

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

Game Branch / HPC Project Number:	15-214
Possible Funding Partners:	

<b>PROJECT INFORMATION</b>	
<b>Project Title:</b> Randall Tank Pipeline	
<b>Region and Game Management Unit:</b> Region 2, GMU 9W	
<b>Local Habitat Partnership Committee (LHPC):</b> <ul style="list-style-type: none"> <li>• Flagstaff</li> </ul>	<b>Was the project presented to the LHPC?</b> <b>YES</b> <input checked="" type="checkbox"/> <b>NO</b> <input type="checkbox"/>
<b>Has this project been submitted in previous years?</b> <b>YES</b> <input checked="" type="checkbox"/> <b>NO</b> <input type="checkbox"/> <b>If Yes, was it funded?</b> <b>YES</b> <input type="checkbox"/> <b>NO</b> <input checked="" type="checkbox"/> → <b>HCP Project #:</b>	
<b>Project Type:</b> Water Pipeline	
<b>Brief Project Summary:</b> This will be the first phase of many phases of a water pipeline installed by County Line Farms of Grand Canyon Ranch. This water pipeline will originate from Randall tank and will be installed by County Line Farms. The only portion of this project that is looking for funding is material costs of the pipeline itself. This water pipeline expands 6 miles throughout the North Anita pasture of the Anita Cameron allotment in GMU 9. There will be 5 water troughs spread out approximately every mile along the pipeline. The pipeline will also connect in to water catchment Boggy #974. This pipeline will be funneling water from Randall water tank which will receive water from the water reclamation plant in Tusayan.	
<b>Big Game Wildlife Species to Benefit:</b> The Big Game species to benefit are elk, mule deer, black bear, and turkey. The area has current population of all four species, and has potential of sustaining larger population if more reliable water sources are created. By increasing water sources and spreading out the water availability the elk herd can be spread out mitigating the impact on the habitat.	
<b>Implementation Schedule</b> (Month/Day/Year):  Project Start Date: Summer 2016   Project End Date: November 2016	<b>Environmental Compliance:</b> NEPA Completed: <b>YES</b> <input checked="" type="checkbox"/> <b>No</b> <input type="checkbox"/> <b>N/A</b> <input type="checkbox"/> Projected Completion Date: <u>June 2013</u>  State Historic Preservation Office - Archaeological Clearance: <b>YES</b> <input checked="" type="checkbox"/> <b>No</b> <input type="checkbox"/> <b>N/A</b> <input type="checkbox"/> Projected Completion Date: <u>June 2013</u>  Arizona Game and Fish Department EA Checklist: <b>N/A</b> <input type="checkbox"/> To be Completed by: <u>William Lemon</u> Projected Completion Date: <u>October 2015</u>
<b>PROJECT FUNDING</b>	
<b>Special Big Game License Tag Funds Requested:</b>	\$ 50,688.00
<b>Cost Share or Matching Funds:</b>	\$ 57,000.00

<b>Total Project Costs:</b>		<b>\$ 107,688.00</b>
<b>PARTICIPANT INFORMATION</b>		
<b>Applicant</b> (please print): William Lemon	<b>Address:</b> 3500 Lake Mary Road, Flagstaff AZ 86001	<b>E-mail:</b> wlemon@azgfd.gov
<b>Telephone:</b> (928)864-7879		<b>Date:</b> 9/1/15
<b>AGFD Contact and Phone No.</b> (If applicant is not AGFD personnel):		
<b>Project has been coordinated with:</b> James Simino – District Ranger, USFS Tusayan District Jake Rogers – Supervisor, County Line Farms LLC, of Grand Canyon Ranch		

**NEED STATEMENT – PROBLEM ANALYSIS:** Game Management Unit 9 has no perennial streams, rivers, lakes, or springs. Natural waters consist of small ephemeral water bodies that develop in low-lying areas where seasonal runoff collects. The purpose and need of the actions are to increase the availability of more reliable and permanent wildlife water sources throughout the west side of Game Management Unit 9. These actions are also designed to reduce impacts to vegetation and soil resources around existing water developments by better distributing elk habitat use patterns throughout the district. The locations where this pipeline would produce water would benefit all species of wildlife in the Unit due to its widespread coverage. By creating another pipeline where water can flow year-round it would significantly reduce water hauling costs, and serve as a reliable water source throughout the majority of all elk habitat in Unit 9.

**PROJECT OBJECTIVES:**

- Increase water availability
- Decreasing water hauling cost
- Distributing elk habitat use patterns throughout the district

**PROJECT DESCRIPTION AND STRATEGIES:**

The project is a 5 mile pipeline from Randall Tank through North Anita pasture of the Anita Cameron allotment in Game Management Unit (GMU) 9. The pipeline is going to have 5 water troughs spread out approximately every mile. See map for more details. Funding is only required for the 6 miles of 2 inch polyethylene piping, County Line Farms Limited will supply the labor, as well as 5 water troughs.

