

SUMMARY OF COCHISE COUNTY DEPARTMENT COMMENTS

Docket: Z-19-02 and SU-19-05 (Dollar General)

Floodplain:

1. Per Section 1.2 and 2.3 of ADEQ 2013 Construction General Permit and Section 8.02 of Cochise County Stormwater Ordinance, please submit NOI (Notice of Intent) to ADEQ. Once the NOI Certificate is obtained submit a copy to Cochise County.
2. Since the project is located outside Cochise County's current MS4 jurisdiction, Cochise County will not require a SWPPP (Stormwater Pollution Prevention Plan) to be submitted to the county for this project. However, it is recommended that Section 2.2 of ADEQ 2013 CGP – Prerequisites for submitting a NOI be visited to check ADEQ's requirements for a SWPPP. If a SWPPP is required by ADEQ, please submit a copy of the SWPPP and NOI within the Drainage Analysis to Cochise County when the development package (plans, drainage analysis), etc.) is submitted to Cochise County Development Services.
3. Per Section 5.1 (D)(1) Adverse Impact of Cochise County Floodplain Regulations, that reads: "The cumulative effect of the proposed development, when combined with all other existing and anticipated development, will not increase the water surface elevation of the base flood more than one tenth of a foot along adjacent boundaries, and will not increase the velocity by more than 10%." Please show in proposed design and ensure that the construction of this project will not create any adverse effects on neighboring parcels.

Highway:

ROW permit and complete plans regarding access will be required.

ROW:

1. Mescal Road is a County Maintained Road (MI# 624)
2. 50' wide public right-of-way established in Mescal Lakes Unit II Final Plate recorded in Book 8 of Maps and Plats, pages 36-36B.
3. Mescal Road is classified as a County Collector Road. County Road Design Standards require a right-of-way width between 80 and 100 feet.
4. **Further right-of-way dedication is required for Mescal Road at this time. County right-of-way agent will prepare documents necessary to convey 50' of dedicated public right-of-way.**

Environmental Health:

1. Plan review for the store is required
2. Review and approval of the septic system is required.



Cochise County Engineering & Natural Resources

Public Programs...Personal Service
www.cochise.az.gov

JACKIE WATKINS, PE, PTOE
Director

INTEROFFICE MEMO

Date: March 20, 2019
To: Robert Kirschmann, Planner II
From: Teresa Murphy, Right-of-Way Agent
Subject: SU-19-05 & Z-19-02 (Dollar General)

Analysis:

- Access via Mescal Road
- Mescal Road is a County Maintained Road (MI# 624)
- 50' wide public right-of-way established in Mescal Lakes Unit II Final Plate recorded in Book 8 of Maps and Plats, pages 36-36B.
- Mescal Road is classified as a County Collector Road. County Road Design Standards require a right-of-way width between 80 and 100 feet.

Recommendation:

- Further right-of-way dedication is required for Mescal Road at this time. County right-of-way agent will prepare documents necessary to convey 50' of dedicated public right-of-way.

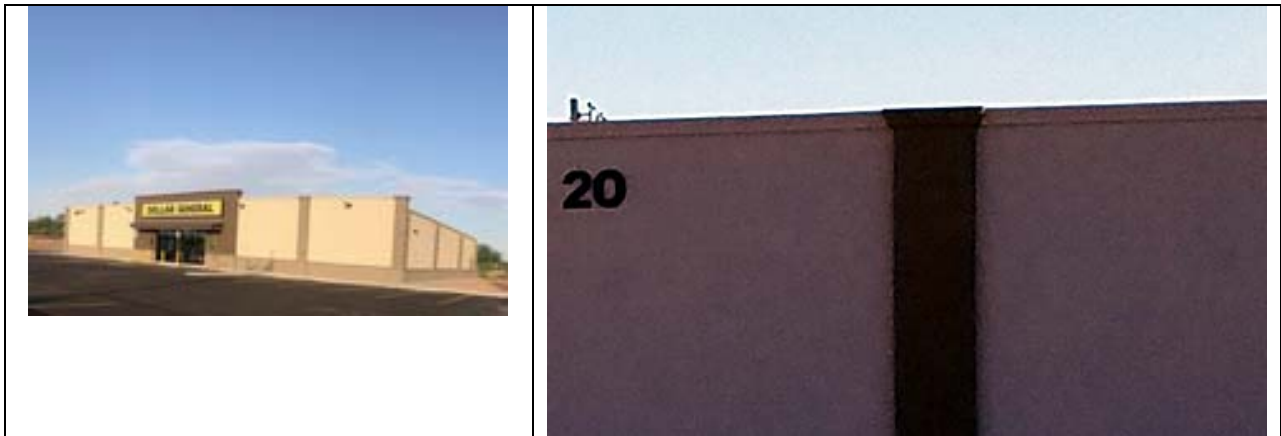
March 17, 2019

Robert Kirschmann, Planner II
Cochise County Planning and Zoning

Re: SU-19-05 and Z-19-02 Dollar General
Tax Parcel # 124-05-003N

Please find our questions/comments below regarding the combined application for a Dollar General Store in Mescal.

