Arizona Environmental Online Review Tool Report

Arizona Game and Fish Department Mission
To conserve Arizona's diverse wildlife resources and manage for safe, compatible outdoor recreation opportunities for current and future generations.

Project Name:
Gardner Canyon 1 - test of the ERT system.

Project Description:
Test of the ERT system, not an actual project

Project Type:
Forest, Woodland, Vegetation Management, Prescribed burn

Contact Person:
Rick Schneider

Organization:
NatureServe

On Behalf Of:
OTHER

Project ID:
HGIS-09905

Please review the entire report for project type and/or species recommendations for the location information entered. Please retain a copy for future reference.

Disclaimer:

1. This Environmental Review 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.
2. 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 is also not intended to replace environmental consultation (including federal consultation under the Endangered Species Act), land use permitting, or the Departments review of site-specific projects.
3. The Departments Heritage Data Management System (HDMS) data is not intended to include potential distribution of special status species. Arizona 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. HDMS data contains information about species occurrences that have actually been reported to the Department. Not all of Arizona 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.
4. HabiMap Arizona data, specifically Species of Greatest Conservation Need (SGCN) under our State Wildlife Action Plan (SWAP) and Species of Economic and Recreational Importance (SERI), represent potential species distribution models for the State of Arizona which are subject to ongoing change, modification and refinement. The status of a wildlife resource can change quickly, and the availability of new data will necessitate a refined assessment.

Locations 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.

Recommendations Disclaimer:

1. The Department is interested in the conservation of all fish and wildlife resources, including those species listed in this report and those that may have not been documented within the project vicinity as well as other game and nongame wildlife.
2. Recommendations have been made by the Department, under authority of Arizona Revised Statutes Title 5 (Amusements and Sports), 17 (Game and Fish), and 28 (Transportation).
3. Potential impacts to fish and wildlife resources may be minimized or avoided by the recommendations generated from information submitted for your proposed project. These recommendations are preliminary in scope, designed to provide early considerations on all species of wildlife.
4. Making this information directly available does not substitute for the Department's review of project proposals, and should not decrease our opportunity to review and evaluate additional project information and/or new project proposals.
5. Further coordination with the Department requires the submittal of this Environmental Review Report with a cover letter and project plans or documentation that includes project narrative, acreage to be impacted, how construction or project activity(s) are to be accomplished, and project locality information (including site map). Once AGFD had received the information, please allow 30 days for completion of project reviews. Send requests to:
   Project Evaluation Program, Habitat Branch
   Arizona Game and Fish Department
   5000 West Carefree Highway
   Phoenix, Arizona 85086-5000
   Phone Number: (623) 236-7600
   Fax Number: (623) 236-7366
   Or
   PEP@azgfd.gov
6. Coordination may also be necessary under the National Environmental Policy Act (NEPA) and/or Endangered Species Act (ESA). Site specific recommendations may be proposed during further NEPA/ESA analysis or through coordination with affected agencies

Gardner Canyon 1 - test of the ERT system.

USA Topo Basemap With Locator Map

Project Boundary

Buffered Project Boundary

Project Size (acres): 1,178.35

Lat/Long (DD): 31.7146 / -110.7570

County(s): Santa Cruz

AGFD Region(s): Tucson

Township/Range(s): T20S, R15E; T20S, R16E

USGS Quad(s): MOUNT WRIGHTSON; SONOITA

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap

Gardner Canyon 1 - test of the ERT system.

Web Map As Submitted By User

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Arizona Game and Fish Department - GIS Program

Gardner Canyon 1 - test of the ERT system.

Important Areas

- Project Boundary
- Buffered Project Boundary

County Stakeholder Assessment

- Wildlife Crossing Area
- Wildlife Movement Area - Diffuse
- Wildlife Movement Area - Landscape
- Wildlife Movement Area - Riparian/Wash
- Wildlife Connectivity
- Important Connectivity Zones
- Pinal County Riparian
- Critical Habitat
- Important Bird Areas

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Gardner Canyon 1 - test of the ERT system.

