THOMPSON THRIFT WETLAND DELINEATION AND PROTECTED SPECIES REVIEW

PREPARED FOR: Thompson Thrift

July 2024 Olsson Project No. 024-00437



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1. INTRODUCTION

This report documents the findings of a wetland delineation for the Thompson Thrift Project (the "Project"). The Project is located north of South Academy Boulevard and west of Venetucci Boulevard in Colorado Springs, Colorado. The Project entails the construction of amultifamily development consisting of 336 residential units, associated parking, utilities, and amenity spaces. The project will involve grading, paving, and construction of buildings and associated infrastructure.

The approximately 16-acre Project area is located in El Paso County, Colorado in Section 4, Township 15 South, Range 66 West, in the Colorado Springs, Colorado Quadrangle (**Figure 1, Appendix A**). The geometric center of the Project area is located at latitude 38.770359 degrees and longitude -104.786314 degrees. Thompson Thrift contracted Olsson, Inc. (Olsson) to identify and delineate wetlands, stream channels, and other waters within the Project area. This report provides a description of the Project area, methods used, investigation results, and a discussion of the results.

2. **DESKTOP REVIEW**

Olsson reviewed publicly available information to identify areas with the potential to support wetlands, streams, and/or other aquatic resources within the Project area. Data sources reviewed included aerial photography (ESRI 2024; Google Earth 2024), U.S. Geological Survey (USGS) topographic maps (USGS 2015), U.S. Fish and Wildlife Service National Wetlands Inventory (NWI) database (USFWS 2024b), USGS National Hydrography Dataset (NHD) database (USGS 2023), and EI Paso County Soil Survey data via the Soil Survey Geographic (SSURGO) database (SSURGO 2024). The desktop review identified areas that may have wetland indicators (e.g., mapped wetlands, areas with hydric soils, saturation visible on aerial imagery, etc.). The field investigation was not limited to or restricted to these areas identified by the desktop review. Additional points were taken for documentation of areas observed with potential wetland characteristics not previously identified.

2.1 USGS Topographic Maps

The Location Map (**Figure 1, Appendix A**) indicates the relief is relatively uneven with elevations ranging from 5,920 feet above mean sea level in the southeastern portion of the Project area to 5,840 feet above mean sea level along the west-northwestern boundary of the Project area. The USGS topographic layer does not depict any water features within the Project area.

2.2 Aerial Imagery Review

The Aerial Site Map (**Figure 2, Appendix A**) shows the Project area encompassing a broad grassed field which continues north, beyond the Project boundary. The western portion is

bounded by an unpaved two-track road adjacent to a stream channel. A densely populated residential area is located immediately west of the channel. Venetucci Boulevard bounds the eastern portion of the Project area. The area beyond Venetucci Boulevard is occupied by a number of commercial developments which continue to the southern extent of the site. A depression showing signs of saturation was identified in the north-central portion of the Project area.

2.3 NWI and NHD Databases

On the Natural Resources Map (**Figure 3, Appendix A**), the NHD depicts one unnamed intermittent stream channel meandering outside of the western boundary of the Project area. The water feature confluences with Clover Ditch, approximately 500 feet north of the of the site. The NWI indicates that no mapped wetland features occur within the boundaries of the Project area. One R4SBC Riverine habitat feature, and two emergent wetland habitats (PEM1B and PEM1C) associated with the unnamed water feature occur beyond the western boundary of Project area.

2.4 SSURGO Database

The Natural Resources Map (**Figure 3**, **Appendix A**) identified the following SSURGO soil map unit within the Project area:

• Schamber-Razor complex, 8 to 50 percent slopes, 1 percent hydric rating

The hydric percentage indicates what percentage of the soil map unit meets the criteria for hydric soils, which may indicate wetland conditions. The one percent hydric rating indicates that the soils within the Project area are not likely to support wetland characteristics.

3. FIELD INVESTIGATION METHODS

Olsson staff visited the Project area on April 24, 2024, to complete the wetland delineation field investigation. The wetland delineation followed methodology described in the *U.S. Army Corps of Engineers Wetland Delineation Manual* (USACE 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual*: *Western Mountains, Valleys, and Coast* (USACE 2010). All conditions described represent conditions at the time of the field investigation. U.S. Army Corps of Engineers Wetland Determination Data Forms are included in Appendix B. Photographs were taken during the visit and are shown in Appendix C. Sample point locations, photo locations, and delineated water features are shown on Figure 4, Appendix A.

4. RESULTS

Wetlands and Other Waters

The Project area features a broad, terraced, upland landscape that slopes lower in elevation to the west-northwest. A total of three areas that met the criteria of wetlands were delineated within the Project area (**Figure 4, Appendix A**). These areas are all located in a man-made sediment basin constructed when the site was previously graded. Two Palustrine Emergent Temporarily Flooded / Seasonally Flooded (PEMA / C) wetlands occur within the sediment basin which widens at its northwestern extent. The northwestern extent of the sediment basin is occupied by a Palustrine Unconsolidated Bottom / Artificially Flooded open water feature (PUBK.) These features are not represented in the NWI database and although they meet the criteria of wetlands, they are not natural features and are only present due to the construction of the sediment basin.

Feature ID	Sample Point(s)	Cowardin Classification [*]	Photograph(s)	Figure	Size (Acres)
Wetland A	1 and 2	PEMA / C	2, 3, 4, and 14	4	0.01
Wetland B	3 and 4	PEMA / C	1, 7, and 8	4	0.04
Wetland C	4 and 5	PUBK	1, 9, and 10	4	0.12
TOTAL (ac)	•	·	·	•	0.17

Table 1. Delineated Wetlands and Other Waters.

PEMA / C = Palustrine Emergent Temporarily Flooded / Seasonally Flooded; PUBK = Palustrine Unconsolidated Bottom Artificially Flooded *(Cowardin et al. 1979)

5. THREATENED AND ENDANGERED SPECIES

The U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) (USFWS 2024a) species list was used to determine potential impacts to federally listed threatened and endangered species. Additionally, the Colorado Natural Heritage Program (CNHP) online Conservation Data Explorer (CODEX) (CNHP 2023) tool was reviewed to determine potential impacts to state listed threatened and endangered species.

A total of five federally listed and four state listed threatened or endangered species are listed as potentially occurring in, or being affected by projects in, El Paso County, Colorado (see **Appendix D**). Critical habitat has not been designated for the following listed species potentially occurring in El Paso County.

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Table 2. Federally and state listed Threatened and Endangered Species Potentially Present inEl Paso County.

Common Name (Scientific)	Status	Habitat Requirements	Habitat in Project Area
		Birds	
Piping Plover (Charadrius melodus)	Federally Threatened	Sandy upper beaches, especially where scattered grass tufts are present, and sparsely vegetated shores and islands of shallow lakes, ponds, rivers, and impoundments.	No, habitat is not present.
Eastern Black Rail (Laterallus jamaicensis ssp. jamaicensis)	Federally Threatened	Black Rails nest in marshes and wet meadows across North America, including riparian marshes, coastal prairies, saltmarshes, and impounded wetlands. All of its habitats have stable shallow water, usually just 1.2 inches deep at most.	No, habitat is not present.
Burrowing Owl (<i>Athene cunicularia</i>)	State Threatened	Nests are in abandoned burrows, such as those dug by prairie dogs, ground squirrels, foxes, woodchucks.	No, prairie dog colonies or other abandoned burrows were observed on the site.
		Fish	
Pallid Sturgeon (Scaphirhynchus albus)	Federally Endangered	Large, turbid, free-flowing riverine habitat; it occurs in strong current over firm gravel or sandy substrate. Downstream Platte River system.	No, habitat is not present.
Greenback Cutthroat Trout (Oncorhynchus clarkii stomias)	Federally Threatened	Habitat for the greenback cutthroat trout consists of relatively steep, cold-water streams and rivers as well as high mountain lakes in the South Platte and Arkansas river basins.	No, habitat is not present.
Arkansas Darter (<i>Etheostoma cragini</i>)	State Threatened	Preferred habitat is spring-fed headwaters and creeks with cool, clear, shallow water, slow current, and herbaceous aquatic vegetation such as growths of watercress or other aquatic plants.	No, habitat is not present.
Southern Redbelly Dace (Phoxinus erythogaster)	State Endangered	Southern redbelly dace have a strong habitat preference for sluggish headwaters and upland creeks (usually spring-fed) with vegetation and woody debris. The water is generally clear, and the substrate is sand or gravel.	No, habitat is not present.
	I	Mammals	
Preble's Meadow Jumping Mouse (Zapus hudsonius preblei)	State Threatened	During summer months, the most important wetland types occupied by Preble's meadow jumping mice include riparian areas and adjacent wet meadows. During the summer, they prefer dense shrub, grass and forb ground cover along creeks, rivers, and associated waterbodies. From early fall through the spring, they hibernate underground in burrows that are typically at the base of vegetation and have a northerly aspect.	No, habitat is not present.
		Plants	

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Common Name (Scientific)	Status	Habitat Requirements	Habitat in Project Area
Ute Ladies'-Tresses Orchid (Spiranthes diluvialis)	Federally Threatened	Moist to wet alluvial meadows, floodplains of perennial streams, and around springs and lakes below 7,800 feet in elevation.	No, habitat is not present.

