

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

<b>PROJECT INFORMATION</b>	
<b>Project Title:</b> Catchment 105 Redevelopment	<b>Project No.</b> 07-523
<b>Region/GMU:</b> Region 5 / Unit 37A	<b>HPC:</b>
<b>Project Type:</b> Redevelopment of an Existing Wildlife Catchment	
<b>Project Description:</b> Catchment 105 is an existing wildlife water that was built in 1949 and needs to be redeveloped to be functional. The catchment is not reliable and does not hold water. The storage tank, drinker, water collection apron, and perimeter fence have reached their expected life span and require replacement.	
<b>Wildlife Species to Benefit:</b> Deer      Javelina	
<b>Possible Funding Partners:</b>	
<b>Implementation Schedule:</b> <b>Beginning:</b> July 1, 2007 <b>Completed:</b> June 30, 2010	<b>NEPA Compliance: (if applicable)</b> <b>Completed:</b> Yes ___ No ___ <b>Projected Completion Date:</b>
<b>PROJECT FUNDING</b>	
<b>SBG Funds Requested:</b> \$19,104.55	
<b>Cost Share Provided:</b> \$28,000.00	
<b>Total Project Costs:</b> \$47,104.55	
<b>PARTICIPANT INFORMATION</b>	
<b>Applicant:</b> Bob Lemons 591, Jim Heffelfinger 530 (please print) <b>Telephone:</b> (520) 877-4360 (BL), 388-4448 (JH)	<b>Address:</b> AZ Game and Fish Department 555 N. Greasewood Road Tucson, AZ 85745
<b>AGFD Contact and Phone No.</b> (If applicant is not AGFD personnel)	
<b>Coordinated with:</b> Paul Puckett, Jim Heffelfinger	<b>Date:</b> July 26, 2007
<b>Applicant's signature:</b> 	<b>Date:</b> 8/28/2007

**SEND COMPLETED APPLICATIONS TO:**  
Game Branch  
2221 W. Greenway Rd.  
Phoenix, AZ 85023  
[mdisney@azgfd.gov](mailto:mdisney@azgfd.gov)

**WAS PROJECT PRESENTED TO THE LOCAL HPC?** YES  NO

Tucson HPC on August 27, 2007

**HAS PROJECT BEEN SUBMITTED IN PREVIOUS YEARS? IF SO WAS IT FUNDED?** No

**NEED STATEMENT/PROBLEM ANALYSIS:**

This catchment primarily services mule deer, javelina, gambel quail, coyote, bobcat, and mountain lion. It was built in 1949 and provides a good distribution of water to service wildlife in a large geographic area. It is located in a series with other wildlife catchments to provide a network of water distribution. Many of the adjacent catchments that were built about the same time are in need of repair. Thus, the network that was established is not reliable year round and wildlife have become focused near a few operating catchments.

**PROJECT OBJECTIVES:**

Reconstruct catchment #105 to provide a reliable water source for wildlife. This will improve the current distribution of water and re-establish the existing network of wildlife waters for animal dispersal. This catchment is completely deteriorated, needs to be obliterated, and rebuilt with all new components.



**PROJECT STRATEGIES:**

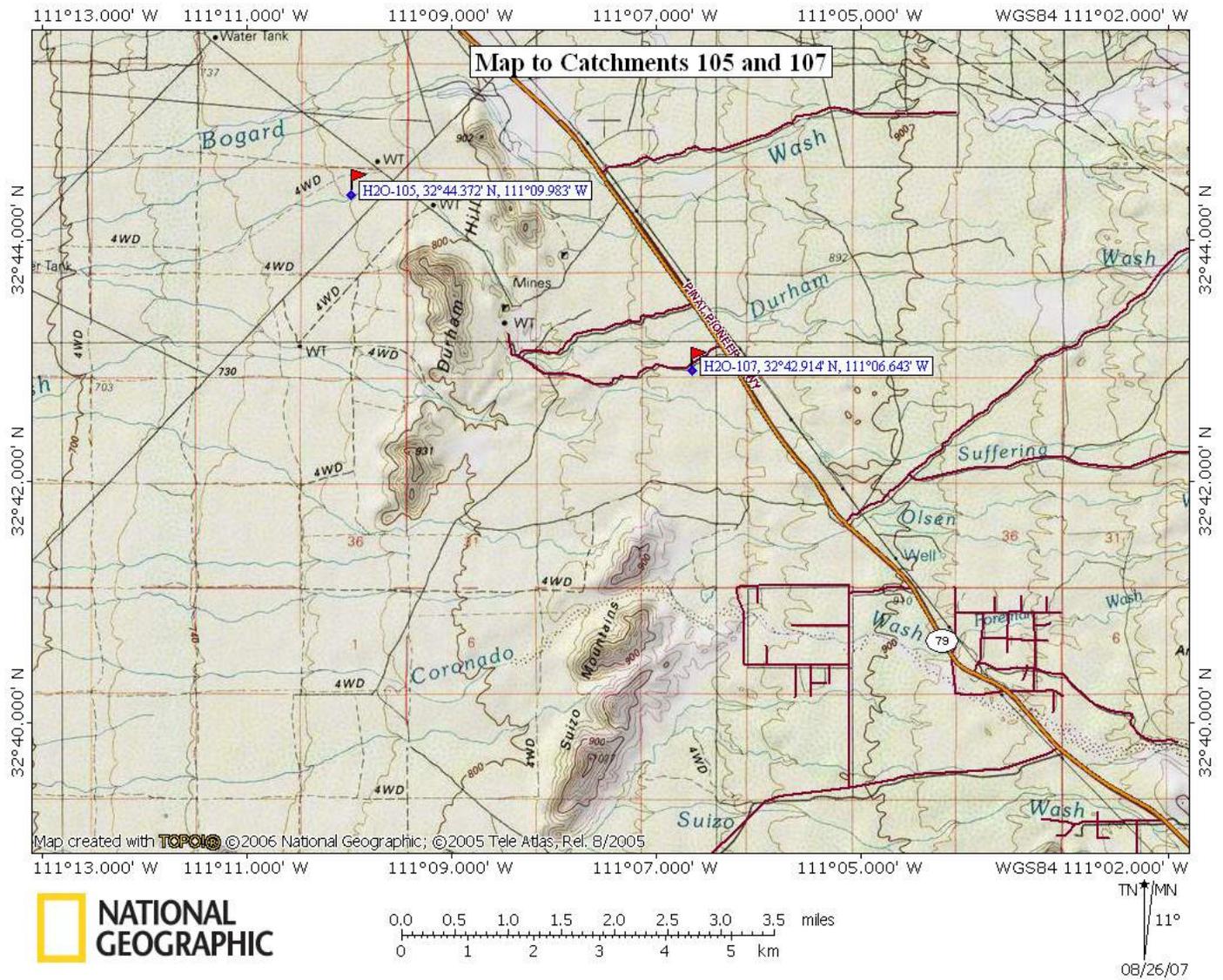
Catchment 105 has been repaired several times over the years, but it is now clear it needs to be totally redeveloped. Existing materials have reached their expected life span and need to be buried or removed from the site and replaced with new so the catchment can become reliable for the long term.

