

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

Game Branch / HPC Project Number:	15-402
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**PROJECT INFORMATION**

<b>Project Title:</b> WMDF #1 Pump Mine Wash Wildlife Water	
<b>Region and Game Management Unit:</b> Region IV and GMU 42	
<b>Local Habitat Partnership Committee (LHPC):</b> • Southwest	<b>Was the project presented to the LHPC?</b> YES[] NO[x]
<b>Has this project been submitted in previous years?</b> YES[] NO[x] <b>If Yes, was it funded?</b> YES[] NO[] → <b>Funded HPC Project #(s):</b>	
<b>Project Type:</b> Wildlife Water Development	
<b>Brief Project Summary:</b> Develop a new wildlife water in a remote section of Game Management Unit 42 (nearest water is over 5 miles away). Proposal is a buried 24" PVC storage system (10,000+ gallons) with a natural collection point and walk-in trough. Primary big game species is mule deer however desert bighorn sheep have been documented in the area and may use the system.	
<b>Big Game Wildlife Species to Benefit (% benefit per species) :</b> 90% Mule Deer 10% Desert Bighorn	

<b>Implementation Schedule</b> (Month/Day/Year):  <u>Project Start Date:</u> January 1, 2016  <u>Project End Date:</u> April 30, 2016	<b>Environmental Compliance:</b> NEPA Completed: Yes[] No[] N/A[x] Projected Completion Date: _____  State Historic Preservation Office - Archaeological Clearance: (Provide Attachment) Yes[] No[x] N/A[] 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[] To be Completed by: <u>Craig Heath</u> Projected Completion Date: September 30, 2015
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**PROJECT FUNDING**

<b>Special Big Game License Tag Funds Requested:</b>	\$ 19,750
<b>Cost Share or Matching Funds:</b>	\$ 4,970
<b>Total Project Costs:</b>	<b>\$ 24,720</b>

**PARTICIPANT INFORMATION**

<b>Applicant</b> (please print): Craig Heath	<b>Address:</b> 9140 E. 28 <sup>th</sup> Street Yuma, AZ 85365	<b>E-mail:</b> cheath@azgfd.gov
<b>Telephone:</b> 928-856-0764	<b>Date:</b> 8/24/15	

<b>AGFD Contact and Phone No.</b> (If applicant is not AGFD personnel):
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**Project has been coordinated with:**

Arizona State Land Department – Willie Sommers

Mule Deer Foundation – Terry Herndon and the Wickenburg MDF Chapter

**NEED STATEMENT – PROBLEM ANALYSIS:**

Long term drought has impacted the habitat and wildlife populations in Game Management Unit (GMU) 42. Mule Deer population estimates have declined over 50% in the last 25 years. Currently there are no reliable water sources within 5 miles of the project site. Mule deer use of the habitat varies with the intermittent rainfall patterns and available water sources (livestock tanks and wells). Creating a buried PVC system will provide a reliable, low visibility / low maintenance water source for big game and other wildlife species.

**PROJECT OBJECTIVES:**

Increase the quality and use of available mule deer (and bighorn sheep) habitat by providing a reliable water source.

**PROJECT DESCRIPTION AND STRATEGIES:**

(How will you implement project)

Using volunteer labor provided by the Wickenburg chapter of the Mule Deer Foundation we will create a perennial water source by constructing an underground water storage system (24” PVC pipe) with a natural collection point.

**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)

The project is located northwest of Sugarloaf Mountain in GMU 42, Maricopa County.

PROJECT LOCATION	LANDOWNER AND/OR SITE NAME	TOWNSHIP	RANGE	SEC.	UTM (NAD 83) or GPS COORDINATES	
	ASLD / WMDF#1	5N	8W	31	(Northing / Lat.)	(Easting / Long.)
					3733791m	303823m

**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 a section of Arizona State Land (map attached).

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

YES[] NO[] N/A[]

**HABITAT DESCRIPTION:**

Sugarloaf Mountain to the south is a rugged mountain ranging in elevation from 2000' at the base to 3419'. The topography is mostly gently rolling hills with some rugged cliffs. The Sonoran desertscrub vegetative community encompasses the mountain range with two sub-divisions evident: the Upper Sonoran desertscrub community and the Lower Sonoran desertscrub community as described by Brown and Lowe (1980).

