

**ARIZONA GAME AND FISH DEPARTMENT
HABITAT PARTNERSHIP COMMITTEE
HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROPOSAL**

Game Branch / HPC Project Number:	14-403
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PROJECT INFORMATION	
Project Title: WMDF #2 Wildlife Water	
Region and Game Management Unit: Region 4 GMU 42	
Local Habitat Partnership Committee (LHPC): <ul style="list-style-type: none"> • Southwest Committee 	Was the project presented to the LHPC? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
Has this project been submitted in previous years? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> If Yes, was it funded? YES <input type="checkbox"/> NO <input type="checkbox"/> Funded HPC Project #(s):	
Project Type: Water Development (NEW)	
Brief Project Summary: Develop a new water catchment in GMU 42 just west of the Bighorn Mountains. This project will be used to add reliable water in an area that holds a good population of mule deer, javelina and bighorn sheep. The next closest game water is approximately 7 miles away from this proposed location. This system will include the buried 24" PVC storage using a natural collection and walk in drinking trough. This project will be completed with volunteers from the Wickenburg Mule Deer Foundation Chapter and Arizona Game and Fish Department, Region IV.	
Big Game Wildlife Species to Benefit (% benefit per species): Mule Deer 90%, Desert Bighorn Sheep 10%	
Implementation Schedule (Month/Day/Year): <u>Project Start Date:</u> 1/1/16 <u>Project End Date:</u> 4/30/16	Environmental Compliance: NEPA Completed: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Projected Completion Date: State Historic Preservation Office - Archaeological Clearance: <i>(Provide Attachment)</i> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Projected Completion Date: TBD- Setting up appointment and the mule deer foundation will fund to have the ARCH complete. Arizona Game and Fish Department EA Checklist: N/A <input type="checkbox"/> To be Completed by: Craig Heath Projected Completion Date: September 30, 2015
PROJECT FUNDING	
Special Big Game License Tag Funds Requested:	\$ 18,723
Cost Share or Matching Funds:	\$ 4,970
Total Project Costs:	\$ 23.693

PARTICIPANT INFORMATION		
Applicant (please print): Craig Heath	Address: 9140 E. 28 th Street Yuma, AZ 85365	E-mail: cheath@azgfd.gov
Telephone: 928-856-0764		Date: 8/22/15
AGFD Contact and Phone No. (If applicant is not AGFD personnel):		
Project has been coordinated with: John Hervert(AZGFD), Mark Brown(AZGFD), Dee Pflieger(AZGFD), Terry Herndon(MDF), Willie Sommers(State Land) Wickenburg Mule Deer Foundation.		

NEED STATEMENT – PROBLEM ANALYSIS:

The project area contains an important population of mule deer, bighorn sheep and javelina. Their closest game water is over 7 miles from this location so it will become a highly used water location. The addition of this new water source would help improve the quality of habitat in this area west of the Bighorn Mountains.

PROJECT OBJECTIVES:

Increase the quality and amount of mule deer, bighorn sheep and javelina during water stress periods.

PROJECT DESCRIPTION AND STRATEGIES:

(How will you implement project)

Create a perennial water source using an underground PVC pipe design with natural collection area.

PROJECT LOCATION

(Please provide lat/long of project area and datum. If project is larger than one point, please add multiple lat/long points or an existing shapefile of the project area)

PROJECT LOCATION	LANDOWNER AND/OR SITE NAME	TOWNSHIP	RANGE	SEC.	UTM (NAD 83) or GPS COORDINATES	
					(Northing / Lat.)	(Easting / Long.)
	ASLD / WMDF #2	3N	10W	2	3724062m	290336m

LAND OWNERSHIP AT THE PROJECT SITE(S):

(If the project area is private property, please state specifically and provide the landowner's name)

- Project is located on Arizona State Land

IF PRIVATE PROPERTY, IS THERE A COOPERATIVE BIG GAME STEWARDSHIP or LANDOWNER AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT?

YES[] NO[] N/A[x]

HABITAT DESCRIPTION:

This area located just west of the Bighorn Mountains consists of flat Sonoran desert and rolling hills. Both upper and lower Sonoran desert vegetation are represented in the proposal area. The nearest game water for these game animals is over 7 miles away.