Township/Ranges and Land Ownership

- Project Boundary
- Buffered Project Boundary
- Township/Ranges

Land Ownership

- AZ Game & Fish Dept.
- BLM
- BOR
- Indian Res.
- Military
- Mixed/Other
- National Park/Mon.
- Private
- State & Regional Parks
- State Trust
- US Forest Service
- Wildlife Area/Refuge

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Special Status Species Documented within 5 Miles of Project Vicinity

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Accipiter gentilis	Northern Goshawk	SC	S	S		1B
Agosia chrysogaster chrysogaster	Gila Longfin Dace	SC		S		1B
Ammodramus savannarum ammolegus	Arizona grasshopper sparrow		S	S		1B
Aquila chrysaetos	Golden Eagle	BGA		S		1B
Argia sabino	Sabino Canyon Dancer	SC	S			
Aspidoscelis stictogramma	Giant Spotted Whiptail	SC	S			1B
Baiomys taylori	Northern Pygmy Mouse		S			
Bat Colony						
Buteo plagiatus	Gray Hawk	SC				
Carex chihuahuensis	Chihuahuan Sedge		S			
Carex ultra	Cochise Sedge		S	S		
Choeronycteris mexicana	Mexican Long-tongued Bat	SC	S	S		1C
Coccyzus americanus	Yellow-billed Cuckoo (Western DPS)	LT	S			1A
Corynorhinus townsendii pallescens	Pale Townsend's Big-eared Bat	SC	S	S		1B
Crotalus lepidus klauberi	Banded Rock Rattlesnake					1A
Crotalus pricei	Twin-spotted Rattlesnake		S			1A
Crotalus willardi willardi	Arizona Ridge-nosed Rattlesnake		S			1A
Echinocereus santaritensis	Santa Rita Hedgehog Cactus				SR	
Erigeron arisolius	Arid Throne Fleabane		S			
Falco peregrinus anatum	American Peregrine Falcon	SC	S	S		1A
Gopherus morafkai	Sonoran Desert Tortoise	CCA	S	S		1A
Graptopetalum bartramii	Bartram Stonecrop	SC	S	S	SR	
Gyalopion quadrangulare	Thornscrub Hook-nosed Snake		S			1B
Heterotheca rutteri	Huachuca Golden Aster	SC	S	S		
Hexalectris arizonica	Arizona Crested coral-root		S		SR	
Hexalectris colemanii	Coleman's coral-root		S		SR	
Hypsiglena sp. nov.	Hooded Nightsnake					1B
Kinosternon sonoriense sonoriense	Desert Mud Turtle			S		1B
Leopardus pardalis	Ocelot	LE				1A
Leptonycteris yerbabuenae	Lesser Long-nosed Bat	SC				1A
Lilaeopsis schaffneriana ssp. recurva	Huachuca Water-umbel	LE			HS	
Lilium parryi	Lemon Lily	SC	S		SR	
Lithobates chiricahuensis	Chiricahua Leopard Frog	LT				1A
Lithobates tarahumarae	Tarahumara Frog	SC	S			1A
Lithobates yavapaiensis	Lowland Leopard Frog	SC	S	S		1A
Lupinus huachucanus	Huachuca Mountain Lupine		S			
Malaxis corymbosa	Madrean Adder's Mouth				SR	
Malaxis porphyrea	Purple Adder's Mouth				SR	

Special Status Species Documented within 5 Miles of Project Vicinity

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Mammillaria wrightii var. wilcoxii	Wilcox Fishhook Cactus				SR	
Muhlenbergia elongata	Sycamore Muhly		S			
Muhlenbergia palmeri	Palmer's Muhly		S			
Myotis velifer	Cave Myotis	SC		S		1B
Panthera onca	Jaguar	LE				1A
Plestiodon callicephalus	Mountain Skink		S			
Poeciliopsis occidentalis occidentalis	Gila Topminnow	LE				1A
Potentilla rhyolitica var. rhyolitica	Huachuca Cinquefoil		S			
Pyrgulopsis thompsoni	Huachuca Springsnail	CCA	S			1A
Samolus vagans	Chiricahua Mountain Brookweed		S			
Sceloporus slevini	Slevin's Bunchgrass Lizard		S	S		1B
Schiedeella arizonica	Fallen Ladies'-tresses				SR	
Senecio multidentatus var. huachucanus	Huachuca Groundsel		S		HS	
Senticolis triaspis intermedia	Northern Green Ratsnake		S			1B
Sigmodon ochrognathus	Yellow-nosed Cotton Rat	SC				1C
Sisyrinchium cernuum	Nodding Blue-eyed Grass		S			
Sorex arizonae	Arizona Shrew	SC	S			1B
Strix occidentalis lucida	Mexican Spotted Owl	LT				1A
Tantilla wilcoxi	Chihuahuan Black-headed Snake		S			1B
Terrapene ornata luteola	Desert Box Turtle			S		1A
Tragia laciniata	Sonoran Noseburn		S			
Trogon elegans	Elegant Trogon		S			1B
Tuberochernes ubicki	A Cave Obligate Pseudoscorpion		S			

Note: Status code definitions can be found at https://www.azgfd.com/wildlife/planning/wildlifeguidelines/statusdefinitions/
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Special Areas Documented within the Project Vicinity

