

**Appendix E**

**FEDERAL ENDANGERED SPECIES ACT  
LISTED SPECIES IN THE ANALYSIS AREA**

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**Table E-1.** Potential for Occurrence of Federal Endangered Species Act Listed, Proposed, and Candidate Species in the Analysis Area

Species Common Name (Scientific [Latin] Name)	Species Group	Federal Status							State Status		Local Status		Species and Range	Habitat	Potential to Occur in Portions of the Analysis Area in which It Is Listed as a Special Status Species
		ESA (County)	MBTA	BLM (Field Office/District)	USFS Douglas District of CNF	BCC	BMC	BGEPA	SCGN	NM	SDCP	Special Designation Area(s)			
Arizona treefrog (Huachuca/Canelo Distinct Population Segment) ( <i>Hyla wrightorum</i> )	Amphibian	Candidate (Cochise)			MIS								In Arizona, this small frog is known from north of Mogollon Rim and, disjunctly, in the Huachuca Mountains and Canelo Hills of southeastern Arizona (FWS 2008aa). Elevations range from 5,000 to 8,500 feet (FWS 2013a).	In Arizona, found in Madrean oak woodland and savannah, pine-oak woodland, and mixed conifer forest (FWS 2008aa).	None. The proposed Project and all action alternatives are distant from the known populations of this species in the Huachuca and Canelo Mountains.
Chiricahua leopard frog ( <i>Lithobates [Rana] chiricahuensis</i> )	Amphibian	Threatened (Grant, Hidalgo, Luna, Greenlee, Graham, Cochise, Pima)						AGFD Tier 1a, NMDGF		PVS	Designated Critical Habitat; not within Project ROW	The northern population of this small ranid frog extends from central Arizona east and southward along Mogollon Rim while southern population is in the mountains and valleys south of the Gila River in the southeastern part of the State (AGFD 2011aa). In New Mexico, it is most abundant in Gila and San Francisco River drainages (BISON-M 2012ad). Elevations range from 3,300 to 8,900 feet (FWS 2013a).	Springs, streams in upper portions of watersheds, and livestock tanks free from non-native predators or in marginal habitats (FWS 2013a).	Unlikely. While the proposed Project crosses through the geographical range of the species, it does not cross perennial water that has the potential to support this species.	
Sonoran tiger salamander ( <i>Ambystoma mavortium stebbinsi</i> )	Amphibian	Endangered (Cochise)			MIS			AGFD Tier 1a				In Arizona, this salamander is known from San Rafael Valley of Santa Cruz County (AGFD 2010aa). Elevations range from 4,000 to 6,300 feet (FWS 2013a).	Stock tanks and impounded cienegas, rodent burrows, rotted logs, and other moist cover sites (AGFD 2003aa).	None. The proposed Project and all action alternatives are distant from the known populations of this species.	
Cactus ferruginous pygmy-owl ( <i>Glaucidium brasilianum cactorum</i> )	Bird	Delisted/Petitioned for listing/Under Review (Pima, Pinal)	Yes	Gila	Sensitive			AGFD Tier 1a		PVS		South-central Arizona, primarily in Pima County. No records from Cochise County (AGFD 2012aa). Elevations below 4,000 feet (FWS 2013b).	Resident of desert woodlands with tall canopy cover. Primarily found in Sonoran desertscrub and occasionally in riparian drainages and woodlands within semidesert grassland communities. Prefers to nest in cavities of saguaro cacti but has been found in low-density suburban developments that include natural open spaces (AGFD 2001ac).	Possible. The analysis area is within the typical range of the species and suitable habitat parameters may be present.	
California least tern ( <i>Sterna antillarum browni</i> )	Bird	Endangered (Pima)	Yes							Yes		Breeding documented in Maricopa County, while transient migrants have been recorded in Pima and Mojave counties, Arizona (FWS 2009aa). Elevations below than 2,000 feet (FWS 2013b).	Open, bare, or sparsely vegetated sand, sandbars, gravel pits, or exposed flats along shorelines of inland rivers, lakes, reservoirs, or drainage systems (FWS 2009aa).	Unlikely. Although suitable habitat parameters may be present, the analysis area is not within the species' typical range.	

**Table E-1.** Potential for Occurrence of Federal Endangered Species Act Listed, Proposed, and Candidate Species in the Analysis Area (Continued)

