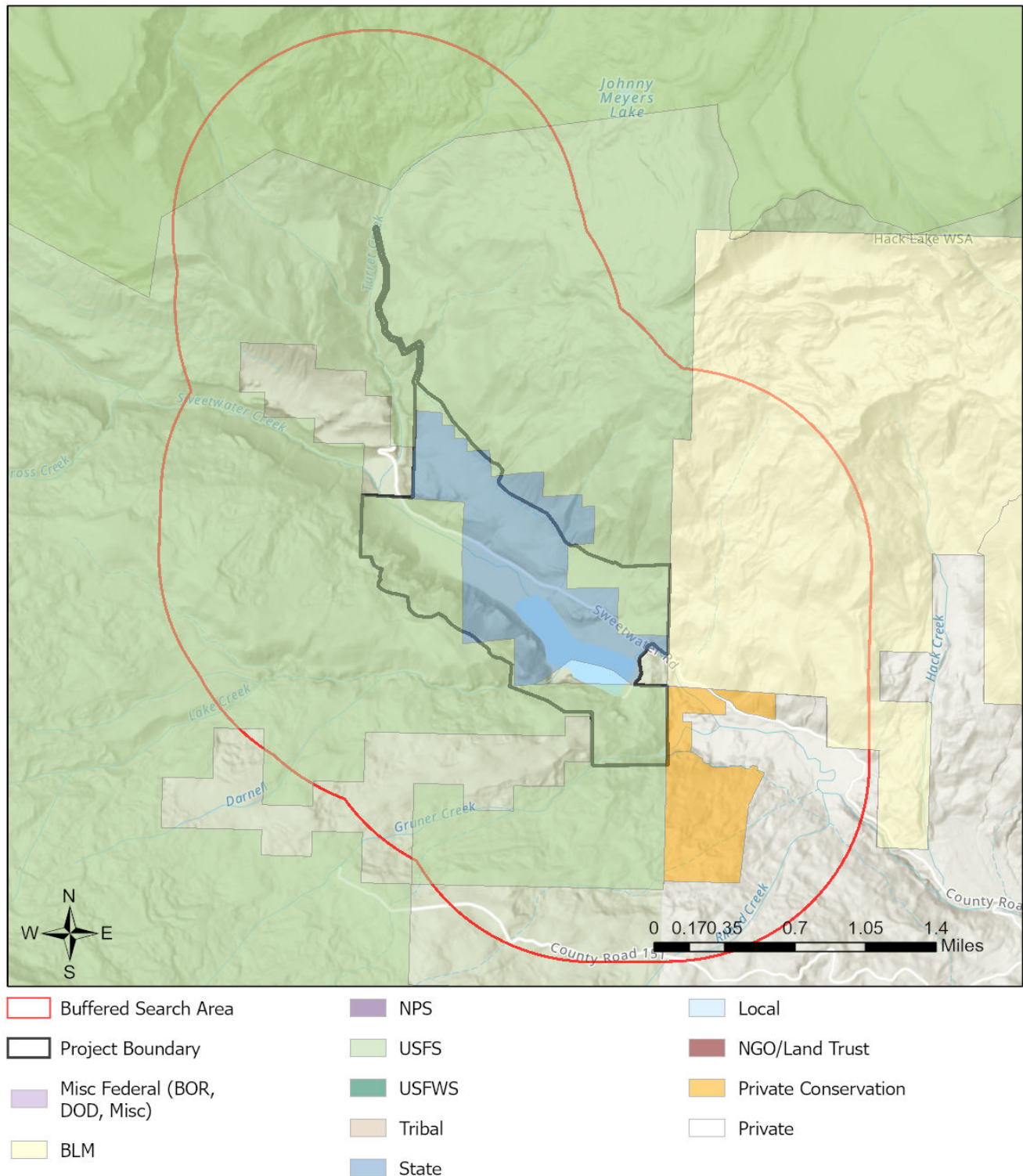
0 0.1 0.35 0.7 1.05 1.4
Miles

- Buffered Search Area
- Project Boundary



Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, USFWS
Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USDA, USFWS
Earthstar Geographics