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
CH for Panthera onca	Jaguar Designated Critical Habitat					
Gardner Canyon	Pima County Wildlife Movement Area - Riparian/Wash					
Important Connectivity Zone	Wildlife Connectivity					
Santa Rita Experimental Range/Coronado National Forest Wildland Block	Pima County Wildlife Movement Area - Diffuse					
Santa Rita Mountains IBA	Important Bird Area					

Note: Status code definitions can be found at https://www.azgfd.com/wildlife/planning/wildlifeguidelines/statusdefinitions/
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Species of Greatest Conservation Need Predicted within the Project Vicinity based on Predicted Range Models

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Aix sponsa	Wood Duck					1B
Amazilia violiceps	Violet-crowned Hummingbird		S			1B
Ammodramus savannarum ammolegus	Arizona grasshopper sparrow		S	S		1B
Ammodramus savannarum perpallidus	Western Grasshopper Sparrow					1B
Ammospermophilus harrisii	Harris' Antelope Squirrel					1B
Anthus spragueii	Sprague's Pipit	SC				1A
Antilocapra americana americana	American Pronghorn					1B
Antrostomus ridgwayi	Buff-collared Nightjar		S			1B
Aquila chrysaetos	Golden Eagle	BGA		S		1B
Athene cunicularia hypugaea	Western Burrowing Owl	SC	S	S		1B
Buteo regalis	Ferruginous Hawk	SC		S		1B
Buteo swainsoni	Swainson's Hawk					1C
Callipepla squamata	Scaled Quail					1C
Chordeiles minor	Common Nighthawk					1B
Coccyzus americanus	Yellow-billed Cuckoo (Western DPS)	LT	S			1A
Coluber bilineatus	Sonoran Whipsnake					1B
Corynorhinus townsendii pallescens	Pale Townsend's Big-eared Bat	SC	S	S		1B
Craugastor augusti	Barking Frog					1B
Crotalus lepidus	Rock Rattlesnake					1A
Crotalus tigris	Tiger Rattlesnake					1B
Crotalus willardi	Ridge-nosed Rattlesnake	PS				1A
Cynanthus latirostris	Broad-billed Hummingbird		S			1B
Cynomys ludovicianus	Black-tailed Prairie Dog	CCA		S		1A
Cyrtonyx montezumae	Montezuma Quail					1C
Dipodomys spectabilis	Banner-tailed Kangaroo Rat			S		1B
Empidonax traillii extimus	Southwestern Willow Flycatcher	LE				1A
Euderma maculatum	Spotted Bat	SC	S	S		1B
Eumops perotis californicus	Greater Western Bonneted Bat	SC		S		1B
Falco peregrinus anatum	American Peregrine Falcon	SC	S	S		1A
Glaucidium gnoma gnoma	Mountain Pygmy-owl					1B
Haliaeetus leucocephalus	Bald Eagle	SC, BGA	S	S		1A
Heloderma suspectum	Gila Monster					1A
Hypsiglena sp. nov.	Hooded Nightsnake					1B
Incilius alvarius	Sonoran Desert Toad					1B
Kinosternon sonoriense sonoriense	Desert Mud Turtle			S		1B
Lampornis clemenciae	Blue-throated Hummingbird					1B
Lasiurus blossevillii	Western Red Bat		S			1B

Species of Greatest Conservation Need Predicted within the Project Vicinity based on Predicted Range Models