Species Common Name (Scientific [Latin] Name)	Species Group	Federal Status							State Status		Local Status		Species and Range	Habitat	Potential to Occur in Portions of the Analysis Area in which It Is Listed as a Special Status Species
		ESA (County)	MBTA	BLM (Field Office/District)	USFS Douglas District of CNF	BCC	BMC	BGEPA	SCGN	NM	SDCP	Special Designation Area(s)			
Least tern (Interior population) ( <i>Sterna antillarum</i> )	Bird	Endangered (Doña Ana)	Yes							NMDGF			Known to nest at or near Bitter Lake National Wildlife Reserve north of Roswell, New Mexico. Occasional migrant to Eddy County, New Mexico (BISON-M 2009ab).	Shallow water areas of rivers, streams, and lakes. Requires sandy and relatively open areas for nesting (BISON-M 2009ab).	Unlikely. Although suitable habitat parameters may be present, the analysis area is not within the species' typical range.
Masked bobwhite ( <i>Colinus virginianus ridgewayi</i> )	Bird	Endangered (Pima)								AGFD Tier 1a			This bird species has been re-introduced to the Buenos Aires National Wildlife Refuge in the Altar Valley near the Arizona and Mexico border (AGFD 2012aa) at elevations range from 1,000 to 4,000 feet (FWS 2013b).	Desert grasslands with diversity of dense native grasses, forbs, and brush (FWS 2013b).	None. The proposed Project and all action alternatives are distant from the known populations of this species.
Mexican spotted owl ( <i>Strix occidentalis lucida</i> )	Bird	Threatened (Graham, Grant, Greenlee, Hidalgo, Cochise, Pima, Pinal)	Yes							AGFD Tier 1a, NMDGF		Designated Critical Habitat; not within Project ROW	Patchily distributed in forested areas throughout most of Arizona (AGFD 2004ah). Occurs statewide in New Mexico (BISON-M 2010ag). Elevations range from 4,100 to 9,000 feet (FWS 2012a). AGFD HDMS unpublished records show a range of 2,720 to 9,600 feet (AGFD 2005aa).	Nests in canyons and dense forests with multilayered foliage structure. Cool microclimates appear to be important (FWS 2012a). Adults may or may not leave their territories in the winter (FWS 2012a). Riparian forests may be important for movement (AGFD 2005aa).	None. The proposed Project and all action alternatives are distant from the known populations of this species and habitats in the Project ROW are not similar to those known to be used by this species.
Northern aplomado falcon ( <i>Falco femoralis septentrionalis</i> )	Bird	Endangered/Experimental, Non-essential Population (Doña Ana, Grant, Hidalgo, Luna, Cochise)	Yes							AGFD Tier 1a, NMDGF	Endangered		This raptor is designated as a nonessential experimental population in Arizona and New Mexico (FWS 2013a). In Arizona, this species is extremely rare (AGFD 2001ab). In New Mexico, the few nests documented were in yucca grasslands (BISON-M 2010aa). Elevations range from 3,500 to 9,000 feet (FWS 2013a).	Grasslands and savannas (AGFD 2001ab). Nests in trees or tall shrubs in yucca grasslands in New Mexico (BISON-M 2010aa).	Possible. The analysis area is within the typical range of the species and suitable habitat parameters may be present.
Southwestern willow flycatcher ( <i>Empidonax traillii extimus</i> )	Bird	Endangered (Doña Ana, Grant, Hidalgo, Luna, Greenlee, Graham, Cochise, Pima, Pinal)	Yes							AGFD Tier 1a, NMDGF	Endangered	PVS	In Arizona, this bird is found in the middle to lower San Pedro River, along the Little Colorado, Gila, Verde, and Salt rivers (AGFD 2002aa, 2012aa). In New Mexico, this species is found statewide during migration (BISON-M 2012aa). Elevations below 8,500 feet (FWS 2013a).	Cottonwood/willow and tamarisk vegetation communities along rivers and streams (AGFD 2002aa).	Possible. The analysis area is within the typical range of the species and suitable habitat parameters may be present.

**Table E-1.** Potential for Occurrence of Federal Endangered Species Act Listed, Proposed, and Candidate Species in the Analysis Area (Continued)

Species Common Name (Scientific [Latin] Name)	Species Group	Federal Status							State Status		Local Status		Species and Range	Habitat	Potential to Occur in Portions of the Analysis Area in which It Is Listed as a Special Status Species
		ESA (County)	MBTA	BLM (Field Office/District)	USFS Douglas District of CNF	BCC	BMC	BGEPA	SCGN	NM	SDCP	Special Designation Area(s)			
Sprague's pipit ( <i>Anthus spragueii</i> )	Bird	Candidate (Hidalgo, Cochise)	Yes			Yes	Yes, Focal		AGFD Tier 1b, NMDGF				Winters in grasslands of the San Rafael, Sonoita, and Sulphur Spring valleys in southeastern Arizona (AGFD 2010ab, 2012aa). Occasionally reported in extreme southwestern Hidalgo County, New Mexico (BISON-M 2011aa). Elevations below 5,000 feet (FWS 2013a).	Native grasslands with vegetation of intermediate height and lacking woody shrubs (FWS 2013a).	Possible. The analysis area is within the typical range of the species and suitable habitat parameters may be present.
Western yellow-billed cuckoo ( <i>Coccyzus americanus occidentalis</i> )	Bird	Threatened (Greenlee, Graham, Cochise, Pima, Pinal, Doña Ana, Grant, Hidalgo, Luna)	Yes		Sensitive	Yes	Yes		AGFD Tier 1a, NMDGF		PVS	Proposed critical habitat at crossing of Cienega Creek and about 0.5 mile south of the crossing of the San Pedro River.	All counties of Arizona but generally found in southern and central portions (AGFD 2011ab, 2012aa). Statewide in New Mexico (BISON-M 2011ab). Elevations below 6,500 feet (FWS 2013a, 2013c).	Large blocks of mature riparian woodlands (cottonwood, willow, or tamarisk galleries) (AGFD 2011ab).	Possible. The analysis area is within the typical range of the species and suitable habitat parameters may be present.
Whooping crane ( <i>Grus americana</i> )	Bird	Endangered/Experimental, Non-essential Population (Doña Ana, Grant, Hidalgo, Luna)	Yes				Yes						Extirpated from Arizona (FWS 2013j). Occur in Bosque del Apache National Wildlife Refuge on Rio Grande River near Socorro New Mexico during the winter (BISON-M 2012ab). Elevation of approximately 4,500 feet (FWS 2013j).	This large bird is found in marshes, prairies, croplands, river bottoms and potholes (BISON-M 2010ab). Seasonally migrate from Canada to Texas following a 2,400 mile by 220 mile corridor (FWS 2012aa).	None. This species is not known to occur in the counties in which the Project ROW is located.
Yuma clapper rail ( <i>Rallus longirostris yumanensis</i> )	Bird	Endangered (Pinal)	Yes				Yes		AGFD Tier 1a				This large marsh bird species is primarily found along the Colorado River from Yuma to Lake Mead. Also known from the Virgin, Bill Williams, and lower, Salt, Verde, and Gila Rivers. Populations along the Gila River may be migratory (FWS 2010a). Elevations below 4,500 feet (FWS 2013g).	Fresh water and brackish marshes with tall, dense emergent vegetation (FWS 2013g).	None. The proposed Project and all action alternatives are distant from the known populations of this species.
Apache (Arizona) trout ( <i>Oncorhynchus gilae apache</i> )	Fish	Threatened (Greenlee, Graham)											This fish is restricted to streams in the upper Salt, Gila, Blue, and Little Colorado drainages in the White Mountains on the White Mountain Apache Indian Reservation and in the Apache-Sitgreaves National Forest (FWS 2008).	This fish is found in mixed-conifer forests and mountain meadows at elevations above 5,000 feet amsl in small, cold, high-gradient streams on substrates that consist of boulders, rocks, and gravel with some sand or silt (FWS 2008).	None. The proposed Project and all action alternatives are distant from the drainages from which this species is known.

