

**Arizona Water Protection Fund
Application Cover Page
FY 2011**

Water Protection Fund

Title of Project: E.coli Reduction on the San Francisco River through Alternative Livestock Water on the Kaler Ranch, Phase III													
Type of Project: <input checked="" type="checkbox"/> Capital or Other <input type="checkbox"/> Water Conservation <input type="checkbox"/> Research	Stream Type: <input checked="" type="checkbox"/> Perennial <input type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral												
Your level of commitment to maintenance of project benefits and capital improvements: <input type="checkbox"/> < 5 years <input type="checkbox"/> 5-10 years <input type="checkbox"/> 11-15 years <input checked="" type="checkbox"/> 16-20 years													
Applicant Information: Name/Organization: Richard and Lois Kaler Address 1: [REDACTED] Address 2: City: [REDACTED] State: [REDACTED] ZIP Code: [REDACTED] Phone: [REDACTED] Fax: none Tax ID No.: available upon approval of grant application	Inside an AMA: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, which AMA: <input type="checkbox"/> Phoenix <input type="checkbox"/> Tucson <input type="checkbox"/> Prescott <input type="checkbox"/> Pinal <input type="checkbox"/> Santa Cruz												
Contact Person: Name: Jan Holder Title: Executive Director Phone: 520-395-2499 Fax: 520-829-3660 e-mail: watershedholder@yahoo.com	Type of Application: <input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation Any Previous AWP Fund Grants: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please provide Grant #(s): 07-145WPF												
Arizona Water Protection Fund Grant Amount Requested: \$100,350.94 If the application is funded, will the Grantee intend to request an advance: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Matching Funds Obtained and Secured: <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Applicant/Agency/Organization:</th> <th style="text-align: right;">Amount (\$):</th> </tr> </thead> <tbody> <tr> <td>1. Applicant</td> <td style="text-align: right;">\$ 33,912</td> </tr> <tr> <td>2. Bureau of Land Management</td> <td style="text-align: right;">\$ 31,720</td> </tr> <tr> <td>3. ADEQ</td> <td style="text-align: right;">\$ 118,568</td> </tr> <tr> <td>4. ADA</td> <td style="text-align: right;">\$ 174,520</td> </tr> <tr> <td align="right">Total:</td> <td style="text-align: right;">393,088</td> </tr> </tbody> </table>	Applicant/Agency/Organization:	Amount (\$):	1. Applicant	\$ 33,912	2. Bureau of Land Management	\$ 31,720	3. ADEQ	\$ 118,568	4. ADA	\$ 174,520	Total:	393,088
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Has your legal counsel or contracting authority reviewed and accepted the Grant Award Contract General Provisions? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A													
Signature of the undersigned certifies understanding and compliance with all terms, conditions and specifications in the attached application. Additionally, signature certifies that all information provided by the applicant is true and accurate. The undersigned acknowledges that intentional presentation of any false or fraudulent information, or knowingly concealing a material fact regarding this application is subject to criminal penalties as provided in A.R.S. Title 13. The Arizona Water Protection Fund Commission may approve Grant Awards with modifications to scope items, methodology, schedule, final products and/or budget.													
Richard and Lois Kaler	Landowner [REDACTED]												
Typed Name of Applicant or Applicant's Authorized Representative	Title and Telephone Number												
<i>Richard M Kaler Lois J Kaler</i>	5/29/2010												
Signature	Date Signed												

Arizona Watershed Map FY 2011



Title of Project: E.coli Reduction on the San Francisco River through Alternative Livestock Water on the Kaler Ranch Project, Phase III

