

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

Game Branch / HPC Project Number:	14-406
Possible Funding Partners:	

PROJECT INFORMATION

Project Title: Re-construction of Red Cliffs #996 Water Development

Region and Game Management Unit: Region 4/ GMU 44A

Local Habitat Partnership Committee (LHPC):
 • SW Arizona

Was the project presented to the LHPC?
 YES[X] NO[]

Has this project been submitted in previous years? YES[X] NO[]
If Yes, was it funded? YES[X] NO[] → **HCP Project #:** 12-408

Project Type: Water Development

Brief Project Summary:

Existing development is a 4500 gallon fiberglass ring tank using a natural collection in a large drainage. Proposal is to add a new water collection point and to use 300' of 4" Gruvloc steel pipe to create a new feed line into the existing tank. The EA and minimum tools analysis was completed for the project but it was not implemented because the road was too deteriorated to allow volunteer access.

Big Game Wildlife Species to Benefit: Primary-Bighorn Sheep, Secondary-Mule Deer

Implementation Schedule (Month/Day/Year):

Project Start Date:
02/01/2015

Project End Date:
05/31/2015

Environmental Compliance:

NEPA Completed: YES[] No[X] N/A[]

Projected Completion Date: 12/01/2014

*EA completed but needs to be amended

State Historic Preservation Office - Archaeological Clearance:

YES[] No[] N/A[X]

Projected Completion Date: BLM completed archeological clearance and cultural clearance in 2013.

Arizona Game and Fish Department EA Checklist: N/A[]

To be Completed by: Suzanne Ehret

Projected Completion Date: 01/01/2015

PROJECT FUNDING

Special Big Game License Tag Funds Requested: \$ 23,555

Cost Share or Matching Funds: \$ 29,280

Total Project Costs: \$ 52,835

PARTICIPANT INFORMATION

Applicant (please print):
Dave Conrad

Address:
9140 E 28th St.
Yuma, AZ 85365

E-mail:
dconrad@azgfd.gov

Telephone: 623-910-7872

Date: 08/11/2014

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

Project has been coordinated with:

Jen House and Amanda Deeds, of the Bureau of Land Management Lake Havasu Field Office

NEED STATEMENT – PROBLEM ANALYSIS:

Existing development is a 4500 gallon fiberglass ring tank using a natural collection in a large drainage. This water development is frequently used by desert bighorn sheep. This current system is ineffective and financially costly. Red Cliffs water development typically needs supplemental water hauling via helicopter at least 50% of the years.

PROJECT OBJECTIVES:

The objective is to augment the old water development with a new additional water collection point. This will improve water availability to desert bighorn sheep and significantly reduce water hauling by helicopter.

PROJECT DESCRIPTION AND STRATEGIES:

The plan is to construct a new water collection point in a nearby small drainage to increase water collection during rainfall. The collection point will be constructed of cement and native rock to reduce visibility and be approximately 4' long and 8" in height. Three hundred feet of steel 4" Gruvlok piping will be used to carry the water to the existing tank. The new pipe will be buried up until the point it reaches the existing pipeline which it will overlay the existing pipeline to the tank. The lid of the ring tank will also receive some maintenance. The lid will be taken off and allowed to reshape. It will then be sanded and either repainted to better match the surrounding area or receive a layer of gel coat.

The road to the wilderness boundary from either direction has severely deteriorated over time. In addition there is a 2 mile hike from the boundary to the project site. A helicopter would be used to fly in labor, materials and equipment.

PROJECT LOCATION:

Buckskin Mountains, La Paz Co., AZ, (34° 12.898' 114° 7.036')

LAND OWNERSHIP AT PROJECT SITE (Please state specifically if PRIVATE PROPERTY and provide landowner's name):

Bureau of Land Management (Lake Havasu City Field Office)

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

YES[] NO[]

HABITAT DESCRIPTION:

The Buckskin Mountains have elevations ranging from near the Colorado River at approximately 400' to about 1888' at Giers Mountain. The topography ranges from gentle bajadas and rolling hills to high benches, rugged cliffs, ridges, and mesas. Both Arizona Upland and Lower Colorado River subdivisions of Sonoran desert scrub occur in the proposal area.