Habitat for federally and state listed species is not present in the Project area and the Project will not affect the flow quantity or timing of the Platte River; therefore, there would be no take of federally or state listed species.

An on-site investigation is recommended before Project activities commence if activities are scheduled between December 1 and July 31 (the typical nesting season for bald eagles in Colorado), and/or February 15 and July 31 (the typical nesting seasons for common raptors in Colorado), and/or April 1 through August 31 (the small bird nesting season) to confirm the presence of active nests or new nests within the vicinity of the Project area.

6. **DISCUSSION**

The Project area contains three water features, none of which were mapped NWI wetlands. The wetlands are located in a depressional feature which was constructed as a sediment basin that is surrounded by relatively steep hillslopes, dominated by upland vegetation. The two PEMA/C wetlands occur slightly upslope of the PUBK open water feature occurring within the sediment basin. Though hydric soils were present in both the upland and wetland soil pits, vegetation within the PEMA/C wetlands was primarily facultative and mixed with upland species, suggesting that wetland hydrology may not be persistent enough to sustain a hydrophytic plant community.

Historic aerial imagery indicates that the sediment basin is periodically inundated but also goes through periods where no water is present, which likely does not provide optimal conditions for vegetation growth. Beyond the western portion of the sediment pond, the elevation abruptly drops approximately 40 feet to a vegetated area containing an unpaved two-track road adjacent to the unnamed intermittent stream channel. The northwestern portion of the sediment basin contains a cobble riprap drainage swale which may function as a way to slow overflow from the pond and prevent additional sediment from entering the channel west of the Project area.

Although portions of the sediment basin had wetland characteristics, they are due to being in a man-made feature meant to trap water for short periods of time in order to allow sediment to settle out of the water. These are not natural features and according to 33 CFR § 328.3(b)(5), artificial lakes or ponds created by excavating or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, **settling basins**, or rice growing **are not waters or the United States**. Additionally, the sediment basin was created in uplands,

and drains only uplands. The desktop review did not indicate any water features being present in the Project area.

This report has been prepared for the use of Thompson Thrift. It is intended for specific application to the proposed Project and has been produced in accordance with generally accepted practices. If any changes occur within the Project area, or regarding previously outlined methodologies or regulations, the information in this report cannot be considered valid unless it has been further reviewed and verified by Olsson.

6. **REFERENCES**

- Colorado Natural Heritage Program (CNHP). 2024. Colorado Conservation Data Explorer (CODEX). Available at: <u>https://codex.cnhp.colostate.edu/home.</u>
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APPENDIX A Figures



NAD 1983 HARN StatePlane Colorado North FIPS 0501 Feet

Basemap: ESRI World Imagery



Project Area

NAD 1983 2011 StatePlane Colorado North FIPS 0501 Ft US

1:6,000

Site Map





APPENDIX B

Wetland Determination Forms

Wetland Determination Data Form - Western Mountains, Valleys, and Coast Region

Project/Site: Thom	pson Thrift			City/Coun	ty: Colora	do Sprin	gs/El	Pas	Samplin	g Date:	4/24/	2024
Applicant/Owner:	Applicant/Owner: Thompson Thrift					Sta	ate: C	0	Sampling Point:		1	
Investigator(s):	Joe DiMaria	ı, Nick DiMascio					See	tion, Tow	nship, Ra	nge:	S4, T15S,	R66W
Landform (hillslope, te	errace, etc.):	Depression		Local re	lief (concave, co	onvex, no	one):		Concave	•	Slope (%)	: 1-2
Subregion (LRR):	Е			Lat:	38.770897		Long:	-10	04.78625	5	Datum:	NAD83
Soil Map Unit Name:	Schambe	er-Razor complex, 8 to	o 50 percent s	lopes				NWI clas	sification:		NA	
Are climatic / hydrolog	gic condition	s on the site typical for	this time of yea	ar?	Yes X	No		(If no, exp	olain in Re	emarks)		
Are Vegetation	, Soil	, or Hydrology	significantly	disturbed?	Are "	Normal C	Circum	stances" p	oresent?	Yes	x ı	lo
Are Vegetation	, Soil	, or Hydrology	naturally pro	blematic?	(If ne	eded, ex	plain a	ny answe	rs in Rem	arks.)	_	
SUMMARY OF FIND	INGS - Atta	ch site map showing	sampling poin	t locations,	transects, imp	oortant fe	eature	s, etc.				
Hydrophytic Vegetatio	n Present?	Yes X	No									
Hydric Soil Present?		Yes X	No		Is the Sampler	l Area wi	ithin					
Wetland Hydrology Pr	resent?	Yes X	No	_	a Wetland?				Yes	X N	•	

Remarks:

Sample point located in a Palustrine emergent temporarily floooded (PEMA) wetland within a depressional drainage surrounded by upland hills. In point for Wetland A.

VEGETATION - Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30') 1.	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-):	1	(A)
2 3 4		·		Total Number of Dominant Species Across All Strata:	1	(B)
5 Sapling/Shrub Stratum Plot size:15	: ;')	= Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC:	100	(A/B)
1 2		·		Prevalence Index worksheet:	Multiply by	
S		·				_
4		·			x 1 =	—
5		Tatal Cavar			x 2 =	_
Herb Stratum (Plot size: 5')		= Total Cover			x 3 =	—
1 Panicum capillare	40	x	FAC		× 5 =	
2. Bromus inermis	15		UPL	Column Totals: 0	(A)	(B)
3. Pascopyrum smithii	10	·	FACU	Prevalence Index = B/A =	=	_(_)
4. Cirsium arvense	10		FAC			—
5. Helianthus annuus	5		FACU	Hydrophytic Vegetation Indicators:		
6.				1 - Rapid Test for Hydrophytic	Vegetation	
7.				X 2 - Dominance Test is >50%		
8.				3 - Prevalence Index is <u><</u> 3.0 ¹		
9.				4 - Morphological Adaptations ¹	(Provide supporting	g data
10.				in Remarks or on a separate sh	neet)	
	80	= Total Cover		Problematic Hydrophytic Veget	ation ¹ (Explain)	
Woody Vine Stratum (Plot size: 30')					
1.				¹ Indicators of hydric soil and wetland	hydrology must be	
2.				present, unless disturbed or problem	atic.	
		= Total Cover		Hydrophytic		
% Bare Ground in Herb Stratum 20%	-			Vegetation Yes >	<no< td=""><td></td></no<>	
Remarks:						
Vegetation passed dominance test.						
Photos 3 and 4						

1

inches)				Redox Feat	0100			
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 2/1	95	10YR 6/4	5	С	M/PL	Silty clay loam	
12-22	10YR 5/2	60	10YR 6/6	40	С	М	Silty clay loam	
		- PM-Por	Hugod Matrix CS-Co	worod or Coo	tod Sand G	ains ² l or		a M-Matrix
								y, wi-watta
ydric Soll in	dicators: (Applica	DIE tO LRR	s, unless otherwise	e noted.)	(05)		Indicators for i	
Histosol (A	(1)			andy Redox	(\$5)		2 cm Muc	к (A10) (LRR В)
Histic Epip	edon (A2)			Stripped Matriz	x (S6)		Red Parel	nt Material (TF2)
Black Histi	c (A3)		L	oamy Mucky M	lineral (F1) (ex	cept MLRA 1	Very Shal	ow Dark Surface (TF12)
Hydrogen	Sulfide (A4)		L	oamy Gleyed	d Matrix (F2)		Other (Ex	olain in Remarks)
Depleted E	Below Dark Surface	(A11)		Depleted Matr	ix (F3)			
Thick Dark	Surface (A12)		XF	Redox Dark S	urface (F6)			
Sandy Muc	cky Mineral (S1)		C	Depleted Dark	surface (F7	")		
Sandy Gle	yed Matrix (S4)		R	Redox Depres	sions (F8)		3Indicate	ors of hydrophytic vegetation and and hydrology must be present
-			—				ur	less disturbed or problematic.
trictive Lave	r (if present):							
Evne:								
Donth (inchor	.).						Hydric Soil Procent	Vos V No
Septir (menes	<i></i>							
arks:								
s meet the F6	indicator.							
	v							
	Y							
DROLOG	Y ogy Indicators:	ne is requir	ed: check all that an				Secondary India	eators (minimum of two required
DROLOG and Hydrolo Primary Indica	Y ogy Indicators: ators (minimum of o	ne is requir	ed; check all that ap	oly)			Secondary India	ators (minimum of two required
DROLOG	Y pgy Indicators: ators (minimum of or	ne is requir	ed; check all that app	bly)	a)		Secondary Indic	ators (minimum of two required ed Leaves (B9) (except MLRA
DROLOG	Y pgy Indicators: ators (minimum of or ater (A1)	ne is requir	ed; check all that app	oly) ed Leaves (BS	9)		Secondary Indic Water-Stain	ators (minimum of two required ed Leaves (B9) (except MLRA 4A, and 4B)
DROLOG	Y ogy Indicators: ators (minimum of or ater (A1) r Table (A2)	ne is requir	ed; check all that app Water-Staine Salt Crust (B	oly) ed Leaves (B{ 11)	9)		Secondary India Water-Stain Drainage Pa	ators (minimum of two required ed Leaves (B9) (except MLRA 4A, and 4B) tersn (B10)
DROLOG and Hydrolc Primary Indica Surface W High Wate Saturation	Y ators (minimum of or ater (A1) r Table (A2) (A3)	ne is requir	ed; check all that app Water-Staine Salt Crust (B Aquatic Inver	oly) ed Leaves (B9 11) rtebrates (B13	9) 3)		Secondary India Water-Stain Drainage Pa Dry-Season	ators (minimum of two required ed Leaves (B9) (except MLRA 4A, and 4B) tersn (B10) Nater Table (C2)
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Wetland Determination Data Form - Western Mountains, Valleys, and Coast Region

