

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

PROJECT INFORMATION

Project Title: Powerline and Music Mountain #1-5 Catchments Redevelopment		Project No. 09-305
Region/GMU: 3/GMU 15A	HPC:	
Project Type: Catchment redevelopments		
Project Description: Installation of two new buried 18' X 3' fiberglass tanks with walk-in trough(s) and buried pipelines for most of the distance to the new tanks. Removal of the existing catchments, replacement of tank covers, soil re-contouring and fence replacement (with three-rail, black-pipe fence) would also occur as needed. Internal fencing to prevent elk damage to catchment aprons would also be installed. Catchment aprons and fencing would be camouflaged to blend into the surrounding landscape. All renovations would occur within the existing fenced areas surrounding the catchments.		
Wildlife Species to Benefit: Mule deer, pronghorn antelope, elk, white-throated woodrat, jackrabbit, dove, quail, great-horned owl, red-tailed hawk, turkey vultures, verdin, Wilson's warbler, and several bat species.		
Possible Funding Partners: BLM, WCF		
Implementation Schedule: Beginning: Completed:	NEPA Compliance: (if applicable) Completed: Yes <input checked="" type="checkbox"/> <u>Powerline, Music Mountains #1-5 (NEPA not be required for these catchments, maintenance clearance received from BLM – Kingman)</u> Projected Completion Date:	

PROJECT FUNDING

SBG Funds Requested: Phase 2- \$152,757 (2009-2010) Phase 3- \$152,757 (2010-2011)
Cost Share Funds: Phase 1- \$254,595 (completed with WCF and BLM assistance agreement funds) \$5,000+ in WCF funds and potential BLM assistance agreement funds for Phase 2 and 3
Total Project Costs: Phase 2 and 3- \$305,514

PARTICIPANT INFORMATION

Applicant: Erin Riddering/Deanna Kephart (please print) Telephone: 928-692-7700	Address: 5325 N Stockton Hill Rd. Kingman, AZ 86409
AGFD Contact and Phone No. (If applicant is not AGFD personnel)	
Coordinated with: AGFD- Joseph Curry, Lainie Antolik, and Erin Riddering. BLM- Rebecca Peck, Amon Wilhelm	Date: 08/27-28/08

Applicant's signature: Erin Riddering

Date: 8/31/09

**SEND COMPLETED APPLICATIONS TO:
AZ Game and Fish Department
Attn: Game Branch
5000 W. Carefree Highway
Phoenix, AZ 85086
rgregory@azgfd.gov**

WAS PROJECT PRESENTED TO THE LOCAL HPC? YES _____ NO X

Kingman no longer has an HPC.

HAS PROJECT BEEN SUBMITTED IN PREVIOUS YEARS? IF SO WAS IT FUNDED?

Music Mountain #6-8, McCracken #2-4, Cherum Peak and Powerline water catchment redevelopments were submitted in 2006. The Powerline catchment was not funded when the project was approved. In addition to the funds received through HPC, some WCF funds were used in conjunction with BLM provided funds. Music Mountain catchments #1-5 were submitted in 2008, but not funded.

NEED STATEMENT/PROBLEM ANALYSIS:

These catchments were constructed 30-50 years ago. Site inspections revealed that age-related deterioration has lead to dysfunctional, unreliable catchments. The small capacity and outdated design require frequent monitoring and expensive water hauling trips to ensure sufficient water remains available for wildlife. Each water-hauling trip by truck costs approximately \$550.

PROJECT OBJECTIVES:

The Department proposes to improve the existing water catchments. The purpose of this project is to provide dependable, year-round water sources for wildlife, while reducing the number of maintenance and water hauling trips to each of the catchments. It is also the Department's objective to reduce the effects of drought and thermal stress on game species and other wildlife by constructing, redeveloping and maintaining wildlife water developments.

These objectives will be completed in 2 additional phases. Music Mountains #6-9, McCracken #2-4 and Cherum Peak have been completed. Phase 1 will include Powerline and Music Mountains #1-2 catchments. Phase 2 will include Music Mountains #3-5.

PROJECT STRATEGIES:

At each catchment site:

- 1) Install two 3' deep X 18' diameter fiberglass ring tanks.
- 2) Install one 3' deep standard walk-in trough.

- 3) Install one 24' X 96' metal frame and R-panel apron.
- 4) Install wildlife friendly piperail fence package (200' X 250').

