

11783 Highway 337 S.
PO Box 100, Tijeras, NM 87123

505.286.6026
svance@gcc.com



July 22, 2022

State of Colorado
Division of Reclamation, Mining & Safety
1313 Sherman St., Room 215
Denver, CO 80203

Attn: Janet Binns, Environmental Protection Specialist III

Re: King I & II Mine, C1981035, RN8 Preliminary Adequacy Review Response

Ms. Binns:

In response to your letter of May 31, 2022, "King I & II Mine, C1981035, RN8 Preliminary Adequacy Review", please consider the following responses. Division concerns are shown in italics, GCC Energy responses are shown in bold font.

The following items need additional information from GCC Energy:

1) No updated ownership and control information was provided with the permit application. The last time Section 2.03.4 was updated was PR-10, June 12, 2020. Please assure that section 2.03.4 is up to date with the most current information. When updating the officers and directors information, please include start (or effective) dates, and end dates as applicable. Section 2.03.8 was last updated in permit TR30, 3/24/2021.

GCC Energy, 07/22/2022: King I & II, pages 2.03.4 1, 2 and 3 have been updated to include current ownership and control information. Officers and directors effective date and end dates are included. Applicant Violator System (AVS) numbers have been left blank where not yet assigned or available.

2) Please assure that the surface and subsurface ownership in Section 2.03.4 (6) and (7) are up to date, and provide any updates as required.

GCC Energy, 07/22/2022: Surface Ownership Maps King I-002 & King II-002 have been compared to the La Plata County GIS property identification maps and updated where property ownership changes have occurred. 2.03.4 pages 4 and 5 have been revised to reflect these changes. To our knowledge, subsurface ownership, as shown on Maps King I-003 & King II-003 and listed on 2.03.4 pages 4 and 5 remains unchanged from Permit Revision PR-10.

3) Please assure that all Right of Entry agreements in Section 2.03.6, are up to date. Please assure that surface access to water monitoring wells remain current.

GCC Energy, 07/22/2022: The surface use agreements for surface access to monitoring wells, as included in King II Appendix 1(3) is accurate and up to date.

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4) In accordance with Rule 2.07.6(2)(n), Rule 2.04.11, Rule 2.04.10, and Rule 2.05.6(2)(a)(iii)(A), please assure that the current mining and reclamation plan is up to date with the most current listings for Threatened and Endangered Species in consultation with Federal and State listed species.

GCC Energy, 07/22/2022: A search of the Colorado Natural Heritage Program (CNHP) was performed on all areas within, and 1.5 miles outside the C-1981-035 permit boundary. A map was created and submitted to CNHP showing a polygon 0.5 mile beyond the permit boundary, and CNHP extended a "buffer" zone 1 additional mile beyond that.

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.

The updated CNHP report is included in revised King II Appendix 8(3). Upon approval of this permit renewal, it should replace existing King II Appendix 8(3).

Please find enclosed:

King I 0 Cover Page July 22, 2022 (RN-08 PAR)
King I 2.03.4 page 1 thru 5, July 22, 2022 (RN-08 PAR)
Map King I-002 Surface Ownership (RN-08 PAR) 2022 06 16 42x30L
King II 0 Cover Page July 22, 2022 (RN-08 PAR)
King II Table of Contents pages iii, July 22, 2022 (RN-08 PAR)
King II 2.03.4 page 1 thru 5, July 22, 2022 (RN-08 PAR)
Appendix 8(3) King II July 22, 2022 (RN-08 PAR)
Map King II-002 Surface Ownership (RN-08 PAR) 2022 06 16 42x30L

Please contact me at 505.238.8272 or svance@gcc.com if you have any questions or require any additional information.

Sincerely,

A handwritten signature in blue ink, appearing to read "Sarah Vance", with a stylized flourish at the end.

Sarah Vance
Director of Environmental
GCC Energy, LLC

**GCC ENERGY, LLC
KING I MINE
PERMIT DOCUMENT
CDRMS MINING PERMIT C-1981-035**



Permit Renewal RN-08
July 22, 2022

**GCC Energy, LLC
King I Mine
4424 County Road 120
Hesperus, Co. 81326**

2.03.4 - IDENTIFICATION OF INTERESTS

GCC Energy, LLC is a corporation, incorporated under the laws of the State of Colorado. GCC Energy, LLC is the operator and permittee of the King I Mine (Formerly MSHA ID# 05-00266) and the King II Mine (MSHA ID# 05-04864), located in La Plata County, Colorado. The King I Mine ceased production and its portals were permanently sealed in January of 2009. GCC Energy, LLC is the entity responsible for payment of abandoned mine land reclamation fees. GCC Energy, LLC is a wholly owned subsidiary of GCC of America, Inc., P.O. Box 636, Wilmington, DE 19899.

GCC Energy, LLC
11783 Highway 337
Tijeras, New Mexico 87059
AVS Entity #247004

Phone: (970) 385-4528
Employer ID #20-2812006

Formed: Colorado October 22, 2007

Resident Agent CO: Chris Dorenkamp
6473 County Road 120
Hesperus, Colorado 81326
Phone: (970) 385-4528

Officers of GCC Energy, LLC

Name	Title	Effective Date	AVS #
Ron Henley	President	April 8, 2022	255179
Sarah Vance	Director of Environmental	April 8, 2022	
Robert Cartmel	Vice-President of Coal and Energy	April 8, 2022	
Cesar Conde	Secretary	April 8, 2022	252622
Carlos Lopez	Controller	April 8, 2022	255180
Luis Carlos Arias Laso	Treasurer	April 8, 2022	157896
Julio Fernando Reyes Nunez	Assistant Treasurer	April 8, 2022	
Gina Marie Lotito	Vice President of Environmental & Energy Affairs	Ending Date April 8, 2022	259480
Luis Carlos Chavez	Assistant Secretary	Ending Date April 8, 2022	259481
Jeff Benson	Assistant Secretary	Ending Date April 8, 2022	252623
Jaime Raul Medina Barraza	Assistant Treasurer	Ending Date April 8, 2022	260204

GCC of America, Inc. was incorporated in the state of Delaware on June 16, 1994 and is qualified to do business in Delaware and New Mexico. GCC of America, Inc. (AVS #: 157897) is the sole shareholder and 100% owner of GCC Energy, LLC.

GCC of America, Inc. does not own or control any other surface coal mining operations in the United States. GCC of America, Inc. has not previously owned or controlled any other surface coal mining operations in the United States within the past five years.

GCC of America, Inc. is a wholly owned subsidiary of Grupo Cementos de Chihuahua, S.A. de C.V.

GCC of America, Inc.