A. Page 3 - Part Two-Section A-Questionnaire-Question 5 What materials will be used to construct the building? – Response indicates Metal Building with abbreviations which are unfamiliar to us. Russ Salmon, Project Manager, provided several photos as to what the store would look like. Via a prior phone call they also stated that the proposed store would be very similar to the St. David Dollar General in appearance and product line. We are asking that the Description provided in their response above reflect the exterior treatment we see in the following image on the left that the company provided. The right image is an enlarged portion of the St. David Dollar General.



The following, located near Roper Lake, is not what we are expecting from communication with Russ:



B. Page 3 – Part Two-Questionnaire-Section A – Question 7C(1) Total average daily traffic generated: How many vehicles will be entering and leaving the site? The response provided was “a daily total of 521 vehicles will enter and leave the site”. This appears to be contradictory to statement under #7 on Page 14 of the transmittal packet that states: “The site is expected to generate a peak hourly rate of about 28 vehicular trips into or out of the proposed retail store development.” A more accurate vehicle projection is needed to adequately consider the impacts to local roadways.

C. Page 4 – Part Two-Questionnaire-Section A – Questions 7H – For Special Uses Only – provide deed restrictions that apply to this parcel if any. Response is NA Is this answer in sync with the answer on

19. Are there any deed restrictions or private covenants in effect for this property?

- No _____ Yes
- If yes, is the proposed zoning district compatible with all applicable deed restrictions/private covenants? Yes _____ No _____

The second bullet is not answered. Without attached Deed Restrictions, it is not possible to understand the answers for each of these questions. Are Deed Restrictions readily available to where we may get a copy?

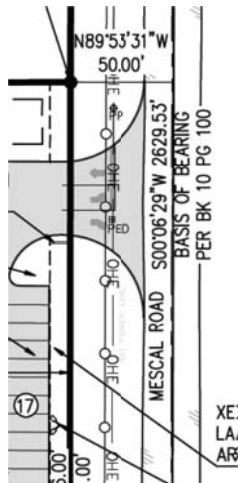
D. Page 6 – Part Two Questionnaire – Section B – Question 13

21. What off-site improvements are proposed for streets or easements used by traffic that will be generated by this rezoning? NONE

13. Will you be performing any off-site construction (e.g., access aprons, driveways, and culverts)?
Yes No If yes, show details on the site plan. Note: The County may require off-site improvements reasonably related to the impacts of the use such as road or drainage improvements.

Since this is a combined application, we are not sure if these responses from the SU and Z Applications should be more closely aligned.

Page 12 –



With a daily total of 521 vehicles (See B Above) and the discrepancy later suggested by 28 cars per peak hour, it is concerning as to what impacts will actually be placed on Mescal commuters.

Existing conditions reported in the Northwest Transportation Study (Section 2.3.2) finalized in 2015 states: “ J Six Ranch Road/Mescal Road and Pomerene Road...have daily traffic volumes between 2,000 and 3,000 vpd respectively. These two arterials connect with I-10 and serve residential areas.”

It would seem that both left and right turning bays should be considered on Mescal Road.

It would also be beneficial to have School Districts weigh in as to the impacts to their current practice of stopping traffic on Mescal Road as they let students off the bus to cross to either side of the road.

E. Page 5 – Part Two Questionnaire – Section B – Question 9 Will any new signs be erected on site?

Details on map and Exhibit L (Page 25) indicated a 4 ½' x 33' sign will be placed on the front side of the store (20' elevation /one story) which faces Mescal Road. Details on Exhibit K (Page 24) indicates a proposed stand-alone sign 6' x 16' elevated so that the top is 21' in elevation will be placed approximately 25' from the edge of the current pavement. Since the Dollar General is primarily “for the benefit of the community providing a reduction in distance and travel to obtain general retail/household necessities, providing potential additional employment in community”, then a stand-alone business sign of less size, bulk, height, with minimal night time illumination, should be considered. Current businesses in Mescal do not have stand-alone tall signs or illuminated signs except for the Chevron Station which is dependent upon Freeway Traffic. Dark skies, mountain views are valued attributes within our communities.

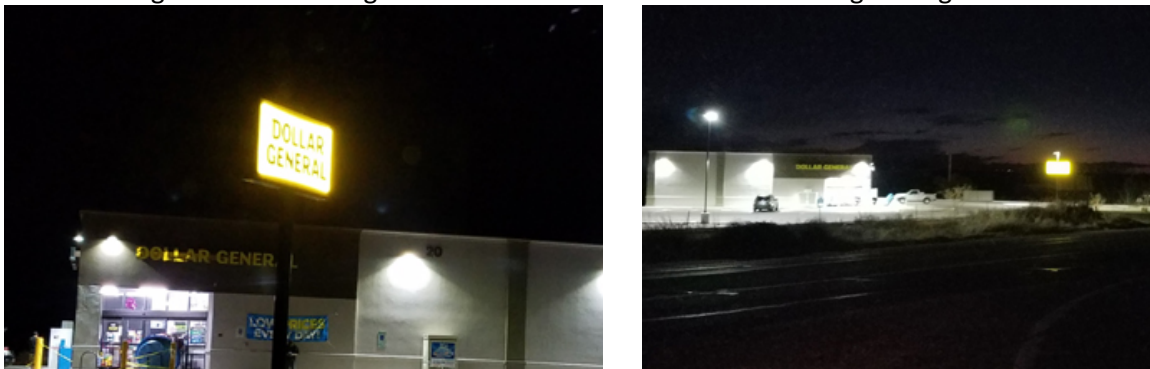
If a low profile sign can be used to introduce an entire community, a low profile sign with minimal lighting can also be effective in rural neighborhoods. Freeway Exit signs listing amenities should be adequate for travelers.