PROJECT LOCATION:

Powerline catchment #920- T26N R15W S2
Music Mountains #1 catchment #732- T25N R14W S18
Music Mountains #2 catchment #733- T24N R14W S36
Music Mountains #3 catchment #742- T24N R14W S10
Music Mountains #4 catchment #743- T28N R16W S32
Music Mountains #5 catchment #744- T28N R17W S12

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

BLM owns the land at each catchment site.

HABITAT DESCRIPTION:

Powerline #920- over-story vegetation includes Utah juniper and single-leaf pinyon. A variety of small shrubs and grasses comprise the understory and include: mountain big sage brush, Fremont barberry, bottlebrush squirreltail, blue grama and western wheatgrass. This catchment is located on Colorado Plateau mixed grass plains and Grand Canyon Desert Shrub habitats respectively. This site is immediately adjacent to the pinyon-juniper woodland. The dominant aspect of the Grand Canyon desert shrub range site is a desert shrub-grass mix. This range site is dominated by flattop buckwheat, Nevada Mormon tea and range ratany. Perennial grasses like desert needlegrass, black grama and bush muhly are abundant. This site also has some areas of locally abundant blackbrush. The dominant aspect of the Colorado Plateau mixed grass plains range site is a shrub-grassland. The major shrubs are blackbrush and Utah agave. Dominant grasses are sideoats grama and slim tridens. Forbs are few.

The Music Mountains #1-5 catchments are located in Mojave desert scrub habitat. This habitat consists of a vast and diverse expanse of shrubs, Joshua trees and cactus on desert uplands. The vegetation is dominated by Creosote Bush, White Bursage and mixed with shrubs such as Nevada Jointfir, Fremont's Dalea, salt bush, Brittlebush, Spiny Menodora, White Burrobush, Box Thorn, Spiny Hopsage, Littleleaf Ratany, Mormon Tea and Rabbitbrush. A number of yucca and yucca-like species can be found in this habitat, including Joshua trees, Mojave Yucca, Banana Yucca and Soap tree Yucca. Agave can be found in the rocky areas. Several types of cactus are common here, including Cholla, Pricklypear, Hedgehog Cactus, and occasionally Pincushion and Cottontop Cactus.

ITEMIZED USE OF FUNDS:

For each catchment:

- 1) Two 3' deep X 18' diameter fiberglass ring tanks- \$12,672
- 2) One 3' deep standard walk-in trough- \$2,107
- 3) One 24' X 96' metal frame and R-panel apron- \$7,390
- 4) One piperail fence package (200' X 250')- \$3,750
- 5) Labor contracted out- \$25,000

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

AGFD Development Branch, AGFD Region 3, BLM Kingman Office

PROJECT MONITORING PLAN:

Periodic checks will be made by the local Wildlife Manager to ensure that the catchments are functional and holding water properly.

PROJECT MAINTENANCE:

The AGFD development branch will do any significant maintenance or repairs that need to be completed on these catchments.

PROJECT COMPLETION REPORT TO BE FILED BY:

AGFD- Joseph Curry

WATER DEVELOPMENT PROJECTS (see attached worksheet):

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

PROJECT NAME: Powerline, Music Mtn #1-5

- 1) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”**
Yes, all 6 of them.
- 2) **Please list the Development Branch personnel and date coordinated with for this project.**
Joseph Curry 8/27-28/08
- 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:
- 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.**
Music Mtn #5 is located in considered an ACEC for Joshua trees in the area. There is no special land management status for the other catchments.
- 8) **Please provide the following information about access to the proposed site:**
Type of access (mark one): 2x4 vehicles 4x4 only foot only**
-- 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.**
 - 1) Two 3’ deep X 18’ diameter fiberglass ring tanks
 - 2) One 3’ deep standard walk-in trough
 - 3) One 24’ X 96’ metal frame and R-panel apron
 - 4) One Piperail fence package (200’ X 250’)
- 10) **Was a site visit completed?** Yes No
On 4/27/05 Joe Curry of the AGFD and Rebecca Peck and Craig Johnson of BLM completed a site visit of Powerline. On 09/03/08 Lainie Antolik, Joe Curry and Erin Riddering of the AGFD and Amon Wilhelm of BLM completed a site visit of Music Mountains catchments #1-5. A second site visit of the Powerline catchment was completed by Lainie Antolik of the AGFD and Rebecca Peck and Craig Johnson of BLM on 09/16/08.