P.O. Box 100

11783 Highway 337

Tijeras, New Mexico 87059

Phone: (505) 281-3311

AVS #:157897

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Doug Roark	VP, Operations	April 8, 2022	255177
Robert Cartmel	VP, Ready Mix & Aggregates	April 8, 2022	
Andres Osuna	VP, Planning & Administration	April 8, 2022	157894
Edward Hernandez	VP, Human Resources	April 8, 2022	255178
Gina Lotito	VP, Sustainability & Environmental	April 8, 2022	259480
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AVS #: 157898

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Luis Carlos Arias Laso	Director	April 8, 2022	157896
Cesar Conde	Director	April 8, 2022	252622
Sergio Saenz	General Counsel	Ending Date April 8, 2022	157893

2.03.4 (6) – Surface & Coal Ownership within the Permit Area

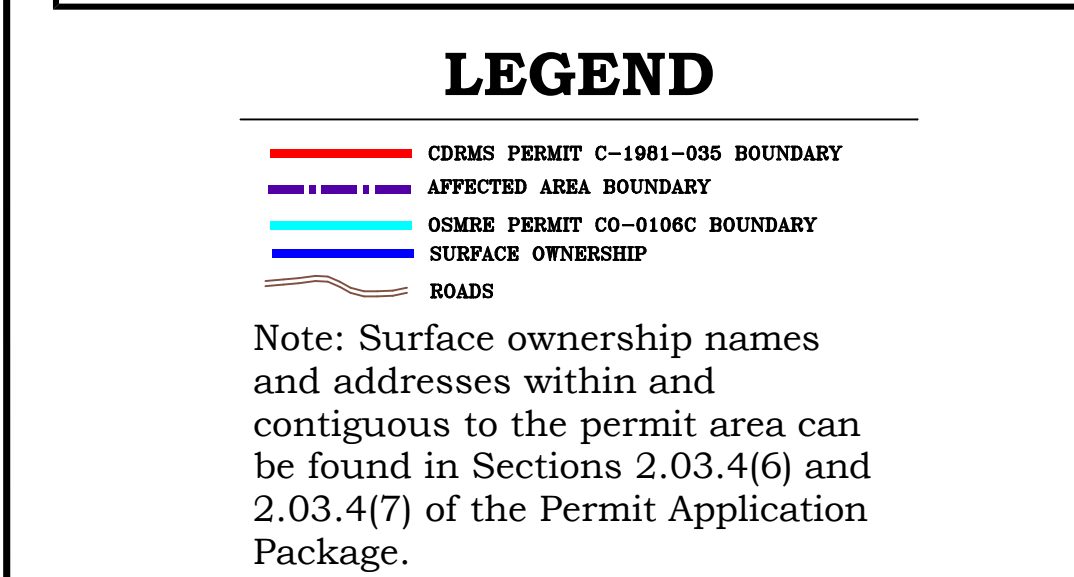
Huntington Ranches, LLC - 7080 C.R. 120, Hesperus, CO 81326 (Surface & Coal)
Crawford Ranch - 2161 C.R. 121, Hesperus, CO 81326 (Surface)
Bureau of Land Management - 2850 Youngfield St., Lakewood, CO 80215-7210 (Surface & Coal)
State of Colorado - 6060 Broadway, Denver, CO 80216 (Surface)
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Wiltse, Jack B., 2416 East 20th, Apt. J5, Farmington, NM 87401 (Surface)
Blast & Cast, Inc. - P.O. Box 543, Silverton, CO 81433 (Surface)
Robert Lansing, - P.O. Box 487, Quincy, IL 62306 (Surface)
C & C Livestock Corporation – P.O. Box 1264, Farmington, NM 87499 (Surface)
Robert & Manik Hovsepian – 1677 So. Riverbend Lane, Superior, CO 80027 (Surface)

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Four Daughters Coal: P.O. Box 114, Caspar, CA 95420 (Coal)
Richard Tipotsch, et al: Deceased, no known address (Coal lease relinquished)

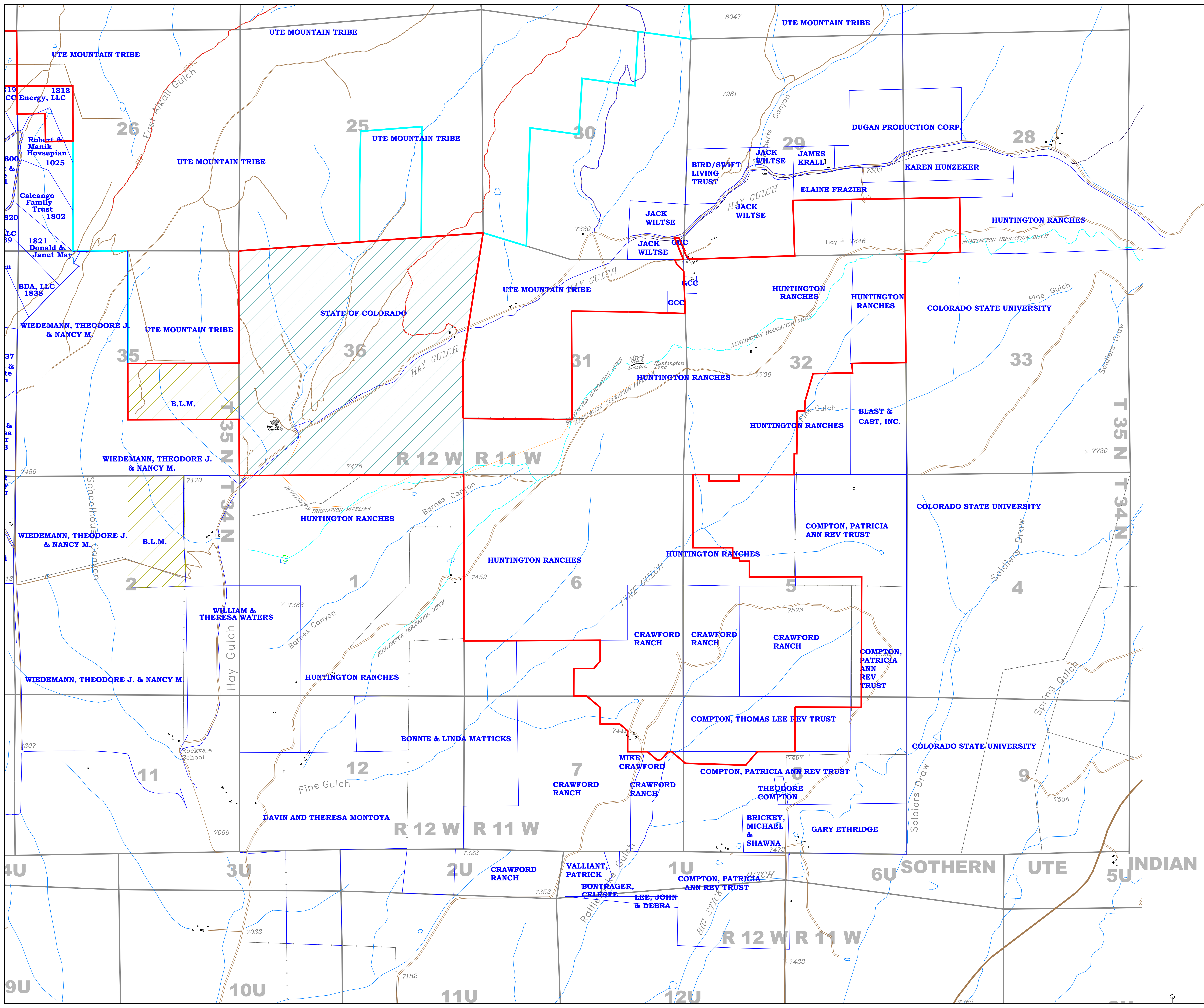
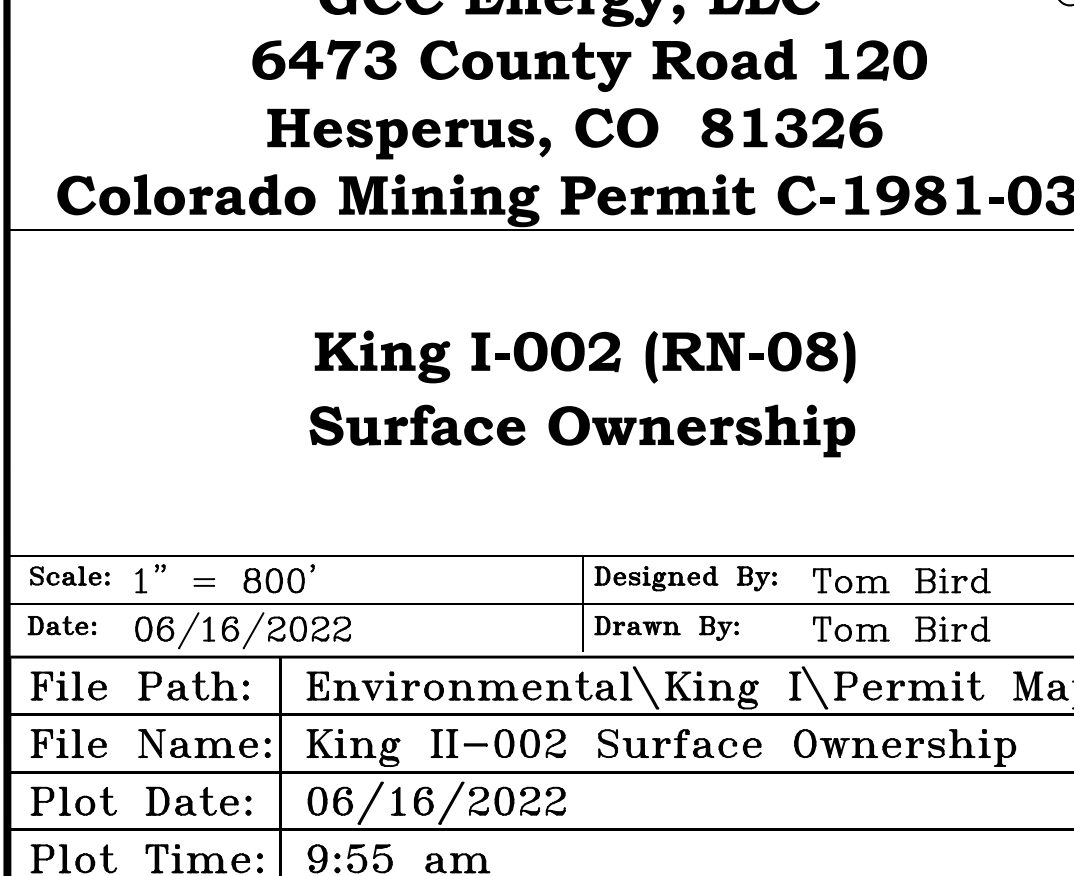
2.03.4 (7) – Surface & Subsurface Ownership Contiguous to the Permit Area