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		ESA (County)	MBTA	BLM (Field Office/District)	USFS Douglas District of CNF	BCC	BMC	BGEPA	SCGN	NM	SDCP	Special Designation Area(s)			
Beautiful shiner ( <i>Cyprinella formosa</i> )	Fish	Threatened (Grant, Luna, Cochise)										Designated Critical Habitat; not within Project ROW	This small fish is found in the San Bernardino National Wildlife Refuge in extreme southeastern Arizona along the U.S. and Mexico border (AGFD 2004ai). Extirpated from New Mexico (BISON-M 2012ab). Elevations below 4,500 feet (FWS 2013a).	Small to medium sized streams and ponds with sand, gravel, and rock bottoms (AGFD 2001ad; FWS 2013a).	None. The proposed Project and all action alternatives are distant from the known populations of this species (more than 59 miles north of San Bernardino National Wildlife Refuge).
Chihuahu chub ( <i>Gila nigrescens</i> )	Fish	Threatened (Grant)							NMDGF	Endangered			This fish is currently found in the Mimbres River of New Mexico between Allie Canyon and below Post Office in town of Mimbres, New Mexico (BISON-M 2009ad). The New Mexico population is limited mainly to the Archuleta/Moreno Spring along the Mimbres River.	Small to medium-sized streams in areas with cover including undercut banks, uprooted trees, or solid objects. Cienegas. In areas with adjacent rapid velocity flows (BISON-M 2009ad).	None. The proposed Project and all action alternatives are distant from the known populations of this species. The proposed Project crosses the Mimbres River near Deming New Mexico, more than 45 river miles downstream of the known populations.
Desert pupfish ( <i>Cyprinodon macularius</i> )	Fish	Endangered (Graham, Cochise, Pima, Pinal)							AGFD Tier 1a		PVS	Designated Critical Habitat; not within Project ROW	One natural population exists in Arizona at Quitobaquito Spring in Pima County (FWS 2010b). Introduced populations are found in Cold Springs in Graham County, AD Wash in Yavapai County, and Finley Tank in Santa Cruz County (AGFD 2001ae, 2004aj). Historic range is more widespread. Refugia populations (9 in total) are found in private ponds and aquariums (AGFD 2001ae). Elevations below 4,000 feet (FWS 2013a). AGFD HDMS unpublished records show a range of 1,200 to 3,450 feet (AGFD 2001ae).	Inhabit shallow springs, small streams, and marshes. Tolerates saline and warm water (FWS 2013a).	None. The proposed Project and all action alternatives are distant from the known populations of this species.

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Gila chub ( <i>Gila intermedia</i> )	Fish	Endangered (Grant, Greenlee, Graham, Cochise, Pima, Pinal)		Sensitive	MIS				AGFD Tier 1a, NMDGF	Endangered	PVS	Designated Critical Habitat; none within Project ROW	In Arizona, this fish is known from small springs or headwater streams serving as tributaries of Santa Cruz (Cienega Creek, Sabino Canyon, and Sheehy Spring) and San Pedro River (Bass, O'Donnell and Redfield Canyons, Babocomari River and Turkey Creek) drainages (AGFD 2002ac, 2012aa). In New Mexico, relict populations may exist in Mule and Turkey Creeks although they may have been extirpated from the State (BISON-M 2009ac). Elevation range from 2,000 to 5,500 feet (FWS 2013a). Arizona records show a range from 2,720 to 5,420 feet (AGFD 2002ac).	Pools, springs, cienegas, and streams. Common riparian plants associated with these populations include willow ( <i>Salix</i> spp.), tamarisk ( <i>Tamarix</i> spp.), cottonwoods ( <i>Populus</i> spp.), seep-willow ( <i>Baccharis glutinosa</i> ), and ash ( <i>Fraxinus</i> spp.). Typical aquatic vegetation includes watercress ( <i>Nasturtium officianale</i> ), horsetail ( <i>Equisetum</i> spp.), rushes ( <i>Juncus</i> spp.), and speedwell ( <i>Veronica anagallis-aquatica</i> ) (FWS 2008b, 2013a).	Unlikely. Although the analysis area is within the species' typical range, suitable habitat parameters are not present. Designated critical habitat for the species is located along Cienega Creek downstream (north) of the proposed Project.
Gila topminnow ( <i>Poeciliopsis occidentalis occidentalis</i> )	Fish	Endangered (Grant, Cochise, Graham, Pima, Pinal)			MIS				AGFD Tier 1a, NMDGF	Threatened	PVS		This small fish was once very common throughout its range, now occurs in several localities in the Gila River drainage, and one locality in the Bill Williams River drainage in Arizona (AGFD 2001ah, 2012aa; FWS 2008d). This species has been reared and released at more than 200 sites. In New Mexico, this fish was re-introduced in the Red Rock Wildlife Management Area located 25 miles north of Lordsburg, New Mexico (BISON-M 2009ah). Elevations 3,500 to 6,500 feet (FWS 2013a).	Small streams, springs, and cienegas in vegetated shallows with aquatic vegetation and debris for cover. Can tolerate relatively high water temperatures and low dissolved oxygen. (FWS 2008d, 2013a).	Unlikely. Although the analysis area is within the species' typical range, suitable habitat parameters are not present.
Gila trout ( <i>Oncorhynchus gilae gilae</i> )	Fish	Threatened (Grant, Graham, Greenlee)							AGFD Tier 1a, NMDGF	Threatened			This fish is found throughout the upper Gila drainage in New Mexico and historically in the Verde and Agua Fria drainages of Arizona (AGFD 2002af; BISON-M 2009ag). Introduced in Dude Creek, Arizona and currently inhabits 13 streams in New Mexico. Elevations range from 5,570 to 9,200 feet (BISON-M 2009ag).	Small, cool, clear mountain streams with vegetation cover (AGFD 2002af).	None The proposed Project and all action alternatives are distant from the known populations of this species. The proposed Project crosses the Mimbres River near Deming New Mexico, more than 50 river miles downstream of the known populations in McKnight Creek of the Mimbres River Basin.