Project Location & Environmental Contaminant Information FY 2011

Project Location Information			
1. County: <u>Greenlee</u>	2. Section: <u>32</u>	3. Township: <u>T3S</u>	4. Range: <u>R30E</u>
<p>5. Watershed: <u>Upper Gila</u></p> <p>6. 8 or 10 Digit Hydrologic Unit Code (HUC): <u>1504000502</u></p> <p>7. Name of USGS Topographic Map where project area is located: <u>Clifton AZ - 033109a3</u></p> <p>8. State Legislative District: <u>1</u></p> <p>(Information available at: http://159.87.126.6/mapping/default2.asp?tname=Original.2009.Legislative.Map&org2009leg=on&service=ircmaps&init=true)</p> <p>9. Land ownership of project area: <u>Bureau of Land Management</u></p> <p>10. Current land use of project area: <u>Livestock Grazing</u></p> <p>11. Size of project area (in acres): <u>less than 1/4 acre</u></p> <p>12. Stream Name: <u>San Francisco River</u></p> <p>13. Length of stream through project area: <u>2200 feet</u></p> <p>14. Miles of stream benefited: <u>88 miles</u></p> <p>15. Acres of riparian habitat: <u>3,565 acres</u> will be:</p> <div style="margin-left: 40px;"> <input checked="" type="checkbox"/> Enhanced <input type="checkbox"/> Maintained <input type="checkbox"/> Restored <input type="checkbox"/> Created </div>			
<p>16. Provide directions to the project site from the nearest city or town. List any special access requirements:</p> <p><i>In Clifton on Hwy 191, turn immediately after VFW hall. Go over bridge + turn left. Follow sign to RU park. Go 6 miles + look for downward facing road on left, toward river. Go down road, make a right on bottom, + go approximately 1/4 mile to small stone house</i></p>			
Environmental Contaminant Location Information			
<p>1. Does your project site contain known environmental contaminants? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If yes, please identify the contaminant(s) and enclose data about the location and levels of contaminants: <u>E.coli from the livestock waste</u></p> <p>2. Are there known environmental contaminants in the project vicinity? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If yes, please identify the contaminant(s) and enclose data about the location and levels of contaminants: <u>E.coli from the livestock waste.</u> The EPA's 303(d) list includes the San Francisco River as impaired for E.coli.</p> <p>3. Are you asking for Arizona Water Protection Fund monies to identify whether or not environmental contaminants are present? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>			

STATE HISTORIC PRESERVATION OFFICE Review Form

In accordance with the State Historic Preservation Act (SHPO), A.R.S. 41-861 *et seq.*, effective July 24, 1982, each State agency must consider the potential of activities or projects to impact significant cultural resources. Also, each State agency is required to consult with the State Historic Preservation Officer with regard to those activities or projects that may impact cultural resources. Therefore, it is understood that **recipients of state funds are required to comply with this law** throughout the project period. All projects that affect the ground-surface that are funded by AWPf require SHPO clearance, **including those on private and federal lands.**

The State Historic Preservation Office (SHPO) must review each grant application recommended for funding in order to determine the effect, if any, a proposed project may have on archaeological or cultural resources. To assist the SHPO in this review, the following information **MUST** be submitted with each application for funding assistance:

- A completed copy of this form, and
 - A United States Geological Survey (USGS) 7.5 minute map
 - A copy of the cultural resources survey report if a survey of the property has been conducted, and
 - A copy of any comments of the land managing agency/landowner (i.e., state, federal, county, municipal) on potential impacts of the project on historic properties.
- NOTE: If a federal agency is involved, the agency must consult with SHPO pursuant to the National Historic Preservation Act (NHPA); a state agency must consult with SHPO pursuant to the State Historic Preservation Act (SHPA),
- OR**
- A copy of SHPO comments if the survey report has already been reviewed by SHPO.

Please answer the following questions:

1. Grant Program: Arizona Water Protection Fund
2. Project Title: E.coli Reduction on the San Francisco River through Alternative Livestock Water on the Kaler Ranch Project, Phase III
3. Applicant Name and Address: Gila Watershed Partnership, 711 S. 14th Avenue, Safford, AZ 85546
4. Current Land Owner/Manager(s): Bureau of Land Management
5. Project Location, including Township, Range, Section: T3S, R30E, Section 32
6. Total Project Area in Acres (or total miles if trail): less than 1/4 of an acre
7. Does the proposed project have the potential to disturb the surface and/or subsurface of the ground? YES NO
8. Please provide a brief description of the proposed project and specifically identify any surface or subsurface impacts that are expected: The project will include a well, solar equipment, and tank, and will all be locad within 1/4 of an acre. .

9. Describe the condition of the current ground surface within the entire project boundary area (for example, is the ground in a natural undisturbed condition, or has it been bladed, paved, graded, etc.). Estimate horizontal and vertical extent of existing disturbance. Also, attach photographs of project area to document condition: The area has been utilized for over 100 years by livestock grazing.

10. Are there any known prehistoric and/or historic archaeological sites in or near the project area?
 YES NO

11. Has the project area been previously surveyed for cultural resources by a qualified archaeologist?
 YES NO UNKNOWN

If YES, submit a copy of the survey report. Please attach any comments on the survey report made by the managing agency and/or SHPO

12. Are there any buildings or structures (including mines, bridges, dams, canals, etc.), which are 50-years or older in or adjacent to the project area? YES NO

If YES, complete an Arizona Historic Property Inventory Form for each building or structure, attach it to this form and submit it with your application.

