

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

Game Branch / HPC Project Number:	13-403
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**PROJECT INFORMATION**

<b>Project Title:</b> Wildlife Water #595 Redevelopment	
<b>Region and Game Management Unit:</b> Region IV; GMU 42	
<b>Local Habitat Partnership Committee (LHPC):</b> • Southwest	<b>Was the project presented to the LHPC?</b> YES[X] NO[]
<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> Water Development	
<b>Brief Project Summary:</b> Redevelop wildlife water # 595 to increase storage capacity, eliminate annual water hauling by Development Branch and continue to provide permanent water for wildlife.	
<b>Big Game Wildlife Species to Benefit:</b> mule deer (primary); javelina (secondary)	
<b>Implementation Schedule</b> (Month/Day/Year):  <u>Project Start Date:</u> 1-1-15  <u>Project End Date:</u> 4-30-15	<b>Environmental Compliance:</b> NEPA Completed: Yes[] No[] N/A[] Projected Completion Date: _____  State Historic Preservation Office - Archaeological Clearance: Yes[] No[X] N/A[] Projected Completion Date: _____  Arizona Game and Fish Department EA Checklist: N/A[] To be Completed by: <u>Development Branch</u> Projected Completion Date: _____

**PROJECT FUNDING**

<b>Special Big Game License Tag Funds Requested:</b>	\$ 22,550
<b>Cost Share or Matching Funds:</b>	\$ 4,000
<b>Total Project Costs:</b>	\$ 26,550

**PARTICIPANT INFORMATION**

<b>Applicant</b> (please print): Dave Conrad	<b>Address:</b> 9140 E. 28 <sup>th</sup> Street Yuma, AZ 85365	<b>E-mail:</b> dconrad@azgfd.gov
<b>Telephone:</b> 623-910-7872		<b>Date:</b>

**AGFD Contact and Phone No.** (If applicant is not AGFD personnel):

**Project has been coordinated with:** State Trust Land Department, Development Branch

**NEED STATEMENT – PROBLEM ANALYSIS:**

AGFD wildlife water #595 is located at the base of the Divide Mountains in quality deer habitat. The catchment was originally constructed in 1961 and modified to increase its capacity in 1984. The original concrete vault system continues to function but the storage capacity is small and requires annual water hauling. Stock tanks, cattle wells and AGFD water developments are the primary water source for wildlife in this area. During most years the stock tanks dry up and water availability at dilapidated well sites is unreliable. Additionally, cattle waters have multiple layers of fencing, corrals and dense vegetation which lead to decreased wildlife usage and increased mortality.

**PROJECT OBJECTIVES:**

Provide wildlife with reliable water source during critical summer and fall seasons. Reduce long-term maintenance and cost while increasing storage capacity (10,000 gal) and reliability using a tested, buried, gravity fed water catchment system utilizing multiple collection sources.

**PROJECT DESCRIPTION AND STRATEGIES:**

Remove the ring tank and tin apron and replace with a 10,000 gallon buried PVC system (including fiberglass walk-in drinker) utilizing a collection dam that will capture surface runoff. Overflow from the existing concrete apron/vault will also be directed into the new PVC system. The concrete apron will be resurfaced and the current barbwire fence will be replaced with the Department standard pipe-rail fence. The capacity of the current system is 7,500 gallons. The capacity of the proposed system will be 10,000 gallons.

**PROJECT LOCATION:**

Yavapai County  
T.9N, R.7W, S35  
34° 05.027' 112° 56.933'

**LAND OWNERSHIP AT THE PROJECT SITE(S):** State Land Department  
(if the project area is private property, please state specifically and provide the landowner's name)

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*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:**

The Divide Mountain range is characterized as an isolated mountain range encompassed by creosote dominated bajadas laced with large sand washes. The Divides range in elevation from 2600 ft. at their base to 3550 ft. at their highest peak. The dominant vegetative community is Sonoran desertscrub with two sub-divisions evident: the Upper Sonoran desertscrub community and the Lower Sonoran desertscrub community as described by Brown and Lowe (1980). Dominant plant species include Creosote bush (*Larrea tridentate*), velvet mesquite (*Prosopis velutina*), palo verde (*Cercidium microphyllum*), catclaw (*Acacia greggii*) and white bursage (*Ambrosia dumosa*). The nearest Department wildlife water is 2.1 miles to the south (#594).

**ITEMIZED USE OF FUNDS:**

Special Big Game License Tag Funds

**PVC Storage Tank** (storage capacity will depend upon unforeseen obstructions when excavating)

**\$10,724** (24" dia. x 20' sections; \$26.81/ft. X 400')

**\$1,024** (24" dia. end caps; \$256.18 X 4)

**\$1,146** (24" dia. end caps with 2 in adapter; \$286.72 X 4)

**Fiberglass walk-in trough**

**\$800 (36 in.)**

**Department standard pipe rail fence**

**\$2,700** (\$6/ft. X 450')

**Miscellaneous plumbing materials**

**\$2,000**

**Water rights application (Arizona Department Water Resources)**

**\$1,000**

**Application to Place Improvement (Arizona State Land Department)**

**\$150**

**Archeological Clearance**

**\$3,000**

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

**Equipment Operator and Backhoe**

**\$1,380** (Southwest Hunting Adventures; \$345/day X 4 days)

**Volunteer labor**

**\$2,618** (10 volunteers for 160 hours)

**LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION: Southwest Hunting Group**

**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 monitor water levels according to the Regional water development protocol.