Illuminated signs at ground level are in the J-6 Area for Churches with the illuminated area no higher than approximately 9 feet.



The following indicates the brightness of the St. David Dollar General Sign at night:



F. General Safety Questions:

1. Will building be alarmed and the parking lot lit at night?
2. Is there a fire code that has been adopted for the County/ our area to which new construction will have to adhere – construction material, sprinkler system, water hydrant access – or equivalent, etc?

We sincerely appreciate the opportunity to respond.

Mary McCool, Chair, J-6/Mescal CDO, 520-609-2738, kenmccool@aol.com



April 3, 2019

Robert Kirschmann
Cochise County
1415 Melody Lane Building EM
Bisbee, AZ 85603

Re: Review of the Dollar Store Cochise County project

Dear Mr. Kirschmann:

The Arizona Game and Fish Department (Department) reviewed your Project Evaluation Request dated March 4, 2019 regarding the construction of a new 9100 square foot retail building and infrastructure in Benson, Arizona. Based on the provided information, the Department has the following recommendations:

- Minimize the potential introduction or spread of exotic invasive species, including aquatic and terrestrial plants, animals, insects and pathogens. Precautions should be taken to wash and/or decontaminate all equipment utilized in the project activities before entering and leaving the site. To view a list of documented invasive species in or near your project area visit <http://login.imapinvasives.org/azimi/login/?next=/azimi/> . To build a list: login, go to Query and Reports, select a geography value relevant to your project area, and select "View Report" for a list of reported species.
 - Arizona has noxious weed regulations (Arizona Revised Statutes, Rules R3-4-244 and R3-4-245); please see the Arizona Department of Agriculture website for prohibited and restricted noxious weeds.
<https://www.invasivespeciesinfo.gov/unitedstates/az.shtml>
<https://agriculture.az.gov/pests-pest-control/agriculture-pests/noxious-weeds>
<https://plants.usda.gov/java/noxious?rptType=State&statefips=04>
 - The Department recommends coordination with the Arizona Sonora Desert Museum for guidance on measures to minimize the potential spread of buffelgrass (*Pennisetum ciliare*).

Thank you for the opportunity to review this project. Attached is a report created on Arizona's Online Environmental Review Tool should provide general recommendations and additional contact information. If you have any questions regarding this letter, please contact me at (623) 236-7222.

Sincerely,

A handwritten signature in black ink, appearing to read "Andrew Cavalcant".

Andrew Cavalcant
Project Evaluation Program Specialist, Habitat Branch
Arizona Game and Fish Department

cc: Ginger Ritter, Project Evaluation Program Supervisor
John Windes, Habitat Program Manager, Region V

AGFD# M19-03120612

azgfd.gov | 602.942.3000

5000 W. CAREFREE HIGHWAY, PHOENIX AZ 85086

GOVERNOR: DOUGLAS A. DUCEY **COMMISSIONERS:** CHAIRMAN, JAMES S. ZIELER, ST. JOHNS | ERIC S. SPARKS, TUCSON | KURT R. DAVIS, PHOENIX
LELAND S. "BILL" BRAKE, ELGIN | JAMES E. GOUGHNOUR, PAYSON **DIRECTOR:** TY E. GRAY **DEPUTY DIRECTOR:** TOM P. FINLEY

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:

M19-03120612 Dollar Store Cochise County

Project Description:

Construction of a 9100 SF retail building and infrastructure.

Project Type:

Development Outside Municipalities (Rural Development), Commercial/industrial (mall) and associated infrastructure, New construction

Contact Person:

Victoria Kearney

Organization:

Arizona Game and Fish Department

On Behalf Of:

COCHISE

Project ID:

HGIS-08875

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.