ITEMIZED USE OF FUNDS:

Special Big Game License Tag Funds

24" Pipe = (\$24.80/foot) 480' x \$24.80..... \$11,904

Walk-in 3' fiberglass trough.....\$800

Plain End Caps = (\$239.35 ea.) x4.....\$957.40

End Caps w/2" offset fittings (\$290.49 ea.) x4.....\$1,161.96

Connective plumbing, which should include 50' of 2" flexible

spa hose, various adaptors and connectors, glue and primer, street

ells, 4" schedule 40 pipe, 6" schedule 40 pipe, etc.,.....\$1,200

Cement, hardware cloth, stucco, lathe, 24" galvanized nipples, etc.....\$700

Water Rights Application.....\$2,000

TOTAL TAG

FUNDS.....\$18,723.36

Cost Share or Matching Funds (for volunteer labor rates please refer to the worksheet below)

Volunteer labor @ \$14.14/hour x 320 hours\$4,524.80

Volunteer mileage @ \$.445/mile x 1000 miles.....\$445

TOTAL COST SHARE.....\$4969.80

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

AGFD Region IV in conjunction with the Mule Deer Foundation and State Land will complete the needed environmental and cultural clearances for project completion.

WOULD IMPLEMENTATION OF THIS PROJECT ASSIST IN PROVIDING, MAINTAINING, OR FACILITATING RECREATIONAL ACCESS?

YES[] NO[] N/A[x]

PROJECT MONITORING PLAN:

AGFD Region IV will monitor water levels according to regional water development protocol.

PROJECT MAINTENANCE:

AGFD Region IV will perform routine maintenance checks and assess performance during regular water monitoring activities and coordinate with AGFD Development Branch to conduct any needed maintenance.

PROJECT COMPLETION REPORT TO BE FILED BY:

Craig Heath, AZGFD, Region IV

WATER DEVELOPMENT PROJECTS (please use the worksheet below):

Attached

TREE CLEARING/REMOVAL PROJECTS (please use the worksheet below):

N/A

ATTACHMENTS:

(Please provide cultural clearance documentation from land management agency, e.g., FONSI, Inventory Standards, etc. Also attach any project pictures)

ARIZONA GAME AND FISH DEPARTMENT **WATER DEVELOPMENT WORKSHEET**

PROJECT TITLE: WMDF #2 Wildlife Water

- 1) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”** Yes. The project is identified in the Management Focus Area Plan for unit 42 (2015-2020)
- 2) **Please list the Development Branch personnel and date coordinated with for this project.**
Joe Currie July 15, 2015-site evaluations/planning and Ed Jahrke-August 21, 2015 materials costs.
- 3) **What is the estimated annual inches of precipitation for the area? (mark one)**
2-4 4-6 6-8 8-10 10-12 12-14 14-16 >16
- 4) **Is there a perennial water source available to big game within four miles of this project?**