ITEMIZED USE OF FUNDS:

Special Big Game License Tag Funds

Materials:

315' of 4" Gruvlok steel pipe = \$5.9/ft =1876.61
12 Joint connectors=\$31.99@=\$383.88
5 @ 45 degrees angle joint connectors=38.88@=\$194.40
4 @ 90 degrees angle joint connectors=38.88@=\$155.52
2 @ 22.5 degrees angle joint connectors= 41.98@=83.96
4 @ cut charge = \$16
4 @ roll groove charge = \$16

Total = \$2726.37

Helicopter Time:

Fly in materials and volunteers – 1 ship, 3 days, 10 hours@ \$1,600/hr. = \$16,000
Ferry- 3 hours @ \$1000/hr. = \$3,000
Fuel truck mileage @ 1.50/mile x 550 miles = \$825

Total = \$20,825

Total= \$23, 551

Cost Share or Matching Funds

ADBSS Match:

Volunteer labor- \$183/day @ 160 man days \$29,280

Region 4 & Development Branch will supply:

3-5 ninety pound bags of cement for dam
Hand tools to move rock and mix cement
5-gallon buckets for mixing cement and hauling rock
Wire-brushes, dust masks
Paint rollers & paint for lid, color pigment for dam
Hardware cloth to cover intake and prevent debris from entering pipeline
Wireless saw to drill hole in lid for new piping and cut pipe if needed
Safety vests and hardhats for helicopter work
Generator if needed to run electric hand tools

Previously the funds requested through HPC and awarded were used to pay for the the application & permit of a surface water right for this project.

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

AGFD Region IV in conjunction with Habitat Branch, Development Branch and BLM personnel will complete the needed environmental and cultural clearances for project completion. So far the water right has been obtained from ADWR and BLM has coordinated cultural and archeological clearance for the original project. AGFD Region IV and Development branch will provide construction coordination including transport of necessary tools and material to and from the staging area. The ADBSS will be providing volunteer labor for construction of the water development.

PROJECT MONITORING PLAN:

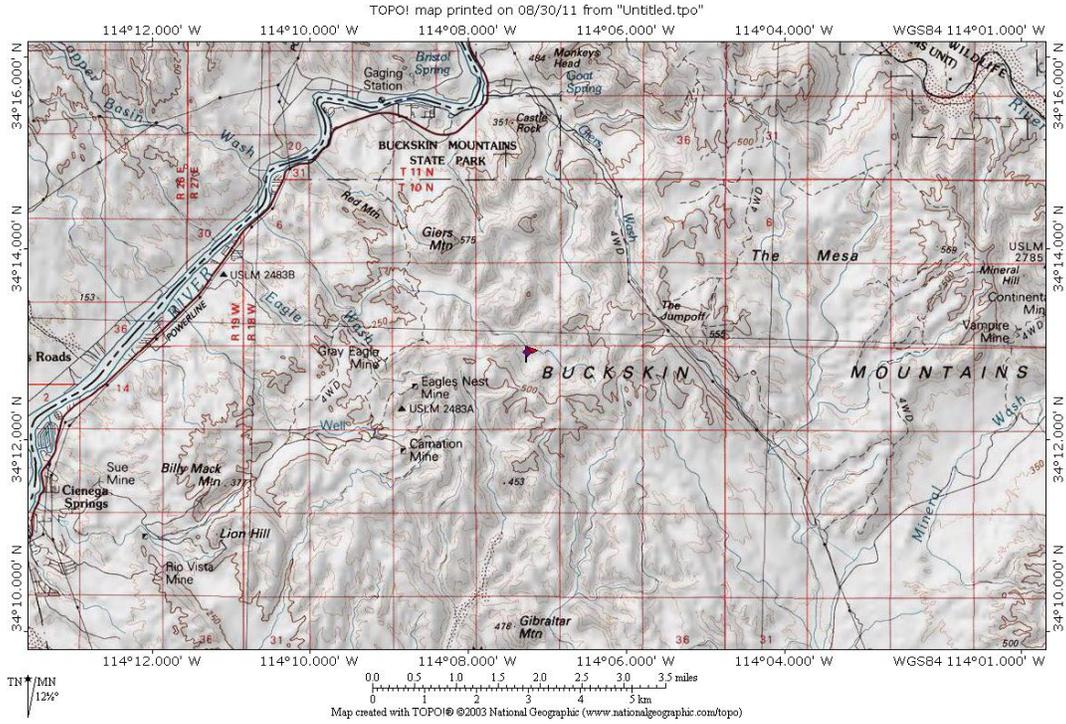
AGFD Region IV will monitor water levels according to the Regional water development protocol.