Project/Site: Thomp	oson Thrift			Cit	y/Cou	nty:	Colorad	lo Sp	rings/l	El Pa	as Sampling	Date:	4/24	2024	
Applicant/Owner:	Thompso	n Thrift						_	State:	СО	Sampling	Point:	:	2	
Investigator(s):	loe DiMaria,	Nick DiMascio							5	Secti	ion, Township, Rang	ge:	S4, T15S	, R66W	
Landform (hillslope, te	rrace, etc.):	Hillslope		L	ocal re	elief (co	ncave, co	nvex	, none)):	Convex		Slope (%): 2-3	3
Subregion (LRR):	E				Lat:	38	770841		Lor	ng:	-104.786372		Datum:	NAD8	3
Soil Map Unit Name:	Schambe	r-Razor complex, 8	3 to 50 perce	ent slopes	3					Ν	WI classification:		NA	١	
Are climatic / hydrologi	ic conditions	on the site typical f	or this time c	of year?		Yes	Х	No		(If no, explain in Ren	narks)			
Are Vegetation	, Soil	, or Hydrology	significa	antly distu	rbed?		Are "N	Norm	al Circo	umst	tances" present?	Yes	Х	No	
Are Vegetation	, Soil	, or Hydrology	naturall	y problem	atic?		(If nee	eded,	explai	n an	y answers in Remai	rks.)			
SUMMARY OF FINDI	NGS - Attac	h site map showin	g sampling	point loca	ations	, transe	cts, imp	ortar	nt featu	ıres,	, etc.				
Hydrophytic Vegetatior	n Present?	Yes	No	Х											
Hydric Soil Present?		Yes	No	х		la tha f	Somplad	A.r.o.	within						
Wetland Hydrology Pre	esent?	Yes	No	Х		a Wetla	and?	Aita	t within	1	Yes	N	o	i	

Remarks:

Sample point is located on an upland hillslope above an emergent wetland. The site lacked hydrophytic vegetation, hydric soils, and wetland hydrology and was determined to be upland. Out point for SP-1.

VEGETATION - Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30') 1.	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-):	0	(A)
2						
3				Total Number of Dominant		(5)
4				Species Across All Strata:	2	(B)
5		.				
Sapling/Shrub Stratum Plot size:1	5')	= Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC:	0	(A/B)
1						
2				Prevalence Index worksheet:		
3				Total % Cover of:	Multiply by:	
4				OBL species	x 1 =	
5				FACW species	x 2 =	
		= Total Cover		FAC species	x 3 =	_
Herb Stratum (Plot size: 5')				FACU species	x 4 =	_
1. Agropyron cristatum	40	X	UPL	UPL species	x 5 =	_
2. Medicago sativa	20	Х	UPL	Column Totals: 0	(A)	(B)
3.				Prevalence Index = B/A	=	_
4.						_
5.				Hydrophytic Vegetation Indicators:		
6.				1 - Rapid Test for Hydrophytic	Vegetation	
7.				2 - Dominance Test is >50%		
8.				3 - Prevalence Index is <3.01		
9.				4 - Morphological Adaptations	1 (Provide supporting	g data
10.				in Remarks or on a separate s	heet)	
	60 :	= Total Cover		Problematic Hydrophytic Vege	atation ¹ (Explain)	
Woody Vine Stratum (Plot size: 30')					
1	/			¹ Indicators of hydric soil and wetland	d hydrology must be	
·				present, unless disturbed or problem	natic.	
2						
		= Total Cover		Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 40%	_			Present?		
Remarks:						
Site is dominated by upland vegetation.						
Photo 5						

2

Depth	Matrix			Redox Feat	ures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 3/3	98	10YR 5/4	2	С	М	Sandy clay loan	
6-22	10YR 3/3	100					Sandy clay loan	
e: C=Conce	entration, D=Deplet	ion, RM=Re	educed Matrix, CS=C	overed or Coa	ited Sand Gra	ains. ² Lo	cation: PL=Pore Lining	, M=Matrix
lydric Soil I	ndicators: (Applic	able to LR	Rs, unless otherwis	e noted.)			Indicators for Pr	oblematic Hydric Soils ³ :
- Histosol (A1)			Sandv Redox	(S5)		2 cm Muck	(A10) (LRR B)
Histic Epi	pedon (A2)		—	Stripped Matri	x (S6)		Red Parent	Material (TF2)
Black His	tic (A3)		—	Loamy Mucky M	ineral (F1) (exc	cept MLRA	1) Very Shallo	w Dark Surface (TE12)
	Sulfide (A4)		—		Matrix (F2)		Other (Evol	ain in Remarks)
	Below Dark Surfac	- (Δ11)	_	Depleted Matr	i (F3)			
Thick Dar	rk Surface (A12)	5 (/(11)	—	Redox Dark S				
Sandy M	icky Mineral (S1)			Depleted Dark	Surface (E7)		
- Sandy Mit			_)	3Indicator	s of hydrophytic vegetation and
Sanuy Gi	eyeu Matrix (34)		_	Redux Depies	510115 (FO)		wetla	nd hydrology must be present,
narks:	es):							
Depth (Inche narks: ox features v	were encountered b	ut the soil r	natrix chroma was to	o high to meet	a hydric indi	cator.		
Depth (inche harks: ox features v	were encountered b	ut the soil r	natrix chroma was to	o high to meet	a hydric india	cator.		
Depth (inche narks: ox features v DROLOG land Hydrol	were encountered b	ut the soil r	natrix chroma was to	o high to meet	a hydric india	cator.		
Depth (inche narks: ox features v DROLOG land Hydrol Primary Indic	were encountered b SY logy Indicators: cators (minimum of	ut the soil r	natrix chroma was to ired; check all that a	o high to meet	a hydric indi	cator.	Secondary Indica	tors (minimum of two required)
Depth (inche narks: ox features v DROLOG land Hydrol Primary India	were encountered b SY logy Indicators: cators (minimum of	ut the soil r	natrix chroma was to ired; check all that ap	o high to meet	a hydric india	cator.	Secondary Indica	tors (minimum of two required) d Leaves (B9) (except MLRA 1
Depth (inche narks: ox features v DROLOG land Hydrol Primary Indio Surface V	were encountered to SY logy Indicators: cators (minimum of Vater (A1)	ut the soil r	natrix chroma was to ired; check all that ap Water-Stair	o high to meet	a hydric india	cator.	Secondary Indica	tors (minimum of two required) d Leaves (B9) (except MLRA 1 4A, and 4B)
Depth (inche narks: ox features v DROLOG land Hydrol Primary India Surface V High Wat	were encountered to SY logy Indicators: cators (minimum of Vater (A1) er Table (A2)	ut the soil r	natrix chroma was to ired; check all that a Water-Stair Salt Crust (o high to meet oply) ned Leaves (B B11)	a hydric india	cator.	<u>Secondary Indica</u> Water-Stainer Drainage Patte	tors (minimum of two required) d Leaves (B9) (except MLRA 1 4A, and 4B) ersn (B10)
Depth (incre narks: ox features v DROLOG land Hydrol Primary Indic Surface V High Wat Saturation	were encountered b SY logy Indicators: cators (minimum of Vater (A1) ter Table (A2) n (A3) (A3)	ut the soil r	ired; check all that a Water-Stair Salt Crust (o high to meet oply) ned Leaves (B B11) ertebrates (B1	a hydric indi	cator.	Secondary Indica Water-Stainer Drainage Patte Dry-Season W	tors (minimum of two required) d Leaves (B9) (except MLRA 1 4A, and 4B) ersn (B10) /ater Table (C2)
Depth (increases) ox features v DROLOG land Hydrol Primary Indio Surface V High Wate Saturation Water Ma	were encountered b SY logy Indicators: cators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) is (D2)	ut the soil r	ired; check all that ap Water-Stair Salt Crust (Aquatic Invo	o high to meet oply) hed Leaves (B B11) ertebrates (B1 Sulfide Odor (C	 a hydric india 9) 3) 1) 	cator.	Secondary Indica Water-Stainer Drainage Patter Dry-Season W Saturation Vis	tors (minimum of two required) d Leaves (B9) (except MLRA 1 4A, and 4B) ersn (B10) /ater Table (C2) ible on Aerial Imagery (C9)
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Wetland Determination Data Form - Western Mountains, Valleys, and Coast Region