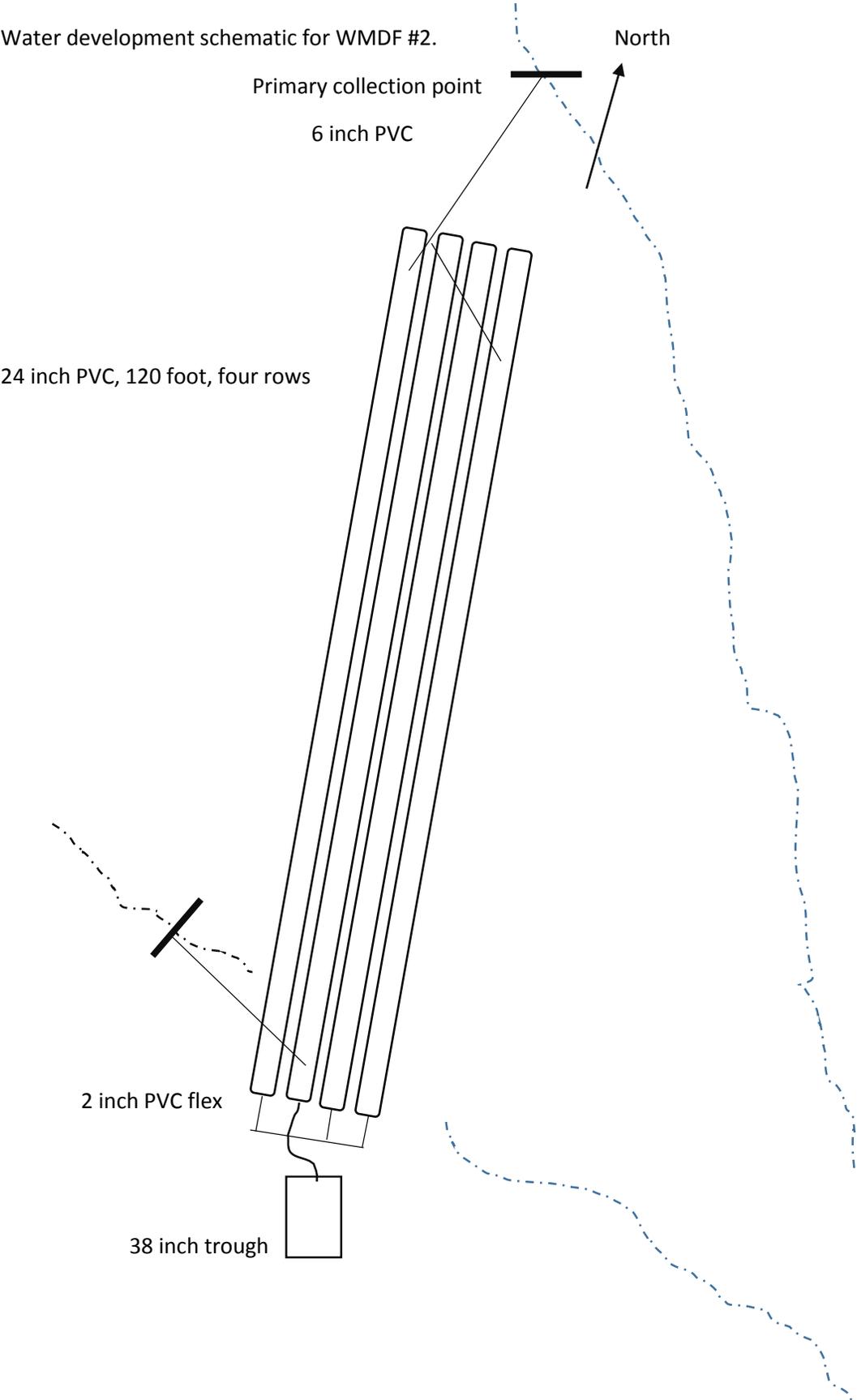
YES (please complete #5 below) NO (skip #5 below)
- 5) **For the accessible, perennial water source nearest this project:**
Name of water source:
Type of water source (catchment, spring, dirt tank):
Ownership of water source:
Distance in miles from project:
- 6) **Is the target wildlife species a result of transplant efforts?** YES NO
However the secondary species (desert bighorn sheep) are results of transplant efforts in 2005, 2007 and 2010. Collared bighorn sheep from these transplants have been located within 1 mile east of the project site.
- 7) **Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument). If private land, list landowner.**
N/A
- 8) **Please provide the following information about access to the proposed site:**
Type of access (mark one): 2x4 vehicles 4x4 only foot only**