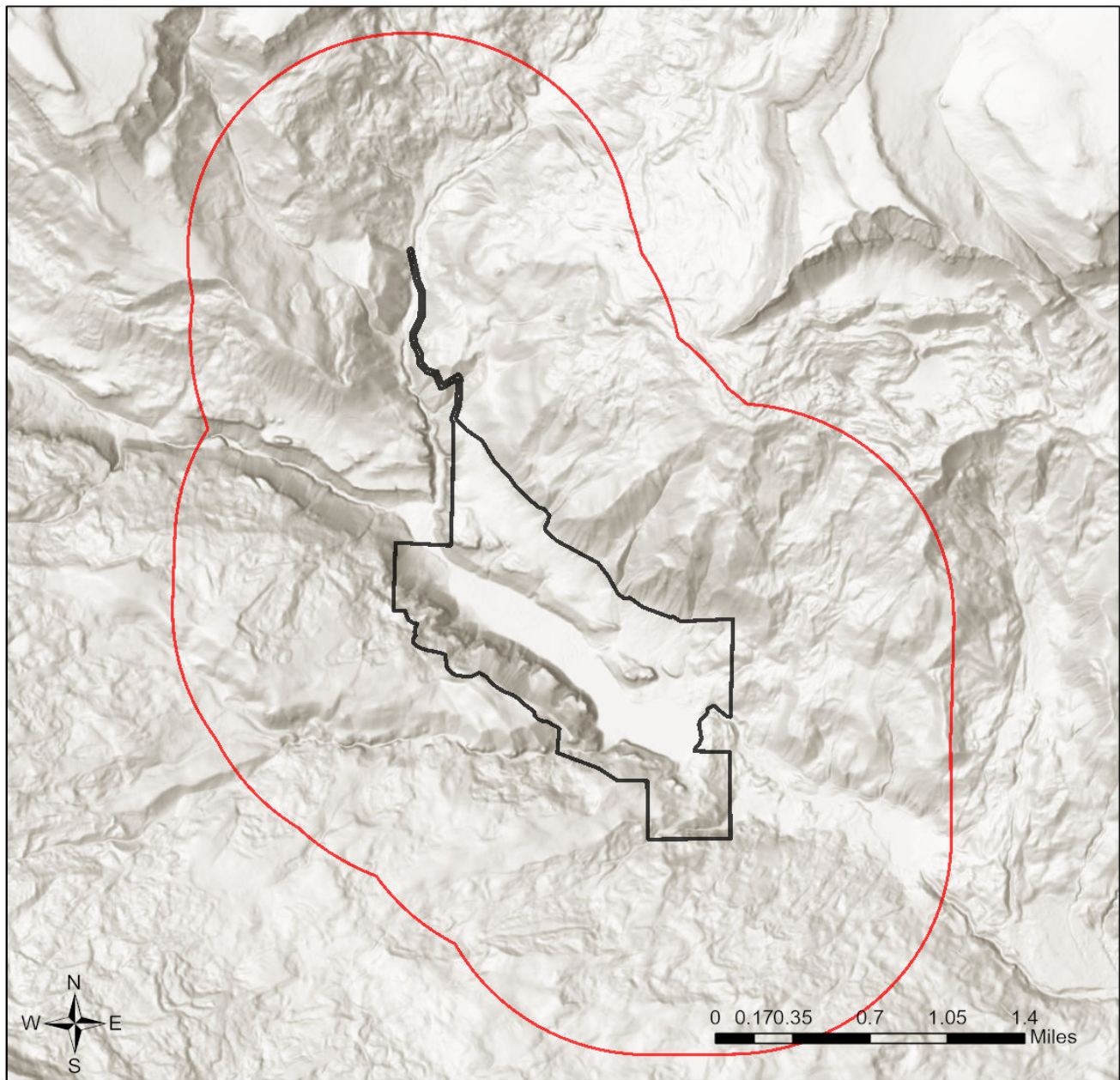
Sweetwater Lake Recreation Management and Development Project Topographic Map with Land Management Status



Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USDA, USFWS
Esri, NASA, NGA, USGS, FEMA