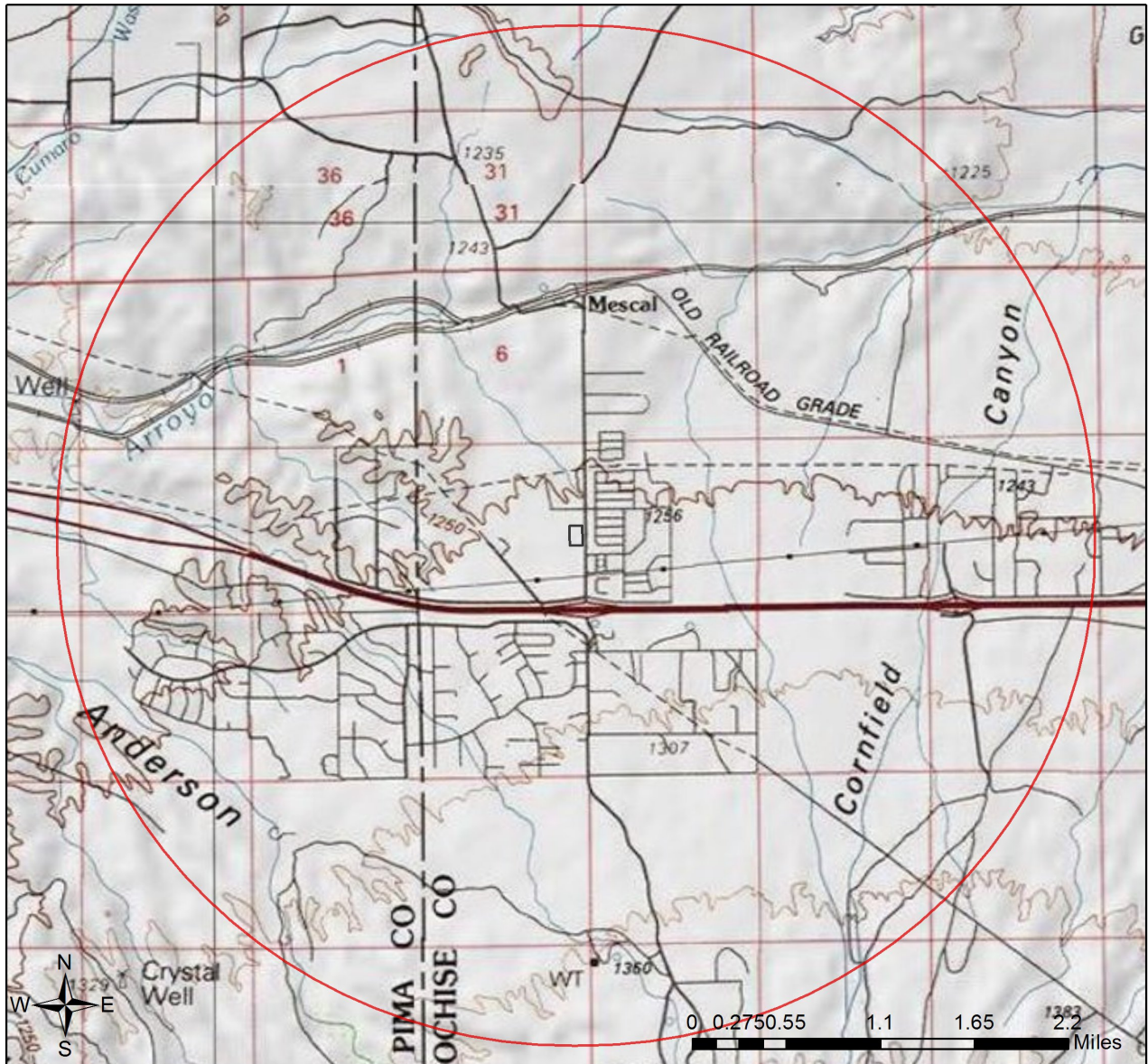
Locations Accuracy Disclaimer:

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

M19-03120612 Dollar Store Cochise County USA Topo Basemap With Locator Map



- Project Boundary
- Buffered Project Boundary

Project Size (acres): 5.62

Lat/Long (DD): 31.9694 / -110.4353

County(s): Cochise

AGFD Region(s): Tucson

Township/Range(s): T17S, R19E

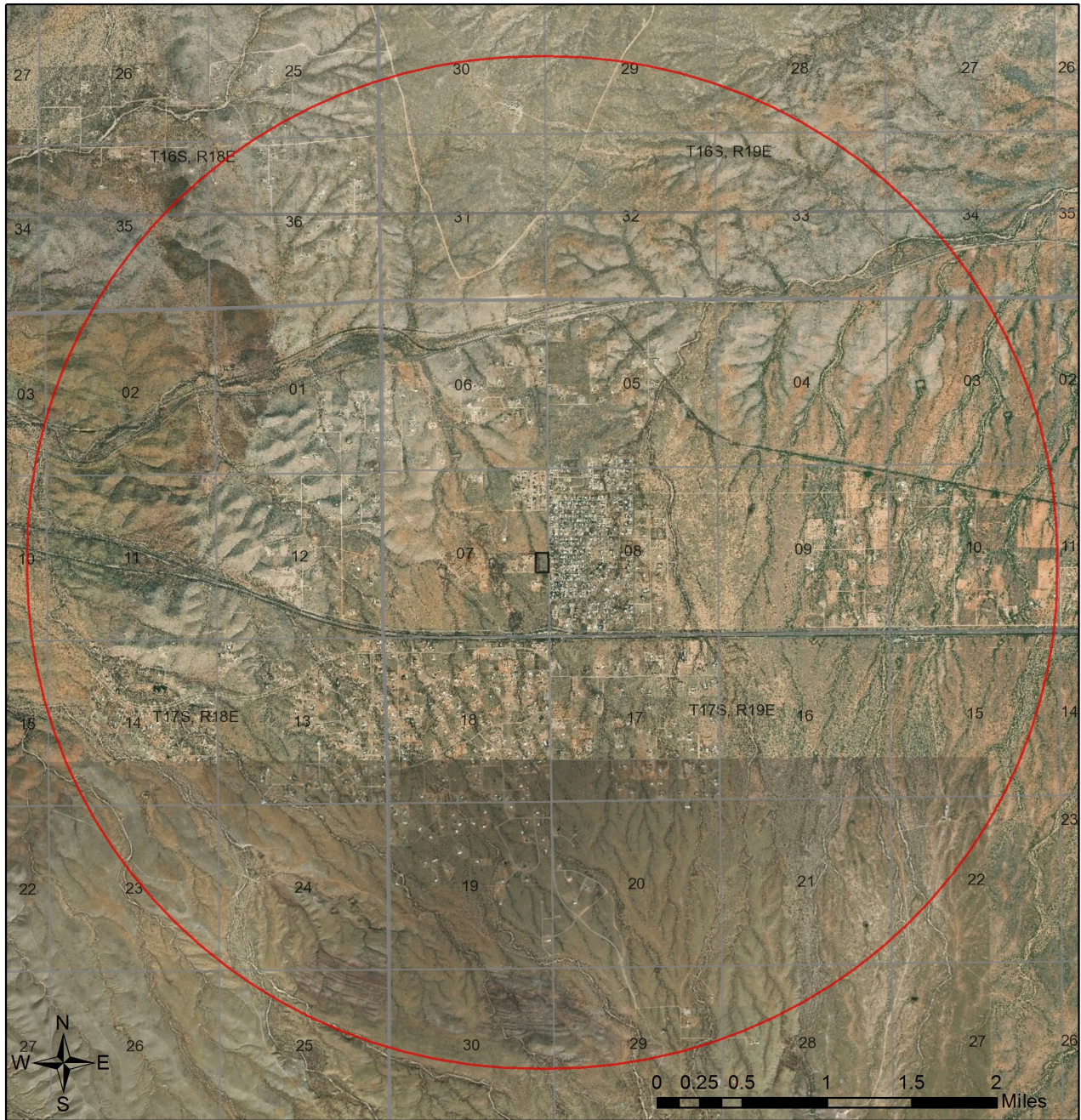
USGS Quad(s): MESCAL

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), swisstopo, ©



M19-03120612 Dollar Store Cochise County

Web Map As Submitted By User



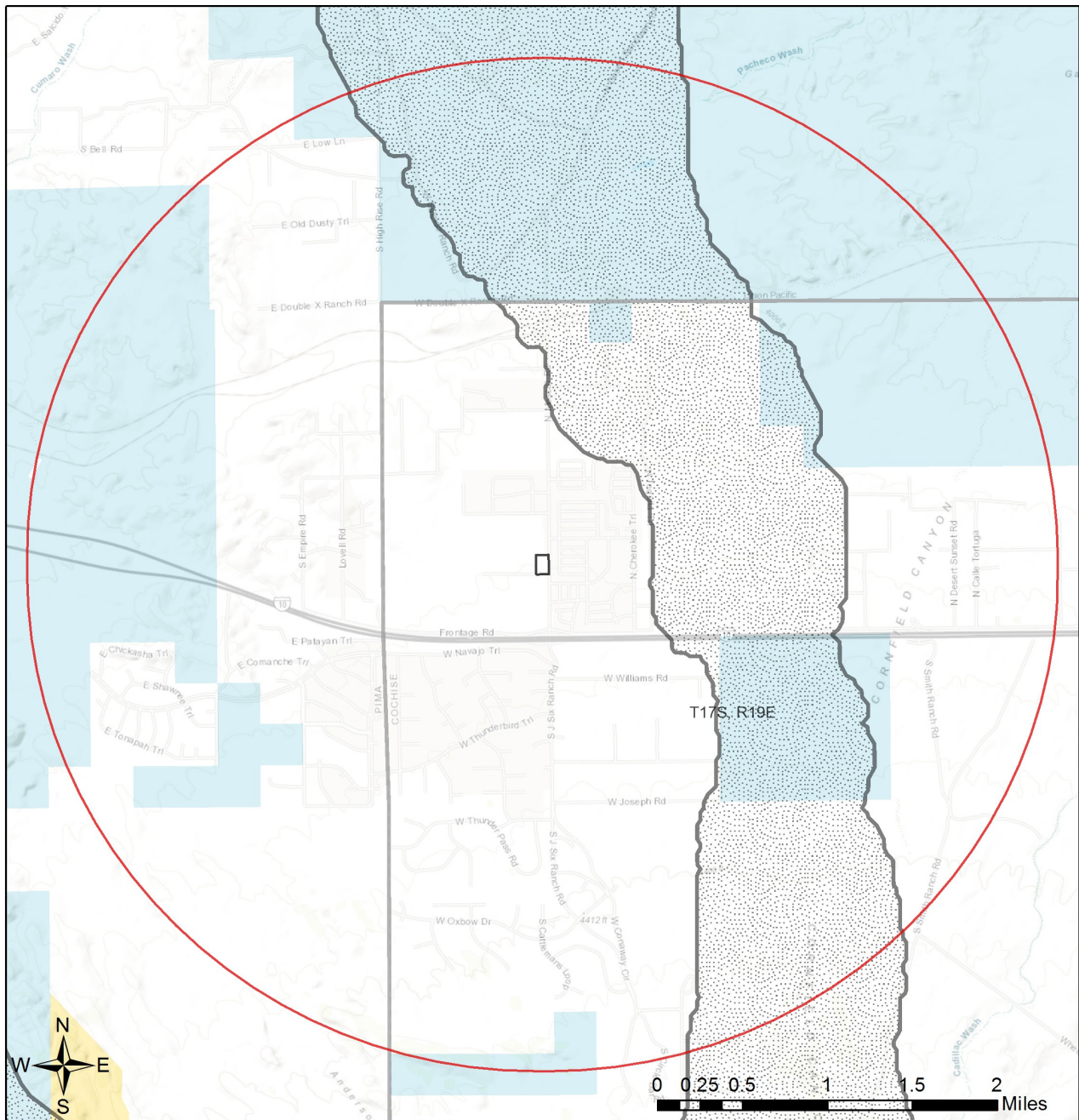
- Project Boundary
- Buffered Project Boundary
- Quadrangles
- Sections
- Townships