Project/Site: Thom	pson Thrift			City/Cou	nty:	Colorado	Springs/	El Pas	Sampling Date:	4/24/2	2024
Applicant/Owner:	Thompso	n Thrift					State:	со	Sampling Point:	3	\$
Investigator(s):	Joe DiMaria	, Nick DiMascio					_	Sectio	n, Township, Range:	S4, T15S,	R66W
Landform (hillslope, te	errace, etc.):	Depression		Local r	elief (co	ncave, conv	ex, none):	Concave	Slope (%)	: 0-1
Subregion (LRR):	Е			Lat:	38.7	7089182	Lo	ng:	-104.786661	Datum:	NAD83
Soil Map Unit Name:	Schambe	r-Razor complex, 8 f	o 50 percent s	slopes				N۷	VI classification:	NA	
Are climatic / hydrolog	gic conditions	on the site typical for	this time of ye	ar?	Yes	XN	No	(If	no, explain in Remarks)		
Are Vegetation	, Soil	, or Hydrology	significantly	/ disturbed?		Are "Nor	rmal Circ	umsta	nces" present? Yes	XN	10
Are Vegetation	, Soil	, or Hydrology	naturally pro	oblematic?		(If neede	ed, explai	n any	answers in Remarks.)		
SUMMARY OF FIND	INGS - Attac	h site map showing	sampling poir	nt locations	s, transe	cts, import	ant featu	ıres, e	etc.		
Hydrophytic Vegetatic	on Present?	Yes	No X								
Hydric Soil Present?		Yes	No X		le tha 9	Sampled Ar	oa withi	n			
Wetland Hydrology Pr	resent?	Yes	No X		a Wetland?		uca widiii		Yes N	o _ X	
Remarks:											

Sample point is located in a PEMA wetland within a depression above a dry sediment pond. In point for Wetland B.

VEGETATION - Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30') 1.	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-):	2	(A)
2						
3				Total Number of Dominant	2	
4 5.				Species Across All Strata:	2	(В)
		= Total Cover		Percent of Dominant Species	400	
1	5)			That Are OBL, FACW, OF FAC.	100	(A/D)
2.				Prevalence Index worksheet:		
3.				Total % Cover of:	Multiply by:	
4.				OBL species	x 1 =	
5.				FACW species	x 2 =	-
		= Total Cover		FAC species	x 3 =	-
Herb Stratum (Plot size: 5')				FACU species	x 4 =	
1. Panicum capillare	35	х	FAC	UPL species	x 5 =	-
2. Cirsium arvense	25	X	FAC	Column Totals: 0	(A)	(B)
3.				Prevalence Index = B/A	=	<u> </u>
4.						-
5.				Hydrophytic Vegetation Indicators:		
6.				1 - Rapid Test for Hydrophytic	Vegetation	
7.				X 2 - Dominance Test is >50%		
8.				3 - Prevalence Index is <3.01		
9				4 - Morphological Adaptations ¹ in Remarks or on a separate s	(Provide supporting heet)	g data
	60	= Total Cover		Problematic Hydrophytic Vege	tation ¹ (Explain)	
Woody Vine Stratum (Plot size: 30')					
1				¹ Indicators of hydric soil and wetland present, unless disturbed or problem	l hydrology must be natic.	
۲		= Total Cover				
% Bare Ground in Herb Stratum 40%				Vegetation Yes	X No	
Remarks:						
Photo 6						

3

Depth	Matrix			Redox Feat	ures			
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR 3/2	70	10YR 6/8	30	С	М	Sandy clay loan	Black inclusions
6-22	10YR 4/2	70	10YR 6/6	30	С	М	Sandy clay loan	
							·	
							·	
							·	
e: C=Conce	entration, D=Depletio	n, RM=Re	duced Matrix, CS=Co	vered or Coa	ated Sand Gra	ains. ² Lo	cation: PL=Pore Lining	g, M=Matrix
ydric Soil lı	ndicators: (Applica	ble to LRF	s, unless otherwise	noted.)			Indicators for P	roblematic Hydric Soils ³ :
- Histosol (/	A1)		S	Sandy Redox	(S5)		2 cm Muck	: (A10) (LRR B)
Histic Epi	pedon (A2)		s	Stripped Matri	x (S6)		Red Paren	t Material (TF2)
Black Hist	tic (A3)			oamy Mucky M	lineral (F1) (ex	cept MLRA	1) Very Shall	w Dark Surface (TE12)
	Sulfide (A4)		—		Motrix (E2)		Other (Eve	loin in Romarka)
	Below Dark Surface	(Δ11)	—	Depleted Matr	i (F2)			iain in Remarks)
Thick Dor	k Surface (A12)	(ATT)		Podov Dark S				
- Sondy M	icky Minoral (S1)		<u> </u>	Couloted Der	Curface (FU)	`		
- Sandy Iviu	icky Mineral (S1)		—)	3Indicato	rs of hydrophytic vegetation an
Sandy Gle	eyed Matrix (S4)		r	kedox Depres	SIONS (F8)		wetla	and hydrology must be present
Depth (inche arks:	us):							
Depth (inche arks: percentage	of redox features thr	oughout th	e soil profile. Soil me	ets the F6 inc	dicator.			
Depth (inche arks: percentage DROLOG	of redox features thr	oughout th	e soil profile. Soil me	ets the F6 inc	dicator.		nyanc son Present?	
Depth (inche arks: percentage DROLOG and Hydrol	of redox features thr Y ogy Indicators:	oughout th	e soil profile. Soil me	ets the F6 ind	dicator.		nyanc son Present?	
Depth (inche arks: percentage DROLOG and Hydrol Primary Indic	of redox features thr GY ogy Indicators: cators (minimum of o	oughout th	e soil profile. Soil me red; check all that app	ets the F6 ind	dicator.		Secondary Indic	ators (minimum of two required
Depth (inche arks: percentage DROLOG and Hydrol Primary Indio	of redox features thr Y ogy Indicators: cators (minimum of o	oughout th	e soil profile. Soil me red; check all that app	ets the F6 ind	dicator.		<u>Secondary Indica</u> Water-Staine	ators (minimum of two required
Depth (inche arks: percentage DROLOG and Hydrol Primary Indic Surface W	of redox features thr iY ogy Indicators: cators (minimum of o Vater (A1)	oughout th	e soil profile. Soil me red; check all that app X Water-Staine	ets the F6 ind bly) ed Leaves (B9	dicator.		Secondary Indica Water-Staine	ators (minimum of two required teaves (B9) (except MLRA 4A, and 4B)
Depth (inche arks: percentage DROLOG and Hydrol Primary Indic Surface W High Wate	of redox features thr FY ogy Indicators: cators (minimum of o Vater (A1) er Table (A2)	oughout th	e soil profile. Soil me red; check all that app 	ets the F6 ind oly) ad Leaves (B4	dicator.		Secondary Indica Water-Staine X Drainage Pat	ators (minimum of two required ed Leaves (B9) (except MLRA 4A, and 4B) iersn (B10)
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Wetland Determination Data Form - Western Mountains, Valleys, and Coast Region

Project/Site: Thom	pson Th	rift				City/Cou	nty:	Colorad	lo Sp	rings/E	El Pa	sampling	Date:	4/2	4/20	24
Applicant/Owner:	Thom	pson Thrift							_	State:	со	Sampling	Point:		4	
Investigator(s):	Joe DiMa	aria, Nick DiMasc	io							S	Sectio	on, Township, Ran	ge:	S4, T15	S, R	66W
Landform (hillslope, te	errace, et	c.): Depres	ssion			Local r	elief (co	ncave, co	onvex,	, none):	:	Convex		Slope (%):	0-1
Subregion (LRR):	Е					Lat:	38	.770831		Lon	g:	-104.786639		Datum	n: I	NAD83
Soil Map Unit Name:	Schar	nber-Razor comp	lex, 8 to	50 perce	ent slo	pes					N	WI classification:		N	IA	
Are climatic / hydrolog	gic condit	ions on the site ty	oical for th	is time o	of year?	?	Yes	Х	No		(11	f no, explain in Rer	marks)			
Are Vegetation	, Soil	, or Hydrolog	у	signific	antly di	sturbed?		Are "N	Norma	al Circu	imsta	ances" present?	Yes	Х	No	
Are Vegetation	, Soil	, or Hydrolog	у	natural	ly probl	ematic?		(If nee	eded,	explair	n any	answers in Rema	rks.)			
SUMMARY OF FIND	INGS - A	ttach site map sh	lowing sa	mpling	point l	locations	s, transe	ects, imp	ortan	t featu	res,	etc.				
Hydrophytic Vegetatic	on Preser	it? Yes	_	No	х											
Hydric Soil Present?		Yes	Х	No			ls the	Sampled	Δrea	within						
Wetland Hydrology P	resent?	Yes		No	Х		a Wetl	and?	A Ca	within		Yes	N	• <u>X</u>	_	

Remarks:

Sample point located on an upland terrace above an PEMA wetland. The sample point is within a broad depression. Although the site contained hydric soils, hydrophytic vegetation and wetland hydrology were not encountered and was determined to be upland. SP-4 is the out point for SP-3 and SP-5.

VEGETATION - Use scientific names of plants.