13. Is your project area within or near a historic district? YES NO

If YES, name of the district:

Please sign on the line below certifying all information provided for this application is accurate to the best of your knowledge.

Richard M Kaler

RICHARD M. KALER

Lois J Kaler 1 8/29/2010

LOIS J. KALER

Applicant Signature

/Date

Applicant Printed Name

FOR SHPO USE ONLY

SHPO Finding:

- Funding this project will not affect historic properties.
- Survey necessary – further GRANTS/SHPO consultation required (*grant funds will not be released until consultation has been completed*)
- Cultural resources present – further GRANTS/SHPO consultation required (*grant funds will not be released until consultation has been completed*)

SHPO Comments

For State Historic Preservation Office:

Date:

**STATE OF ARIZONA
HISTORIC PROPERTY INVENTORY FORM**

Please type or print clearly. Fill out each applicable space accurately and with as much information as is known about the property.

PROPERTY IDENTIFICATION

For properties identified through survey: Site No. _____ Survey Area: _____

Historic Names (enter the name(s), if any that best reflect the property's historic importance): _____

Address: _____

City or Town: _____ Vicinity County: _____ Tax Parcel No.: _____

Township: _____ Range: _____ Section: _____ Quarters: _____ Acreage: _____

Block: _____ Lot(s): _____ Plat (Addition): _____ Year of plat (addition): _____

UTM Reference - Zone: _____ Easting: _____ Northing: _____

USGS 7.5' quadrangle map: _____

ARCHITECT: _____ not determined known Source: _____

BUILDER: _____ not determined known Source: _____

CONSTRUCTION DATE: _____ known estimated Source: _____

STRUCTURAL CONDITION

- Good (well maintained; no serious problems apparent)
- Fair (some problems apparent) Describe: _____
- Poor (major problems; imminent threat) Describe: _____
- Ruin/Uninhabitable

USES/FUNCTIONS

Describe how the property has been used over time, beginning with the original use: _____

Sources: _____

PHOTO INFORMATION

Date of photo: _____

View Direction (looking towards): _____

Attach a recent photograph of property in this space.
Additional photographs may be appended.

SIGNIFICANCE

To be eligible for the National Register, a property must represent an important part of the history or architecture of an area. The significance of a property is evaluated within its historic context, which are those patterns, themes, or trends in history by which a property occurred or gained importance. Describe the historic and architectural contexts of the property that may make it worthy of preservation.

A. HISTORIC EVENTS/TRENDS – Describe any historic events/trends associated with the property: _____

B. PERSONS – List and describe persons with an important association with the building: _____

C. ARCHITECTURE – Style: _____ no style

Stories: _____ Basement Roof Form: _____

Describe other character-defining features of its massing, size and scale: _____

INTEGRITY

To be eligible for the National Register, a property must have integrity (i.e. it must be able to visually convey its importance). The outline below lists some important aspects of integrity. Fill in the blanks with as detailed a description of the property as possible.

Location - Original Site Moved: Date: _____ Original Site: _____

DESIGN

Describe alterations from the original design, including dates: _____

MATERIALS

Describe the materials used in the following elements of the property:

Walls (structure): _____

Walls (sheathing): _____

Windows: _____

Roof: _____

Foundation: _____

SETTING

Describe the natural and/or built environment around the property: _____

How has the environment changed since the property was constructed? _____

WORKMANSHIP

Describe the distinctive elements, if any, of craftsmanship or method of construction: _____

NATIONAL REGISTER STATUS (if listed, check the appropriate box)

Individually Listed; Contributor; Non-contributor to _____ Historic District

Date Listed: _____ Determined eligible by Keeper of National Register (date: _____)

RECOMMENDATIONS ON NATIONAL REGISTER ELIGIBILITY (opinion of SHPO staff or survey consultant)

Property is is not eligible individually.

Property is is not eligible as a contributor to a listed or potential historic district.

More information needed to evaluate.

If not considered eligible, state reason: _____

**E.COLI REDUCTION IN THE SAN FRANCISCO RIVER THROUGH
ALTERNATIVE LIVESTOCK WATER ON THE KALER RANCH, PHASE III**

AWPF APPLICATION PACKAGE

Submitted by:

The Gila Watershed Partnership of Arizona

711 South 14th Avenue

Safford, Arizona 85546

520-395-2499

Submitted: August 29, 2010

Executive Summary

The Kaler Ranch has been the location of numerous grant projects, supported or administered by The Gila Watershed Partnership of Arizona (GWP). The Partnership supported the Kalers in a NRCS grant to level the fields adjacent to the river to reduce livestock waste reaching the river. GWP completed two ADEQ grants that addressed the erosion and sediment deposition caused by huge culverts. We implemented an Arizona Water Protection Fund and Arizona Department of Agriculture grants to address the remaining culverts. These projects have made dramatic improvements in the San Francisco river and riparian area. With this project, our goal is to continue the restoration and enhancement of the San Francisco River.