The nearest perennial deer water is 5.8 miles to the northeast (AGFD catchment 656).

**ITEMIZED USE OF FUNDS:**

Special Big Game License Tag Funds

24" Pipe = (\$24.80/foot) 500' x \$24.80.....	\$12,400
Walk-in 3' fiberglass trough.....	\$800
End Caps = (\$239.35 ea.) x5.....	\$1,196.75
End Caps w/2" offset fittings (\$290.49 ea.) x5.....	\$1,452.45
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.....	  \$19,749.20

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 Development Branch (Water Rights Application), Habitat Branch and State Land Department will complete the necessary environmental clearances for the project. AGFD Region IV will provide construction coordination including transport of necessary tools and material to and from the project area. Volunteer labor associated with construction of the water development will be coordinated with local Mule Deer Foundation volunteers in Region IV.

**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 the Regional water development protocol.

**PROJECT MAINTENANCE:**

AGFD Region IV will maintain the wildlife water according to the Regional water development protocol.

**PROJECT COMPLETION REPORT TO BE FILED BY:**

Craig Heath  
Wildlife Manager III  
Region IV, Yuma

**WATER DEVELOPMENT PROJECTS (please use the worksheet below):**

Attached.

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

**ATTACHMENTS:**

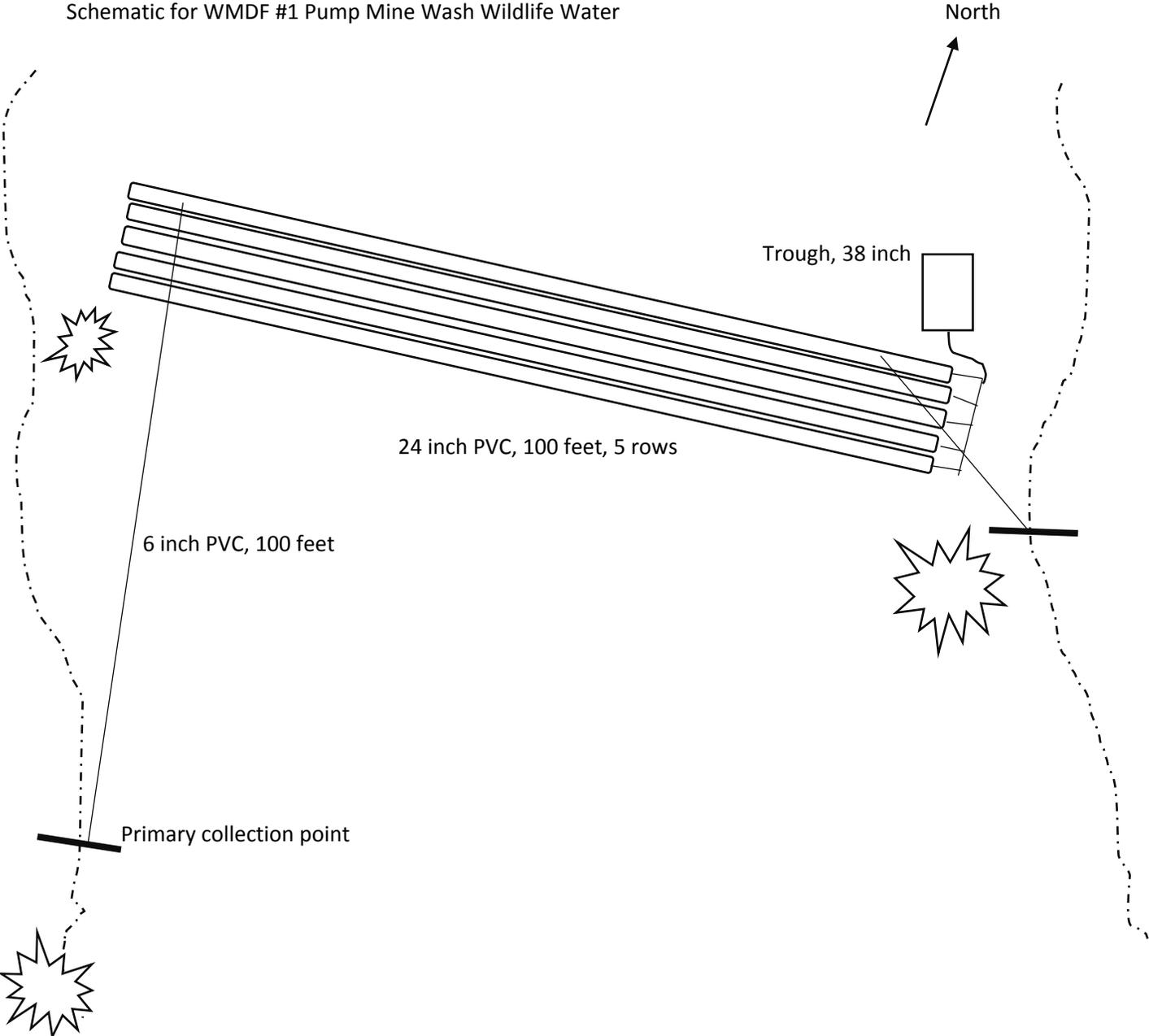
(Please provide cultural clearance documentation from land management agency, e.g., FONSI, Inventory Standards, etc. Also attach any project pictures)