		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 3 1.	0')	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-):	0	(A)
2. 3. 4.					Total Number of Dominant Species Across All Strata:	2	(B)
5.							()
Sapling/Shrub Stratum Plot size	:1	5')	= Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC:	0	(A/B)
1					Prevalence Index worksheet:		
3.			. <u> </u>		Total % Cover of:	Multiply by:	
4.					OBL species	x 1 =	
5.					FACW species	x 2 =	_
			= Total Cover		FAC species	x 3 =	-
Herb Stratum (Plot size:	5')				FACU species	x 4 =	
1. Aristida purpurea		40	х	UPL	UPL species	x 5 =	
2. Medicago sativa		30	Х	UPL	Column Totals: 0	(A)	(B)
3. Helianthus annuus		5		FACU	Prevalence Index = B/A	=	
4.							
5					Hydrophytic Vegetation Indicators:		
6					1 - Rapid Test for Hydrophytic	Vegetation	
7					2 - Dominance Test is >50%		
8					3 - Prevalence Index is <3.01		
9 10.					 4 - Morphological Adaptations¹ in Remarks or on a separate s 	1 (Provide supporting theet)	j data
		75 :	= Total Cover		Problematic Hydrophytic Vege	etation ¹ (Explain)	
Woody Vine Stratum (Plot size:	30')			-		
1					¹ Indicators of hydric soil and wetland present, unless disturbed or problem	d hydrology must be natic.	
2			- Total Cover				
% Bare Ground in Herb Stratum	25%				Hydrophytic Vegetation Yes Present?	No X	
Remarks: Site is dominated by upland vegetatio	on.						

(inches) Color (moist) % Type ¹ Loc 0-6 10YR 4/3 90 10YR 6/6 10 C M 6-22 10YR 3/3 90 10YR 6/6 10 C M 6-22 10YR 3/3 90 10YR 6/6 10 C M gene Calor (moist) % 10 C M gene Calor (moist) 90 10YR 6/6 10 C M gene Calor (moist) 90 10YR 6/6 10 C M gene Calor (moist) 90 10YR 6/6 10 C M gene Calor (moist) 90 10YR 6/6 10 C M gene Calor (moist) Settinge Matrix (Se) Setified 6/2 Setified 6/2 Setified 6/2 Setified 6/2 Setified 6/2 Peloted 7/2 Peloted 7/2 <t< th=""><th>2 Texture Remarks Sandy clay loar </th></t<>	2 Texture Remarks Sandy clay loar
0-6 10YR 4/3 90 10YR 6/6 10 C M 6-22 10YR 3/3 90 10YR 6/6 10 C M ge: C-Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 2 2 Hydric Soil Indicators: (Applicable to LRRs, unless otherwise noted.) 4 4 4 Histic Epipedon (A2)	Sandy clay loan
6-22 10YR 3/3 90 10YR 6/6 10 C M ge: 10YR 3/3 90 10YR 6/6 10 C M ge: 10YR 3/3 90 10YR 6/6 10 C M ge: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 2 2 Hydric Soil Indicators: (Applicable to LRRs, unless otherwise noted.)	
pe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 2 Hydric Soil Indicators: (Applicable to LRRs, unless otherwise noted.)	Sandy clay loan
pe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soll Indicators: (Applicable to LRRs, unless otherwise noted.) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mudy Mineral (F1) (except MLF Hydrog Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) X Redox Depressions (F8) strippe Indicators (F8) strictive Layer (if present): Type:	
pe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 2 Hydric Soil Indicators: (Applicable to LRRs, unless otherwise noted.)	
pe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 2 Hydric Soil Indicators: (Applicable to LRRs, unless otherwise noted.)	
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Hydric Soil Indicators: (Applicable to LRRs, unless otherwise noted.) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLF Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) X Redox Depressions (F8) strictive Layer (if present): Type: Type:	² Location: PL=Pore Lining. M=Matrix
Histosol (A1)	Indicators for Problematic Hydric Soils ³ :
	2 cm Muck (A10) (LRR B)
Composition (Ca) Comp	Red Parent Material (TF2)
Didack Finistic (x3)	RA 1) Vary Shellow Dark Surface (TE12)
Hydrogen Sulfide (A4)	
Depieted Below Dark Surface (A11)	Other (Explain in Remarks)
Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) X Redox Depressions (F8) trictive Layer (if present): Type: Type: Deplet (inches): narks: h percentage of redox features were encountered throughout the soil profile and met the F8 indicator /DROLOGY Vater-Stained Leaves (B9) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Salt Crust (B11) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizopheres along Living Roots (C3) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) d Observations: No X Depth (inches) face Water Present? Yes No X Depth (inches) uration Present?	
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trictive Layer (if present): Type: Depth (inches): Depth (inches): Depth (inches): Depth (inches): DROLOGY Identified throughout the soil profile and met the F8 indicators DROLOGY Identified throughout the soil profile and met the F8 indicators DROLOGY Identified throughout the soil profile and met the F8 indicators DROLOGY Identified throughout the soil profile and met the F8 indicators DROLOGY Identified throughout the soil profile and met the F8 indicators DROLOGY Identified throughout the soil profile and met the F8 indicators DROLOGY Identified throughout the soil profile and met the F8 indicators DROLOGY Identified throughout the soil profile and met the F8 indicators DROLOGY Identified throughout the soil profile and met the F8 indicators DROLOGY Identified throughout the soil profile and met the F8 indicators DROLOGY Identified throughout the soil profile and met the F8 indicators DROLOGY Identified throughout the soil profile and met the F8 indicators DROLOGY Identified throughout the soil profile and met the F8 indicators DROLOGY Identified throughout the soil profile and met the F8 indicators DROLOGY Identified throughout the soil profile and met the F8 indicators DROLOGY Identified throughout the soil profile and met the F8 indicators DROLOGY Surface Water (A1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Tron Deposits (B5) Surface Soil Cracks (B6) Dother (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Depth (inches) Depth (i	unless disturbed or problematic
DROLOGY land Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	yr.
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Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) d Observations: No X Depth (inches) face Water Present? Yes No X Depth (inches) uration Present? Yes No X Depth (inches) Wetla udes capillary fringe) Wetla No X Depth (inches) Metla	Shallow Aquitard (D3)
Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) d Observations: Ves race Water Present? Yes Yes No X Depth (inches) uration Present? Yes No X Depth (inches) uration Present? Yes No X Depth (inches) udes capillary fringe) Wetla	FAC-Neutral Test (D5)
Surface Soil Cracks (B6) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) d Observations: ace Water Present? Yes No X Depth (inches) er Table Present? Yes No X Depth (inches) Wetla uration Present? Yes No X Depth (inches) Wetla	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) d Observations: iace Water Present? Yes No X Depth (inches) iaration Present? Yes No X Depth (inches) uration Present? Yes No X Depth (inches) Udes capillary fringe)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B8) d Observations: iace Water Present? Yes No X Depth (inches) iter Table Present? Yes No X Depth (inches) uration Present? Yes No X Depth (inches) Wetla ludes capillary fringe) Ves Ves Ves Ves Ves	—
d Observations: Yes No X Depth (inches)	
Ace Water Present? Yes No X Depth (inches) er Table Present? Yes No X Depth (inches) uration Present? Yes No X Depth (inches) udes capillary fringe) Wetla	
ter Table Present? Yes No X Depth (inches) uration Present? Yes No X Depth (inches) Wetla ludes capillary fringe)	
uration Present? Yes No X Depth (inches) Wetla ludes capillary fringe)	
ludes capillary fringe)	
	nd Hydrology Present? Yes <u>No</u>
cribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if availab	Ind Hydrology Present? Yes <u>No</u>
	Ind Hydrology Present? Yes <u>No</u>
narks:	Ind Hydrology Present? Yes <u>No</u>

Wetland Determination Data Form - Western Mountains, Valleys, and Coast Region

Project/Site: Thomp	pson Thri	ft		City/Cou	nty:	Colorado	o Sprir	ngs/El	Pas	Sampling Date	: 4/24	/202	4
Applicant/Owner:	Thomp	son Thrift					St	State: CO		Sampling Point		5	
Investigator(s):	Joe DiMar	ia, Nick DiMascio						Se	ction	, Township, Range:	S4, T15S	6, R6	δW
Landform (hillslope, te	rrace, etc.): Dry sedin	nent pond	Local r	elief (co	ncave, coi	nvex, n	ione):	_	Concave	Slope (%	»):	0-1
Subregion (LRR):	Е			Lat:	38	.770978		Long	: <u> </u>	-104.786743	Datum	N	AD83
Soil Map Unit Name:	Scham	per-Razor complex	c, 8 to 50 percen	t slopes					NW	/I classification:	N	4	
Are climatic / hydrologi	ic conditic	ns on the site typica	al for this time of	year?	Yes	Х	No		(If n	ە, explain in Remarks	3)		
Are Vegetation X	, Soil	, or Hydrology	significan	tly disturbed?		Are "N	lormal	Circun	nstan	ices" present? Yes		No_	Х
Are Vegetation	, Soil	, or Hydrology	naturally	problematic?		(If nee	ded, e	xplain	any a	inswers in Remarks.)			
SUMMARY OF FINDI	NGS - Att	ach site map show	ving sampling po	oint locations	s, transe	ects, impo	ortant f	eatur	es, et	t C.			
Hydrophytic Vegetation	n Present'	? Yes	X No										
Hydric Soil Present?		Yes	X No		le tha 9	Sampled	Aroa w	vithin					
Wetland Hydrology Pre	esent?	Yes	X No		a Wetla	and?	Alca n	///////		Yes X	No	-	

Remarks:

Sample point is located within a dry sediment pond. The pond is an artificially flooded feature which likely inhibits vegetation growth. Due to the high degree of soil redox features and wetland hydrology indicators, the site was considered to be a wetland.