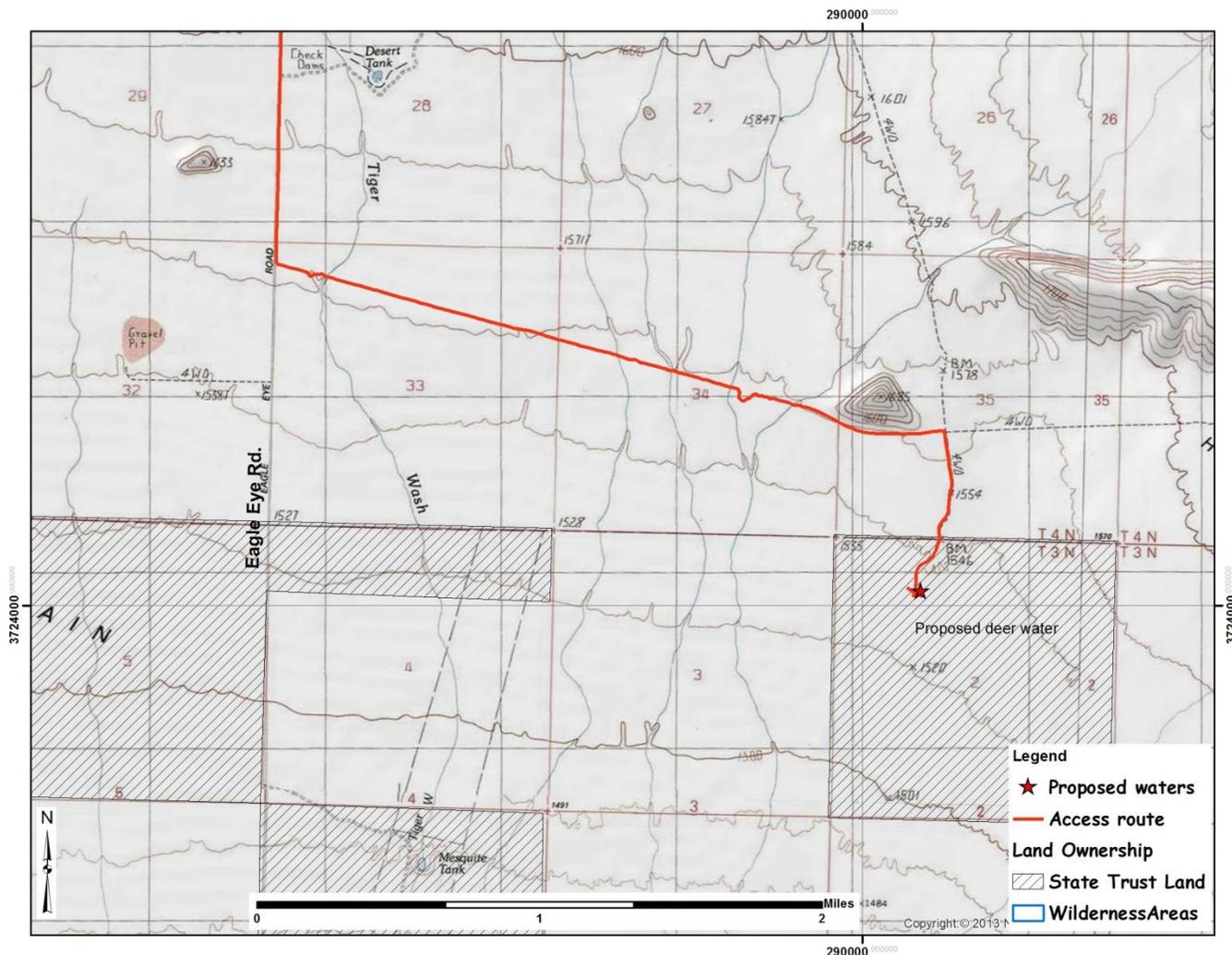
**If foot access only: Distance in miles: n/a Approximate hiking time: n/a

-- Does access to this site require crossing private or tribal lands? YES NO

-- Please describe any restrictions to public access: n/a
- 9) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**
See schematic attached.
- 10) **Was a site visit completed?** Yes No
If Yes, please list personnel that attended and date. August 6, 2015

AGFD – John Hervert, Mark Brown, Dee Pflieger, Craig Heath
Mule Deer Foundation – Heath Thompson, Eric Hunt





Map WMDF #1 Wildlife Water

ARIZONA GAME AND FISH DEPARTMENT VOLUNTEER HOURLY RATES AND CLASSIFICATIONS WORKSHEET

PROJECT TITLE: WMDF #2 Wildlife Water

The value of volunteer labor should be calculated at the hourly rate of an employee doing similar work, or using hourly rates from the Arizona Department of Administration's Human Resource web site, plus a standard ERE rate of 35%. http://www.hr.state.az.us/ClassComp/CC_Job_Titles_with_Ranges.asp
 \$0.445/mile should be the calculation used for mileage.

Water Development	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
WMDF#1	320	1000	\$14.14	\$4969.80
Habitat Restoration and Clean Up	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Fisheries	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Nongame Branch Project	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Misc/office work	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			varies	
Community Services	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$7.44	
Events and Other	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Research Branch	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Wildlife Area Hosts	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$17.44	
Education Programs	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$16.07	
Totals				

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:

WMDF #2 Wildlife Water

Project Description:

Arizona Game and Fish Department Region IV personnel along with volunteer from the Wickenburg chapter of the Mule Deer Foundation propose to build buried water storage system (24" PVC storage) with a small diversion dam to collect natural rainfall runoff (see attached schematic). Existing roads will be used to transport materials and equipment to the site. A backhoe will be used to excavate a trench to bury the 4 rows of 24" PVC pipe with small diversion dams and fill pipes to collect runoff. A 38 inch, gravity fed trough will be connected to the system and buried at ground level. A standard wildlife pipe rail fence will be constructed around the system to keep domestic livestock from draining the system.