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Crawford, Mike, 2161 C.R. 121, Hesperus, CO 81326 (Surface)
Matticks, Bonnie A. & Linda A T – 2191 W. Fair Circle, Littleton, CO 80120 (Surface)
Wiedemann, Theodore J. & Nancy M. Family Trust, 5960 East Territory Ave., Tucson, AZ 85750 (Surface)
Ute Mountain Tribe, P.O. Box 248, Towaoc, CO 81334 (Surface & Coal)
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Elaine J. Frazier, 2637 Dallas St. NE, Apt. #2, Albuquerque, NM 87110 (Surface)
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Colorado State University, 18683 State Highway 140, Hesperus, CO 81326 (Surface)
Paul Vega – 3308 So. Emerson St., Englewood, CO 80113 (Surface)
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Barbara Boan, 1003 West Oak Ave, Unit B, Bloomfield, NM 87413 (Coal)
Frank Pyle, P.O. Box 1267, Dolores, CO 81323 (Coal)
Dona Cady, 10 Road 6411, Kirtland, NM 87417 (Coal)
Myrna Loveless, 518 N. 27th St., Rogers, AR 72756 (Coal)
Blair Pyle, 7411 E. Visao Dr., Scottsdale, AZ 85266 (Coal)
Brynda Cleveland, 3050 Amber Bay Loop, Anchorage, AK 99515 (Coal)
Jimmy Coppinger C/O Kelly R. McCabe, Kelly R. McCabe P.C., P.O. Box 1296, Cortez, CO 81321 (Coal))



I _____, a professional engineer, certify that the information on this map is correct to the best of my knowledge and belief.



**GCC ENERGY, LLC
KING II MINE
PERMIT DOCUMENT
CDRMS PERMIT # C-1981-035**



Permit Renewal (RN-08)
July 22, 2022

**GCC Energy, LLC
King II Mine
6473 County Road 120
Hesperus, CO 81326**

(10) King I & II Coal Mine Area, Hydrologic Study, Resource Hydrologic Services, 01/31/2016	
(11) Water Balance Study for the King II Mine, CDS Environmental Services LLC 05/08/2014	
(12) GCC King I & II Water Quality Site & Analytical Recommendations, Resource Hydrogeologic Services, February 5, 2016	
(13) GCCE King I Upgradient Hay Gulch Alluvial Monitoring Well Specifications, Resource Hydrogeologic Services, April 28, 2016	
(14) U.S. Army Corp of Engineers Finding of No Significant Impact February 5, 2016	
Climatological Data Summaries	5
Soil Resource Data and Analysis	6
(1) Field Data Sheet	
(2) Colorado State University Soil, Water and Plant Testing Laboratory Analysis	
(3) Soil Horizon Suitability Criteria for Reclamation	
(4) Assessment of Soils and Vegetation on the Barn Staging Site for the East Alkali Gulch Low Cover Crossing Project, SME Environmental Consultants, March 12, 2021	
Baseline Vegetation Report	7
(1) Baseline Vegetation Report, National King Coal, LLC, King II Mine, Hay Gulch, Colorado, August 2005	
(2) 2005 Baseline Soil & Vegetation Surveys: Boundaries and Extent Addendum, Savage and Savage, Inc. 2019 12 11	
Fish and Wildlife Information	8
(1) La Plata County Wildlife: Known or Likely Species Occurrence	
(2) Natural Diversity Information Source Sample Maps	
(3) Colorado Natural Heritage Program Database Survey, Colorado State University, June 14, 2022	
(4) Colorado Div. of Wildlife Density Standard Approval	
(5) Natural Resource Survey, TR-22 Drill Sites, SWCA April 11, 2014	
(6) Natural Resource Survey, TR-26 Drill Sites, Ecosphere Environmental Services, October, 2016	
(7) Natural Resource Survey, MR-49 Drill Site, Ecosphere Environmental Services, Inc. July 9, 2019	
(8) Low Cover Crossing at Alkali Gulch, Endangered Species Field Assessment, TR-30, SME Environmental Consultants, November 6, 2018	
USDA Important Farmlands of La Plata County, Colorado	9
Structure Designs	10
(1) Haul Roads; Description and Certifications	
(2) Access Roads; Certification	
(3) Low Cover Crossing Access Road Vehicle Grade and Speed Ratings (TR-30)	
Hydrologic Designs	11
(1) King II Mine Site Hydrology Analysis - Introduction Document	
(1A) SEDCAD Hydrology Model Tables (TR-29)	
(1B) SEDCAD Drainage Basin A to Pond 1 Flows Modified for King III Portals (TR-29). Flegal 04/29/2020	
(1C) SEDCAD Ditch CWD-1A SEDCAD As-Built (Stations 0+00 to 18+95 (Culvert C-3 to CWD-2). Chlopek 12/03/2015	
(1D) SEDCAD Ditch CWD-1A SEDCAD As-Built (Stations 18+95 to	

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AVS Entity #247004

Phone: (970) 385-4528
Employer ID #20-2812006

Formed: Colorado October 22, 2007

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Four Daughters Coal: P.O. Box 114, Caspar, CA 95420 (Coal)
Richard Tipotsch, et al: Deceased, no known address (Coal lease relinquished)

2.03.4 (7) – Surface & Subsurface Ownership Contiguous to the Permit Area

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Jimmy Coppinger C/O Kelly R. McCabe, Kelly R. McCabe P.C., P.O. Box 1296, Cortez, CO 81321 (Coal)

Appendix 8(3)

King II

July 22, 2022

(RN-08)



Colorado's Conservation Data Explorer

Project Review Report

Project Description

King Coal Mine permit boundary + 0.5 mile plus 1 mile buffer area.