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Headwater chub ( <i>Gila nigra</i> )	Fish	Candidate (Grant, Graham)							AGFD Tier 1b, NMDGF	Endangered			This fish reaches a maximum size of about 12 inches and is endemic to the Gila River basin of Arizona and New Mexico in the middle and headwater reaches of middle-sized streams (AGFD 2010ac; BISON-M 2011ac). Known from 13 streams within Yavapai, Gila, and Graham counties of Arizona (FWS 2006aa). In New Mexico, populations are known in the Gila River mainstem above Mangus Creek confluence (AGFD 2004ak). Elevations range from 3,000 to 6,700 feet (FWS 2012d).	Medium-sized streams in large, deep pools often associated with cover such as undercut banks or deep places created by trees or rocks (FWS 2006aa).	None. The proposed Project and all action alternatives are distant from the known populations of this species.
Loach minnow ( <i>Tiaroga cobitis</i> )	Fish	Endangered (Grant, Hidalgo, Greenlee, Graham, Cochise, Pinal)							AGFD Tier 1a, NMDGF	Endangered	Designated Critical Habitat; not within Project ROW		This small fish was once common throughout much of the Gila River system including portions of the Gila, Blue, Tularosa, White, Verde, Salt, San Pedro, and San Francisco rivers in Arizona and New Mexico, as well as some of their tributaries. Present populations are geographically isolated and inhabit the upstream ends of their historical range (FWS 2012ab) at elevations below 8,000 feet (FWS 2012ab).	Benthic species of small to large perennial streams with swift shallow water over cobble and gravel. Recurrent flooding and natural hydrography is important (UFSWS 2012ab).	None. The proposed Project and all action alternatives are distant from the known populations of this species.
Razorback sucker ( <i>Xyrauchen texanus</i> )	Fish	Endangered (Graham, Greenlee, Pinal)							AGFD Tier 1a, NMDGF		Designated Critical Habitat; not within Project ROW		This large fish is found in Lake Mohave, Green River Basin and the Upper Colorado River Basin (AGFD 2002ag, 2012ac) at elevations below 6,000 feet (FWS 2009ab). Historically razorback suckers inhabited the Colorado, Gila, Salt, Verde, and San Pedro Rivers. Presently natural adult populations exist only in Lake Mohave, Lake Mead, and Lake Havasu.	Riverine and lacustrine areas, generally not in fast-moving water and may use backwaters (FWS 2009ab).	None. The proposed Project and all action alternatives are distant from the known populations of this species.
Rio Grande silvery minnow ( <i>Hybognathus amarus</i> )	Fish	Endangered (Doña Ana)							NMDGF				This small fish currently occurs in the Rio Grande River from Cochiti Pueblo downstream to the inflow of Elephant Butte Reservoir in New Mexico (BISON-M 2009af).	Low-gradient, large streams with shifting sands or silty bottoms (BISON-M 2009af).	None. The proposed Project and all action alternatives are distant from the known populations of this species.

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Roundtail chub ( <i>Gila robusta</i> )	Fish	Candidate (Grant, Hidalgo, Greenlee, Graham, Pinal)		Sensitive					AGFD Tier 1b, NMDGF	Endangered			In Arizona, this fish occurs in tributaries of the Little Colorado, Bill Williams, Salt, Verde, Gila (Eagle Creek), and San Pedro (Aravaipa Creek) rivers (AGFD 2002ad). Upper Gila River (San Francisco and Zuni rivers) and San Juan drainage and Animas River in New Mexico. Elevations range from 1,000 to 5,200 feet (BISON-M 2009ae).	Cool to warm waters of rivers and streams, often occupy the deepest pools and eddies of large streams. (FWS 2010c).	None. The proposed Project and all action alternatives are distant from the known populations of this species.
Spikedace ( <i>Meda fulgida</i> )	Fish	Endangered (Grant, Hidalgo, Greenlee, Graham, Cochise, Pinal)			MIS				AGFD Tier 1a, NMDGF	Endangered	Designated Critical Habitat; not within Project ROW		This small fish occurs in Aravaipa Creek, Eagle Creek, upper Verde River system in Arizona, and the upper Gila River system in New Mexico (FWS 2012ad) at elevations below 6,000 feet (FWS 2013a).	Medium to large perennial streams with moderate to swift velocity waters over cobble and gravel substrate. Recurrent flooding and natural hydrograph important to withstand invading exotic species (FWS 2013a).	None. The proposed Project and all action alternatives are distant from the known populations of this species.
Woundfin ( <i>Plagopterus argentissimus</i> )	Fish	Experimental Population, Non-Essential (Graham, Greenlee)							AGFD Tier 1a				This small fish occurs in the Virgin River mainstem in northwestern Arizona.	Swift portions and main channels of turbid, warm streams with shifting sandy bottoms (AGFD 2000).	Unlikely. While the proposed Project crosses through the geographical range of the species, it does not cross perennial water that has the potential to support this species.
Yaqui catfish ( <i>Ictalurus pricei</i> )	Fish	Threatened (Cochise)							AGFD Tier 1a		Designated Critical Habitat; not within Project ROW		This medium sized fish was extirpated from the US, a small population was re-introduced onto the San Bernardino National Wildlife Refuge in 1997 (FWS 2010d). Elevations range from 4,000 to 5,000 feet (FWS 2013a).	Moderate to large streams with slow current over sand and rock bottoms (FWS 2013a).	None. The proposed Project and all action alternatives are distant from the known populations of this species (more than 59 miles north of San Bernardino National Wildlife Refuge).
Yaqui chub ( <i>Gila purpurea</i> )	Fish	Endangered (Cochise)							AGFD Tier 1a		Designated Critical Habitat; not within Project ROW		This fish is known from one artesian well in the San Bernardino Creek National Wildlife Refuge and were introduced in Lesley Creek in Leslie Canyon National Wildlife Refuge in Cochise County, Arizona (AGFD 2001af, 2012aa). Elevations range from 4,000 to 6,000 feet (FWS 2013a).	Deep pools of small streams near undercut banks and debris; pools associated with springheads, and artificial ponds (FWS 2013a).	None. The proposed Project and all action alternatives are distant from the known populations of this species.

