

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

Game Branch / HPC Project Number:	16-704
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PROJECT INFORMATION

Project Title: Boquillas Ranch Year Round Ranch Water Projects	
Region and Game Management Unit: 10	
Local Habitat Partnership Committee (LHPC): • Williams/Flagstaff	Was the project presented to the LHPC? YES[] NO[X]
Has this project been submitted in previous years? YES[X] NO[] If Yes, was it funded? YES[X] NO[] → Funded HPC Project #(s):	
Project Type: Water Development - Operation and Maintenance	
Brief Project Summary: Work with the Ranch Manager to improve water availability for wildlife by repairing broken water lines, improving water storage, maintaining wells, pumps, and drinkers, and improving or repairing dirt tanks.	

Big Game Wildlife Species to Benefit (% benefit per species) : elk 50%, pronghorn 50%

Implementation Schedule (Month/Day/Year): <u>Project Start Date:</u> 2/16/17 <u>Project End Date:</u> 2/16/18	Environmental Compliance: NEPA Completed: Yes[] No[] N/A[X] Projected Completion Date: _____ State Historic Preservation Office - Archaeological Clearance: <i>(Provide Attachment)</i> Yes[] No[] N/A[X] Projected Completion Date: _____ Arizona Game and Fish Department EA Checklist: N/A[] To be Completed by: <u>Use LRP programmatic EAC for projects</u> Projected Completion Date: _____
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PROJECT FUNDING

Special Big Game License Tag Funds Requested:	\$ 55,000
Cost Share or Matching Funds:	\$ 200,000
Total Project Costs:	\$ 255,000

PARTICIPANT INFORMATION

Applicant (please print): Al Eiden	Address: 5000 W carefree highway Phoenix, AZ 85086	E-mail: a.eiden@azgfd.gov
Telephone: 623-236-7624		Date: 9/1/16

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

Project has been coordinated with: Navajo Nation, Cholla Cattle Co, WM, AES,

NEED STATEMENT – PROBLEM ANALYSIS: reliable waters are scarce in the western half of GMU 10, as the Department has only 4 water catchments in the 800,000 acre Boquillas Ranch. To ensure reliable water for wildlife partnering with the ranch is essential. This project will be a collaborative effort where the ranch will improve dirt tanks and the water delivery system to ensure water will be available for wildlife

PROJECT OBJECTIVES: Ensure year round water for elk, pronghorn, and all other wildlife species occurring on the Boquillas Ranch

Build and foster a strong working relationship with the Navajo Nation and the Ranch manager for the Boquillas Ranch

PROJECT DESCRIPTION AND STRATEGIES:

(How will you implement project)

Funding will be provided to the ranch to improve projects selected from the attached list of improvements needed by the ranch. The Department's wildlife manager has reviewed these projects and agrees all will provide wildlife value.

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)

All projects will be located on the Boquillas Ranch. When projects are selected for funding, UTM locations and a map will be provided showing where these funds were used to improve water for wildlife.

LAND OWNERSHIP AT THE PROJECT SITE(S):

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

- State Trust Land and private

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

YES[X] NO[] N/A[] Access agreement through the 2017 hunting season

HABITAT DESCRIPTION:

To be determined upon selection of projects

ITEMIZED USE OF FUNDS:

Special Big Game License Tag Funds

On the ground project implementation, specifics will depend on projects selected for completion

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

On the ground project implementation, specifics will depend on projects selected for completion

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

AGFD, AES, RMEF, Navajo Nation, Cholla Cattle Co/ Big Bo LLC (ranch manager)

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

YES[X] NO [] N/A[]

This funding is part of the negotiated access agreement with the Navajo Nation

PROJECT MONITORING PLAN:

WM will verify work is complete and check on water availability throughout the year

Ranch cowboys will check water levels throughout year

PROJECT MAINTENANCE:

Ranch Manager will maintain all facilities

PROJECT COMPLETION REPORT TO BE FILED BY:

Al Eiden or Noah Silva (WM unit 10)

The following are potential projects on the ranch that may use funding from this agreement. Project selection will be made in a meeting between the WM and the ranch to ensure the highest priority projects are completed.

Projects Listing A
September 2016

36 Pasture

Gas Line Tank washed out

3 days on tank and road work

Dozer \$150 per hour X 24 hours= \$3600

Loader \$130 per hour X 24 hours= \$3120

Grader \$130 per hour X 15 hours = \$1950

Estimated Total Cost on Equipment Use for this project \$8670

36 Dirt Tank is boggy

1 week

Loader \$130 per hour X 48 hours = \$6240

Estimated Total Cost on Equipment Use for this project \$6240

Reed Cashion Pasture

Quarry Tank

1 week

Dozer \$150 per hour X 48 hours= \$7200

Estimated Total Cost on Equipment Use for this project \$7200

Cinder Tank needs to be cleaned with Loader & Trackhoe, and 2 GIDump Trucks.