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Lasiurus xanthinus	Western Yellow Bat		S			1B
Leopardus pardalis	Ocelot	LE				1A
Leptonycteris yerbabuenae	Lesser Long-nosed Bat	SC				1A
Lepus alleni	Antelope Jackrabbit					1B
Lithobates chiricahuensis	Chiricahua Leopard Frog	LT				1A
Lithobates tarahumarae	Tarahumara Frog	SC	S			1A
Lithobates yavapaiensis	Lowland Leopard Frog	SC	S	S		1A
Megascops trichopsis	Whiskered Screech-owl		S			1B
Meleagris gallopavo mexicana	Gould's Turkey		S			1B
Melospiza lincolnii	Lincoln's Sparrow					1B
Micrathene whitneyi	Elf Owl					1C
Micruroides euryxanthus	Sonoran Coralsnake					1B
Myiarchus tuberculifer	Dusky-capped Flycatcher					1B
Myiarchus tyrannulus	Brown-crested Flycatcher					1C
Myiodynastes luteiventris	Sulphur-bellied Flycatcher		S			1B
Myotis occultus	Arizona Myotis	SC		S		1B
Myotis velifer	Cave Myotis	SC		S		1B
Myotis yumanensis	Yuma Myotis	SC				1B
Notiosorex cockrumi	Cockrum's Desert Shrew					1B
Nyctinomops femorosaccus	Pocketed Free-tailed Bat					1B
Odocoileus virginianus	White-tailed Deer					1B
Oreoscoptes montanus	Sage Thrasher					1C
Panthera onca	Jaguar	LE				1A
Passerculus sandwichensis	Savannah Sparrow					1B
Peucaea botterii arizonae	Arizona Botteri's Sparrow			S		1B
Picoides arizonae	Arizona Woodpecker		S			1B
Progne subis hesperia	Desert Purple Martin			S		1B
Sceloporus slevini	Slevin's Bunchgrass Lizard		S	S		1B
Sciurus arizonensis	Arizona Gray Squirrel					1B
Senticolis triaspis	Green Ratsnake		S			1B
Setophaga petechia	Yellow Warbler					1B
Sialia sialis fulva	Azure Bluebird					1B
Sphyrapicus nuchalis	Red-naped Sapsucker					1C
Spizella atrogularis	Black-chinned Sparrow					1C
Spizella breweri	Brewer's Sparrow					1C
Strix occidentalis lucida	Mexican Spotted Owl	LT				1A
Sturnella magna	Eastern Meadowlark					1C
Tadarida brasiliensis	Brazilian Free-tailed Bat					1B
Tantilla wilcoxi	Chihuahuan Black-headed Snake		S			1B

Species of Greatest Conservation Need Predicted within the Project Vicinity based on Predicted Range Models

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Tantilla yaquia	Yaqui Black-headed Snake		S			1B
Terrapene ornata	Ornate Box Turtle					1A
Thamnophis eques megalops	Northern Mexican Gartersnake	LT	S			1A
Thomomys umbrinus intermedius	Southern Pocket Gopher					1B
Troglodytes pacificus	Pacific Wren					1B
Trogon elegans	Elegant Trogon		S			1B
Vireo bellii arizonae	Arizona Bell's Vireo					1B
Vulpes macrotis	Kit Fox	No Status				1B

Species of Economic and Recreation Importance Predicted within the Project Vicinity

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Cyrtonyx montezumae	Montezuma Quail					1C
Odocoileus hemionus	Mule Deer					
Odocoileus virginianus	White-tailed Deer					1B
Patagioenas fasciata	Band-tailed Pigeon					1C
Pecari tajacu	Javelina					
Puma concolor	Mountain Lion					
Sciurus nayaritensis	Mexican Fox Squirrel					
Ursus americanus	American Black Bear					
Zenaida asiatica	White-winged Dove					
Zenaida macroura	Mourning Dove					

Project Type: Forest, Woodland, Vegetation Management, Prescribed burn

Project Type Recommendations:
Minimization and mitigation of impacts to wildlife and fish species due to changes in water quality, quantity, chemistry, temperature, and alteration to flow regimes (timing, magnitude, duration, and frequency of floods) should be evaluated. Minimize impacts to springs, in-stream flow, and consider irrigation improvements to decrease water use. If dredging is a project component, consider timing of the project in order to minimize impacts to spawning fish and other aquatic species (include spawning seasons), and to reduce spread of exotic invasive species. We recommend early direct coordination with Project Evaluation Program for projects that could impact water resources, wetlands, streams, springs, and/or riparian habitats.

Habitat restoration recommendations are dependant on habitat communities, target species, species located within the project area, site history, restoration goals, and treatment types. General project scoping should include defined project goals with measurable success criteria, site evaluation (e.g., soil conditions, local and watershed hydrological conditions and regimes), pre-project fish and wildlife surveys to determine project impacts and baseline data for post-project evaluation, established plan and methods for site preparation and revegetation (plant species evaluation based on current or expected site environmental conditions), consideration/incorporation of wildlife habitat features that may be secondary to project objectives (e.g., retaining snags for roost sites) and effects to habitat and wildlife at landscape scales (broader than project area), post-project monitoring plans and funding commitments, and an adaptive management plan. We recommend early coordination with Department personnel on project designs. Contact information can be found at https://www.azgfd.com/Agency/Offices or email our Project Evaluation Program at PEP@azgfd.gov

Based on the project type entered, coordination with State Historic Preservation Office may be required (http://azstateparks.com/SHPO/index.html).

Consider incorporating project components that may allow for the inclusion to promote, enhance, create, or restore wildlife habitat. Contact Project Evaluation Program for further information and opportunities, PEP@azgfd.gov or (623) 236-7600 or https://www.azgfd.com/agency/offices/

Based on the project type entered, coordination with U.S. Fish and Wildlife Service (Migratory Bird Treaty Act) may be required (http://www.fws.gov/southwest/es/arizona/).