PROJECT MAINTENANCE:

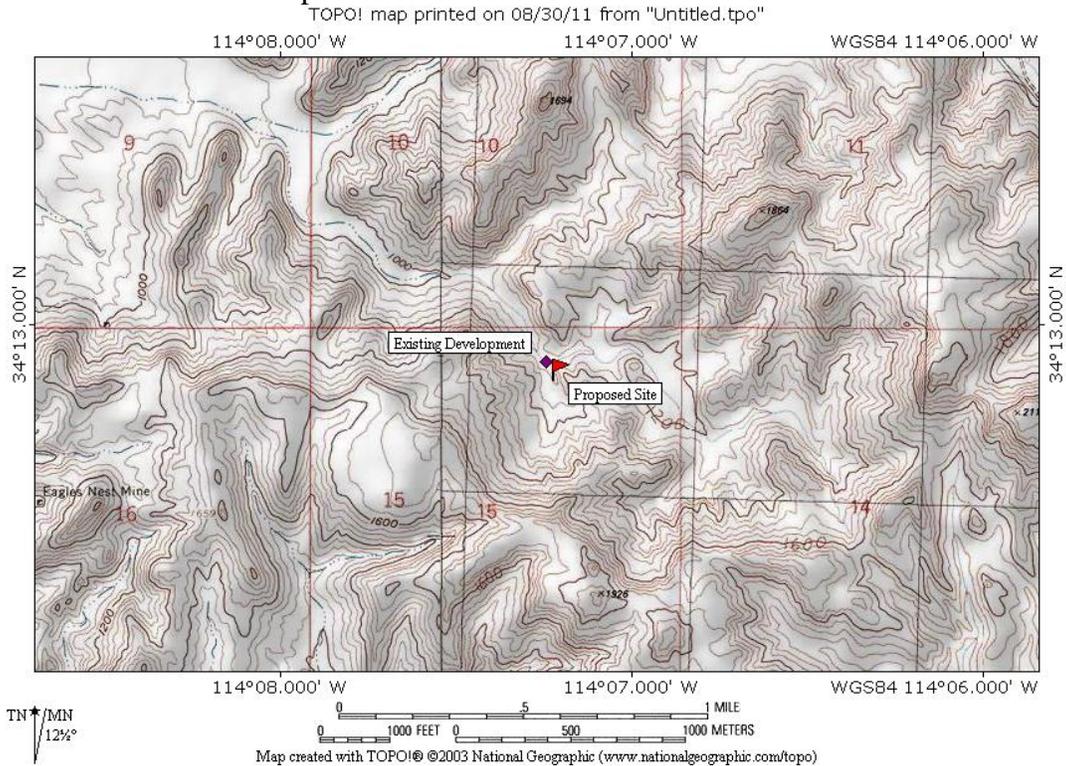
AGFD Region IV or Development Branch will conduct any needed maintenance.

PROJECT COMPLETION REPORT TO BE FILED BY: Suzanne Ehret, AGFD Region IV

Overview of re-construction site for Red Cliffs



Proposed re-construction site for Red Cliffs



ARIZONA GAME AND FISH DEPARTMENT
WATER DEVELOPMENT WORKSHEET

PROJECT NAME: Re-construction of Red Cliffs #996 Water Development

- 1) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”** Yes

- 2) **Please list the Development Branch personnel and date coordinated with for this project.**
Ed Jarhke 8-7-2014 and 8-8-2014, materials costs and helicopter use
Joe Currie 8-8-2014 and in the past regarding the water right

- 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: Giers Catchment #628
Type of water source (catchment, spring, dirt tank): Catchment
Ownership of water source: AZGFD
Distance in miles from project: 2.5