Project Information

Report Generation Date: 6/14/2022 12:10:08 PM

Project Title: CDRMS Permit C-1981-035 Permit Boundary + 1/2 Mile

User Project Number(s):

System Generated ID: CODEX-629

Project Type: Mining

Project Size: 15,967.45 (acres)

Latitude/Longitude: 37.258864 / -108.117199

County(s): LA PLATA

Watershed(s) HUC 8: Middle San Juan

Township/Range and/or Section(s): 035N012W - 11 - NM, 035N012W - 12 - NM, 035N011W - 07 - NM, 035N011W - 08 - NM, 035N012W - 16 - NM, 035N012W - 15 - NM, 035N012W - 14 - NM, 035N012W - 13 - NM, 035N011W - 18 - NM, 035N011W - 17 - NM, 035N012W - 21 - NM, 035N012W - 22 - NM, 035N012W - 23 - NM, 035N012W - 24 - NM, 035N011W - 19 - NM, 035N011W - 20 - NM, 035N012W - 28 - NM, 035N012W - 27 - NM, 035N012W - 26 - NM, 035N012W - 25 - NM, 035N011W - 30 - NM, 035N011W - 29 - NM, 035N011W - 28 - NM, 035N011W - 27 - NM +

Contact Information

Organization: Hay Gulch Services, LLC

Contact Name: Tom Bird

Contact Phone: 9707691160

Contact Email: tom@haygulchservices.com

Contact Address: 3977 County Road 120, Hesperus, CO 81326

Submitted On Behalf Of: CONSULTING

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

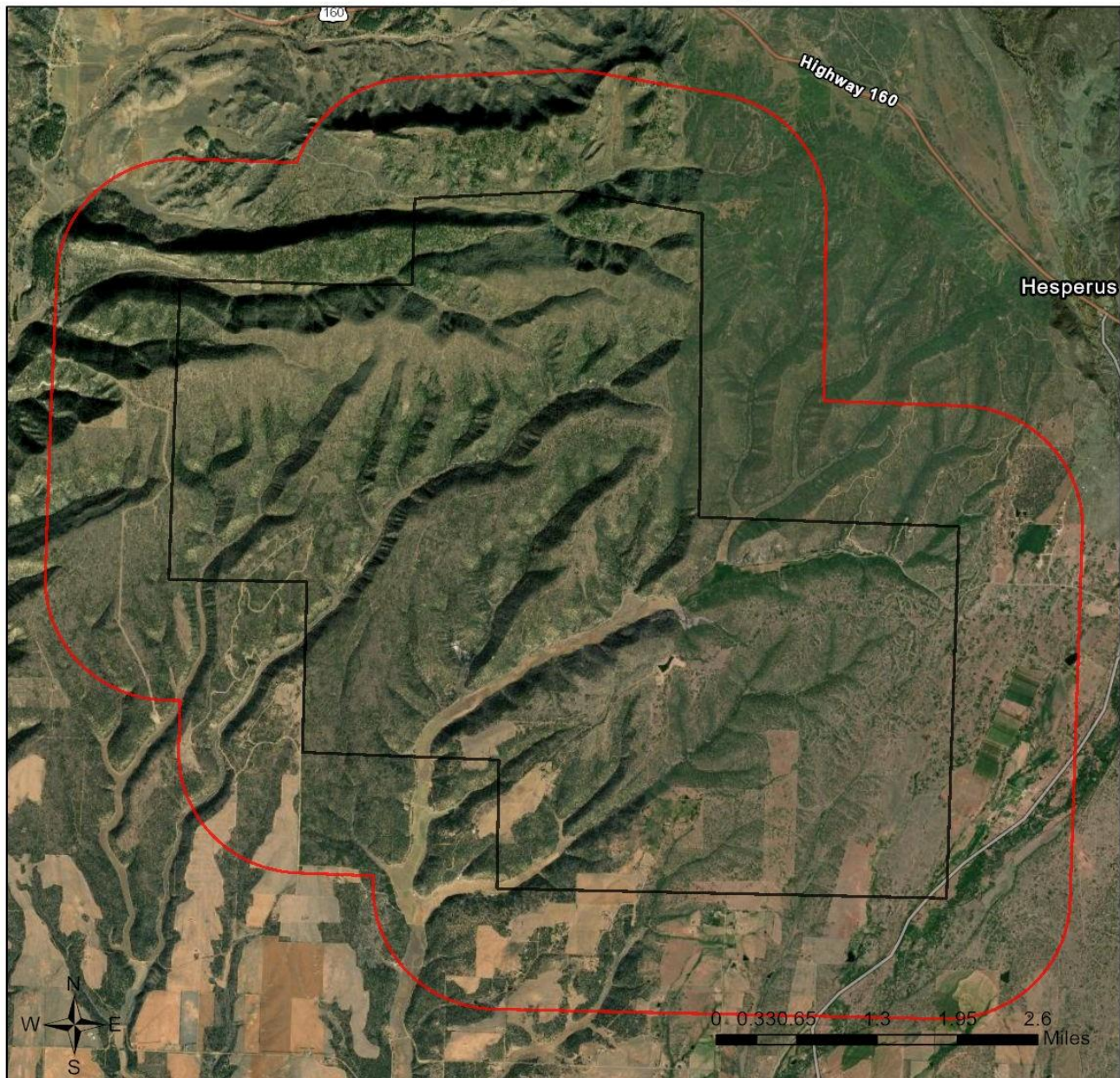
Southwest Region



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

CDRMS Permit C-1981-035 Permit Boundary + 1/2 Mile Aerial Image with Locator Map

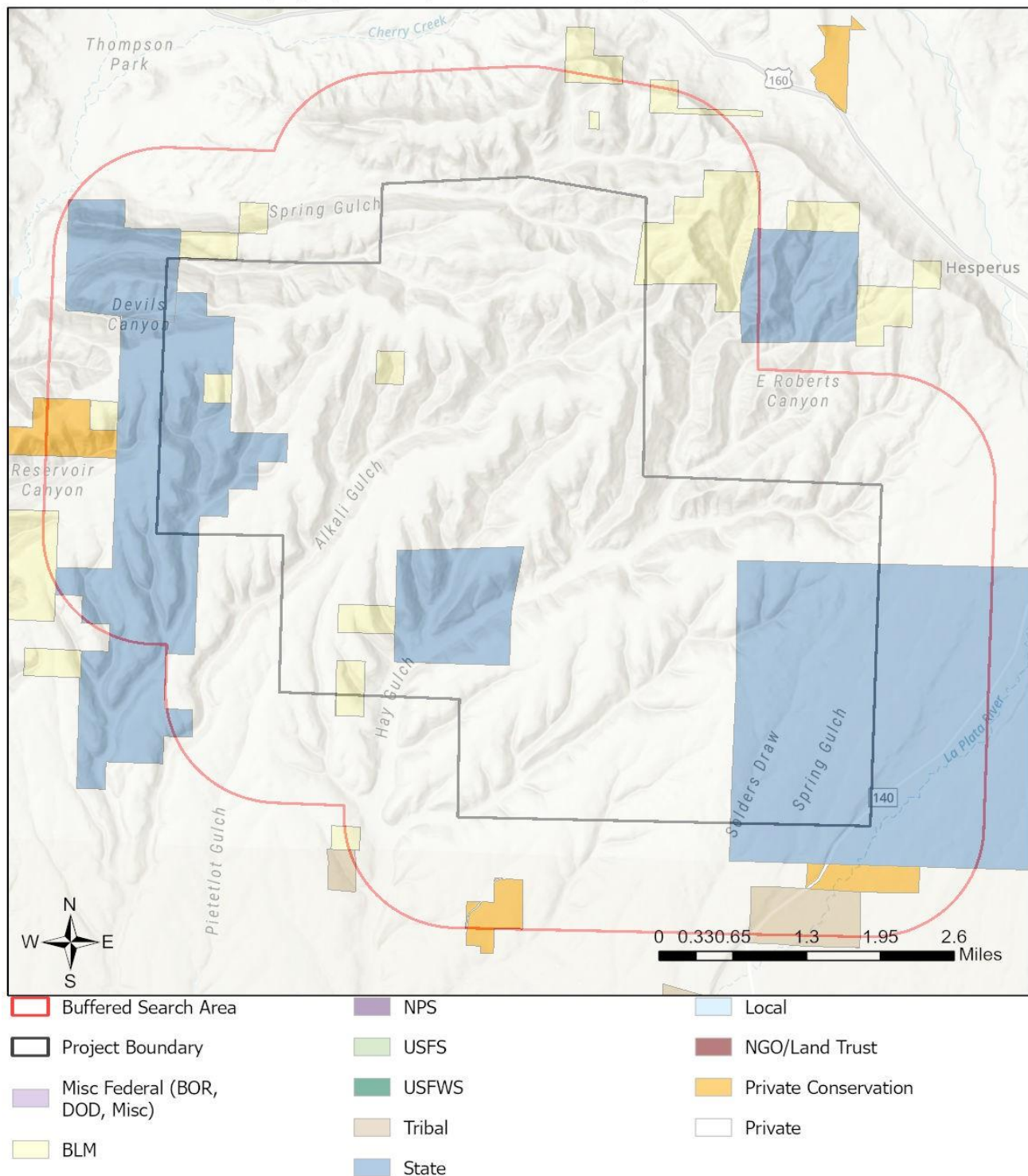


-  Buffered Search Area
-  Project Boundary



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

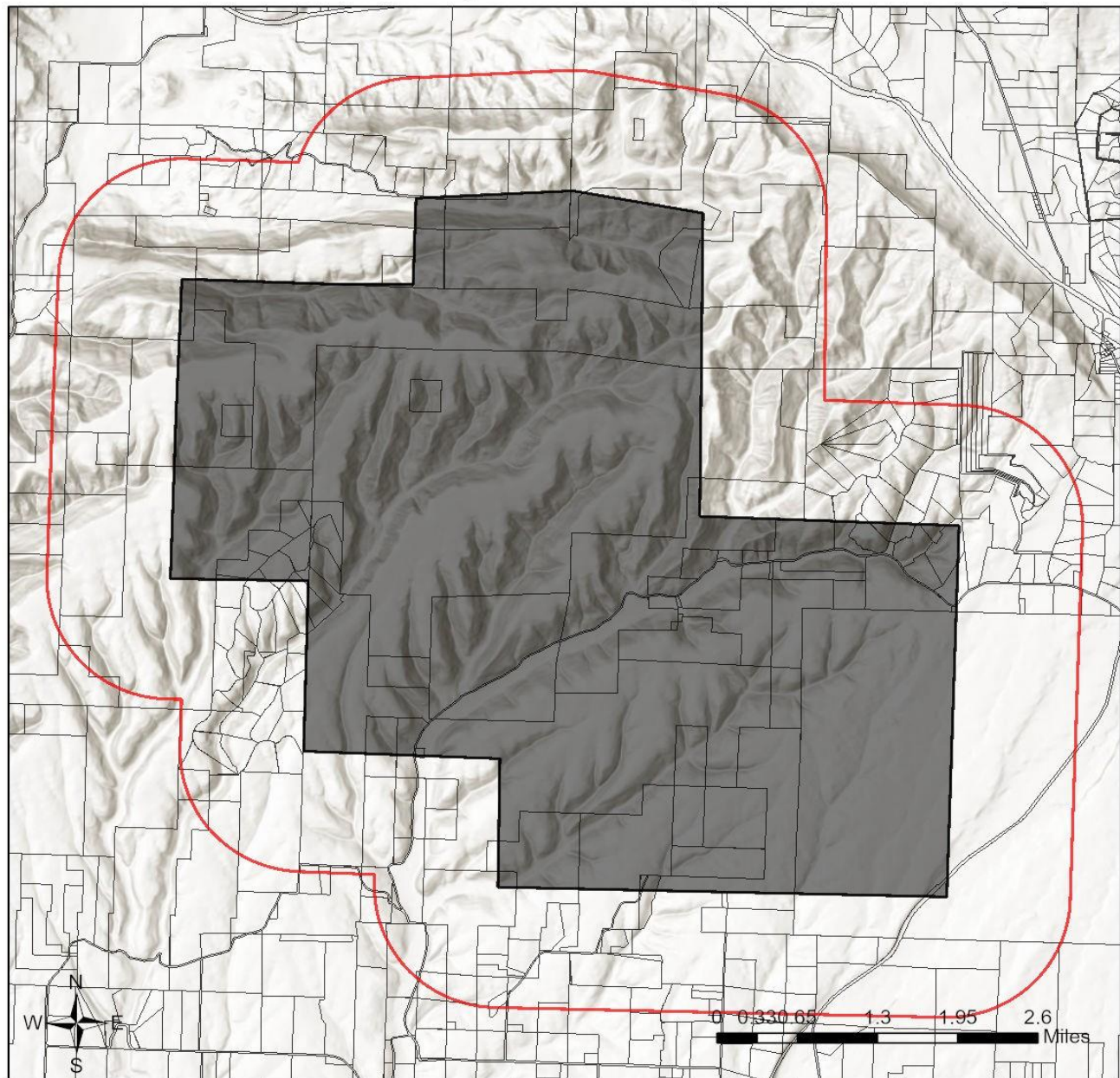
CDRMS Permit C-1981-035 Permit Boundary + 1/2 Mile Topographic Map with Land Management Status