VEGETATION - Use scientific names of plants.

		Absolu	te Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:	30') % Cov	er Species?	Status	Number of Dominant Species That		
1					Are OBL, FACW, or FAC (excluding	0	(A)
2.					17(0).		
3.					Total Number of Dominant		
4.					Species Across All Strata:		(B)
5.							-
			= Total Cover		Percent of Dominant Species		
Sapling/Shrub Stratum	Plot size:	15')			That Are OBL, FACW, or FAC:		(A/B)
1.	-						-
2.					Prevalence Index worksheet:		
3.					Total % Cover of:	Multiply by:	
4.					OBL species	x 1 =	_
5.					FACW species	x 2 =	_
			= Total Cover		FAC species	x 3 =	_
Herb Stratum (Plot size:	5')			FACU species	x 4 =	_
1.					UPL species	x 5 =	_
2.					Column Totals: 0	(A)	(B)
3.					Prevalence Index = B/	A =	_
4.							_
5.					Hydrophytic Vegetation Indicators:		
6.					1 - Rapid Test for Hydrophyt	ic Vegetation	
7.					2 - Dominance Test is >50%	•	
8.					3 - Prevalence Index is <3.0	1	
9.					4 - Morphological Adaptation	ns ¹ (Provide supportir	ng data
10.					 in Remarks or on a separate 	sheet)	
			= Total Cover		X Problematic Hydrophytic Veg	getation ¹ (Explain)	
Woody Vine Stratum (P	lot size:	30')					
1					¹ Indicators of hydric soil and wetla	nd hydrology must be	2
2					present, unless disturbed or proble	ematic.	
<i>z.</i>			- Total Covor				
0/ Dana One wad in Ulark Ot					Hydrophytic Vegetation	X N-	
% Bare Ground In Herb Str	ratum				Present?	X NO	-
Remarks:							

The pond is an artificially flooded feature which likely inhibits vegetation growth. Due to the high degree of soil redox features and wetland hydrology indicators, the site was considered to be a wetland.

Photos 8 and 9

Denth	ion: (Describe to th Matrix	le depth ne	eaea to aocument t	Redox Feat	r or contirm t ures	ne absen	ce of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-22	10YR 2/1	80	10YR 5/6	20	С	М	Silty clay loam	
						-		
						1		
							·	
						. 2.		
Type: C=Conce	entration, D=Depletion	on, RM=Red	uced Matrix, CS=Co	vered or Coa	ated Sand Gra	iins. ⁻ Lo	cation: PL=Pore Linin	g, M=Matrix
Hydric Soil Ir	ndicators: (Applica	ble to LRR	s, unless otherwise	noted.)			Indicators for F	Problematic Hydric Soils":
Histosol (/	A1)		s	andy Redox	(S5)		2 cm Muc	k (A10) (LRR B)
Histic Epi	pedon (A2)		s	tripped Matr	ix (S6)		Red Parer	nt Material (TF2)
Black Hist	ic (A3)		Lo	amy Mucky N	lineral (F1) (exc	ept MLRA	1) Very Shal	low Dark Surface (TF12)
Hydrogen	Sulfide (A4)		L	oamy Gleyeo	d Matrix (F2)		Other (Exp	olain in Remarks)
Depleted	Below Dark Surface	(A11)	D	epleted Mat	rix (F3)		—	
Thick Dar	k Surface (A12)		XR	edox Dark S	Surface (F6)			
Sandy Mu	cky Mineral (S1)		D	epleted Darl	surface (F7)			
Sandy Gle	eyed Matrix (S4)			edox Depres	ssions (F8)		3Indicato	ors of hydrophytic vegetation and land hydrology must be present
—			—				ur	nless disturbed or problematic.
Restrictive Laye	er (if present):							
Type:								
Depth (inche	s):						Hydric Soil Present?	Yes X No
HYDROLOG	Y ogy Indicators:							
Primary Indic	ators (minimum of c	ne is require	ed; check all that app	oly)			Secondary Indic	cators (minimum of two required)
Curfo og M	latar (A1)		Water Steine	d Loovoo (P	0)		Water-Stain	ed Leaves (B9) (except MLRA 1, 2
				u Leaves (D	9)		—	4A, aliu 4D)
High Wate	er Table (A2)		X Salt Crust (B	11)			Drainage Pat	ttersn (B10)
Saturation	n (A3)		Aquatic Inver	tebrates (B1	3)		Dry-Season	Water Table (C2)
Water Ma	rks (B1)		Hydrogen Su	lfide Odor (C	51)		Saturation Vi	sible on Aerial Imagery (C9)
Sediment	Deposits (B2)		Oxidized Rhiz	zopheres alc	ong Living Roo	ots (C3)	X Geomorphic	Position (D2)
Drift Depo	sits (B3)		Presence of I	Reduced Iro	n (C4)		Shallow Aqui	tard (D3)
X Algal Mat	or Crust (B4)		Recent Iron F	Reduction in	Tilled Soils (C	6)	FAC-Neutral	Test (D5)
Iron Depo	sits (B5)		Stunted or St	ressed Plan	ts (D1) (LRR /	4)	Raised Ant M	lounds (D6) (LRR A)
X Surface S	oil Cracks (B6)		Other (Explai	n in Remark	s)		Frost-Heave	Hummocks (D7)
X Inundation	NVisible on Aerial In	nagery (B7)						
X Sparsely	/egetated Concave	Surface (B8)					
Field Observation	ons:							
Surface Water P	resent? Yes		No X Dept	th (inches)				
Nater Table Pre	sent? Yes		No X Dept	th (inches)				
Saturation Prese	nt? Yes		No X Dept	th (inches)		Wetland	Hydrology Present?	Yes X No
includes capillar	y fringe)							
Describe Record	ed Data (stream ga	uge, monitor	ing well, aerial photo	s, previous i	nspections), if	available		
11/2015, 10/2018	3, 10/2022, 5/2023,	10/2023						
Remarks:								
Five primary and	one secondary indi	cator is met.						
						_		
	f Engineero						Western Mounta	ins Valleys and Coast - Version 2



PHOTO LOG

Project Name: Thompson Thrift

Site Location: El Paso, Colorado

olsson

Project No: 024-00437



Description: Overview of Wetlands B and C. Wetland B is a Palustrine Emergent Temporarily/Seasonally Flooded (PEMA/C) wetland and Wetland C is a Palustrine Unconsolidated Bottom Artificially Flooded (PUBK) open water feature.



Description: Overview of Wetland A, a PEMA/C wetland located in a narrow depression between upland hillslopes.



olsson **PHOTO LOG** Project Name: Site Location: Project No: 024-00437 Thompson Thrift El Paso, Colorado the second second -Photo No: 5 **Direction Photo Taken: East** Figure No: 4 Description: Sample point 2 located on an upland hillslope, out point for Wetland A.

 Photo No: 6
 Direction Photo Taken: East
 Figure No: 4

 Description: Sample point 4, in point for PEMA/C Wetland B, located adjacent to a sediment basin associated with Wetland C.
 Sediment basin associated with B

PHOTO LOG

Project Name: Thompson Thrift Site Location: El Paso, Colorado

olsson

Project No: 024-00437



Description: Sample point 4 located on an upland hillslope above Wetland B, this is the out point for sample points 4 and 5.



Photo No: 8

Direction Photo Taken: East

Figure No: 4

Description: Sample point 5, in point for PUBK Wetland C, located in a dry sediment basin. Aerial imagery indicates that the basin is periodically inundated.

PHOTO LOG

Project Name: Thompson Thrift

Site Location: El Paso, Colorado

olsson

Project No: 024-00437



Description: Overview of Wetland C, located in a dry sediment basin. A cobble riprap drainage swale in the foreground.



Description: A cobble riprap line drainage swale located at the northwestern portion of the sediment basin.

olsson **PHOTO LOG** Project Name: Project No: Site Location: 024-00437 Thompson Thrift El Paso, Colorado AN PROVIDE Photo No: 11 **Direction Photo Taken: Northwest** Figure No: 4 Description: The cobble riprap lined swale continues downslope of the sediment basin.

APPENDIX D

IPaC and CODEX Reports



United States Department of the Interior

FISH AND WILDLIFE SERVICE Colorado Ecological Services Field Office Denver Federal Center P.O. Box 25486 Denver, CO 80225-0486 Phone: (303) 236-4773 Fax: (303) 236-4005



In Reply Refer To: Project Code: 2024-0089787 Project Name: Thompson Thrift 05/13/2024 20:25:20 UTC

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:

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 Endangered Species Act (Act) 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 Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. 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 Act 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 Act 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 designated critical habitat.