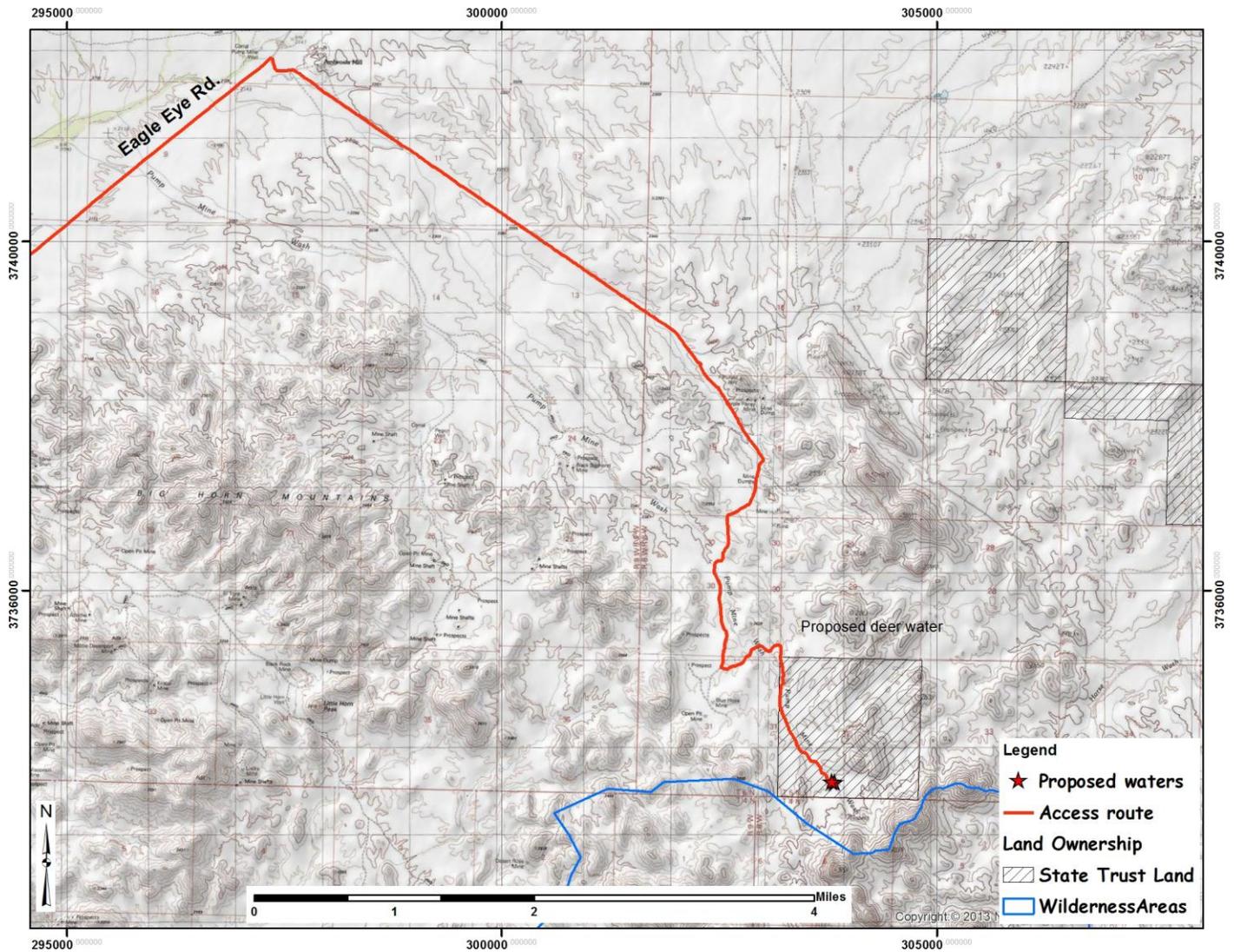
## **ARIZONA GAME AND FISH DEPARTMENT** **WATER DEVELOPMENT WORKSHEET**

**PROJECT TITLE:** WMDF #1 Pump Mine Wash Wildlife Water

- 1) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”** Yes. 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 and Ed Jahrke August 21, 2015
- 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 2 miles north and south 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.**  
None
- 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: \_\_\_\_\_ Approximate hiking time: \_\_\_\_\_  
  
-- Does access to this site require crossing private or tribal lands? YES  NO   
  
-- Please describe any restrictions to public access: None
- 9) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**  
Attached Schematic below.
- 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

Schematic for WMDF #1 Pump Mine Wash Wildlife Water





Map of proposed WMDF #1 Pump Mine Wash Wildlife Water

## **ARIZONA GAME AND FISH DEPARTMENT**

# **VOLUNTEER HOURLY RATES AND CLASSIFICATIONS WORKSHEET**

**PROJECT TITLE:** WMDF #1 Pump Mine Wash 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](http://www.hr.state.az.us/ClassComp/CC_Job_Titles_with_Ranges.asp)

\$0.445/mile should be the calculation used for mileage.

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

# 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 #1 Pump Mine Wash Wildlife Water

**Project Description:**

Using volunteer labor provided by the Wickenburg chapter of the Mule Deer Foundation we will create a perennial water source by constructing an underground water storage system (24" PVC pipe) with a natural collection point. Equipment will be transported to the site by existing roads. A backhoe will excavate a trench capable of burying 5, 100-foot rows of 24 inch PVC pipe and a walk-in drinker (see attached schematic). A small (~1 foot) diversion dam will be constructed to divert natural runoff into the buried storage system for wildlife use.

**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-02054

***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](mailto: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 #1 Pump Mine Wash Wildlife Water Aerial Image Basemap With Locator Map