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

CDRMS Permit C-1981-035 Permit Boundary + 1/2 Mile

Web Map As Submitted By User



- | | | | |
|--------------------------------------|------------------------------------|------------------------------------|--|
| <input type="checkbox"/> Adams | <input type="checkbox"/> Eagle | <input type="checkbox"/> Larimer | <input type="checkbox"/> Rio Blanco |
| <input type="checkbox"/> Arapahoe | <input type="checkbox"/> El Paso | <input type="checkbox"/> Logan | <input type="checkbox"/> Routt |
| <input type="checkbox"/> Archuleta | <input type="checkbox"/> Garfield | <input type="checkbox"/> Mesa | <input type="checkbox"/> San Miguel |
| <input type="checkbox"/> Boulder | <input type="checkbox"/> Gilpin | <input type="checkbox"/> Montezuma | <input type="checkbox"/> Sedgwick |
| <input type="checkbox"/> Broomfield | <input type="checkbox"/> Grand | <input type="checkbox"/> Montrose | <input type="checkbox"/> Summit |
| <input type="checkbox"/> Clear Creek | <input type="checkbox"/> Gunnison | <input type="checkbox"/> Morgan | <input type="checkbox"/> Weld |
| <input type="checkbox"/> Custer | <input type="checkbox"/> Jefferson | <input type="checkbox"/> Ouray | <input checked="" type="checkbox"/> Buffered Search Area |
| <input type="checkbox"/> Denver | <input type="checkbox"/> Lake | <input type="checkbox"/> Pitkin | <input checked="" type="checkbox"/> Project Boundary |
| <input type="checkbox"/> Douglas | <input type="checkbox"/> La Plata | <input type="checkbox"/> Pueblo | |

Esri, NASA, NGA, USGS

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 Winter Concentration Area	G5	S3B,S3N				SC	BGEPA/BLM/SWA P Tier 2/USFS		CPW 20201203

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 20201203
Birds	Haliaeetus leucocephalus	Bald Eagle	CPW Winter Forage	G5	S3B,S3N		SC	BGEPA/BLM/SWAP Tier 2/USFS	CPW 20201203
Mammals	Lynx canadensis	Lynx	CPW Predictive Map Summer	G5	S1	LT	SE	SWAP Tier 1	CPW 20201203
Mammals	Lynx canadensis	Lynx	CPW Predictive Map Winter	G5	S1	LT	SE	SWAP Tier 1	CPW 20201203
Vascular Plants	Astragalus schmollii	Chapin Mesa Milkvetch	CNHP Model	G1	S1	C		SWAP Tier 1	CNHP 20100930

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
Mammals	Cervus canadensis	Elk	CPW Migration Patterns	G5	S5							CPW 20201203
Amphibians	Lithobates pipiens	Northern Leopard Frog	CNHP EO	G5	S3	E	2001-08-23		SC	BLM/SWAP Tier	16244	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
										1/USFS		210920
Birds	Meleagris gallopavo	Wild Turkey	CPW Production Area	G5	S5							CPW 201203
Birds	Meleagris gallopavo	Wild Turkey	CPW Winter Concentration Area	G5	S5							CPW 201203
Fish	Catostomus discobolus	Bluehead Sucker	CPW HUC12 Presence	G4	S4					BLM/SWAP Tier 1/USFS		CPW 201203
Fish	Catostomus latipinnis	Flannelmouth Sucker	CPW HUC12 Presence	G3G4	S3					BLM/SWAP Tier 1/USFS		CPW 201203
Fish	Gila robusta	Roundtail Chub	CPW HUC12 Presence	G3	S2				SC	BLM/SWAP Tier 1/USFS		CPW 201203
Mammals	Cervus canadensis	Elk	CPW Highway Crossing	G5	S5							CPW 201203
Mammals	Cervus canadensis	Elk	CPW Production Area	G5	S5							CPW 201203
Mammals	Cervus canadensis	Elk	CPW Resident Population Area	G5	S5							CPW 201203
Mammals	Cervus canadensis	Elk	CPW Winter Concentration Area	G5	S5							CPW 201203
Mammals	Corynorhinus townsendii pallescens	Townsend's Big-eared Bat Subsp	CNHP EO	G4T3T4	S2	H	1992-08-03		SC	BLM/SWAP Tier 1/USFS	10761	CNHP 2010920
Mammals	Corynorhinus townsendii pallescens	Townsend's Big-eared Bat Subsp	CNHP EO	G4T3T4	S2	H	1993-08-22		SC	BLM/SWAP Tier 1/USFS	3436	CNHP 2010920
Mammals	Corynorhinus townsendii	Townsend's Big-eared Bat	CPW Sites	G4	S2		2000-07-31			BLM/USFS		CPW 201203
Mammals	Eptesicus fuscus	Big Brown Bat	CPW Sites	G5	S5		1992-09-24					CPW 201203
Mammals	Myotis californicus	California Myotis	CPW Sites	G5	S3		1992-08-02					CPW 201203
Mammals	Myotis ciliolabrum	Western Small-footed Myotis	CPW Sites	G5	S4		2000-07-31					CPW 201203
Mammals	Myotis evotis	Long-eared Myotis	CPW Sites	G5	S4		1992-08-02					CPW 201203
Mammals	Myotis lucifugus	Little Brown Myotis	CPW Sites	G3	S4		1991-08-29			SWAP Tier 1		CPW 201203

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
Mammals	Myotis thysanodes	Fringed Myotis	CPW Sites	G4	S3		1992-08-02			BLM/SWAP Tier 1/USFS		CPW 201203
Mammals	Myotis volans	Long-legged Myotis	CPW Sites	G4G5	S5		1992-07-06					CPW 201203
Mammals	Odocoileus hemionus	Mule Deer	CPW Concentration Area	G5	S4							CPW 201203
Mammals	Odocoileus hemionus	Mule Deer	CPW Highway Crossing	G5	S4							CPW 201203
Mammals	Odocoileus hemionus	Mule Deer	CPW Resident Population Area	G5	S4							CPW 201203
Mammals	Odocoileus hemionus	Mule Deer	CPW Winter Concentration Area	G5	S4							CPW 201203
Mammals	Puma concolor	Mountain Lion	CPW Human Conflict Area	G5	S4							CPW 201203
Mammals	Ursus americanus	Black Bear	CPW Fall Concentration	G5	S5							CPW 201203
Mammals	Ursus americanus	Black Bear	CPW Human Conflict Area	G5	S5							CPW 201203
Mammals	Ursus americanus	Black Bear	CPW Summer Concentration Area	G5	S5							CPW 201203
Mammals	Vulpes macrotis	Kit Fox	CNHP EO	G4	S1	E	2009-05-21		SE	BLM/SWAP Tier 2/USFS	17898	CNHP 2010920
Natural Communities	Populus angustifolia / Betula occidentalis Riparian Woodland	Montane Riparian Forest	CNHP EO	G3	S3	D	2003-07-09				3038	CNHP 2010920

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 20201203
Birds	Artemisiospiza nevadensis	Sagebrush Sparrow	CPW Breeding Range	G5	S3B			SWAP Tier 2/USFS	CPW 20201203
Birds	Baeolophus ridgwayi	Juniper Titmouse	CPW Breeding Range	G5	S4			SWAP Tier 2	CPW 20201203