Our objective in this project is the reduction of E.coli in the San Francisco River by installing a well and adding solar equipment and pipes, tanks and a trough to water the Kaler livestock. We are currently implementing a grant for one well, funded by ADEQ and ADA. And we have grants from ADEQ and ADA for two more. We need to install one more well, which will bring the number to four, to completely exclude the Kaler livestock from the San Francisco Riparian area. This will result in the complete exclusion of the Kaler Ranch livestock for the entire year, from the riparian area of the San Francisco River. This means that all of the current amount of livestock fecal material from the Kaler livestock will be eliminated.

The Gila Watershed Partnership is currently implementing an ADEQ Targeted Watershed grant Titled "E.coli Reduction on the San Francisco and Lower Blue Rivers". In this grant, we are sampling for E.coli on the San Francisco and Blue Rivers to determine the source of an E.coli Impairment that is listed in EPA's list of impaired waters. Even though we do not yet have DNA testing complete, the preliminary samples we have tested have extremely high readings from the samples taken just below the Kaler Ranch.

This information, coupled with the physical evidence of the livestock waste present in the riparian area, point to the Kaler livestock as a significant contributing factor. The elevated E. coli levels point not only to levels of other pathogens in a stream but to sedimentation issues. Two rules apply: 1) E. coli travels with and on sediments, so that elevated levels of E. coli often indicate increased suspended sediments, and 2) E. coli is regarded as an indicator that other enteric pathogens may be present, including some that may put wildlife as well as humans at risk. In addition, the erosion and excess sedimentation caused by the livestock in the riparian area affects the fish and vegetation, as sediment particles in the water clogs the gills of fish, and decreases the amount of sunlight available to aquatic plants.

The Kaler livestock water year-round in the riparian area of the San Francisco River. The family has water rights that give them the legal right to do so. The landowner would water their cattle in away from the river; however, no other water sources are available. Through a long education process, the Kalers have agreed to exclude their cattle permanently from the riparian area when they have enough watering capacity by means of solar wells.

Background

The Kaler Ranch has been the location of numerous grant projects, supported or administered by The Gila Watershed Partnership of Arizona (GWP). The Partnership supported the Kalers in a NRCS grant to level the fields adjacent to the river to reduce livestock waste reaching the river. In 2002, the Kalers approached the GWP for help in addressing huge culverts that were eroding their property and depositing sediment in the San Francisco River. The Kalers and the NRCS worked together to develop a plan to extend the culvert to the river's edge and eliminate the erosion and sedimentation.

GWP completed two ADEQ grants that addressed the erosion and sediment at the ranch entrance and four of the culverts. We implemented Arizona Water Protection Fund and Arizona Department of Agriculture grants to address the remaining culverts. These projects have made dramatic improvements in the river and riparian to reduce the erosion and sedimentation.

However, in 2006, the GWP began planning ways to address a serious water quality issue on the San Francisco River. The San Francisco and Lower Blue Rivers are listed on the EPA's 303(d) list as impaired for E.coli. The Partnership coordinated an effort with its partners from Greenlee County, the Apache Sitgreaves Forest, The Bureau of Land Management, the NRCS, and ADEQ to determine possible causes of the impairment. The possible causes were determine to be wildlife, humans (from either outdated in ineffective septic systems, lack of restroom facilities in recreation areas), and livestock.

In 2009, the GWP wrote and was awarded a grant from ADEQ for a Targeted Watershed Grant titled "E.coli Reduction on the San Francisco and Lower Blue Rivers". In this grant, we are monitoring the water on the San Francisco and Blue Rivers to determine the source of the E.coli impairment. We are sampling the water, and testing for E.coli, and further testing samples that indicate high levels to determine the source of the E.coli. This is done by sending the samples for DNA testing, that will determine if the source is human, livestock or "other", which includes a variety of wildlife sources. Even though we do not yet have DNA testing complete, the preliminary samples we have tested have extremely high readings from the samples taken just below the Kaler Ranch.