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Yaqui topminnow ( <i>Poeciliopsis occidentalis sonoriensis</i> )	Fish	Endangered (Cochise)							AGFD Tier 1a				In Arizona, this small fish is known from the Rio Yaqui basin in the San Bernardino Wildlife Refuge (AGFD 2012aa; FWS 2010e), at elevations less than 4,500 feet (FWS 2013a).	Small to moderate-sized streams, springs, and cienegas. Generally found in shallow areas with aquatic vegetation or debris. Tolerates relatively high water temperatures and low dissolved oxygen (FWS 2013a).	None. The proposed Project and all action alternatives are distant from the known populations of this species.	
Cooke's Peak woodlandsnail ( <i>Ashmunella macromphala</i> )	Invertebrate	Petitioned for listing/Under Review (Luna)		Sensitive			Threatened					This small terrestrial snail is found on talus slopes of Cooke's Peak on the Black Range north of the town of Deming, and in OK Canyon of New Mexico (BISON-M 2010ad). Elevations range from 6,900 to 7,000 feet (BISON-M 2010ad).	Inhabits edge of talus slopes surrounded by oak trees (BISON-M 2010ad).	None. The proposed Project and all action alternatives are distant from the known populations of this species (more than 12 miles south of Cooke's Peak).		
Doña Ana talussnail ( <i>Sonorella todseni</i> )	Invertebrate	Petitioned for Listing/Under Review (Doña Ana)		Sensitive			NMDGF		Threatened			This small terrestrial snail is known to be restricted to the Doña Ana Mountains north of Las Cruces, New Mexico (BISON-M 2010ah; FWS 2009ac). Elevations average 5,760 feet.	Talus in mountainous areas with live oaks and xeric-adapted shrubs (BISON-M 2010ah).	None. The proposed Project and all action alternatives are distant from the highly restricted range of this species.		
Huachuca springsnail ( <i>Pyrgulopsis thompsoni</i> )	Invertebrate	Candidate (Cochise)												This very tiny snail is found in Springs in southern Santa Cruz and Cochise Counties, Arizona, and Sonora, Mexico (AGFD 2007ab). Elevation range of 4,500-7,200 feet (FWS 2010f).	Found on firm substances in aquatic areas, small springs with vegetation and slow to moderate flows (FWS 2013a).	None. The proposed Project and all action alternatives are distant from the known populations of this species in southern Cochise County.
San Bernardino springsnail ( <i>Pyrgulopsis bernardina</i> )	Invertebrate	Threatened (Cochise)							AGFD Tier 1b					This small snail is found in small seeps near San Bernardino Ranch in Arizona (AGFD 2006ac, 2007ab). Elevation of 3,806 feet (FWS 2013a).	Inhabits springs with firm substrate composed of cobble, gravel, woody debris, and aquatic vegetation (FWS 2013a).	None. The proposed Project and all action alternatives are distant from the known populations of this species (more than 50 miles north of San Bernardino Ranch).
San Xavier talussnail ( <i>Sonorella eremita</i> )	Invertebrate	Conservation Agreement (Pima)							AGFD Tier 1a		Conservation Area		This small terrestrial snail inhabits San Xavier Hill (White Hill) east of the town of San Xavier, Arizona (AGFD 2003ac). Elevations range from 3,850 to 3,920 feet (FWS 2013b).	Deep, northwest-facing limestone rockslides (FWS 2013b).	None. The proposed Project and all action alternatives are more than 10 miles from the known population of this species.	
Three Fork's springsnail ( <i>Pyrgulopsis trivialis</i> )	Invertebrate	Endangered (Greenlee)		Sensitive								Springs at Three Forks on the Black River, and tributaries of the Black River (Boneyard Creek and Bog) .	Springs and spring-fed creeks with firm substrate (AGFD 2013c).	None. The proposed Project and all action alternatives are distant from the highly restricted range of this species.		

**Table E-1.** Potential for Occurrence of Federal Endangered Species Act Listed, Proposed, and Candidate Species in the Analysis Area (Continued)