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	Carpodacus cassinii	Cassin's Finch	CPW Breeding Range	G5	S5			SWAP Tier 2	CPW 20201203
Birds	Circus hudsonius	Northern Harrier	CPW Breeding Range	G5	S3B			SWAP Tier 2/USFS	CPW 20201203
Birds	Columba fasciata	Band-tailed Pigeon	CPW Breeding Range	G4	S4B			SWAP Tier 2	CPW 20201203
Birds	Contopus cooperi	Olive-sided Flycatcher	CPW Breeding Range	G4	S3S4B			SWAP Tier 2/USFS	CPW 20201203
Birds	Falco mexicanus	Prairie Falcon	CPW Breeding Range	G5	S4B,S4N			SWAP Tier 2	CPW 20201203
Birds	Gymnorhinus cyanocephalus	Pinyon Jay	CPW Breeding Range	G3	S3			SWAP Tier 2	CPW 20201203
Birds	Leucosticte atrata	Black Rosy-finch	CPW Winter Range	G4	S4N			SWAP Tier 2	CPW 20201203
Birds	Leucosticte australis	Brown-capped Rosy-finch	CPW Overall Range	G4	S3B,S4N			SWAP Tier 1	CPW 20201203
Birds	Melanerpes lewis	Lewis's Woodpecker	CPW Breeding Range	G4	S4			SWAP Tier 2/USFS	CPW 20201203
Birds	Meleagris gallopavo	Wild Turkey	CPW Overall Range	G5	S5				CPW 20201203
Birds	Meleagris gallopavo	Wild Turkey	CPW Winter Range	G5	S5				CPW 20201203
Birds	Passerina amoena	Lazuli Bunting	CPW Breeding Range	G5	S5B			SWAP Tier 2	CPW 20201203
Birds	Progne subis	Purple Martin	CPW Breeding Range	G5	S3B			SWAP Tier 2/USFS	CPW 20201203
Birds	Selasphorus rufus	Rufous Hummingbird	CPW Migration Range	G4	SNA			SWAP Tier 2	CPW 20201203
Birds	Setophaga graciae	Grace's Warbler	CPW Breeding Range	G5	S3B			SWAP Tier 2	CPW 20201203
Birds	Spizella breweri	Brewer's Sparrow	CPW Breeding Range	G5	S4B			BLM/SWAP Tier 2/USFS	CPW 20201203
Birds	Vermivora virginiae	Virginia's Warbler	CPW Breeding Range	G5	S5			SWAP Tier 2	CPW 20201203
Birds	Vireo vicinior	Gray Vireo	CPW Breeding Range	G5	S2B			SWAP Tier 2	CPW 20201203
Insects	Bombus (Bombus) occidentalis	Western Bumble Bee	Range Map - within range	G4	S3S4			SWAP Tier 2	CNHP 20210615
Insects	Bombus fervidus	Yellow Bumble Bee	Range Map - within range	GNR	S3S4			SWAP Tier 2	CNHP 20210615
Insects	Bombus suckleyi	Suckley's Cuckoo Bumble Bee	Range Map - within range	G2G3	S2			SWAP Tier 2	CNHP 20210615
Mammals	Cervus canadensis	Elk	CPW Overall Range	G5	S5				CPW 20201203
Mammals	Cervus canadensis	Elk	CPW Winter Range	G5	S5				CPW 20201203
Mammals	Corynorhinus townsendii	Townsend's Big-eared Bat	CPW Overall Range	G4	S2			BLM/USFS	CPW 20201203
Mammals	Cynomys gunnisoni	Gunnison's Prairie Dog	CPW Overall Range	G3?	S5			BLM/SWAP Tier 1/USFS	CPW 20201203
Mammals	Eptesicus fuscus	Big Brown Bat	CPW Overall Range	G5	S5				CPW 20201203
Mammals	Euderma maculatum	Spotted Bat	CPW Overall Range	G4	S2			BLM/SWAP Tier 1/USFS	CPW 20201203
Mammals	Gulo gulo	Wolverine	CNHP General EO	G4	S1		SE	SWAP Tier 1	CNHP 20210920
Mammals	Lasionycteris noctivagans	Silver-haired Bat	CPW Overall Range	G3G4	S3S4				CPW 20201203
Mammals	Lasiurus cinereus	Hoary Bat	CPW Overall Range	G3G4	S3S4B			SWAP Tier 2/USFS	CPW 20201203
Mammals	Lepus americanus	Snowshoe Hare	CPW Overall Range	G5	S5			SWAP Tier 2	CPW 20201203

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	Myodes gapperi gauti	Southern Red-backed Vole Subsp	CPW Overall Range	G5TNR	S4				CPW 20201203
Mammals	Myotis californicus	California Myotis	CPW Overall Range	G5	S3				CPW 20201203
Mammals	Myotis ciliolabrum	Western Small-footed Myotis	CPW Overall Range	G5	S4				CPW 20201203
Mammals	Myotis evotis	Long-eared Myotis	CPW Overall Range	G5	S4				CPW 20201203
Mammals	Myotis lucifugus	Little Brown Myotis	CPW Overall Range	G3	S4			SWAP Tier 1	CPW 20201203
Mammals	Myotis thysanodes	Fringed Myotis	CPW Overall Range	G4	S3			BLM/SWAP Tier 1/USFS	CPW 20201203
Mammals	Myotis volans	Long-legged Myotis	CPW Overall Range	G4G5	S5				CPW 20201203
Mammals	Neotamias quadrivittatus	Colorado Chipmunk	Range Map - within range	G5	S5				CNHP 20210615
Mammals	Odocoileus hemionus	Mule Deer	CPW Overall Range	G5	S4				CPW 20201203
Mammals	Odocoileus hemionus	Mule Deer	CPW Summer Range	G5	S4				CPW 20201203
Mammals	Odocoileus hemionus	Mule Deer	CPW Winter Range	G5	S4				CPW 20201203
Mammals	Parastrellus hesperus	Canyon Bat	CPW Overall Range	G5	S4				CPW 20201203
Mammals	Puma concolor	Mountain Lion	CPW Overall Range	G5	S4				CPW 20201203
Mammals	Sorex nanus	Dwarf Shrew	CPW Overall Range	G4	S2			SWAP Tier 2	CPW 20201203
Mammals	Tadarida brasiliensis	Brazilian Free-tailed Bat	CPW Overall Range	G5	S1				CPW 20201203
Mammals	Thomomys bottae	Botta's Pocket Gopher	CPW Overall Range	G5	S5				CPW 20201203
Mammals	Ursus americanus	Black Bear	CPW Overall Range	G5	S5				CPW 20201203
Reptiles	Aspidoscelis velox	Plateau Striped Whiptail	CPW Overall Range	G5	S4				CPW 20201203
Reptiles	Crotalus oreganus	Western Rattlesnake	CPW Overall Range	G5	SNR				CPW 20201203
Reptiles	Crotalus viridis	Western Rattlesnake	CPW Overall Range	G5	S5				CPW 20201203
Reptiles	Crotaphytus collaris	Collared Lizard	CPW Overall Range	G5	S5				CPW 20201203
Reptiles	Lampropeltis gentilis	Central Plains Milk Snake	CPW Overall Range	G5	S5			SWAP Tier 2	CPW 20201203
Reptiles	Liochlorophis vernalis	Smooth Green Snake	CPW Overall Range	G5	S4				CPW 20201203
Reptiles	Phrynosoma hernandesi	Hernandez's Short-horned Lizard	CPW Overall Range	G5	S5				CPW 20201203
Reptiles	Pituophis catenifer sayi	Bullsnake	CPW Overall Range	G5T5	S5				CPW 20201203
Reptiles	Plestiodon multivirgatus epipleurotus	Variable Skink	CPW Overall Range	G5T5	S3				CPW 20201203
Reptiles	Plestiodon multivirgatus	Many-lined Skink	CPW Overall Range	G5	S4				CPW 20201203
Reptiles	Sceloporus consobrinus	Fence/prairie/plateau Lizard	CPW Overall Range	G5	S5				CPW 20201203
Reptiles	Sceloporus graciosus	Sagebrush Lizard	CPW Overall Range	G5	S5				CPW 20201203
Reptiles	Sceloporus tristichus	Southern Plateau Lizard	CPW Overall Range	G5	S3				CPW 20201203
Reptiles	Thamnophis elegans	Western Terrestrial Garter Snake	CPW Overall Range	G5	S5				CPW 20201203
Reptiles	Urosaurus ornatus	Tree Lizard	CPW Overall Range	G5	S4				CPW 20201203