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

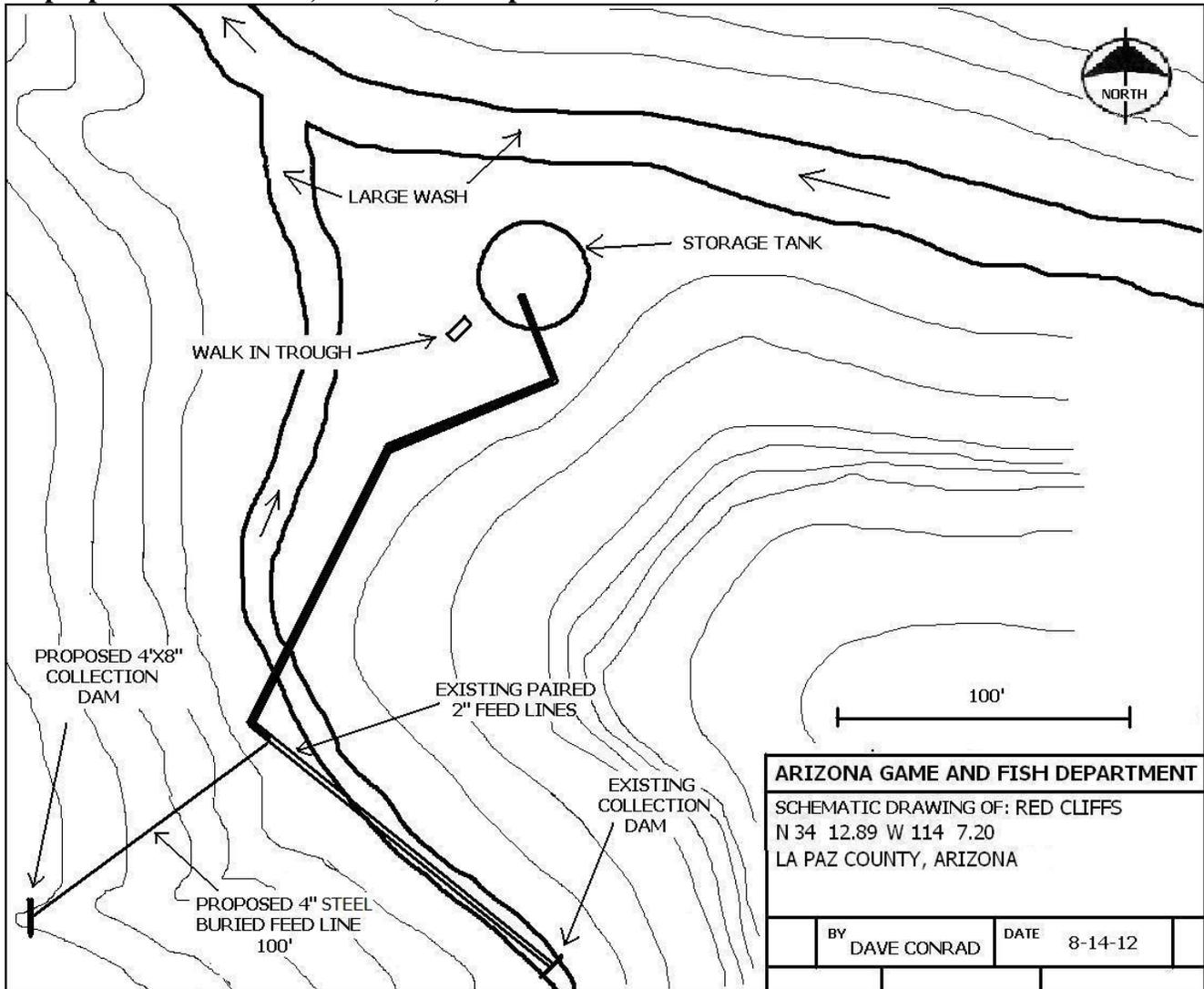
- 7) **Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument). If private land, list landowner.**
Within BLM Gibraltar Wilderness

- 8) **Please provide the following information about access to the proposed site:**
Type of access (mark one): 2x4 vehicles 4x4 only foot**
**If foot access only: Distance in miles: 2 mi Approximate hiking time: 45 min.

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

-- Please describe any restrictions to public access: BLM Wilderness, non-motorized only

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



10) Was a site visit completed? Yes[x] No[]

If Yes, please list personnel that attended and date.

April 14, 2011

Dave Conrad, Field Supervisor, AZGFD

Suzanne Ehret, Wildlife Manager, AZGFD

February 2013

George Shannon, Archeologist, BLM Lake Havasu Field Office

Suzanne Ehret, Wildlife Manager, AZGFD

May 2013

Jen House, Wildlife Biologist, BLM Lake Havasu Field Office

Suzanne Ehret, Wildlife Manager, AZGFD