Estimate 1 month

Loader \$130 per hour X 192 hours= \$24960

Trackhoe \$150 per hour X 192 hours= \$28800

2 GIDump Trucks \$40 per hour X 192 hours X 2 trucks= \$15360

Estimated Total Cost on Equipment Use for this project \$69120

Head Tank

Sand Trap needs to be cleaned and Dam needs to be built up

Estimate 5 days

Loader \$130 per hour X 40 hours= \$5200

Dozer \$150 per hour X 40 hours= \$6000

2 GIDump Trucks \$40 per hour X 80 hours = \$3200

Estimated Total Cost on Equipment Use for this project \$14400

Head Tank to Cinder
Road needs to be
rebuilt Estimate 2 days
Loader \$130 per hour X 16 hours= \$2080
Grader \$130 per hour X 16 hours= \$2080
Dozer \$150 per hour X 16 hours= \$2400
Estimated Total Cost on Equipment Use for this project \$6560

Chino Dirt Tank

Sand Trap needs to be washed out
Estimate 2 days
Dozer \$150 per hour X 16 hours= \$2400
Estimated Total Cost on Equipment Use for this project \$2400

Buck Tanks Pasture

3 $\frac{1}{2}$ miles Nu Mex pipe 2" to go from Tank to Larson
Might have to replace bottom
Estimate 6-7 days if we get 4,000 foot
spools Then all roads need to be graded
again. Dozer \$150 per hour X 48 hours=
\$7200
Trackhoe \$150 per hour X flat 30 hours= \$4500
Loader \$130 per hour X 48 hours= \$6240
1 GDump Truck@ \$40 per hour X 48 hours= \$1920
Backhoe \$60 per hour X 48 hours = \$2880
Estimated Total Cost on Equipment Use for this project \$22740

Trinity Pasture

First Section:

Jack Steves to Water on Fence
3 miles of 2" pipe
4,000 foot spools
Estimate of 4 days
Dozer \$150 per hour X 32 hours= \$4800
Trackhoe \$150 per hour X flat 25 hours = \$3750
Loader \$130 per hour X flat 20 hours = \$2600
Grader \$130 per hour X 32 hours= \$4160
Backhoe \$60 per hour X 32 hours = \$1920
Belly Dump \$60 per hour X 32 hours = \$1920
Estimated Total Cost on Equipment Use for this project \$19150

Second Section:

Water on Fence to Middle Water

To be done one year later

3 miles of 2" pipe

4,000 spools

Estimate of 4 days

Dozer \$150 per hour X 32 hours= \$4800

Trackhoe \$150 per hour X flat 8 hours = \$1200

Loader \$130 per hour X flat 20 hours= \$2600

Grader \$130 per hour X 32 hours= \$4160

Backhoe \$60 per hour X 32 hours= \$1920

Belly Dump \$60 per hour X 32 hours= \$1920

Estimated Total Cost on Equipment Use for this project \$16600

Third Section:

Middle Water to End O Line

To be done one year later

3 miles of 2" pipe

Estimate of 4 days

Dozer \$150 per hour X 32 hours= \$4800

Trackhoe \$150 per hour X flat 20 hours= \$3000

Loader \$130 per hour X flat 25 hours = \$3250

Grader \$130 per hour X 32 hours= \$4160

Backhoe \$60 per hour X 32 hours= \$1920

Belly Dump \$60 per hour X 32 hours = \$1920

Estimated Total Cost on Equipment Use for this project \$19050

Cook Dam

It is boggy and full

Estimate 30 days

Dozer \$150 per hour X 240 hours= \$36000

Trackhoe \$150 per hour X 240 hours= \$36000

Loader \$130 per hour X 240 hours= \$31200

2 GIDump Trucks@ \$40 per hour each X 480 hours= \$122400

Estimated Total Cost on Equipment Use for this project

Shaffer Pasture

Shaffer Tank needs to be cleaned

It's boggy and the damn needs to be rebuilt

Estimate 40 days

Dozer \$150 per hour X 320 hours= \$48000

Trackhoe \$150 per hour X 320 hours= \$48000

Loader \$130 per hour X 320 hours= \$41600

Belly Dump \$60 per hour X 320 hours = 19200

2 GDump Trucks @ \$40 per hour each X 640 hours = \$25600

Estimated Total Cost on Equipment Use for this project \$182400

Cave Tank

Needs to be washed out

Estimate 5 days

Trackhoe \$150 per hour X 40 hours= \$6000

Loader \$130 per hour X 40 hours = \$5200

2 GTrucks @ \$40 per hour each X 80 hours = \$3200

Estimated Total Cost on Equipment Use for this project \$14400

Bishop Tank

Needs to be cleaned

Estimate 5 days

Trackhoe \$150 per hour X 40 hours= \$6000

Loader \$130 per hour X 40 hours= \$5200

Estimated Total Cost on Equipment Use for this project \$11200

Grand Total Projects

\$52253

Big Chief Pasture

Big E to Swimming Hole

4 miles of steel 4 V2" pipe

21days

Dozer \$150 per hour X 168 hours= \$25200

Trackhoe \$150 per hour X 168 hours= \$25200

Loader \$130 per hour X 168 hours= \$21840

Backhoe \$60 per hour X 168 hours= \$10080

3 days

Belly Dump \$60 per hour X 24 hours= \$1440

Grader \$130 per hour X 24 hours = \$3120

Estimated Total

\$86880

Big E to Road Canyon

4 V2" heavy wall pipe

5 miles of plastic pipe to make right of way

7 days

Dozer \$150 per hour X 56 hours= \$8400

Trackhoe \$150 per hour X 56 hours = \$8400

Loader \$130 per hour X 56 hours = \$7280

Backhoe \$60 per hour X 56 hours = \$3360

3 days

Belly Dump \$60 per hour X 24 hours= \$1440

Grader \$130 per hour X 24 hours = \$3120

Estimated Total

\$32000

Big E towards Kecehaw

2 miles of 2" pipe

2 days

Dozer \$150 per hour X 16 hours= \$2400

Trackhoe \$150 per hour X 16 hours= \$2400

Backhoe \$60 per hour X 16 hours= \$960

Loader \$130 per hour X 16 hours= \$2080

GDump Truck \$40 per hour X 16 hours= \$640

Estimated Total

\$8480

Big E to Bottom of Hill on C&D

Side to cover pipe

2 days

Dozer \$150 per hour X 16 hours= \$2400

Estimated Total \$2400

Pine Canyon Dirt Tank

Rebuild road and Clean Tank

8 days

Dozer \$150 per hour X 64 hours= \$9600

Loader \$130 per hour X 64 hours = \$8320

Grader \$130 per hour X 64 hours = \$8320

Estimated Total \$26240

Little Bud

Cleaning

7 Days

Trackhoe \$150 per hour X 56 hours = \$8400

Loader \$130 per hour X 56 hours= \$7280

Estimated Total \$15680

Red Lake #1

Welding Sides

10 days

2 Welders \$65 per hour X 160 hours=\$10400

Estimated Total \$10400

Black Tanks Bull Pasture

Double Tubs & 50,000 gallon Storage

Various sheet steel & angle iron

14 days

3 Welders \$65 per hour X 336 hours= \$21840

Backhoe \$60 per hour X 6 hours flat = \$360

Estimated Total \$22200

Lower Sandstone

Farm Dam

Need to build a steel storage: 50,000 gallon tank

Various sheet steel & angle iron

14 days

3 Welders \$65 per hour X 336 hours = \$21840

Backhoe \$60 per hour X 6 hours flat= \$360

Estimated Total \$22200

From Tubs into Farm Dam Trap

1,000 feet of 2" pipe

Need a water trough

Need 2" float valve assembly

3 days

Trackhoe \$150 per hour X 24 hours= \$3600

Dozer \$150 per hour X 24 hours= \$3600

Estimated Total

\$7200

Midway Dirt Tank

Bad & Boggy

Needs cleaning

5 days

Dozer \$150 per hour X 40 hours= \$6000

Loader \$130 per hour X 40 hours = \$5200

Estimated Total

\$11200

Big Chief Dirt Tank

Needs cleaning

30 days

Trackhoe \$150 per hour X 240 hours= \$36000

Grader \$130 per hour X 16 hours flat= \$2080

2 GDump Trucks \$40 per hour X 480 hours = \$19200

Belly Dump \$60 per hour X 240 hours = \$14400

Loader \$130 per hour X 240 hours= \$31200

Dozer \$150 per hour X 48 hours flat= \$7200

Estimated Total

\$110080

Rogers Pasture

End of Line Red Lake to Murphy & Johnson Tank Road

Needs to be rebuilt

3 days

Dozer \$150 per hour X 24 hours= \$3600