Project Size (acres): 5.62
Lat/Long (DD): 31.9694 / -110.4353
County(s): Cochise
AGFD Region(s): Tucson
Township/Range(s): T17S, R19E
USGS Quad(s): MESCAL

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

M19-03120612 Dollar Store Cochise County

Topo Basemap with Township/Ranges, Land Ownership, Critical Habitats, Wildlife Corridors



Project Boundary	Indian Res.	Project Size (acres): 5.62
Buffered Project Boundary	Military	Lat/Long (DD): 31.9694 / -110.4353
Township/Ranges	Mixed/Other	County(s): Cochise
Wildlife Corridors	National Park/Mon.	AGFD Region(s): Tucson
Critical Habitat	Private	Township/Range(s): T17S, R19E
Land Ownership	State & Regional Parks	USGS Quad(s): MESCAL
AZ Game & Fish Dept.	State Trust	
BLM	US Forest Service	
BOR	Wildlife Area/Refuge	

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), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Special Status Species and Special Areas Documented within 3 Miles of Project Vicinity

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
<i>Aquila chrysaetos</i>	Golden Eagle	BGA		S		1B
<i>Aspidoscelis stictogramma</i>	Giant Spotted Whiptail	SC	S			1B
<i>Eriogonum capillare</i>	San Carlos Wild-buckwheat	SC			SR	
<i>Leptonycteris yerbabuenae</i>	Lesser Long-nosed Bat	SC				1A
<i>Phrynosoma cornutum</i>	Texas Horned Lizard	SC				
Rincon - Santa Rita - Whetstone Linkage Design	Wildlife Corridor					
<i>Terrapene ornata luteola</i>	Desert Box Turtle			S		1A

Note: Status code definitions can be found at <https://www.azgfd.com/wildlife/planning/wildlifeguidelines/statusdefinitions/>

**Species of Greatest Conservation Need
 Predicted within 3 Miles of Project Vicinity based on Predicted Range Models**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
<i>Aix sponsa</i>	Wood Duck					1B
<i>Amazilia violiceps</i>	Violet-crowned Hummingbird		S			1B
<i>Ammodramus savannarum ammolegus</i>	Arizona grasshopper sparrow		S	S		1B
<i>Ammodramus savannarum perpallidus</i>	Western Grasshopper Sparrow					1B
<i>Ammospermophilus harrisi</i>	Harris' Antelope Squirrel					1B
<i>Anthus spragueii</i>	Sprague's Pipit	SC				1A
<i>Antrostomus ridgwayi</i>	Buff-collared Nightjar		S			1B
<i>Aquila chrysaetos</i>	Golden Eagle	BGA		S		1B
<i>Aspidoscelis stictogramma</i>	Giant Spotted Whiptail	SC	S			1B
<i>Aspidoscelis xanthonota</i>	Red-backed Whiptail	SC	S			1B
<i>Athene cucularia hypugaea</i>	Western Burrowing Owl	SC	S	S		1B
<i>Baeolophus ridgwayi</i>	Juniper Titmouse					1C
<i>Buteo regalis</i>	Ferruginous Hawk	SC		S		1B
<i>Buteo swainsoni</i>	Swainson's Hawk					1C
<i>Callipepla squamata</i>	Scaled Quail					1C
<i>Calypte costae</i>	Costa's Hummingbird					1C
<i>Chordeiles minor</i>	Common Nighthawk					1B
<i>Coccyzus americanus</i>	Yellow-billed Cuckoo (Western DPS)	LT	S			1A
<i>Colaptes chrysoides</i>	Gilded Flicker			S		1B
<i>Coluber bilineatus</i>	Sonoran Whipsnake					1B
<i>Corynorhinus townsendii pallescens</i>	Pale Townsend's Big-eared Bat	SC	S	S		1B
<i>Crotalus lepidus</i>	Rock Rattlesnake					1A
<i>Crotalus tigris</i>	Tiger Rattlesnake					1B
<i>Cynanthus latirostris</i>	Broad-billed Hummingbird		S			1B