Project Type:

Water Use, Transfer, and Channel Activities, Water storage, Tanks

Contact Person:

Craig Heath

Organization:

Arizona Game and Fish

On Behalf Of:

AZGFD

Project ID:

HGIS-02055

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.

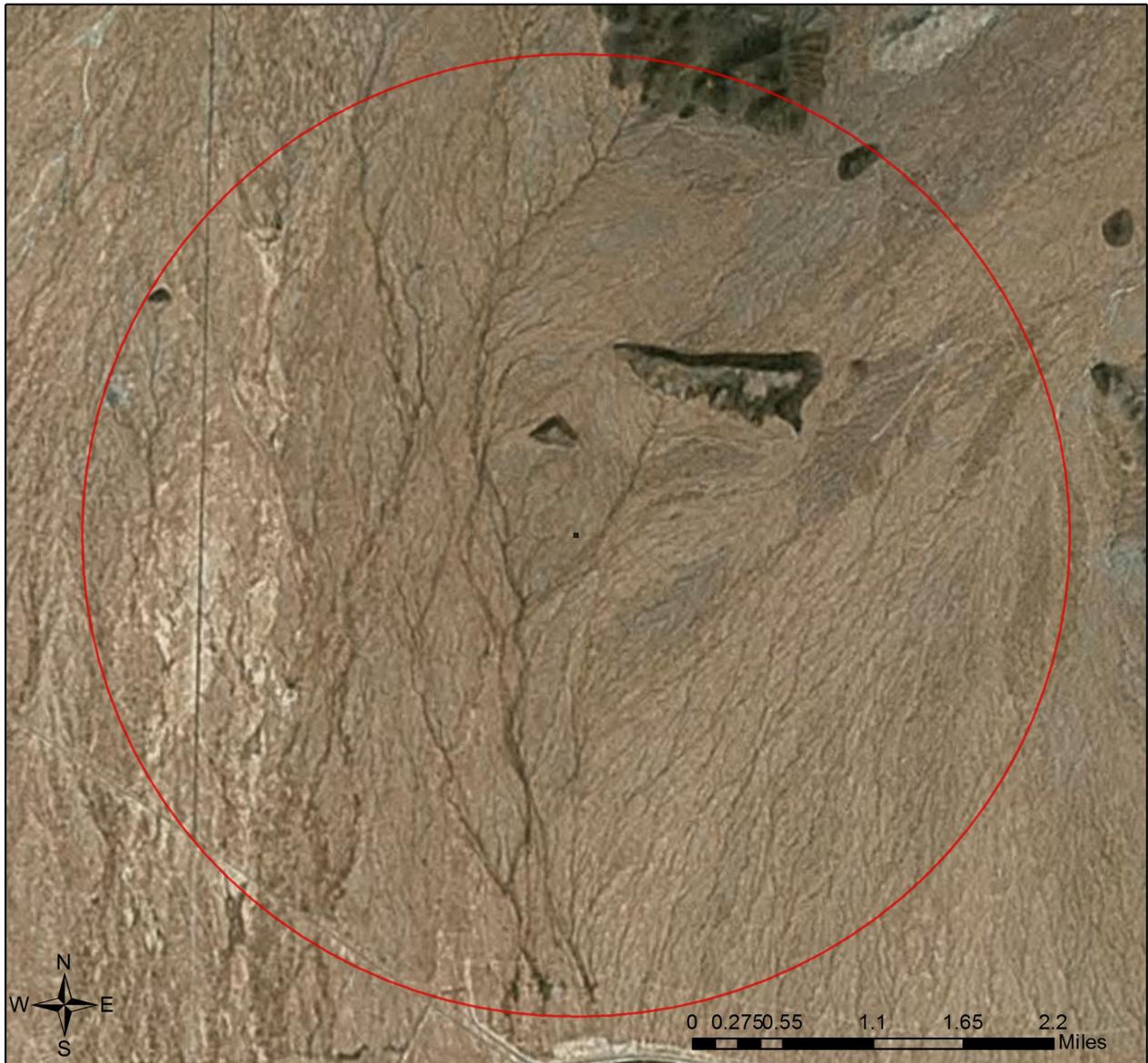
Locations Accuracy Disclaimer:

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

WMDF #2 Wildlife Water Aerial Image Basemap With Locator Map



- Project Boundary
- Buffered Project Boundary

Project Size (acres): 0.23

Lat/Long (DD): 33.6360 / -113.2606

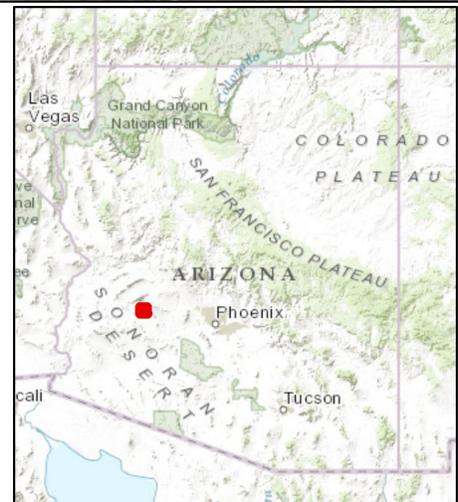
County(s): Maricopa

AGFD Region(s): Yuma

Township/Range(s): T3N, R10W

USGS Quad(s): WELDON HILL

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



WMDF #2 Wildlife Water

Web Map As Submitted By User



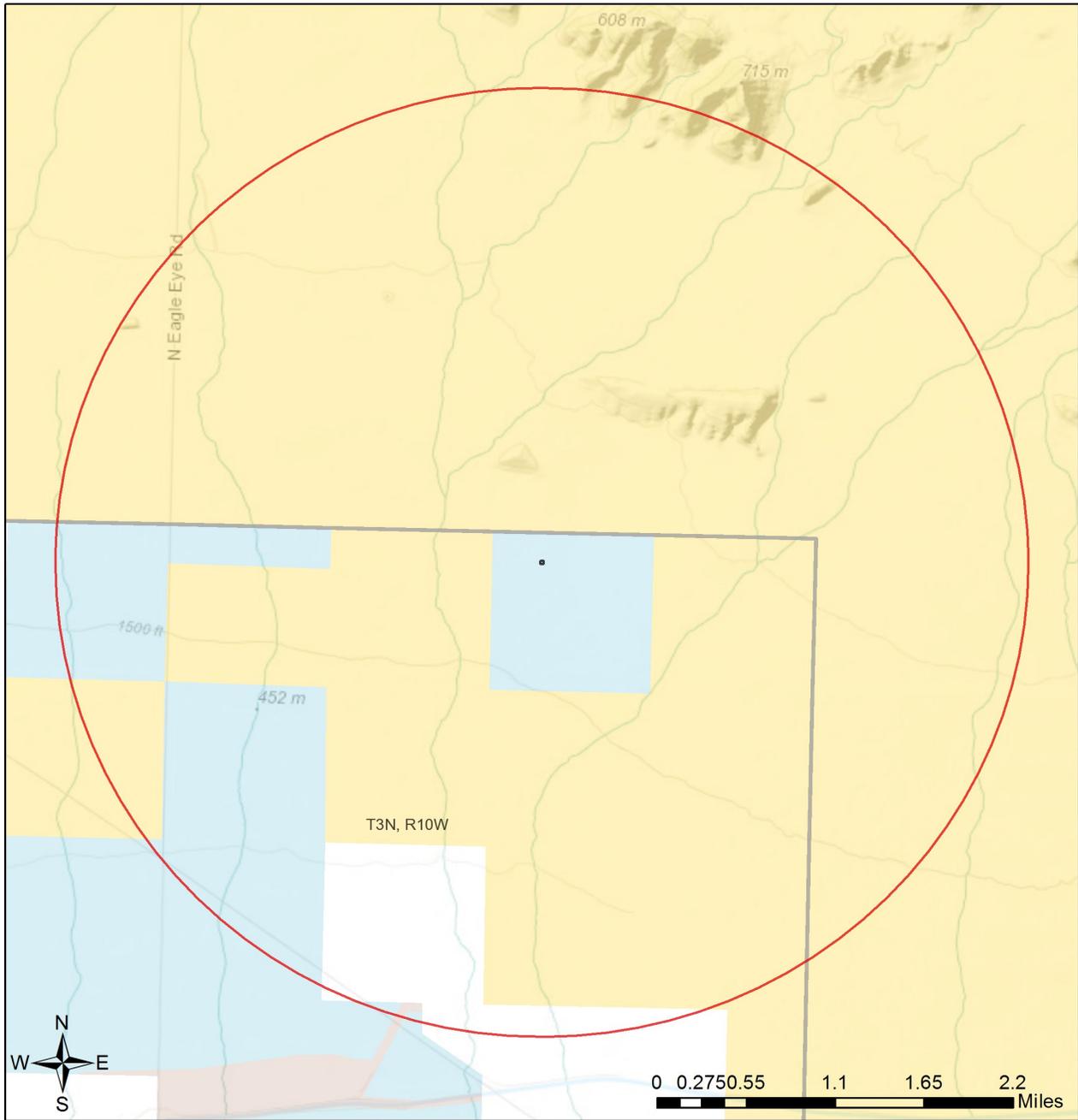
- Project Boundary
- Buffered Project Boundary