Project Location and/or Species Recommendations:
HDMS records indicate that one or more native plants listed on the **Arizona Native Plant Law and Antiquities Act** have been documented within the vicinity of your project area. Please contact:
Arizona Department of Agriculture
1688 W Adams St.
Phoenix, AZ 85007
Phone: 602.542.4373
https://agriculture.az.gov/sites/default/files/Native%20Plant%20Rules%20-%20AZ%20Dept%20of%20Ag.pdf starts on page 44

HDMS records indicate that one or more **Listed, Proposed, or Candidate** species or **Critical Habitat** (Designated or Proposed) have been documented in the vicinity of your project. The Endangered Species Act (ESA) gives the US Fish and Wildlife Service (USFWS) regulatory authority over all federally listed species. Please contact USFWS Ecological Services Offices at http://www.fws.gov/southwest/es/arizona/ or:

Phoenix Main Office
9828 North 31st Avenue #C3
Phoenix, AZ 85051-2517
Phone: 602-242-0210
Fax: 602-242-2513

Tucson Sub-Office
201 N. Bonita Suite 141
Tucson, AZ 85745
Phone: 520-670-6144
Fax: 520-670-6155

Flagstaff Sub-Office
SW Forest Science Complex
2500 S. Pine Knoll Dr.
Flagstaff, AZ 86001
Phone: 928-556-2157
Fax: 928-556-2121

HDMS records indicate that **Sonoran Desert Tortoise** have been documented within the vicinity of your project area. Please review the Tortoise Handling Guidelines found at: https://www.azgfd.com/wildlife/nongamemanagement/tortoise/

HDMS records indicate that **Chiricahua Leopard Frogs** have been documented within the vicinity of your project area. Please review the Chiricahua Leopard Frog Management Guidelines found at:
https://www.azgfd.com/PortalImages/files/wildlife/planningFor/wildlifeFriendlyGuidelines/FINALLithchirHabitatGdlns.pdf

HDMS records indicate that **Lesser Long-nosed Bats** have been documented within the vicinity of your project area. Please review the Lesser Long-nosed Bat Management Guidelines at: https://www.azgfd.com/PortalImages/files/wildlife/planningFor/wildlifeFriendlyGuidelines/FINALlecuyeHabitatGdln.pdf

HDMS records indicate that **Peregrine Falcons** have been documented within the vicinity of your project area. Please review the Peregrine Falcon Management Guidelines at:
https://www.azgfd.com/PortalImages/files/wildlife/planningFor/wildlifeFriendlyGuidelines/peregrineFalconConservGuidelines.pdf.

The analysis has detected one or more **Important Bird Areas** within your project vicinity. Please see http://aziba.org/?page_id=38 for details about the Important Bird Area(s) identified in the report.

Analysis indicates that your project is located in the vicinity of an identified ***wildlife habitat connectivity feature***. The **County-level Stakeholder Assessments** contain five categories of data (Barrier/Development, Wildlife Crossing Area, Wildlife Movement Area- Diffuse, Wildlife movement Area- Landscape, Wildlife Movement Area- Riparian/Washes) that provide a context of select anthropogenic barriers, and potential connectivity. The reports provide recommendations for opportunities to preserve or enhance permeability. Project planning and implementation efforts should focus on maintaining and improving opportunities for wildlife permeability. For information pertaining to the linkage assessment and wildlife species that may be affected, please refer to: https://www.azgfd.com/wildlife/planning/habitatconnectivity/identifying-corridors/.
Please contact the Project Evaluation Program (pep@azgfd.gov) for specific project recommendations.

Analysis indicates that your project is located in the vicinity of an identified ***wildlife habitat connectivity feature***.
The **Statewide Wildlife Connectivity Assessment's Important Connectivity Zones** (ICZs) represent general areas throughout the landscape which contribute the most to permeability of the whole landscape. ICZs may be used to help identify, in part, areas where more discrete corridor modeling ought to occur. The reports provide recommendations for opportunities to preserve or enhance permeability. Project planning and implementation efforts should focus on maintaining and improving opportunities for wildlife permeability. For information pertaining to the linkage assessment and wildlife species that may be affected, please refer to: https://s3.amazonaws.com/azgfd-portal-wordpress/azgfd.wp/wp-content/uploads/0001/01/23120719/ALIWCA_Final_Report_Perkl_2013_lowres.pdf.
Please contact the Project Evaluation Program (pep@azgfd.gov) for specific project recommendations.