- Project Boundary
- Buffered Project Boundary

Project Size (acres): 0.29

Lat/Long (DD): 33.7259 / -113.1157

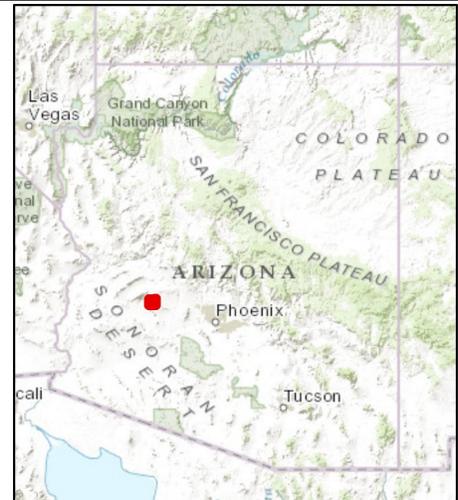
County(s): Maricopa

AGFD Region(s): Yuma

Township/Range(s): T5N, R8W

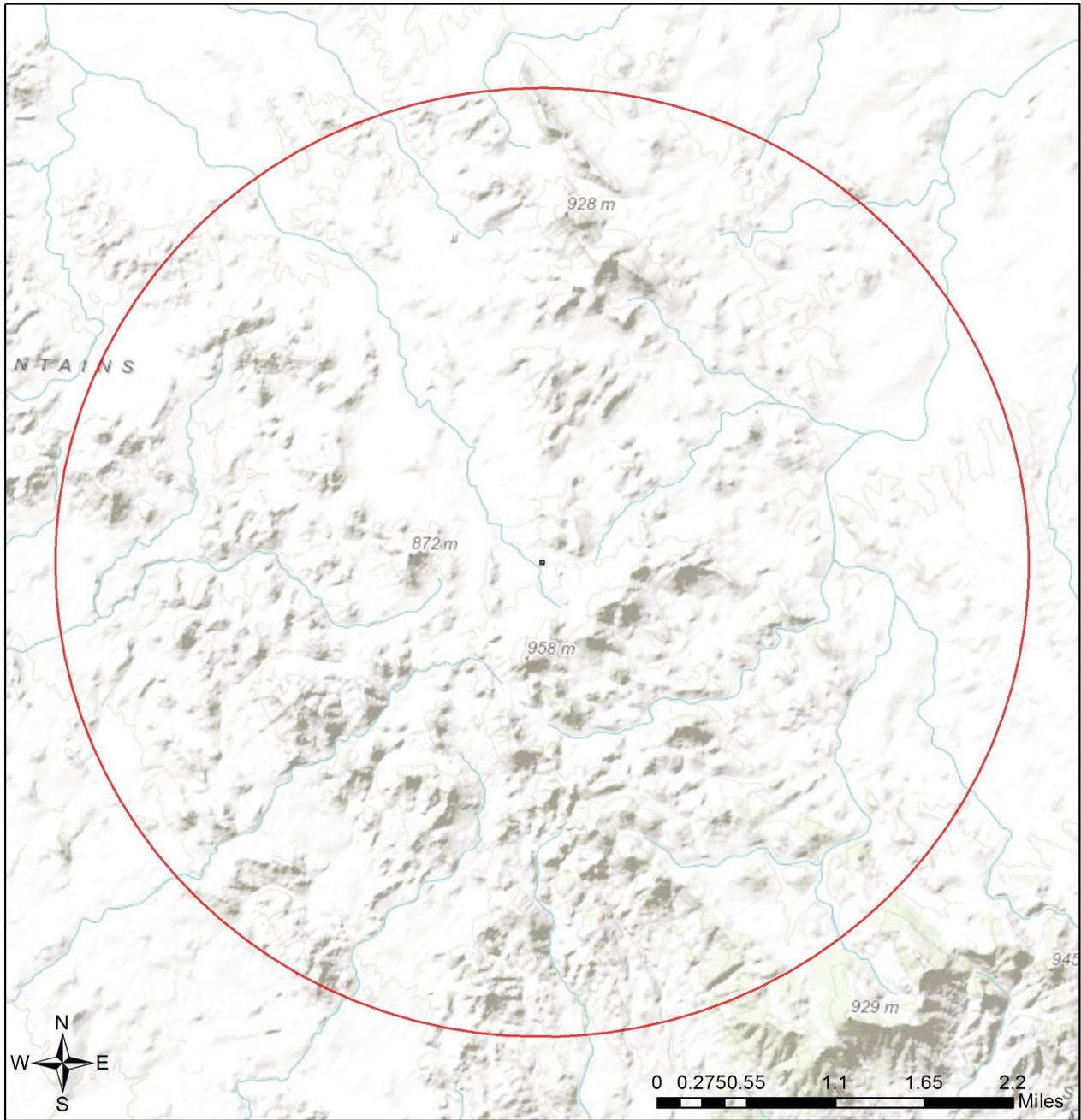
USGS Quad(s): HUMMINGBIRD SPRING

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 #1 Pump Mine Wash Wildlife Water