Sweetwater Lake Recreation Management and Development Project

Web Map As Submitted By User



- Buffered Search Area
- Project Boundary

Esri, NASA, NGA, USGS, FEMA

Regulatory Species

Table 1. Documented Occurrences Within 1 Miles Of Project Area

Major Group	Scientific Name	Common Name	Data Type	Global Rarity	State Rarity	Viability Rank	Last Observation	ESA Status	CO Status	Other Status	CNHP Identifier	Data Source
Birds	Haliaeetus leucocephalus	Bald Eagle	CPW Nest Sites	G5	S3B,S3N				SC	BGEPA/BLM/SWA P Tier 2/USFS		CPW 20 221213
Birds	Haliaeetus leucocephalus	Bald Eagle	CPW Nests	G5	S3B,S3N		2022-06-16		SC	BGEPA/BLM/SWA P Tier 2/USFS		CPW 20 230313
Birds	Haliaeetus leucocephalus	Bald Eagle	CPW Nests	G5	S3B,S3N		2022-06-26		SC	BGEPA/BLM/SWA P Tier 2/USFS		CPW 20 230313
Birds	Haliaeetus leucocephalus	Bald Eagle	CPW Winter Concentration Area	G5	S3B,S3N				SC	BGEPA/BLM/SWA P Tier 2/USFS		CPW 20 221213
Fish	Oncorhynchus clarkii	Cutthroat Trout	CPW HUC12 Presence	G5	S4			PS				CPW 20 221213

Table 2. Potential Regulatory Species within Project Area: Models, Range Maps, or Records with Low Precision

Major Group	Scientific Name	Common Name	Data Type	Global Rarity	State Rarity	ESA Status	CO Status	Other Status	Data Source
Birds	Aquila chrysaetos	Golden Eagle	CPW Breeding Range	G5	S3S4B,S4N			BGEPA/SWAP Tier 1	CPW 20221213
Birds	Haliaeetus leucocephalus	Bald Eagle	CPW Winter Forage	G5	S3B,S3N		SC	BGEPA/BLM/SWAP Tier 2/USFS	CPW 20221213
Mammals	Lynx canadensis	Lynx	CPW Predictive Map Summer	G5	S1	LT	SE	SWAP Tier 1	CPW 20221213
Mammals	Lynx canadensis	Lynx	CPW Predictive Map Winter	G5	S1	LT	SE	SWAP Tier 1	CPW 20221213

Table 3. Fish & Wildlife Service Critical Habitats within 1 Miles of Project Area

No results were found for this project area.

Other Species of Concern

Table 4. Documented Occurrences within 1 Miles of Project Area: Rare Species, Natural Communities, and Species of Economic, Recreational or Conservation Value

Major Group	Scientific Name	Common Name	Data Type	Global Rarity	State Rarity	Viability Rank	Last Observation	ESA Status	CO Status	Other Status	CNHP Identifier	Data Source
Birds	Accipiter cooperii	Cooper's Hawk	CPW Nests	G5	S3S4B,S4N		2022-05-14					CPW 20230313
Birds	Accipiter striatus	Sharp-shinned Hawk	CPW Nests	G5	S3S4B,S4N		2022-06-16					CPW 20230313
Birds	Carpodacus cassinii (Haemorhous cassinii)	Cassin's Finch	IMBCR Observation	G5	S5		2017-06-19			SWAP Tier 2		BCR 20220301
Birds	Contopus cooperi	Olive-sided Flycatcher	IMBCR Observation	G4	S3S4B		2019-06-28			SWAP Tier 2/USFS		BCR 20220301
Birds	Cypseloides niger	Black Swift	CNHP EO	G4	S3B	C	2006-08-03			BLM/SWAP Tier 2/USFS	2496	CNHP 20221028
Birds	Falco peregrinus	Peregrine Falcon	CPW Nests	G4	S2B		2021-06-10					CPW 20230313
Birds	Falco peregrinus	Peregrine Falcon	CPW Nests	G4	S2B		2022-06-16					CPW 20230313
Birds	Plegadis chihi	White-faced Ibis	CNHP EO	G5	S2B	H	1983-99-99			BLM/SWAP Tier 2	369	CNHP 20221028
Birds	Spizella breweri	Brewer's Sparrow	IMBCR Observation	G5	S4B		2014-07-02			BLM/SWAP Tier 2/USFS		BCR 20220301
Birds	Vermivora virginiae (Leiothlypis virginiae)	Virginia's Warbler	IMBCR Observation	G5	S5		2021-06-21			SWAP Tier 2		BCR 20220301
Mammals	Cervus canadensis	Elk	CPW Production Area	G5	S5							CPW 20221213
Mammals	Cervus canadensis	Elk	CPW Severe Winter Range	G5	S5							CPW 20221213
Mammals	Cervus canadensis	Elk	CPW Winter Concentration Area	G5	S5							CPW 20221213
Mammals	Ursus americanus	Black Bear	CPW Fall Concentration	G5	S5							CPW 20221213
Mammals	Ursus americanus	Black Bear	CPW Human Conflict Area	G5	S5							CPW 20221213
Mammals	Ursus americanus	Black Bear	CPW Summer Concentration Area	G5	S5							CPW 20221213
Natural Communities	Populus tremuloides / Alnus incana Riparian Forest	Montane Riparian Forests	CNHP EO	G3	S4	B	1993-07-27				7278	CNHP 20221028
Natural	Salix monticola / Carex	Montane Riparian Willow	CNHP EO	G3	S3	B	1993-07-27				3178	CNHP 20