**Species of Greatest Conservation Need
 Predicted within 3 Miles of Project Vicinity based on Predicted Range Models**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
<i>Cynomys ludovicianus</i>	Black-tailed Prairie Dog	CCA		S		1A
<i>Cyrtonyx montezumae</i>	Montezuma Quail					1C
<i>Dipodomys spectabilis</i>	Banner-tailed Kangaroo Rat			S		1B
<i>Empidonax traillii extimus</i>	Southwestern Willow Flycatcher	LE				1A
<i>Empidonax wrightii</i>	Gray Flycatcher					1C
<i>Euderma maculatum</i>	Spotted Bat	SC	S	S		1B
<i>Eumops perotis californicus</i>	Greater Western Bonneted Bat	SC		S		1B
<i>Falco peregrinus anatum</i>	American Peregrine Falcon	SC	S	S		1A
<i>Glaucidium gnoma gnoma</i>	Mountain Pygmy-owl					1B
<i>Gopherus morafkai</i>	Sonoran Desert Tortoise	CCA	S	S		1A
<i>Haliaeetus leucocephalus</i>	Bald Eagle	SC, BGA	S	S		1A
<i>Heloderma suspectum</i>	Gila Monster					1A
<i>Hypsiglena sp. nov.</i>	Hooded Nightsnake					1B
<i>Incilius alvarius</i>	Sonoran Desert Toad					1B
<i>Lasiurus blossevillii</i>	Western Red Bat		S			1B
<i>Lasiurus xanthinus</i>	Western Yellow Bat		S			1B
<i>Leopardus pardalis</i>	Ocelot	LE				1A
<i>Leptonycteris yerbabuenae</i>	Lesser Long-nosed Bat	SC				1A
<i>Lepus alleni</i>	Antelope Jackrabbit					1B
<i>Lithobates chiricahuensis</i>	Chiricahua Leopard Frog	LT				1A
<i>Lithobates tarahumarae</i>	Tarahumara Frog	SC	S			1A
<i>Lithobates yavapaiensis</i>	Lowland Leopard Frog	SC	S	S		1A
<i>Macrotus californicus</i>	California Leaf-nosed Bat	SC		S		1B
<i>Melanerpes uropygialis</i>	Gila Woodpecker					1B
<i>Meleagris gallopavo mexicana</i>	Gould's Turkey		S			1B
<i>Melospiza lincolni</i>	Lincoln's Sparrow					1B
<i>Melospiza aberti</i>	Abert's Towhee		S			1B
<i>Micrathene whitneyi</i>	Elf Owl					1C
<i>Micruroides euryxanthus</i>	Sonoran Coralsnake					1B
<i>Myiarchus tyrannulus</i>	Brown-crested Flycatcher					1C
<i>Myotis occultus</i>	Arizona Myotis	SC		S		1B
<i>Myotis velifer</i>	Cave Myotis	SC		S		1B
<i>Myotis yumanensis</i>	Yuma Myotis	SC				1B
<i>Notiosorex cockrumi</i>	Cockrum's Desert Shrew					1B
<i>Nyctinomops femorosaccus</i>	Pocketed Free-tailed Bat					1B
<i>Odocoileus virginianus</i>	White-tailed Deer					1B
<i>Oreoscoptes montanus</i>	Sage Thrasher					1C
<i>Oreothlypis luciae</i>	Lucy's Warbler					1C

**Species of Greatest Conservation Need
 Predicted within 3 Miles of Project Vicinity based on Predicted Range Models**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
<i>Panthera onca</i>	Jaguar	LE				1A
<i>Passerculus sandwichensis</i>	Savannah Sparrow					1B
<i>Peucaea botterii arizonae</i>	Arizona Botteri's Sparrow			S		1B
<i>Peucaea carpalis</i>	Rufous-winged Sparrow					1B
<i>Phrynosoma solare</i>	Regal Horned Lizard					1B
<i>Picoides arizonae</i>	Arizona Woodpecker		S			1B
<i>Progne subis hesperia</i>	Desert Purple Martin			S		1B
<i>Sceloporus slevini</i>	Slevin's Bunchgrass Lizard		S	S		1B
<i>Setophaga petechia</i>	Yellow Warbler					1B
<i>Sialia sialis fulva</i>	Azure Bluebird					1B
<i>Sphyrapicus nuchalis</i>	Red-naped Sapsucker					1C
<i>Spizella atrogularis</i>	Black-chinned Sparrow					1C
<i>Spizella breweri</i>	Brewer's Sparrow					1C
<i>Strix occidentalis lucida</i>	Mexican Spotted Owl	LT				1A
<i>Sturnella magna</i>	Eastern Meadowlark					1C
<i>Tadarida brasiliensis</i>	Brazilian Free-tailed Bat					1B
<i>Terrapene ornata</i>	Ornate Box Turtle					1A
<i>Thamnophis eques megalops</i>	Northern Mexican Gartersnake	LT	S			1A
<i>Thomomys umbrinus intermedius</i>	Southern Pocket Gopher					1B
<i>Vireo bellii arizonae</i>	Arizona Bell's Vireo					1B
<i>Vulpes macrotis</i>	Kit Fox	No Status				1B

Species of Economic and Recreation Importance Predicted within 3 Miles of Project Vicinity

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
<i>Callipepla gambelii</i>	Gambel's Quail					
<i>Callipepla squamata</i>	Scaled Quail					1C
<i>Odocoileus hemionus</i>	Mule Deer					
<i>Odocoileus virginianus</i>	White-tailed Deer					1B
<i>Patagioenas fasciata</i>	Band-tailed Pigeon					1C
<i>Pecari tajacu</i>	Javelina					
<i>Puma concolor</i>	Mountain Lion					
<i>Zenaida asiatica</i>	White-winged Dove					
<i>Zenaida macroura</i>	Mourning Dove					