Species Common Name (Scientific [Latin] Name)	Species Group	Federal Status							State Status		Local Status		Species and Range	Habitat	Potential to Occur in Portions of the Analysis Area in which It Is Listed as a Special Status Species
		ESA (County)	MBTA	BLM (Field Office/District)	USFS Douglas District of CNF	BCC	BMC	BGEPA	SCGN	NM	SDCP	Special Designation Area(s)			
Wet Canyon talussnail ( <i>Sonorella macrophallus</i> )	Invertebrate	Conservation Agreement (Graham)											Talus slopes in heavily vegetated area of Wet Canyon (Pinaleño Mountains) (FWS 2007).	Talus must be deep and largely free of excess sedimentation with stable moisture conditions. This species cannot be distinguished from other <i>Sonorella</i> species without dissection (FWS 2007).	None. The proposed Project and all action alternatives are distant from the highly restricted range of this species.
Black-footed ferret ( <i>Mustela nigripes</i> )	Mammal	Endangered (Grant)							AGFD Tier 1a				In 1992, this small mammal was reportedly the rarest mammal species in North America, no known natural populations exist in Arizona or New Mexico (BISON-M 2011ad). Two re-introduction sites in Arizona (Aubrey Valley and Espee Ranch) and one in New Mexico (Vermejo Park Ranch) (FWS 2012ae).	Mixed shrub at lower elevations below the mesas. Associated with prairie dogs, there only known food source (BISON-M 2011ad).	None. This species is extremely rare, there are no known prairie dog colonies within the proposed Project, and the Project ROW is distant from any re-introduction sites.
Jaguar ( <i>Panthera onca</i> )	Mammal	Endangered (Hidalgo, Cochise, Pima)							AGFD Tier 1a, NMDGF		Proposed Critical Habitat; none in the Project ROW		The largest native cat to the Western Hemisphere, it historically is known from as far north as central Arizona, but currently known from Santa Rita, Baboquivari Mountains and the Peloncillo Mountains of Arizona. Rare in New Mexico (AGFD 2004av, 2012aa; FWS 2013a). Elevations range from 1,600 to 9,000 feet (FWS 2013a).	Found in Sonoran desertscrub up through subalpine conifer forest (FWS 2013a).	Unlikely. Although suitable habitat parameters may be present, the analysis area is not within the species' typical range. Proposed critical habitat for the jaguar would occur in route groups 2, 3 and 4. In route group 2, it would be 40 miles south of the proposed Project and all action alternatives, in route group 3 it would be 3 miles south, and in route group 4 it would be 5 miles south of proposed critical habitat.
Lesser long-nosed bat ( <i>Leptonycteris curasoae yerbabuena</i> )	Mammal	Endangered (Hidalgo, Greenlee, Graham, Cochise, Pima, Pinal)							AGFD Tier 1a, NMDGF	Threatened	PVS		This nectar feeding bat is found in central California, southern Arizona, and New Mexico (AGFD 2011ad, 2012aa). In New Mexico, this species is found in Guadalupe Canyon and Clanton Canyon of the Peloncillo Mountains and at OK Bar Ranch, Doubly Adobe Canyon, and Robertson Ranch in the Animas Mountains of extreme southwestern Hidalgo County (BISON-M 2012ac). Roosts are found in several sky island mountains in southeastern Arizona including Big Dragoon, Rincon, and Santa Catalina Mountains (AGFD 2012aa). Elevations range from 1,600 to 11,500 feet (FWS 2013a).	Desertscrub habitat with agave and columnar cacti present as food source. Roosts in caves and abandoned mines (FWS 2013a).	Possible. The analysis area is within the typical range of the species and suitable habitat parameters may be present.

**Table E-1.** Potential for Occurrence of Federal Endangered Species Act Listed, Proposed, and Candidate Species in the Analysis Area (Continued)

Species Common Name (Scientific [Latin] Name)	Species Group	Federal Status							State Status		Local Status		Species and Range	Habitat	Potential to Occur in Portions of the Analysis Area in which It Is Listed as a Special Status Species
		ESA (County)	MBTA	BLM (Field Office/District)	USFS Douglas District of CNF	BCC	BMC	BGEPA	SCGN	NM	SDCP	Special Designation Area(s)			
Mexican gray wolf ( <i>Canis lupus baileyi</i> )	Mammal	Endangered/Experimental, Non-essential Population (Grant, Hidalgo, Greenlee)							AGFD Tier 1a, NMDGF	Endangered			This wolf has been re-introduced into the Blue Range Wolf Recovery Area on the AZ/NM border (BISON-M 2010af). This species has been found historically in southeastern Arizona, New Mexico and West Texas, and south to Mexico (AGFD 2001aj). Elevations range from approx. 4,000 to 9,000 feet (BISON-M 2010af).	Forested and grasslands areas with an abundance of large prey (BISON-M 2010af).	Unlikely. Although the analysis area is within the dispersal distances of the species, no habitat suitable for wolf habitation is present. Any wolves present in the analysis area would be dispersing and the analysis area is not within the species' typical occupied range.
Mexican long-nosed bat ( <i>Leptonycteris nivalis</i> )	Mammal	Endangered (Hidalgo, Cochise)							NMDGF	Endangered	PVS		Roost sites for this bat are found in the Peloncillo and Chiricahua Mountains of western Hidalgo County, New Mexico as well as eastern Cochise County, Arizona. Elevations range from 4,600 to 6,200 feet (BISON-M 2010ac).	Caves and mines near ocotillo, yucca, agave, manzanita, oaks, and juniper (BISON-M 2010ac).	Possible. The analysis area is within the typical range of the species and suitable habitat parameters may be present.
Mount Graham red squirrel ( <i>Tamiascurus hudsonicus grahamensis</i> )	Mammal	Endangered (Graham)											This rare squirrel's distribution is limited to higher elevation spruce-fir and old growth Douglas-fir forests in the Pinaleno Mountains (FWS 2013i).	Montane conifer forests from spruce-fir to mixed conifer (FWS 2013i).	None. The proposed Project is distant from the highly restricted range of this species.
New Mexico meadow jumping mouse ( <i>Zapus hudsonius luteus</i> )	Mammal	Endangered (Graham, Greenlee)										Proposed Critical Habitat; none within Project ROW	This mouse is endemic to New Mexico, Arizona, and a small area of southern Colorado (FWS 2007a). In Arizona, populations occupy the White Mountains in southern Apache County and in northern Greenlee County. In New Mexico, they have been found in the San Juan, Sangre de Cristo, Jemez, and Sacramento Mountains, the Rio Grande Valley, and the lower Rio Chama Valley (FWS 2013l).	This small rodent nests in dry soils but uses moist, streamside, dense riparian/wetland vegetation from elevations ranging from 4,500 to 8,000 feet amsl, only using two riparian community types: persistent emergent herbaceous wetlands and scrub-shrub wetlands (riparian area along perennial streams that are composed of willows and alders.) Uses microhabitats of patches or stringers of tall dense sedges on moist soil along the edge of permanent water (FWS 2013l).	None. The proposed Project is distant from the mountains and valleys from which populations of this species are found.
Ocelot ( <i>Leopardus [Felis] pardalis</i> )	Mammal	Endangered (Graham, Cochise, Pima, Pinal)							AGFD Tier 1a				This small cat species occurs within a limited region in the United States (remnant populations in southern Texas, and transient populations in southeastern Arizona). Present south to Argentina (AGFD 2010ae). Elevations below 8,000 feet (FWS 2013a).	Inhabits desertscrub of Arizona. Humid tropical forests and savannas in areas south of the U.S. (FWS 2013a).	Unlikely. Although suitable habitat parameters may be present, the analysis area is not within the species' typical range.