The Martin Sand and Gravel Company have offered that the Department may use their disposal pit for concrete debris and they may provide heavy equipment and volunteer labor to remove the old catchment and prepare the site for constructing a new catchment. They are conveniently located near catchment 105 and 107. Thus, this project could receive matching funds in the form of donated labor, heavy equipment, and disposal of debris.

It is proposed to have the AGFD Development crew furnish the labor to construct the catchment. The construction proposed is to build a round 3' x 18' fiberglass storage tank with a 24' x 60' roof apron and a walk in drinker 6' long x 4' wide x 3' deep. The existing barbwire perimeter fence would be replaced with a pipe rail perimeter fence using the existing fence corners.

**PROJECT LOCATION:**

The site is located at GPS coordinates 32° 44.372'N and 111° 09.983'W.



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

The project is located on Arizona State Lands.

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

N/A

**HABITAT DESCRIPTION:**

The location of this catchment is at an elevation of about 2500' in Sonoran Desert habitat consisting of palo verde,

mesquite, prickly pear cactus, saguaro, and bursage.

**ITEMIZED USE OF FUNDS:**

<b>Materials</b>	<b>Funds Requested</b>	<b>Cost Share Provided</b>
3' x 18' Storage Tank	\$7567.00	
24' x 60' Apron	4867.55	
3'd x 4'w Walk in Drinker	3970.00	
Pipe Rail Fence 400 linear feet	1700.00	
Plumbing	500.00	
Misc	500.00	
Labor and Equip for site preparation (Martin Sand and Gravel Company)		\$8,000.00
Labor and Equip to Construct New Catchment (AZGFD)		\$20,000.00
<b>Totals</b>	<b>\$19,104.55</b>	<b>\$28,000.00</b>

**LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:**

The Martin Sand and Gravel Company is located between catchments 105 and 107 which are both proposed for redevelopment. If both catchments could be approved for funding then the excavation work could be done at one time for both catchments and Department work crews could minimize travel and prevent duplication of effort by not doing these catchments separately.

Martin Sand and Gravel Company would be contacted to request their help with donating heavy equipment and labor to remove and dispose of the existing catchment components and excavate the site to construct a new catchment. Their contact number is (520) 631-5466 or (520) 631-5467.

The Arizona Game and Fish Department Development Branch would then furnish the labor and equipment to install the new catchment materials.

**PROJECT MONITORING PLAN:**

All catchments in Region 5 are monitored at least twice annually by wildlife managers to determine if water hauling is necessary.

**PROJECT MAINTENANCE:**

Catchment 105 is an existing wildlife water development that has been the Department's responsibility to maintain since it was first built in 1949 and this would continue after reconstruction.

**PROJECT COMPLETION REPORT TO BE FILED BY:** Wildlife Manager, Bob Lemons

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

**TREE SHEARING (AGRA-AXE, PUSH) PROJECTS (see attached worksheet):**

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

PROJECT NAME: Catchment 105 Redevelopment

- 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.  
**Paul Puckett on July 26, 2007**
- 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: **Lemons Catchment #1134**  
Type of water source: **Catchment**  
Ownership of water source: **AGFD**  
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, etc). If private land, list landowner. **N/A**
- 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:    Approx. 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.  
**See itemized list of materials**
- 10) Was a site visit completed?  **Yes**  No  
If Yes, please list personnel that attended and date.  
**Paul Puckett on July 26, 2007**