This project is a joint effort between the Kaibab National Forest, Arizona Game and Fish Dept., and County Line Farms Limited, which are currently leasing the Anita Cameron Allotment. County Line Farms have agreed to allow the Arizona Game and Fish Department to operate the pipeline for wildlife purposes year round. The archeological clearance was completed by Neil Weintraub of the Kaibab National Forest on June 20 2013 and NEPA is not required. This

project was also coordinated with Steve Clark of the Arizona Elk Society.

**PROJECT LOCATION:** Township 29 N. Range 2 E.

Coordinates of water sources

Randall Tank: N 35 55.482', W 112 08.188'

Trough #1: N 35 55.227', W 112 08.676'

Trough #2: N 35 54.960', W 112 08.813'

Trough #3: N 35 59.340', W 112 09.449'

Trough #4: N 35 53.746', W 112 09.511'

Trough #5 N 35 52.885', W 112 10.000'

Boggy #974 N 35 54.959', W 112 10.034'

This location is in the Upper Anita pasture on the west side of GMU 9. It follows roads 308 and 2620 and 2 other two-trach roads

**LAND OWNERSHIP AT PROJECT SITE (Please state specifically if PRIVATE PROPERTY and provide landowner's name):** National Forest – Tusayan Ranger District

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

YES[] NO[]

**HABITAT DESCRIPTION:** Ponderosa pine woodland, approximate elevation 6,700 ft

**ITEMIZED USE OF FUNDS:**

County Line Farms LLC will complete the installation of the project. Jake Rogers estimated that \$20,000 in labor and \$27,000 in equipment costs as match. County Line Farms is requesting that assist with buying the actual pipeline materials.

Special Big Game License Tag Funds

6 miles of 2 inch polyethylene pipe at \$1.60/ft

1 mile = 5280 ft X 6 miles = 31,680ft

31,680ft X \$1.60 = \$50,688.00

## Cost Share or Matching Funds

County Line Farms contribution = \$57,000

- Renting a Bulldozer with a Ripper tooth = \$300/day X 90 days = \$27,000
- 90 days of wages for 2 County Lin Farms Employees at 10 hours a day = \$20,000
- 5 x 3ftX10ft water troughs = \$2,250
- Miscellaneous parts and Supplies (valves, steel pipes, sheet metal, etc ) = \$7,750

**LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:** County line Farms is the main organization in this undertaking. USFS Tusayan Ranger District, and AZGFD are cooperating in this effort with County Line Farms to build this pipeline. Grand Canyon Ranch is the main funder of this project whereas AZGFD would seek to assist with funding through the AZGFD HPC process and other grant funding opportunities. All future maintenance and repair of the newly constructed pipeline will become the responsibility of the County Line Farms. The Boggy catchment maintenance will still be the responsibility of the department.

**PROJECT MONITORING PLAN:** County Line Farms personnel will monitor water levels in the troughs. AZGFD personnel will monitor the water levels in the catchment, amount of use by wildlife, maintenance needs and report to the Department's development branch if any maintenance needs arise or if water needs to be hauled. The Unit Wildlife Manager will be the primary person responsible for monitoring of water catchments.

**PROJECT MAINTENANCE:** County Line Farms will be responsible for ensuring maintenance occurs on the pipeline and troughs. The Department's Development Branch will be responsible for ensuring maintenance occurs on water catchments. This may be accomplished by Department personnel, contractors or by volunteers.

**PROJECT COMPLETION REPORT TO BE FILED BY:** Wildlife Manager: Will Lemon

**WATER DEVELOPMENT PROJECTS** (*see attached worksheet*):

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

**PROJECT NAME:** Randall Tank Pipeline

- 1) **Is the water development listed as a priority in the most recent "Wildlife Water Development Annual Implementation Schedule?"** no

- 2) **Please list the Development Branch personnel and date coordinated with for this project.**

Joe Currie – 8/31/15

- 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: Hull Tank

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

Ownership of water source: National Forest Service

Distance in miles from project: 2 miles

- 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.** National Forest-Tusayan Ranger District

- 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: NA

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

31,680 feet(6 miles) of 2 inch polyethylene pipe

\$50, 688(\$1.60/ft)

5 3" x 10" polyethylene water cattle troughs  
Miscellaneous

\$2,250.00 (\$450 each)  
\$7,750.00  
\$60,688.00

**Total =**

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

A site visit is planned in the later half of September.