**Table E-1.** Potential for Occurrence of Federal Endangered Species Act Listed, Proposed, and Candidate Species in the Analysis Area (Continued)

Species Common Name (Scientific [Latin] Name)	Species Group	Federal Status							State Status		Local Status		Species and Range	Habitat	Potential to Occur in Portions of the Analysis Area in which It Is Listed as a Special Status Species
		ESA (County)	MBTA	BLM (Field Office/District)	USFS Douglas District of CNF	BCC	BMC	BGEPA	SCGN	NM	SDCP	Special Designation Area(s)			
Sonoran pronghorn ( <i>Antilocapra americana sonoriensis</i> )	Mammal	Endangered (Pima)							AGFD Tier 1a, NMDGF			Within the 10 (j) area for Sonoran pronghorn recovery	In southwestern Arizona, this large mammal is found in a small population, south of Interstate 8, west of Highway 85, and east of the Copper and Cabeza Prieta Mountains (AGFD 2002ah, 2004at) at elevations ranging from 2,000 to 4,000 feet (FWS 2013b).	Broad, intermountain, alluvial valleys with creosote-bursage and palo verde-mixed cacti associations (FWS 2013b).	None. The proposed Project is distant from the known populations of this species.
New Mexico ridge-nosed rattlesnake ( <i>Crotalus willardi obscurus</i> )	Reptile	Threatened (Hidalgo, Cochise)							AGFD Tier 1a, NMDGF	Endangered		Designated Critical Habitat; not within Project ROW	This rattlesnake is found in the Peloncillo Mountains of Arizona and New Mexico, and the Animas Mountains of New Mexico (AGFD 2001ak) in the extreme southwestern New Mexico and extreme southeastern Arizona (FWS 2002). Elevations range from 5,000 to 6,600 feet (FWS 2013a).	Canyon bottoms with pine-oak communities (FWS 2013a).	None. The proposed Project is more than 30 miles north of the known populations of this species.
Northern Mexican gartersnake ( <i>Thamnophis eques megalops</i> )	Reptile	Threatened (Grant, Hidalgo, Graham, Greenlee Cochise, Pima, Pinal)			Sensitive				AGFD Tier 1b	Endangered	PVS	Proposed Critical Habitat present at the crossings of the San Pedro River and Cienega Creek	This small semi-aquatic snake is likely extirpated from New Mexico and is likely extant in fragmented populations within the middle/upper Verde River drainage, middle/lower Tonto Creek, and the Cienega Creek drainage, as well as, a small number of isolated wetland habitats in southeastern Arizona (AGFD 2012ae; FWS 2013m). Elevations range from 130 to 8,500 feet (FWS 2013a).	Inhabits cienegas, stock tanks, large-river riparian woodlands and forests, streamside gallery forests (FWS 2013a).	Possible. The analysis area is within the typical range of the species and suitable habitat parameters may be present.
Sonoran desert tortoise ( <i>Gopherus [agassizii] morafkai</i> )*	Reptile	Candidate (Graham, Cochise, Pima, Pinal)			Sensitive								In Arizona, the Mojave population is present north and west of the Colorado River, the Sonoran population occurs south and east of the Colorado River (AGFD 2004ax, 2010ag). Elevations range from less than 7,800 feet (FWS 2013a).	Rocky (often steep) hillsides and bajadas of Mojave and Sonoran Desertscrub but may encroach into desert grassland, juniper woodland, interior chaparral habitats, and even pine communities. Washes and valley bottoms may be used in dispersal (FWS 2013a).	Possible. The analysis area is within the typical range of the species and suitable habitat parameters may be present.
Sonoyta mud turtle ( <i>Kinosternon sonoriense longifermorale</i> )	Reptile	Candidate (Pima)							AGFD Tier 1a				This turtle occupies stream habitat at Quitobaquito Springs in Organ Pipe Cactus National Monument, Arizona and a few locations in nearby Rio Sonoyta of Sonora, Mexico (AGFD 2005ad). Elevation at Quitobaquito Springs is 1,100 feet (FWS 2013b).	Inhabits ponds and streams (FWS 2013b).	None. The proposed Project is distant from the known populations of this species.

\* On October 6, 2015, FWS determined the Sonoran desert tortoise does not warrant protection under the ESA as a candidate species.

**Table E-1.** Potential for Occurrence of Federal Endangered Species Act Listed, Proposed, and Candidate Species in the Analysis Area (Continued)

Species Common Name (Scientific [Latin] Name)	Species Group	Federal Status							State Status		Local Status		Species and Range	Habitat	Potential to Occur in Portions of the Analysis Area in which It Is Listed as a Special Status Species
		ESA (County)	MBTA	BLM (Field Office/District)	USFS Douglas District of CNF	BCC	BMC	BGEPA	SCGN	NM	SDCP	Special Designation Area(s)			
Tucson shovel-nosed snake ( <i>Chionactis occipitalis klauberi</i> )	Reptile	September 2014 Determined to not warrant listing under the ESA.		Sensitive					AGFD Tier 1b		PVS		This small snake is restricted to south-central Arizona in Pima, western Pinal, and eastern Maricopa counties (AGFD 2010af, 2012aa). Known to occur west of Tucson northward along Avra Valley (AGFD 2010af). Elevations range from 785 to 1,662 feet (FWS 2013b).	Found in Sonoran desertscrub, in which it is associated with soft, sandy soils having sparse gravel (FWS 2010, 2013b).	Possible. The analysis area is within the typical range of the species and suitable habitat parameters may be present.