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

Dave Conrad, FOR4

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

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

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

**PROJECT TITLE:** \_\_\_\_\_

- 1) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”**
- 2) **Please list the Development Branch personnel and date coordinated with for this project.**
- 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: 594

Type of water source (catchment, spring, dirt tank): catchment

Ownership of water source: AZGFD

Distance in miles from project: 2.2

- 6) **Is the target wildlife species a result of transplant efforts? YES   NO**

- 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: Sate Trust Land restrictions

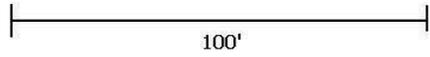
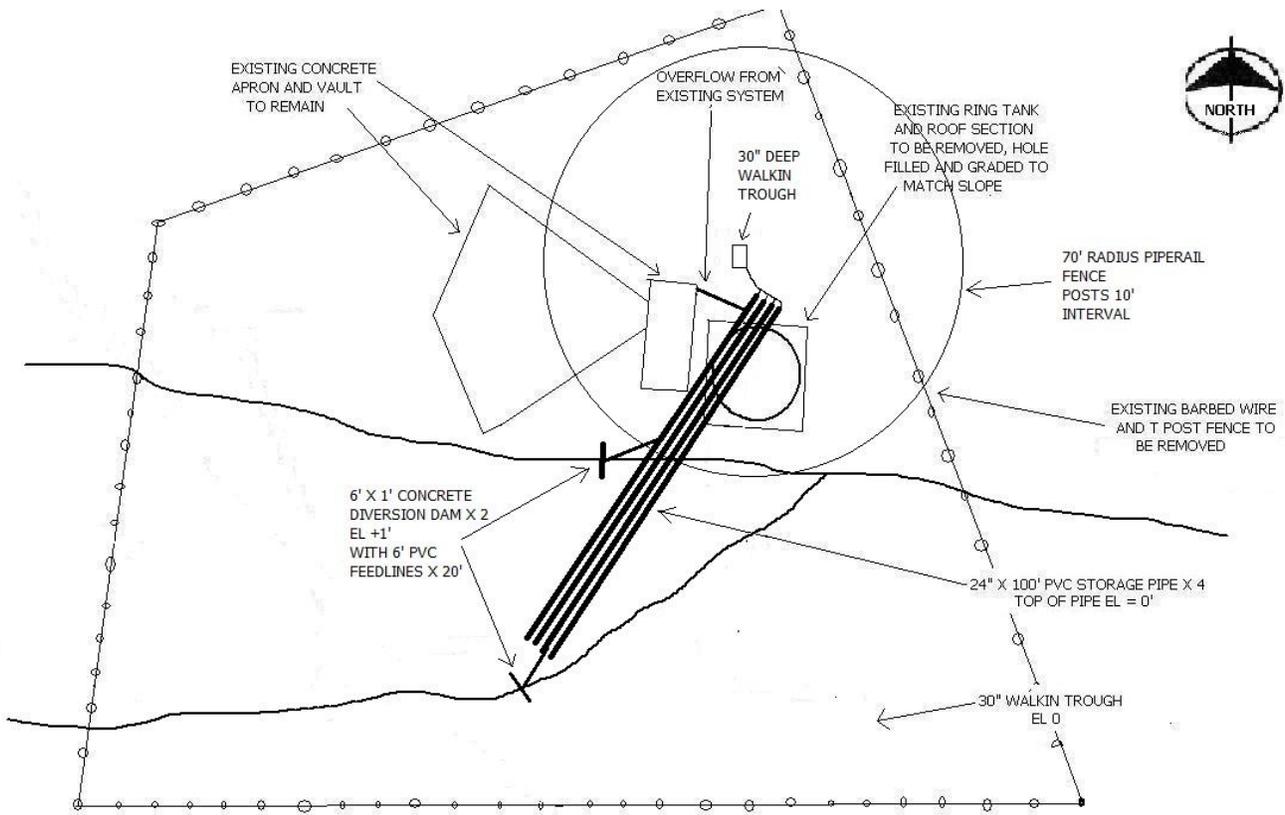
- 9) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**

See attached schematic

- 10) **Was a site visit completed? Yes   No**

If Yes, please list personnel that attended and date.

Curtis Herbert, Dave Conrad; May 2012



**ARIZONA GAME AND FISH DEPARTMENT**

SCHEMATIC DRAWING OF: # 595  
 N 34 5.007 W 112 56.947  
 YAVAPAI COUNTY, ARIZONA

BY	DAVE CONRAD	DATE	8-18-12
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