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
Vascular Plants	Astragalus deterior	Cliff Palace Milkvetch	CNHP Model	G1G2	S1S2			SWAP Tier 1	CNHP 20100930
Vascular Plants	Astragalus missouriensis var. humistratus	Missouri Milkvetch	CNHP General EO	G5T1	S1			SWAP Tier 2/USFS	CNHP 20210920
Vascular Plants	Hackelia gracilenta	Mesa Verde Stickseed	CNHP Model	G1G2	S1S2			SWAP Tier 1	CNHP 20100930
Vascular Plants	Townsendia glabella	Smooth Easter Daisy	CNHP Model	G2	S2			SWAP Tier 2	CNHP 20210614

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 Native Species Conservation Water	SB181 High Priority Habitat				CPW 20210120
Elk Production Area	SB181 High Priority Habitat				CPW 20210120
Elk Winter Concentration Area	SB181 High Priority Habitat				CPW 20210120
Middle La Plata River	CNHP PCA	B5: General Biodiversity Interest	2003-12-10	2075	CNHP 20210920
Mule Deer Winter Concentration Area	SB181 High Priority Habitat				CPW 20210120
Red Mesa	CNHP PCA	B5: General Biodiversity Interest	2004-02-10	2135	CNHP 20210920

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 v20190306
John R. Schirard SHA	PRIVATE	CPW	State Habitat Area	No	CE/Lease	Rocky Mountain Elk Foundation	COMaP v20190306
	PRIVATE	PRIVATE	Private Land	No	NA		COMaP v20190306

Table 7. Managed Areas within Project Area

Name	Owner	Manager	Management Description	Public Access*	Protection Mechanism	Easement Holder	Data Source
	SLB	SLB	State Land Board	No	Fee		COMaP v20190306

* 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
PABFh	Pond	7.15	Palustrine	Aquatic Bed	Semipermanently Flooded	Impounded	CNHP 20210122
PEM1A	Emergent	21.19	Palustrine	Emergent/Herbaceous	Temporarily Flooded	None	CNHP 20210122
PEM1B	Emergent	2.46	Palustrine	Emergent/Herbaceous	Seasonally Saturated	None	CNHP 20210122
PEM1C	Emergent	39.25	Palustrine	Emergent/Herbaceous	Seasonally Flooded	None	CNHP 20210122
PEM1Ch	Emergent	0.62	Palustrine	Emergent/Herbaceous	Seasonally Flooded	Impounded	CNHP 20210122
PEM1Cx	Emergent	2.70	Palustrine	Emergent/Herbaceous	Seasonally Flooded	Excavated	CNHP 20210122
PSS1A	Shrub-Scrub	6.26	Palustrine	Shrub-Scrub	Temporarily Flooded	None	CNHP 20210122
PUBFx	Pond	0.21	Palustrine	Unconsolidated Bottom	Semipermanently Flooded	Excavated	CNHP 20210122
PUSAh	Other	1.34	Palustrine	Unconsolidated Shore	Temporarily Flooded	Impounded	CNHP 20210122
PUSC	Other	0.30	Palustrine	Unconsolidated Shore	Seasonally Flooded	None	CNHP 20210122
PUSCh	Other	0.46	Palustrine	Unconsolidated Shore	Seasonally Flooded	Impounded	CNHP 20210122
R4SBA	Rivers & Streams	12.24	Riverine	Stream Bed	Temporarily Flooded	None	CNHP 20210122
R4SBC	Rivers & Streams	149.27	Riverine	Stream Bed	Seasonally Flooded	None	CNHP 20210122
R4SBCx	Rivers & Streams	37.76	Riverine	Stream Bed	Seasonally Flooded	Excavated	CNHP 20210122
R5UBFx	Rivers & Streams	1.73	Riverine	Unconsolidated Bottom	Semipermanently Flooded	Excavated	CNHP 20210122
R5UBH	Rivers & Streams	0.74	Riverine	Unconsolidated Bottom	Permanently Flooded	None	CNHP 20210122

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.

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.

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

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

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.

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.

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 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).

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 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

Last Observation – The most recent field observation. area.

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.

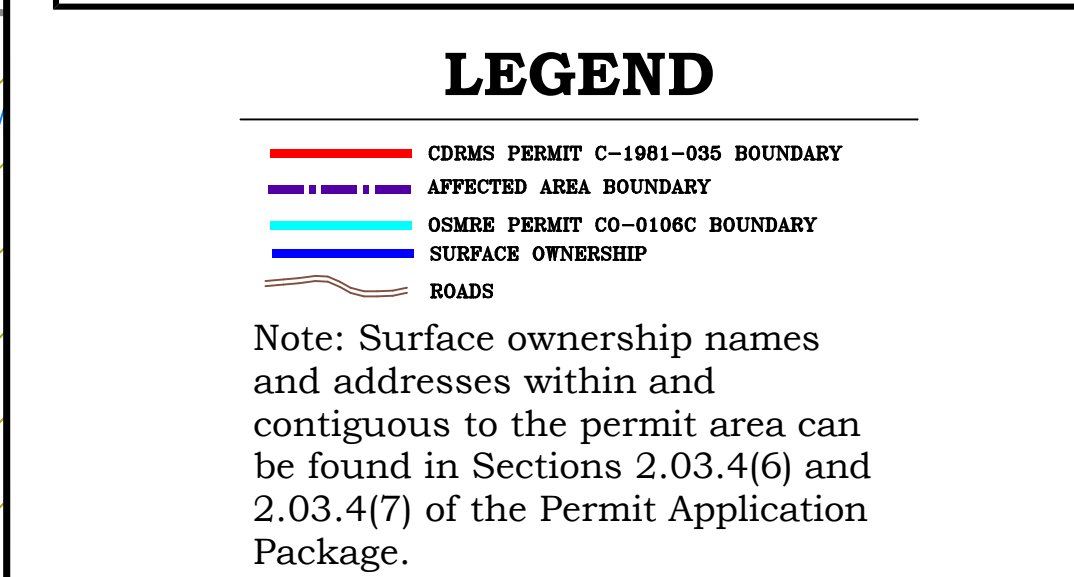
Wetland Type – The generalized [Cowardin](#) wetland type.

- Total acres of the wetland type in the project

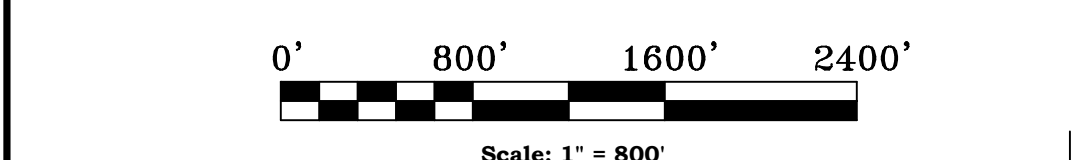
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Wetland Type – The generalized [Cowardin](#) wetland type.

[illegible]

I, _____, a professional engineer, certify that the information on this map is correct to the best of my knowledge and belief.



**GCC Energy, LLC
6473 County Road 120
Hesperus, CO 81326
Colorado Mining Permit C-1981-03**

King II-002 (RN-08)
Surface Ownership

Scale: 1" = 800'		Designed By: Tom Bird	
Date: 06/16/2022		Drawn By: Tom Bird	
File Path:	Environmental\King II\Permit Ma		
File Name:	King II-002 Surface Ownership		
Plot Date:	06/16/2022		
Plot Time:	9:55 am		