Loader \$130 per hour X 24 hours= \$3120

Grader \$130 per hour X 24 hours= \$3120

Estimated Total

\$9840

Nelson Tank

Needs to be finished

6 days

2 GDump Trucks \$40 per hour X 96 hours = \$3840

Loader \$130 per hour X 48 hours= \$6240

Trackhoe \$150 per hour X 48 hours= \$7200

Estimated Total \$17280

Hawkins Tank

Needs to be washed out

7 days

Dozer \$150 per hour X 56 hours= \$8400

Loader \$130 per hour X 56 hours= \$7280

Estimated Total \$15680

Abshire Tank

Needs a cleaning

10 days

Dozer \$150 per hour X 80 hours= \$12000

Loader \$130 per hour X 80 hours = \$10400

Estimated Total \$22400

Lion Tank

Needs to be washed out

3 days

Dozer \$150 per hour X 24 hours= \$3600

Loader \$130 per hour X 24 hours= \$3120

Estimated Total \$6720

Upper Standstone

1 V2 storage needs new bottom

Sheet metal

7 days

2 Welders@ \$65 per hour X 112 hours= \$7280

Estimated Total \$7280

#3 Pasture

Lower Sand Stone Dirt Tank needs to be cleaned

14 days

Trackhoe \$150 per hour X 112 hours= \$16800

Loader \$130 per hour X 112 hours= \$14560

2 GIDump Trucks \$40 per hour X 224 hours = \$8960

Estimated Total

\$40320

Upper Sand Stone Dirt Tank needs to be cleaned

14 days

Trackhoe \$150 per hour X 112 hours= \$16800

Loader \$130 per hour X 112 hours= \$14560

2 GDump Trucks \$40 per hour X 224 hours = \$8960

Estimated Total

\$40320

#3 Dirt Tank

Needs to be cleaned

14 days

Trackhoe \$150 per hour X 112 hours = \$16800

Loader \$130 per hour X 112 hours= \$14560

2 GIDump Trucks \$40 per hour X 224 hours = 8960

Estimated Total

\$40320

New Dam Pasture

Driftwood Dirt Tank

Needs to be cleaned

7 days

Loader \$130 per hour X 56 hours= \$7280

Dozer \$150 per hour X 56 hours= \$8400

Estimated Total

\$15680

#23 Dirt Tank

Needs to be cleaned

7 days

Loader \$130 per hour X 56 hours= \$7280

Dozer \$150 per hour X 56 hours= \$8400

Estimated Total

\$15680

Twin Tanks
 Needs to be cleaned
 7 days
 Loader \$130 per hour X 56 hours= \$7280
 Dozer \$150 per hour X 56 hours= \$8400
 Estimated Total \$15680

Jones Tank
 Needs to be cleaned
 There are 5 separate tanks so the main one doesn't wash out
 Important tank
 30 days
 Trackhoe \$150 per hour X 240 hours= \$36000
 Dozer \$150 per hour X 240 hours= \$36000
 Loader \$130 per hour X 240 hours= \$31200
 2 GTrucks \$40 per hour X 480 hours= \$19200
 Estimated Total \$122400

Hualapai Tank
 Needs to be cleaned
 7 days
 Trackhoe \$150 per hour X 56 hours= \$8400
 Loader \$130 per hour X 56 hours= \$7280
 Estimated Total \$15680

Bishop Dirt Tank
 Needs to be cleaned
 The bottom needs to be flat
 The dike needs to be in the center
 Lots of materials to be hauled in to build up and plate the bottom
 10 days
 Dozer \$150 per hour X 80 hours = \$12000
 Loader \$130 per hour X 80 hours= \$10400
 Trackhoe \$150 per hour X 80 hours= \$12000
 2 GDump Trucks \$40 per hour X 160 hours= \$6400
 Belly Dump \$60 per hour X 80 hours = \$4800
 Estimated Total \$45600

Grand Total \$785,840

WATER DEVELOPMENT PROJECTS (please use the worksheet below):

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: _____

- 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:
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**
- 7) **Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument). If private land, list landowner.**
- 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:
- 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 No**
If Yes, please list personnel that attended and date.

ARIZONA GAME AND FISH DEPARTMENT **TREE CLEARING/REMOVAL WORKSHEET**

PROJECT TITLE: _____

- 1) **What is the estimated acreage of the project?**

- 2) **How are the trees going to be cleared? (agra axe, chain saw, grubbing, push, chaining):**

- 3) **What is the estimated number of trees per acre?**

- 4) **Describe trees to be cleared (species, estimated diameter, single stem, multi-stem):**

- 5) **Describe terrain (slope, soil type, rocks)**

- 6) **Please list any special land management status for the project site (e.g. Wilderness, National Park, National Monument). If private land, list landowner.**

- 7) **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: Approx. hiking time:

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

Is the site relatively accessible for tree removal equipment? YES[] NO[]

Please describe any restrictions to public access:

ARIZONA GAME AND FISH DEPARTMENT

VOLUNTEER HOURLY RATES AND CLASSIFICATIONS WORKSHEET

PROJECT TITLE: _____

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
			\$14.14	
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				