Table 4. Documented Occurrences within 1 Miles of Project Area: Rare Species, Natural Communities, and Species of Economic, Recreational or Conservation Value

Major Group	Scientific Name	Common Name	Data Type	Global Rarity	State Rarity	Viability Rank	Last Observation	ESA Status	CO Status	Other Status	CNHP Identifier	Data Source
Communities	utriculata Wet Shrubland	Carr										221028
Vascular Plants	Carex diandra	Lesser Panicked Sedge	CNHP EO	G5	S2	BC	2004-08-08			USFS	7480	CNHP 20221028
Vascular Plants	Crataegus saligna	Willow Hawthorn	CNHP Observation	G3G4	S3	H	1962-08-10				25969	CNHP 20221028
Vascular Plants	Crataegus saligna	Willow Hawthorn	CNHP Observation	G3G4	S3	H	1962-08-10				25970	CNHP 20221028
Vascular Plants	Mentzelia multicaulis	Many-stem Stickleaf	CNHP EO	G3	S3	H	1990-07-29				13572	CNHP 20221028
Vascular Plants	Penstemon harringtonii	Harrington Beardtongue	CNHP EO	G3	S3	A	2011-07-07			BLM/USFS	13287	CNHP 20221028
Vascular Plants	Penstemon harringtonii	Harrington Beardtongue	CNHP EO	G3	S3	H	1995-07-02			BLM/USFS	5144	CNHP 20221028
Mammals	Cervus canadensis	Elk	CPW Migration Patterns	G5	S5							CPW 20221213
Mammals	Corynorhinus townsendii pallescens	Townsend's Big-eared Bat Subsp	CNHP EO	G4T3T4	S2	E	2006-03-08		SC	BLM/SWAP Tier 1/USFS	14528	CNHP 20221028
Mammals	Cervus canadensis	Elk	CPW Migration Patterns	G5	S5							CPW 20221213
Mammals	Odocoileus hemionus	Mule Deer	CPW Migration Patterns	G5	S4							CPW 20221213

Table 5. Potential Occurrences within Project Area: Models, Range Maps, or Records with Low Precision

Major Group	Scientific Name	Common Name	Data Type	Global Rarity	State Rarity	ESA Status	CO Status	Other Status	Data Source
Birds	Accipiter gentilis	Northern Goshawk	CPW Breeding Range	G5	S3B			BLM/SWAP Tier 2/USFS	CPW 20221213
Birds	Baeolophus ridgwayi	Juniper Titmouse	CPW Breeding Range	G5	S4			SWAP Tier 2	CPW 20221213
Birds	Buteo swainsoni	Swainson's Hawk	CPW Breeding Range	G5	S5B			SWAP Tier 2	CPW 20221213
Birds	Carpodacus cassinii	Cassin's Finch	CPW Breeding Range	G5	S5			SWAP Tier 2	CPW 20221213
Birds	Catharus fuscescens	Veery	CPW Breeding Range	G5	S3B			SWAP Tier 2	CPW 20221213
Birds	Circus hudsonius	Northern Harrier	CPW Breeding Range	G5	S3B			SWAP Tier 2/USFS	CPW 20221213
Birds	Columba fasciata	Band-tailed Pigeon	CPW Breeding Range	G4	S4B			SWAP Tier 2	CPW 20221213

Table 5. Potential Occurrences within Project Area: Models, Range Maps, or Records with Low Precision