## Web Map As Submitted By User



- Project Boundary
- Buffered Project Boundary

Project Size (acres): 0.29  
Lat/Long (DD): 33.7259 / -113.1157  
County(s): Maricopa  
AGFD Region(s): Yuma  
Township/Range(s): T5N, R8W  
USGS Quad(s): HUMMINGBIRD SPRING

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

## WMDF #1 Pump Mine Wash Wildlife Water

### Topo Basemap With Township/Ranges and Land Ownership



- |                           |                          |                                    |
|---------------------------|--------------------------|------------------------------------|
| Project Boundary          | Mixed/Other              | Project Size (acres): 0.29         |
| Buffered Project Boundary | National Park/Mon.       | Lat/Long (DD): 33.7259 / -113.1157 |
| Township/Ranges           | Private                  | County(s): Maricopa                |
| AZ Game and Fish Dept.    | State and Regional Parks | AGFD Region(s): Yuma               |
| BLM                       | State Trust              | Township/Range(s): T5N, R8W        |
| BOR                       | US Forest Service        | USGS Quad(s): HUMMINGBIRD SPRING   |
| Indian Res.               | Wildlife Area/Refuge     |                                    |
| Military                  |                          |                                    |

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

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

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Echinomastus johnsonii	Johnson's Fishhook Cactus				SR	
Gopherus morafkai	Sonoran Desert Tortoise	C*	S			1A

Note: Status code definitions can be found at [http://www.azgfd.gov/w\\_c/edits/hdms\\_status\\_definitions.shtml](http://www.azgfd.gov/w_c/edits/hdms_status_definitions.shtml).

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

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Ammospermophilus harrisi	Harris' Antelope Squirrel					1B
Anthus spragueii	Sprague's Pipit	C*				1A
Athene cucularia hypugaea	Western Burrowing Owl	SC	S	S		1B
Buteo regalis	Ferruginous Hawk	SC		S		1B
Chilomeniscus stramineus	Variable Sandsnake					1B
Colaptes chrysoides	Gilded Flicker			S		1B
Corynorhinus townsendii pallescens	Pale Townsend's Big-eared Bat	SC	S	S		1B
Euderma maculatum	Spotted Bat	SC	S	S		1B
Eumops perotis californicus	Greater Western Bonneted Bat	SC		S		1B
Gopherus morafkai	Sonoran Desert Tortoise	C*	S			1A
Heloderma suspectum	Gila Monster					1A
Incilius alvarius	Sonoran Desert Toad					1B
Lasiurus xanthinus	Western Yellow Bat		S			1B
Lithobates yavapaiensis	Lowland Leopard Frog	SC	S	S		1A
Macrotus californicus	California Leaf-nosed Bat	SC		S		1B
Melanerpes uropygialis	Gila Woodpecker					1B
Melospiza lincolni	Lincoln's Sparrow					1B
Micruroides euryxanthus	Sonoran Coralsnake					1B
Myotis velifer	Cave Myotis	SC		S		1B
Myotis yumanensis	Yuma Myotis	SC				1B
Nyctinomops femorosaccus	Pocketed Free-tailed Bat					1B
Passerculus sandwichensis	Savannah Sparrow					1B
Perognathus amplus	Arizona Pocket Mouse					1B
Perognathus longimembris	Little Pocket Mouse					1B
Phrynosoma solare	Regal Horned Lizard					1B
Tadarida brasiliensis	Brazilian Free-tailed Bat					1B
Thomomys bottae subsimilis	Harquahala Southern Pocket Gopher	SC				1B
Toxostoma lecontei	Le Conte's Thrasher					1B
Vireo bellii arizonae	Arizona Bell's Vireo					1B
Vulpes macrotis	Kit Fox					1B

### Species of Economic and Recreation Importance Predicted within Project Vicinity

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Callipepla gambelii	Gambel's Quail					
Odocoileus hemionus	Mule Deer					
Pecari tajacu	Javelina					
Puma concolor	Mountain Lion					
Zenaida asiatica	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](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>).

#### 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

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: <http://www.azgfd.gov/hgis/pdfs/Tortoisehandlingguidelines.pdf>