Project Type: Development Outside Municipalities (Rural Development), Commercial/industrial (mall) and associated infrastructure, New construction

Project Type Recommendations:

During the planning stages of your project, please consider the local or regional needs of wildlife in regards to movement, connectivity, and access to habitat needs. Loss of this permeability prevents wildlife from accessing resources, finding mates, reduces gene flow, prevents wildlife from re-colonizing areas where local extirpations may have occurred, and ultimately prevents wildlife from contributing to ecosystem functions, such as pollination, seed dispersal, control of prey numbers, and resistance to invasive species. In many cases, streams and washes provide natural movement corridors for wildlife and should be maintained in their natural state. Uplands also support a large diversity of species, and should be contained within important wildlife movement corridors. In addition, maintaining biodiversity and ecosystem functions can be facilitated through improving designs of structures, fences, roadways, and culverts to promote passage for a variety of wildlife. Guidelines for many of these can be found at: <https://www.azgfd.com/wildlife/planning/wildlifeguidelines/>.

Consider impacts of outdoor lighting on wildlife and develop measures or alternatives that can be taken to increase human safety while minimizing potential impacts to wildlife. Conduct wildlife surveys to determine species within project area, and evaluate proposed activities based on species biology and natural history to determine if artificial lighting may disrupt behavior patterns or habitat use. Use only the minimum amount of light needed for safety. Narrow spectrum bulbs should be used as often as possible to lower the range of species affected by lighting. All lighting should be shielded, canted, or cut to ensure that light reaches only areas needing illumination.

Minimize potential introduction or spread of exotic invasive species. Invasive species can be plants, animals (exotic snails), and other organisms (e.g., microbes), which may cause alteration to ecological functions or compete with or prey upon native species and can cause social impacts (e.g., livestock forage reduction, increase wildfire risk). The terms noxious weed or invasive plants are often used interchangeably. Precautions should be taken to wash all equipment utilized in the project activities before leaving the site. Arizona has noxious weed regulations (Arizona Revised Statutes, Rules R3-4-244 and R3-4-245). See Arizona Department of Agriculture website for restricted plants, <https://agriculture.az.gov/>. Additionally, the U.S. Department of Agriculture has information regarding pest and invasive plant control methods including: pesticide, herbicide, biological control agents, and mechanical control, <http://www.usda.gov/wps/portal/usdahome>. The Department regulates the importation, purchasing, and transportation of wildlife and fish (Restricted Live Wildlife), please refer to the hunting regulations for further information <https://www.azgfd.com/hunting/regulations>.

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.

The Department recommends that wildlife surveys are conducted to determine if noise-sensitive species occur within the project area. Avoidance or minimization measures could include conducting project activities outside of breeding seasons.

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

Trenches should be covered or back-filled as soon as possible. Incorporate escape ramps in ditches or fencing along the perimeter to deter small mammals and herptefauna (snakes, lizards, tortoise) from entering ditches.

Communities can actively support the sustainability and mobility of wildlife by incorporating wildlife planning into their regional/comprehensive plans, their regional transportation plans, and their open space/conservation land system programs. An effective approach to wildlife planning begins with the identification of the wildlife resources in need of protection, an assessment of important habitat blocks and connective corridors, and the incorporation of these critical wildlife components into the community plans and programs. Community planners should identify open spaces and habitat blocks that can be maintained in their area, and the necessary connections between those blocks to be preserved or protected. Community planners should also work with State and local transportation planning entities, and planners from other communities, to foster coordination and cooperation in developing compatible development plans to ensure wildlife habitat connectivity. The Department's guidelines for incorporating wildlife considerations into community planning and developments can be found on the Wildlife Friendly Guidelines portion of the Wildlife Planning page at <https://www.azgfd.com/wildlife/planning/wildlifeguidelines/>.

Based on the project type entered, coordination with Arizona Department of Environmental Quality may be required (<http://www.azdeq.gov/>).

Based on the project type entered, coordination with Arizona Department of Water Resources may be required (<http://www.azwater.gov/azdwr/default.aspx>).

Based on the project type entered, coordination with U.S. Army Corps of Engineers may be required (<http://www.usace.army.mil/>)

Based on the project type entered, coordination with County Flood Control district(s) may be required.

Development plans should provide for open natural space for wildlife movement, while also minimizing the potential for wildlife-human interactions through design features. Please contact Project Evaluation Program for more information on living with urban wildlife at PEP@azgfd.gov or at <https://www.azgfd.com/wildlife/planning/wildlifeguidelines/> and <https://www.azgfd.com/Wildlife/LivingWith>.

The Department requests further coordination to provide project/species specific recommendations, please contact Project Evaluation Program directly at PEP@azgfd.gov.

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/environmental-services/np1>

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

2321 W. Royal Palm Rd, Suite 103
Phoenix, AZ 85021
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

Analysis indicates that your project is located in the vicinity of an identified **wildlife habitat linkage corridor**. Project planning and implementation efforts should focus on maintaining adequate opportunities for wildlife permeability. For information pertaining to the linkage assessment and wildlife species that may be affected, please refer to: <http://www.corridordesign.org/arizona>. Please contact your local Arizona Game and Fish Department Regional Office for specific project recommendations: <https://www.azgfd.com/Agency/Offices>.