Major Group	Scientific Name	Common Name	Data Type	Global Rarity	State Rarity	ESA Status	CO Status	Other Status	Data Source
Birds	Contopus cooperi	Olive-sided Flycatcher	CPW Breeding Range	G4	S3S4B			SWAP Tier 2/USFS	CPW 20221213
Birds	Falco mexicanus	Prairie Falcon	CPW Breeding Range	G5	S4B,S4N			SWAP Tier 2	CPW 20221213
Birds	Falco peregrinus	Peregrine Falcon	CPW Nest Sites	G4	S2B				CPW 20230313
Birds	Falco peregrinus	Peregrine Falcon	CPW Nesting Area	G4	S2B				CPW 20221213
Birds	Leucosticte atrata	Black Rosy-finch	CPW Winter Range	G4	S4N			SWAP Tier 2	CPW 20221213
Birds	Leucosticte australis	Brown-capped Rosy-finch	CPW Overall Range	G4	S3B,S4N			SWAP Tier 1	CPW 20221213
Birds	Melanerpes lewis	Lewis's Woodpecker	CPW Breeding Range	G4	S4			SWAP Tier 2/USFS	CPW 20221213
Birds	Meleagris gallopavo	Wild Turkey	CPW Overall Range	G5	S5				CPW 20221213
Birds	Passerina amoena	Lazuli Bunting	CPW Breeding Range	G5	S5B			SWAP Tier 2	CPW 20221213
Birds	Selasphorus rufus	Rufous Hummingbird	CPW Migration Range	G4	SNA			SWAP Tier 2	CPW 20221213
Birds	Spizella breweri	Brewer's Sparrow	CPW Breeding Range	G5	S4B			BLM/SWAP Tier 2/USFS	CPW 20221213
Birds	Vermivora virginiae	Virginia's Warbler	CPW Breeding Range	G5	S5			SWAP Tier 2	CPW 20221213
Birds	Vireo vicinior	Gray Vireo	CPW Breeding Range	G5	S2B			SWAP Tier 2	CPW 20221213
Mammals	Alces alces	Moose	CPW Overall Range	G5	SNA				CPW 20221213
Mammals	Alces alces	Moose	CPW Summer Range	G5	SNA				CPW 20221213
Mammals	Alces alces	Moose	CPW Winter Range	G5	SNA				CPW 20221213
Mammals	Cervus canadensis	Elk	CPW Overall Range	G5	S5				CPW 20221213
Mammals	Cervus canadensis	Elk	CPW Summer Range	G5	S5				CPW 20221213
Mammals	Cervus canadensis	Elk	CPW Winter Range	G5	S5				CPW 20221213
Mammals	Corynorhinus townsendii	Townsend's Big-eared Bat	CPW Overall Range	G4	S2			BLM/USFS	CPW 20221213
Mammals	Eptesicus fuscus	Big Brown Bat	CPW Overall Range	G5	S5				CPW 20221213
Mammals	Lasionycteris noctivagans	Silver-haired Bat	CPW Overall Range	G3G4	S3S4				CPW 20221213
Mammals	Lepus americanus	Snowshoe Hare	CPW Overall Range	G5	S5			SWAP Tier 2	CPW 20221213
Mammals	Lepus americanus	Snowshoe Hare	Range Map - within range	G5	S5			SWAP Tier 2	CNHP 20210615
Mammals	Lepus townsendii	White-tailed Jackrabbit	CPW Overall Range	G5	S4			SWAP Tier 2	CPW 20221213
Mammals	Myodes gapperi (Clethrionomys gapperi)	Southern Red-backed Vole	Range Map - within range	G5	S5			SWAP Tier 2	CNHP 20210615
Mammals	Myodes gapperi gauti	Southern Red-backed Vole Subsp	CPW Overall Range	G5TNR	S4				CPW 20221213
Mammals	Myotis ciliolabrum	Western Small-footed Myotis	CPW Overall Range	G5	S4				CPW 20221213
Mammals	Myotis evotis	Long-eared Myotis	CPW Overall Range	G5	S4				CPW 20221213
Mammals	Myotis lucifugus	Little Brown Myotis	CPW Overall Range	G3G4	S4			SWAP Tier 1	CPW 20221213
Mammals	Myotis thysanodes	Fringed Myotis	CPW Overall Range	G4	S3			BLM/SWAP Tier 1/USFS	CPW 20221213

Table 5. Potential Occurrences within Project Area: Models, Range Maps, or Records with Low Precision