**Table E-2.** Potential for Occurrence of Federal Endangered Species Act Listed Species in Each Route Group and Alternatives

Species Common Name (Scientific [Latin] Name)	Species Group	Route Group 1 Afton to Hidalgo				Route Group 2 Hidalgo to Apache															
		Agency Preferred	Proponent Preferred	Proponent's Alternative	DN1 Alternative	Agency Preferred	Proponent Preferred	Proponent's Alternative	LD1 Alternative	LD2 Alternative	LD3a Alternative	LD3b Alternative	LD4 Alternative	LD4 Option 4 Alternative	LD4 Option 5 Alternative	WC1 Alternative	P7a Route Variation	P7b Route Variation	P7c Route Variation	P7d Route Variation	
Mexican spotted owl ( <i>Strix occidentalis lucida</i> )	Bird	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	
Sonoran desert tortoise ( <i>Gopherus [agassizii] morafkai</i> )	Reptile	None	None	None	None	None	Unlikely	Unlikely	None	None	None	None	None	None	None	None	None	None	None	None	
Western yellow-billed cuckoo ( <i>Coccyzus americanus occidentalis</i> )	Bird	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	
Northern Mexican gartersnake ( <i>Thamnophis eques megalops</i> )	Reptile	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	
Sprague's pipit ( <i>Anthus spragueii</i> )	Bird	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Unlikely	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	
Cactus ferruginous pygmy-owl ( <i>Glaucidium brasilianum cactorum</i> )	Bird	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	
Southwestern willow flycatcher ( <i>Empidonax traillii extimus</i> )	Bird	None	None	None	None	None	Possible	Possible	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	None	None	None	None	
Lesser long-nosed bat ( <i>Leptonycteris curasoae yerbabuena</i> )	Mammal	None	None	None	None	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	
Northern aplomado falcon ( <i>Falco femoralis septentrionalis</i> )	Bird	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Unlikely	Possible	Possible	Possible	Possible	Possible	Possible	None	None	None	None	None	
Ocelot ( <i>Leopardus [Felis] pardalis</i> )	Mammal	None	None	None	None	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	None	None	None	None	None	None	None	None	None	
Least tern (Interior population) ( <i>Sterna antillarum</i> )	Bird	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	
Gila chub ( <i>Gila intermedia</i> )	Fish	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	
Gila topminnow ( <i>Poeciliopsis occidentalis occidentalis</i> )	Fish	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	
Jaguar ( <i>Panthera onca</i> )	Mammal	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	
California least tern ( <i>Sterna antillarum browni</i> )	Bird	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	
Chiricahua leopard frog ( <i>Lithobates [Rana] chiricahuensis</i> )	Amphibian	None	None	None	None	Unlikely	Possible	Possible	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	None	None	None	None	

**Table E-3.** Potential for Occurrence of Federal Endangered Species Act Listed Species in Each Route Group and Alternatives

Species Common Name (Scientific [Latin] Name)	Species Group	Route Group 3 Apache to Pantano			Route Group 4 Pantano to Saguaro											
		Agency Preferred	Proponent Preferred	Alternative H	Agency Preferred	Proponent Preferred	Proponent's Alternative	U3aPC Route Variation	TH1a Alternative	TH1b Alternative	TH1 Option Alternative	TH3a Alternative	TH3b Alternative	TH3 Option A Alternative	TH3 Option B Alternative	MA1 Alternative
Mexican spotted owl ( <i>Strix occidentalis lucida</i> )	Bird	Unlikely	Unlikely	None	None	None	None	None	None	None	None	None	None	None	None	None
Sonoran desert tortoise ( <i>Gopherus [agassizii] morafkai</i> )	Reptile	Possible	Possible	Possible	Possible	Possible	N/A	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Unlikely
Western yellow-billed cuckoo ( <i>Coccyzus americanus occidentalis</i> )	Bird	Possible	Possible	None	Possible	Possible	Possible	None	None	None	None	None	None	None	None	None
Northern Mexican gartersnake ( <i>Thamnophis eques megalops</i> )	Reptile	Possible; proposed CH in the San Pedro River and Cienega Creek	Possible; proposed CH in the San Pedro River and Cienega Creek	Possible; proposed CH in the San Pedro River	None	None	None	None	None	None	None	None	None	None	None	None
Sprague's pipit ( <i>Anthus spragueii</i> )	Bird	Possible	Possible	Possible	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	None
Cactus ferruginous pygmy-owl ( <i>Glaucidium brasilianum cactorum</i> )	Bird	None	None	None	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	None
Southwestern willow flycatcher ( <i>Empidonax traillii extimus</i> )	Bird	Possible	Possible	None	Possible	Possible	Possible	None	None	None	None	None	None	None	None	None
Lesser long-nosed bat ( <i>Leptonycteris curasoae yerbabuena</i> )	Mammal	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible
Northern aplomado falcon ( <i>Falco femoralis septentrionalis</i> )	Bird	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Ocelot ( <i>Leopardus [Felis] pardalis</i> )	Mammal	Unlikely	Unlikely	None	Unlikely	Unlikely	Unlikely	Unlikely	None	None	None	None	None	None	None	None
Least tern (Interior population) ( <i>Sterna antillarum</i> )	Bird	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Gila chub ( <i>Gila intermedia</i> )	Fish	Unlikely	Unlikely	None	Unlikely	Unlikely	Unlikely	None	None	None	None	None	None	None	None	None
Gila topminnow (Poeciliopsis occidentalis occidentalis)	Fish	Unlikely	Unlikely	None	Unlikely	Unlikely	Unlikely	None	None	None	None	None	None	None	None	None
Jaguar ( <i>Panthera onca</i> )	Mammal	Unlikely	Unlikely	None	Unlikely	Unlikely	Unlikely	Unlikely	None	None	None	None	None	None	None	None
California least tern ( <i>Sterna antillarum browni</i> )	Bird	None	None	None	Unlikely	Unlikely	Unlikely	Unlikely	None	None	None	None	None	None	None	None
Chiricahua leopard frog ( <i>Lithobates [Rana] chiricahuensis</i> )	Amphibian	Unlikely	Unlikely	None	Unlikely	Unlikely	Unlikely	Unlikely	None	None	None	None	None	None	None	None

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