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 (42 U.S.C. 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:

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (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 U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see https://www.fws.gov/program/migratory-bird-permit/whatwe-do.

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 https://www.fws.gov/library/collections/threats-birds.

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 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

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):

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:

Colorado Ecological Services Field Office

Denver Federal Center P.O. Box 25486 Denver, CO 80225-0486 (303) 236-4773

PROJECT SUMMARY

Project Code:2024-0089787Project Name:Thompson ThriftProject Type:Commercial DevelopmentProject Description:Development of a commercial property.Project Location:Former Commercial Development

The approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@38.77036635,-104.78635048078897,14z</u>



Counties: El Paso County, Colorado

ENDANGERED SPECIES ACT SPECIES

There is a total of 7 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. Note that 2 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, 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.

MAMMALS

NAME	STATUS
Tricolored Bat <i>Perimyotis subflavus</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/10515</u>	Proposed Endangered
BIRDS NAME	STATUS
Eastern Black Rail <i>Laterallus jamaicensis ssp. jamaicensis</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/10477</u>	Threatened
 Piping Plover Charadrius melodus Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered. There is final critical habitat for this species. Your location does not overlap the critical habitat. This species only needs to be considered under the following conditions: Project includes water-related activities and/or use in the N. Platte, S. Platte, and Laramie River Basins which may affect listed species in Nebraska. Species profile: https://ecos.fws.gov/ecp/species/6039 	Threatened

FISHES

NAME

NAME	STATUS
Greenback Cutthroat Trout Oncorhynchus clarkii stomias No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/2775</u>	Threatened
 Pallid Sturgeon Scaphirhynchus albus No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: Project includes water-related activities and/or use in the N. Platte, S. Platte, and Laramie River Basins which may affect listed species in Nebraska. Species profile: https://ecos.fws.gov/ecp/species/7162 	Endangered
INSEC IS NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/9743</u>	Candidate
FLOWERING PLANTS	

Ute Ladies'-tresses *Spiranthes diluvialis* No critical habitat has been designated for this species. STATUS

Threatened

NAME

STATUS

Species profile: <u>https://ecos.fws.gov/ecp/species/2159</u>

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.

IPAC USER CONTACT INFORMATION

Agency:OlssonName:joe DiMariaAddress:1880 Fall River DriveCity:LovelandState:COZip:80538Emailjdimaria@olsson.comPhone:5106046407



Colorado's Conservation Data Explorer

Project Review Report

Project Description

Development of a commercial property.

Project Information

Report Generation Date: 5/13/2024 02:29:24 PM Project Title: Thompson Thrift User Project Number(s): System Generated ID: CODEX-3910 Project Type: Development/Redevelopment, Commercial Project Size: 19.20 (acres) Latitude/Longitude: 38.770381 / -104.786360 County(s): EL PASO Watershed(s) HUC 8: Fountain Township/Range and/or Section(s): 015S066W - 04 - 6P

Contact Information

Organization: olsson Contact Name: Joe DiMaria Contact Phone: 5106046407 Contact Email: jdimaria@olsson.com Contact Address: 1880 Fall River Drive, Loveland, CO 80538 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:

- 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: <u>CNHP_codex_support@mail.colostate.edu</u> CNHP Website: <u>cnhp.colostate.edu</u>

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 <u>https://cpw.state.co.us/conservation/Pages/CON-Energy-Land.aspx</u>

CPW Website : cpw.state.co.us

Northeast Region

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

Southeast Region

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

Southwest Region

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

Northwest 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

Thompson Thrift Aerial Image with Locator Map



Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, USFWS Esri, USGS Maxar



Thompson Thrift Topographic Map with Land Management Status

Esri, NASA, NGA, USGS, FEMA Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

Thompson Thrift Web Map As Submitted By User



Project Boundary

Esri, NASA, NGA, USGS, FEMA

Regulatory Species

Table 1. Documented Occurrences Within 1 Miles Of Project Area

Major				Global	State	Viability	Last	ESA	СО	Other	CNHP	Data
Group	Scientific Name	Common Name	Data Type	Rarity	Rarity	Rank	Observation	Status	Status	Status	Identifier	Source
Birds	Haliaeetus leucocephalus	Bald Eagle	CNHP EO	G5	S3B,S3N	BC	2004-12-29		SC	BGEPA/BLM/SWA P Tier 2/USFS	11304	CNHP 20 221028
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				Global	State	ESA	со	Other	Data
Group	Scientific Name	Common Name	Data Type	Rarity	Rarity	Status	Status	Status	Source
Birds	Aquila chrysaetos	Golden Eagle	CPW Breeding Range	G5	S3S4B,S 4N			BGEPA/SWAP Tier 1	CPW 20221213
Mammals	Zapus hudsonius preblei	Meadow Jumping Mouse Subsp	CPW Overall Range	G5T2	S1	LT	ST	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				Global	State	Viability	Last	ESA	со	Other	CNHP	Data
Group	Scientific Name	Common Name	Data Type	Rarity	Rarity	Rank	Observation	Status	Status	Status	Identifier	Source
Fish	Etheostoma cragini	Arkansas Darter	CPW HUC12 Presence	G3G4	S2				ST	BLM/SWAP Tier 1		CPW 20 221213
Fish	Phoxinus erythrogaster	Southern Redbelly Dace	CPW HUC12 Presence	G5	S1				SE	SWAP Tier 1/USFS		CPW 20 221213
Fish	Platygobio gracilis	Flathead Chub	CPW HUC12	G5	S3				SC	SWAP Tier 1/USFS		CPW 20

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

Major				Global	State	Viability	Last	ESA	СО	Other	CNHP	Data
Group	Scientific Name	Common Name	Data Type	Rarity	Rarity	Rank	Observation	Status	Status	Status	Identifier	Source
			Presence									221213
Mammals	Odocoileus hemionus	Mule Deer	CPW Concentration Area	G5	S4							CPW 20 221213
Mammals	Odocoileus hemionus	Mule Deer	CPW Resident Population Area	G5	S4							CPW 20 221213
Mammals	Puma concolor	Mountain Lion	CPW Human Conflict Area	G5	S4							CPW 20 221213
Mammals	<u>Ursus americanus</u>	Black Bear	CPW Human Conflict Area	G5	S5							CPW 20 221213
Mammals	Ursus americanus	Black Bear	CPW Summer Concentration Area	G5	S5							CPW 20 221213

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

Major				Global	State	ESA	СО	Other	Data
Group	Scientific Name	Common Name	Data Type	Rarity	Rarity	Status	Status	Status	Source
Birds	Ammodramus savannarum	Grasshopper Sparrow	CPW Breeding Range	G5	S3S4B			SWAP Tier 2/USFS	CPW 20221213
Birds	Athene cunicularia	Burrowing Owl	CPW Breeding Range	G4	S4B		ST	BLM/SWAP Tier 1/USFS	CPW 20221213
Birds	Branta canadensis	Canada Goose	CPW Foraging Area	G5	S 5				CPW 20221213
Birds	Branta canadensis	Canada Goose	CPW Winter Range	G5	S5				CPW 20221213
Birds	Buteo swainsoni	Swainson's Hawk	CPW Breeding Range	G5	S5B			SWAP Tier 2	CPW 20221213
Birds	Calamospiza melanocorys	Lark Bunting	CPW Breeding Range	G5	S4			SWAP Tier 2	CPW 20221213
Birds	Catharus fuscescens	Veery	CPW Breeding Range	G5	S3B			SWAP Tier 2	CPW 20221213
Birds	Charadrius montanus	Mountain Plover	CPW Breeding Range	G3	S2B		SC	BLM/SWAP Tier 1/USFS	CPW 20221213
Birds	Circus hudsonius	Northern Harrier	CPW Breeding Range	G5	S3B			SWAP Tier 2/USFS	CPW 20221213
Birds	Falco mexicanus	Prairie Falcon	CPW Breeding Range	G5	S4B,S4N			SWAP Tier 2	CPW 20221213
Birds	Melanerpes lewis	Lewis's Woodpecker	CPW Breeding Range	G4	S4			SWAP Tier 2/USFS	CPW 20221213
Birds	Passerina amoena	Lazuli Bunting	CPW Breeding Range	G5	S5B			SWAP Tier 2	CPW 20221213
Birds	Peucaea cassinii	Cassin's Sparrow	CPW Breeding Range	G5	S4B			SWAP Tier 2/USFS	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	CPW 20221213