Project Size (acres): 0.23
Lat/Long (DD): 33.6360 / -113.2606
County(s): Maricopa
AGFD Region(s): Yuma
Township/Range(s): T3N, R10W
USGS Quad(s): WELDON HILL

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

WMDF #2 Wildlife Water

Topo Basemap With Township/Ranges and Land Ownership



- | | |
|---------------------------|--------------------------|
| Project Boundary | Mixed/Other |
| Buffered Project Boundary | National Park/Mon. |
| Township/Ranges | Private |
| AZ Game and Fish Dept. | State and Regional Parks |
| BLM | State Trust |
| BOR | US Forest Service |
| Indian Res. | Wildlife Area/Refuge |
| Military | |

Project Size (acres): 0.23
 Lat/Long (DD): 33.6360 / -113.2606
 County(s): Maricopa
 AGFD Region(s): Yuma
 Township/Range(s): T3N, R10W
 USGS Quad(s): WELDON HILL

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

No Documented Occurrences of Special Status Species

No special status species were documented as occurring within the project vicinity; however, further field investigations of the project area are highly recommended. Site visits may reveal previously unrecorded resources of special concern in locations where they are currently undocumented.

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

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
<i>Ammospermophilus harrisi</i>	Harris' Antelope Squirrel					1B
<i>Buteo regalis</i>	Ferruginous Hawk	SC		S		1B
<i>Colaptes chrysoides</i>	Gilded Flicker			S		1B
<i>Corynorhinus townsendii pallescens</i>	Pale Townsend's Big-eared Bat	SC	S	S		1B
<i>Euderma maculatum</i>	Spotted Bat	SC	S	S		1B
<i>Eumops perotis californicus</i>	Greater Western Bonneted Bat	SC		S		1B
<i>Gopherus morafkai</i>	Sonoran Desert Tortoise	C*	S			1A
<i>Heloderma suspectum</i>	Gila Monster					1A
<i>Incilius alvarius</i>	Sonoran Desert Toad					1B
<i>Lasiurus xanthinus</i>	Western Yellow Bat		S			1B
<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>Melospiza lincolni</i>	Lincoln's Sparrow					1B
<i>Melospiza aberti</i>	Abert's Towhee		S			1B
<i>Myotis velifer</i>	Cave Myotis	SC		S		1B
<i>Myotis yumanensis</i>	Yuma Myotis	SC				1B
<i>Nyctinomops femorosaccus</i>	Pocketed Free-tailed Bat					1B
<i>Passerculus sandwichensis</i>	Savannah Sparrow					1B
<i>Perognathus amplus</i>	Arizona Pocket Mouse					1B
<i>Perognathus longimembris</i>	Little Pocket Mouse					1B
<i>Tadarida brasiliensis</i>	Brazilian Free-tailed Bat					1B
<i>Thomomys bottae subsimilis</i>	Harquahala Southern Pocket Gopher	SC				1B
<i>Toxostoma lecontei</i>	Le Conte's Thrasher					1B
<i>Vireo bellii arizonae</i>	Arizona Bell's Vireo					1B
<i>Vulpes macrotis</i>	Kit Fox					1B

Species of Economic and Recreation Importance Predicted within Project Vicinity

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
<i>Callipepla gambelii</i>	Gambel's Quail					
<i>Odocoileus hemionus</i>	Mule Deer					
<i>Pecari tajacu</i>	Javelina					
<i>Puma concolor</i>	Mountain Lion					
<i>Zenaida asiatica</i>	White-winged Dove					

Project Type: Water Use, Transfer, and Channel Activities, Water storage, Tanks

Project Type Recommendations:

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 http://www.azgfd.gov/h_f/hunting_rules.shtml

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.

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

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>).