Major Group	Scientific Name	Common Name	Data Type	Global Rarity	State Rarity	ESA Status	CO Status	Other Status	Data Source
Mammals	Myotis volans	Long-legged Myotis	CPW Overall Range	G4G5	S5				CPW 20221213
Mammals	Myotis yumanensis	Yuma Myotis	CPW Overall Range	G5	S3				CPW 20221213
Mammals	Neotamias rufus	Hopi Chipmunk	Range Map - within range	G5	S5				CNHP 20210615
Mammals	Ochotona princeps	American Pika	CPW Overall Range	G5	S5			SWAP Tier 1	CPW 20221213
Mammals	Ochotona princeps	American Pika	Range Map - within range	G5	S5			SWAP Tier 1	CNHP 20210615
Mammals	Odocoileus hemionus	Mule Deer	CPW Overall Range	G5	S4				CPW 20221213
Mammals	Odocoileus hemionus	Mule Deer	CPW Summer Range	G5	S4				CPW 20221213
Mammals	Odocoileus hemionus	Mule Deer	CPW Winter Range	G5	S4				CPW 20221213
Mammals	Ovis canadensis	Mountain Sheep	CPW Overall Range	G4	S4			SWAP Tier 2	CPW 20221213
Mammals	Puma concolor	Mountain Lion	CPW Overall Range	G5	S4				CPW 20221213
Mammals	Sorex nanus	Dwarf Shrew	CPW Overall Range	G4	S2			SWAP Tier 2	CPW 20221213
Mammals	Ursus americanus	Black Bear	CPW Overall Range	G5	S5				CPW 20221213
Reptiles	Sceloporus consobrinus	Fence/prairie/plateau Lizard	CPW Overall Range	G5	S5				CPW 20221213
Reptiles	Sceloporus graciosus	Sagebrush Lizard	CPW Overall Range	G5	S5				CPW 20221213
Reptiles	Sceloporus tristichus	Southern Plateau Lizard	CPW Overall Range	G5	S3				CPW 20221213
Reptiles	Thamnophis elegans	Western Terrestrial Garter Snake	CPW Overall Range	G5	S5				CPW 20221213

Special Areas and Land Status

Table 6. CNHP Potential Conservation Areas and Other Special Areas within 1 Miles of Project Area

Name	Data Type	CNHP Biodiversity Rank	CNHP Edit Date	CNHP Identifier	Data Source
Aquatic Sportfish Management Waters	SB181 High Priority Habitat				CPW 20220528
Bald Eagle Active Nest Site - Half Mile Buffer	SB181 High Priority Habitat				CPW 20220528
Bald Eagle Active Nest Site - Quarter Mile Buffer	SB181 High Priority Habitat				CPW 20220528
Bighorn Sheep Winter Range	SB181 High Priority Habitat				CPW 20220528
Elk Production Area	SB181 High Priority Habitat				CPW 20220528
Elk Severe Winter Range	SB181 High Priority Habitat				CPW 20220528
Elk Winter Concentration Area	SB181 High Priority Habitat				CPW 20220528

Table 6. CNHP Potential Conservation Areas and Other Special Areas within 1 Miles of Project Area

Name	Data Type	CNHP Biodiversity Rank	CNHP Edit Date	CNHP Identifier	Data Source
Peregrine Falcon Active Nest Site	SB181 High Priority Habitat				CPW 20220528
Red Dirt Creek	CNHP PCA	B3: High Biodiversity Significance	2000-02-28	1961	CNHP 20221028
Sheep Creek Uplands	CNHP PCA	B3: High Biodiversity Significance	2000-02-28	128	CNHP 20221028
Sweetwater Lake	CNHP PCA	B3: High Biodiversity Significance	2001-01-15	1433	CNHP 20221028
Townsend's big-eared bat, Mexican free-tailed bat, and myotis winter hibernacula	SB181 High Priority Habitat				CPW 20220528
Turret Creek	CNHP PCA	B5: General Biodiversity Interest	2001-01-15	911	CNHP 20221028

Table 7. Managed Areas within Project Area

Name	Owner	Manager	Management Description	Public Access*	Protection Mechanism	Easement Holder	Data Source
	BLM	BLM	BLM - General	Yes	Fee		COMaP 20230223
Sweetwater Lake	USFS - WHITE RIVER	CPW	State Parks	No	Fee/CE	Eagle Valley Land Trust	COMaP 20230223
	PRIVATE	PRIVATE	Private Land (w/ Protection)	No	CE	Colorado Open Lands	COMaP 20230223
Ranch on Sweetwater	PRIVATE	PRIVATE	Private Land (w/ Protection)	No	CE	Colorado Open Lands	COMaP 20230223
	PRIVATE	PRIVATE	Private Land	No	NA		COMaP 20230223
White River National Forest	USFS - WHITE RIVER	USFS - WHITE RIVER	National Forest - General	Yes	Fee		COMaP 20230223

* It is the responsibility of the user to verify public access on any site as access can change over time. Entering an area that is not open to the public subjects an individual to possible sanctions for trespass under Colorado law.