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

Major				Global	State	ESA	СО	Other	Data
Group	Scientific Name	Common Name	Data Type	Rarity	Rarity	Status	Status	Status	Source
								2/USFS	
Birds	<u>Vermivora virginiae</u>	Virginia's Warbler	CPW Breeding Range	G5	S5			SWAP Tier 2	CPW 20221213
Insects	Acronicta albarufa	Barrens Daggermoth	Range Map - present	G3G4	SH				CNHP 20210615
Insects	Acronicta exempta	A Dagger Moth	Range Map - present	GNR	S3				CNHP 20210615
Insects	Argia alberta	Paiute Dancer	Range Map - within range	G4	S4			SWAP Tier 2	CNHP 20210615
Insects	Atrytonopsis hianna	Dusted Skipper	CNHP General EO	G4G5	S2				CNHP 20221028
Insects	Atrytonopsis hianna	Dusted Skipper	Range Map - within range	G4G5	S2				CNHP 20210615
Insects	<u>Bombus (Cullumanobombus)</u> fraternus (Bombus fraternus)	Southern Plains Bumble Bee	Range Map - within range	G2G4	S2S3			SWAP Tier 2	CNHP 20210615
Insects	<u>Bombus (Cullumanobombus)</u> <u>morrisoni (Bombus morrisoni)</u>	Morrison's Bumble Bee	Range Map - within range	G3	S2S4			SWAP Tier 2	CNHP 20210615
Insects	<u>Bombus (Thoracobombus)</u> pensylvanicus (Bombus pensylvanicus)	American Bumble Bee	Range Map - within range	G3G4	S2S3			SWAP Tier 2	CNHP 20210615
Insects	Bombus fervidus	Yellow Bumble Bee	Range Map - within range	GNR	S3S4			SWAP Tier 2	CNHP 20210615
Insects	Bombus occidentalis	Western Bumble Bee	Range Map - within range	G3	S3S4			SWAP Tier 2	CNHP 20210615
Insects	Bombus variabilis	Variable Cuckoo Bumble Bee	Range Map - within range	G1G2	SH				CNHP 20210615
Insects	Callophrys mossii schryveri	Moss's Elfin	Range Map - within range	G4T4	S2S3			SWAP Tier 2	CNHP 20210615
Insects	Danaus plexippus	Monarch	Range Map - present	G4	S5			SWAP Tier 2	CNHP 20210615
Insects	Euphilotes rita coloradensis	Colorado Blue	Range Map - within range	G3G4T3	S2			SWAP Tier 2	CNHP 20210615
Insects	Heliothis australis	Southern Gem Moth	Range Map - present	GNR	S1				CNHP 20210615
Insects	Melemaea magdalena	A Geometrid Moth	Range Map - present	GU	S3				CNHP 20210615
Insects	Paratrytone snowi	Snow's Skipper	Range Map - within range	G5	S3				CNHP 20210615
Insects	Plathemis subornata	Desert Whitetail	Range Map - present	G4	S3				CNHP 20210615
Insects	Polites origenes	Cross-line Skipper	Range Map - within range	G5?	S3				CNHP 20210615
Insects	Somatochlora ensigera	Plains Emerald	CNHP General EO	G4	SH			SWAP Tier 2	CNHP 20221028
Insects	Stinga morrisoni	Morrison's Skipper	Range Map - within range	G4G5	S3S4				CNHP 20210615
Insects	Sympetrum costiferum	Saffron-winged Meadowhawk	Range Map - present	G5	S3				CNHP 20210615
Mammals	Conepatus leuconotus	Common Hog-nosed Skunk	Range Map - within range	G4	S1			SWAP Tier 2/USFS	CNHP 20210615
Mammals	Corynorhinus townsendii	Townsend's Big-eared Bat	CPW Overall Range	G4	S2			BLM/USFS	CPW 20221213
Mammals	Cynomys Iudovicianus	Black-tailed Prairie Dog	CPW Overall Range	G4	S3		SC	BLM/SWAP Tier 2/USFS	CPW 20221213
Mammals	Cynomys ludovicianus	Black-tailed Prairie Dog	CPW Potential Occurrence	G4	S3		SC	BLM/SWAP Tier 2/USFS	CPW 20221213

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

Major				Global	State	ESA	со	Other	Data
Group	Scientific Name	Common Name	Data Type	Rarity	Rarity	Status	Status	Status	Source
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	Lasiurus borealis	Eastern Red Bat	CPW Overall Range	G3G4	S2S3B				CPW 20221213
Mammals	Lasiurus cinereus	Hoary Bat	CPW Overall Range	G3G4	S3S4B			SWAP Tier 2/USFS	CPW 20221213
Mammals	Lepus townsendii	White-tailed Jackrabbit	CPW Overall Range	G5	S4			SWAP Tier 2	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 volans	Long-legged Myotis	CPW Overall Range	G4G5	S5				CPW 20221213
Mammals	Neotamias quadrivittatus	Colorado Chipmunk	Range Map - within range	G5	S5				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	Odocoileus virginianus	White-tailed Deer	CPW Overall Range	G5	S5				CPW 20221213
Mammals	Perognathus fasciatus	Olive-backed Pocket Mouse	CPW Overall Range	G5	S3			SWAP Tier 1	CPW 20221213
Mammals	Perognathus fasciatus	Olive-backed Pocket Mouse	Range Map - within range	G5	S3			SWAP Tier 1	CNHP 20210615
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	Thomomys bottae	Botta's Pocket Gopher	CPW Overall Range	G5	S5				CPW 20221213
Mammals	Ursus americanus	Black Bear	CPW Overall Range	G5	S5				CPW 20221213
Reptiles	Aspidoscelis sexlineata	Six-lined Racerunner	CPW Overall Range	G5	S5				CPW 20221213
Reptiles	Chrysemys picta	Painted Turtle	CPW Overall Range	G5	S5				CPW 20221213
Reptiles	Coluber constrictor	Racer	CPW Overall Range	G5	S5				CPW 20221213
Reptiles	Crotalus oreganus	Western Rattlesnake	CPW Overall Range	G5	SNR				CPW 20221213
Reptiles	Crotalus viridis	Western Rattlesnake	CPW Overall Range	G5	S5				CPW 20221213
Reptiles	Heterodon nasicus	Plains Hognose Snake	CPW Overall Range	G5	S4				CPW 20221213
Reptiles	Holbrookia maculata	Lesser Earless Lizard	CPW Overall Range	G5	S5				CPW 20221213
Reptiles	Lampropeltis gentilis	Central Plains Milk Snake	CPW Overall Range	G5	S5			SWAP Tier 2	CPW 20221213
Reptiles	Liochlorophis vernalis	Smooth Green Snake	CPW Overall Range	G5	S4				CPW 20221213
Reptiles	Masticophis flagellum	Coachwhip	CPW Overall Range	G5	S5				CPW 20221213
Reptiles	Phrynosoma hernandesi	Hernandez's Short-horned Lizard	CPW Overall Range	G5	S5				CPW 20221213
Reptiles	Pituophis catenifer sayi	Bullsnake	CPW Overall Range	G5T5	S5				CPW 20221213
Reptiles	Plestiodon multivirgatus	Many-lined Skink	CPW Overall Range	G5	S4				CPW 20221213

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

Major				Global	State	ESA	СО	Other	Data
Group	Scientific Name	Common Name	Data Type	Rarity	Rarity	Status	Status	Status	Source
Reptiles	Sceloporus consobrinus	Fence/prairie/plateau Lizard	CPW Overall Range	G5	S5				CPW 20221213
Reptiles	Sceloporus tristichus	Southern Plateau Lizard	CPW Overall Range	G5	S3				CPW 20221213
Reptiles	Terrapene ornata ornata	Ornate Box Turtle	CPW Overall Range	G5T5	S5				CPW 20221213
Reptiles	Thamnophis elegans	Western Terrestrial Garter Snake	CPW Overall Range	G5	S5				CPW 20221213
Reptiles	Thamnophis radix	Plains 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

		CNHP			
Name	Data Type	Biodiversity Rank	CNHP Edit Date	CNHP Identifier	Data Source
Aquatic Native Species Conservation Waters	SB181 High Priority Habitat				CPW 20220528
Fountain Creek	CNHP PCA	B5: General Biodiversity Interest	2004-10-04	82	CNHP 20221028
Widefield Fountain	CNHP PCA	B5: General Biodiversity Interest	2001-05-25	768	CNHP 20221028

Table 7. Managed Areas within Project Area

Name	Owner	Manager	Management Description	Access [*]	Mechanism	Easement Holder	Data Source
	PRIVATE	PRIVATE	Private Land	No	NA		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 AreaNo results were found for this project area.

Project Report Appendix

Please visit the <u>CNHP website</u> 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 <u>NatureServe</u>. 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** <u>CNHP</u> 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).

Managed Areas Name – Name of the managed area.

Manager – The general land Manager.

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

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 **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 -

<u>CNHP EO</u> – 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.

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.

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

<u>CNHP Observation</u> – Sightings of species on CNHP's watchlist or sightings of tracked elements that do not meet the minimum criteria necessary to make an occurrence.

<u>CNHP PCA</u> – 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 HUC 10 and HUC 12 for aquatics.

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

<u>State Natural Area</u> - 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:

(PCA), <u>State Designated Natural Areas</u>, <u>Important Bird Areas</u>, and managed lands from the Colorado Ownership, Management and Protection database (<u>COMaP</u>), SB181 High Priority Habitat

Special Areas Name – The name of the special area.

State Rarity - The <u>rarity rank</u> 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 <u>National Wetland</u> <u>Inventory database</u>.

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 <u>https://www.fws.gov/wetlands/data/wetland-codes.html</u>

System – A complex of wetlands and deepwater habitats that share the

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Endangered (E), Threatened (T), or Federal Candidate (C) with qualifiers for Partial Status (PS) and experimental populations (XN).

Global Rarity – The <u>rarity rank</u> 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.

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.