Water and Wetlands

Table 8. National Wetland Inventory (NWI) Features within Project Area

NWI Code	Wetland Type	Total Acres	System	Class	Water Regime	Modifier	Data Source
L1UBHh	Lake	75.92	Lacustrine	Lake - deepwater	Permanently Flooded	Impounded	CNHP 20231001
L2ABGh	Lake	5.41	Lacustrine	Aquatic Bed	Intermittently Exposed	Impounded	CNHP 20231001
PABGb	Pond	0.46	Palustrine	Aquatic Bed	Intermittently Exposed	Beaver	CNHP 20231001
PEM1C	Emergent	0.01	Palustrine	Emergent/Herbaceous	Seasonally Flooded	None	CNHP 20231001
PEM1Ch	Emergent	22.49	Palustrine	Emergent/Herbaceous	Seasonally Flooded	Impounded	CNHP 20231001
PFOAh	Forested	4.10	Palustrine	Forested	Semipermanently Flooded	Impounded	CNHP 20231001
PSS1B	Shrub-Scrub	5.06	Palustrine	Shrub-Scrub	Seasonally Saturated	None	CNHP 20231001
PSS1Ch	Shrub-Scrub	40.60	Palustrine	Shrub-Scrub	Seasonally Flooded	Impounded	CNHP 20231001
PSS1Eb	Shrub-Scrub	3.84	Palustrine	Shrub-Scrub	Seasonal Flood/Saturated	Beaver	CNHP 20231001
R3UBF	Rivers & Streams	1.57	Riverine	Unconsolidated Bottom	Semipermanently Flooded	None	CNHP 20231001
R3UBG	Rivers & Streams	2.66	Riverine	Unconsolidated Bottom	Intermittently Exposed	None	CNHP 20231001
R3UBH	Rivers & Streams	5.00	Riverine	Unconsolidated Bottom	Permanently Flooded	None	CNHP 20231001
R4SBC	Rivers & Streams	2.49	Riverine	Stream Bed	Seasonally Flooded	None	CNHP 20231001
R4SBCx	Rivers & Streams	6.43	Riverine	Stream Bed	Seasonally Flooded	Excavated	CNHP 20231001
R5UBFx	Rivers & Streams	1.66	Riverine	Unconsolidated Bottom	Semipermanently Flooded	Excavated	CNHP 20231001
R5UBH	Rivers & Streams	0.08	Riverine	Unconsolidated Bottom	Permanently Flooded	None	CNHP 20231001

Project Report Appendix

Please visit the [CNHP website](#) for a more extensive collection of definitions for CODEX reports in addition to what is provided here below.

About CNHP Data

One of CNHP's core research activities is managing a statewide database that details the locations of rare and imperiled species and natural plant communities in Colorado. We gather data from CNHP surveys and monitoring projects, as well as from partners and other trusted sources like herbariums. All of our data are compiled and managed in the Biodiversity Information Management System (Biotics), a web-enabled database

platform hosted by [NatureServe](#). The species and natural plant communities we track are assigned global and state imperilment ranks based on rarity, threats, and trends, and their locations are mapped as element occurrences. Element occurrences include spatial data as well as details on condition, size, and landscape context. This information allows us to track both overall distribution and site-specific details describing how well elements are thriving at each location. We use element occurrences to delineate Potential Conservation Areas that represent the primary area needed to support the element occurrences, and often include additional suitable habitat or buffers from disturbance. **Please visit the [CNHP website](#) for more definitions and details related to CNHP data in CODEX.**

CODEX Report Definitions

CNHP Biodiversity Rank – The significance of a potential conservation area in terms of its biological diversity ranging from B1 (Outstanding Biodiversity significance meaning protection of this potential conservation area can prevent a species from going extinct) to B5 (General interest or open space for more globally secure species).

CNHP Edit Date– The date the CNHP potential conservation area record was last updated.

CNHP Identifier– A unique identifier for each CNHP data type, applicable only to CNHP data records.

CO Status – State status per Colorado Parks & Wildlife: Endangered (SE), Threatened (ST), or State Special Concern (SC).

Common Name – The common name of the species or plant community.

Critical Habitat Status – Critical habitat status for federally listed species under the Endangered Species Act.

Proposed – Proposed critical habitat

Managed Areas Name – Name of the managed area.

Manager – The general land Manager.

Management Description - The general category of how the feature is managed.

Other Species of Concern – Other globally rare species and plant communities, BLM or USFS sensitive species, state listed species, or Tier 1 and Tier 2 priority species from Colorado's State Wildlife Action Plan, and species of economic and recreational value.

Other Status – Other status such as BLM sensitive species (BLM), U.S Forest Service sensitive species (USFS), and Tier 1 and Tier 2 priority species from Colorado's State Wildlife Action Plan (SWAP Tier 1, SWAP Tier 2).

Owner – The general land owner.

Public Access – Level of public access to the feature.

Final – Final critical habitat

Critical Habitat Federal Register- The volume number and first page of the federal register publication describing the critical habitat.

Critical Habitat Publication Date - Federal Register publication date.

Data Source – The agency and date of the data provided.

Data Type –

[CNHP EO](#) – A location in which an element is, or was, present.

CNHP General EO – An element occurrence with imprecise directions; broadly mapped and typically historical or extirpated.

[CNHP Observation](#) – Sightings of species on CNHP's watchlist or sightings of tracked elements that do not meet the minimum criteria necessary to make an occurrence.

[CNHP PCA](#) – Areas in the state contributing to Colorado's biological diversity.

CNHP Model – Modeled presumed presence or habitat for a particular species.

CNHP PCA (Important Plant Area) – B1 or B2 CNHP potential conservation area supporting globally rare plants.

CNHP Range Map – Overall range for a particular species by

Protection Mechanism – Any mechanism of protection assigned to the managed area.

Regulatory Species – Species with federal protection under the Endangered Species Act or Bald and Golden Eagle Protection Act along with FWS designated critical habitat.

Return on Investment Report - Provides maps and the estimated annual benefit in dollars of conserved ecosystem services by ecosystem type within the project area in PDF format. Ecosystem types are derived from the 2016 National Land Cover Database (NLCD).

Scientific Name – The scientific name of the species or plant community

Special Areas and Land Status – CNHP Potential Conservation Areas ([PCA](#)), [State Designated Natural Areas](#), [Important Bird Areas](#), and managed lands from the Colorado Ownership, Management and Protection database ([COMaP](#)), SB181 High Priority Habitat

Special Areas Name – The name of the special area.

State Rarity - The [rarity rank](#) used by CNHP and The Natural Heritage Network to track how rare a species or plant community is in Colorado, ranging from S1 (rarest) to S5 (most common).

Viability Rank – The estimated viability of the species or ecological integrity of the natural community based on condition, size, and landscape context, ranging from A (excellent) to D (poor).

Water and Wetlands – Wetland types from the [National Wetland](#)

HUC 10 and HUC 12 for aquatics.

Important Bird Area – The most important places for birds as identified by the National Audubon Society.

State Natural Area - Areas that contain at least one unique or high-quality natural feature of statewide significance as designated by the Colorado Natural Areas Program.

CPW <description> - CPW data with a long list of data types: observations, nest sites, leks, etc.

Easement Holder – Organization or agency holding an easement (if present).

ESA Status – Federal status under the [Endangered Species Act](#): Endangered (E), Threatened (T), or Federal Candidate (C) with qualifiers for Partial Status (PS) and experimental populations (XN).

Global Rarity – The [rarity rank](#) used by CNHP and The Natural Heritage Network to track how rare a species or plant community is globally, ranging from G1 (rarest) to G5 (most common).

Last Observation – The most recent field observation.

Major group – The major group in which the element falls: Amphibians, Birds, Crayfish, Fish, Insects, Mammals, Mollusks, Natural Communities, Nonvascular Plants, Reptiles, and Vascular Plants.

[Inventory database.](#)

Class - The general appearance of the habitat in terms of either the dominant life form of the vegetation, or the physiography and composition of the substrate.

Modifier - Modifier assigned to further describe wetlands and deepwater habitats within the classification hierarchy based on water chemistry or ph, wetland or deepwater alteration, or soil type.

NWI Code – An alpha-numeric code corresponding to the classification nomenclature that best describes a particular wetland habitat. For more information on NWI data values, visit <https://www.fws.gov/wetlands/data/wetland-codes.html>

System – A complex of wetlands and deepwater habitats that share the influence of similar hydrologic, geomorphologic, chemical or biological factors.

Water Regime - Description of water duration within a wetland habitat.

Wetland Total Acres - Total acres of the wetland type in the project area.

Wetland Type – The generalized [Cowardin](#) wetland type.