This information, coupled with the physical evidence of the livestock waste present in the riparian area, point to the Kaler livestock as a significant contributing factor. The elevated E. coli levels point not only to levels of other pathogens in a stream but to sedimentation issues. Two rules apply: 1) E. coli travels with and on sediments, so that elevated levels of E. coli often indicate increased suspended sediments, and 2) E. coli is regarded as an indicator that other enteric pathogens may be present, including some that may put wildlife as well as humans at risk. In addition, the erosion and excess sedimentation caused by the livestock in the riparian area affects the fish and vegetation, as sediment particles in the water clogs the gills of fish, and decreases the amount of sunlight available to aquatic plants.

The Kaler livestock water year-round in the riparian area of the San Francisco River. The family has water rights that give them the legal right to do so. The landowner would water their cattle

in away from the river; however, no other water sources are available. Through a long education process, the Kalers have agreed to exclude their cattle permanently from the riparian area when they have enough watering capacity by means of solar wells.

Our objective in this project is the reduction of E.coli and sedimentation in the San Francisco River by installing a well and adding solar equipment and pipes, tanks and a trough to water the Kaler livestock. We need to install one more well, which will bring the number to four, to completely exclude the Kaler livestock from the San Francisco Riparian area. This will result in the complete exclusion of the Kaler Ranch livestock for the entire year, from the riparian area of the San Francisco River. This means that all of the current amount of livestock fecal material from the Kaler livestock will be eliminated.

Goals

Our goal is to reduce the E.coli and sediment levels in the San Francisco River by eliminating livestock from the riparian area.

Objectives

Our objective in this project is the reduction of E.coli and excess sedimentation in the San Francisco River by installing a well and adding solar equipment and pipes, a tank and a trough to water the Kaler livestock. We are currently implementing an ADEQ grant for a solar well to remove the Kaler livestock from the riparian area, which is matched by an ADA grant. In addition, we have another ADA grant for well number two, and a just-awarded grant from ADEQ for a third well. One more well needs to be installed, which will bring the number to four, to completely exclude the Kaler livestock from the San Francisco Riparian area. The four wells have been calculated to produce a minimum of 5 gallons per minute. One well is currently located on the Kalers' private land, and three are planned for BLM property (see attached map). The wells have been planned to water the number of livestock the Kalers are permitted on their BLM allotment. The BLM has written their Biological Opinion (attached) to allow for a fifth well, to allow for the possibility that the wells do not produce sufficient water to accommodate the landowner's permitted number of livestock.

Statement of Problem and Causes

In order to continue with the restoration of the San Francisco River restoration, we need to remove the Kalers livestock from the riparian area. The Kaler livestock water year-round in the riparian area of the San Francisco River. The family has water rights that give them the legal right to do so. The landowner would water their cattle in away from the river; however, no other water sources are available on their private land or on their leased land.

The Gila Watershed Partnership is currently implemented an ADEQ Targeted Watershed grant titled "E.coli Reduction on the San Francisco and Lower Blue Rivers". In this grant, we are sampling for E.coli on the San Francisco and Blue Rivers to determine the source of an E.coli Impairment that is listed in EPA's list of impaired waters. Even though we do not yet have DNA testing complete, the preliminary samples we have tested have extremely high readings from the samples taken just below the Kaler Ranch. This information, coupled with the physical

evidence of the livestock waste present in the riparian area, point to the Kaler livestock as a significant contributing factor.

The elevated E. coli levels point not only to levels of other pathogens in a stream but to sedimentation issues. Two rules apply: 1) E. coli travels with and on sediments, so that elevated levels of E. coli often indicate increased suspended sediments, and 2) E. coli is regarded as an indicator that other enteric pathogens may be present, including some that may put wildlife as well as humans at risk. In addition, the erosion and excess sedimentation caused by the livestock in the riparian area affects the fish and vegetation, as sediment particles in the water clogs the gills of fish, and decreases the amount of sunlight available to aquatic plants.

Statement of Solutions

Through a long education process, the Kalers have agreed to exclude their cattle permanently from the riparian area when they have enough watering capacity by means of solar wells. The Kalers have agreed to sign an agreement to that effect. The Kalers ranching operation will benefit, as by locating the wells away from the river, the ranch will have better distribution of the livestock, allowing for better grazing of the BLM, state land, and private land, and the river, the community, Greenlee County, the watershed and the state will benefit because the E.coli will be reduced in the San Francisco River.

The BLM has made a strong commitment to the Kaler Ranch and assisting in the environmental issues present there. The Coordinated Ranch Management Plan, developed by the BLM's range management staff, in cooperation with the landowner and the NRCS, includes the Kaler's private land and their BLM lease, their Freeport Mac Mo Ran lease and their state land lease. In addition, a Biological Evaluation has been prepared by the BLM and approved by the USFW Service for the wells . Attached is a copy of the approved BE.

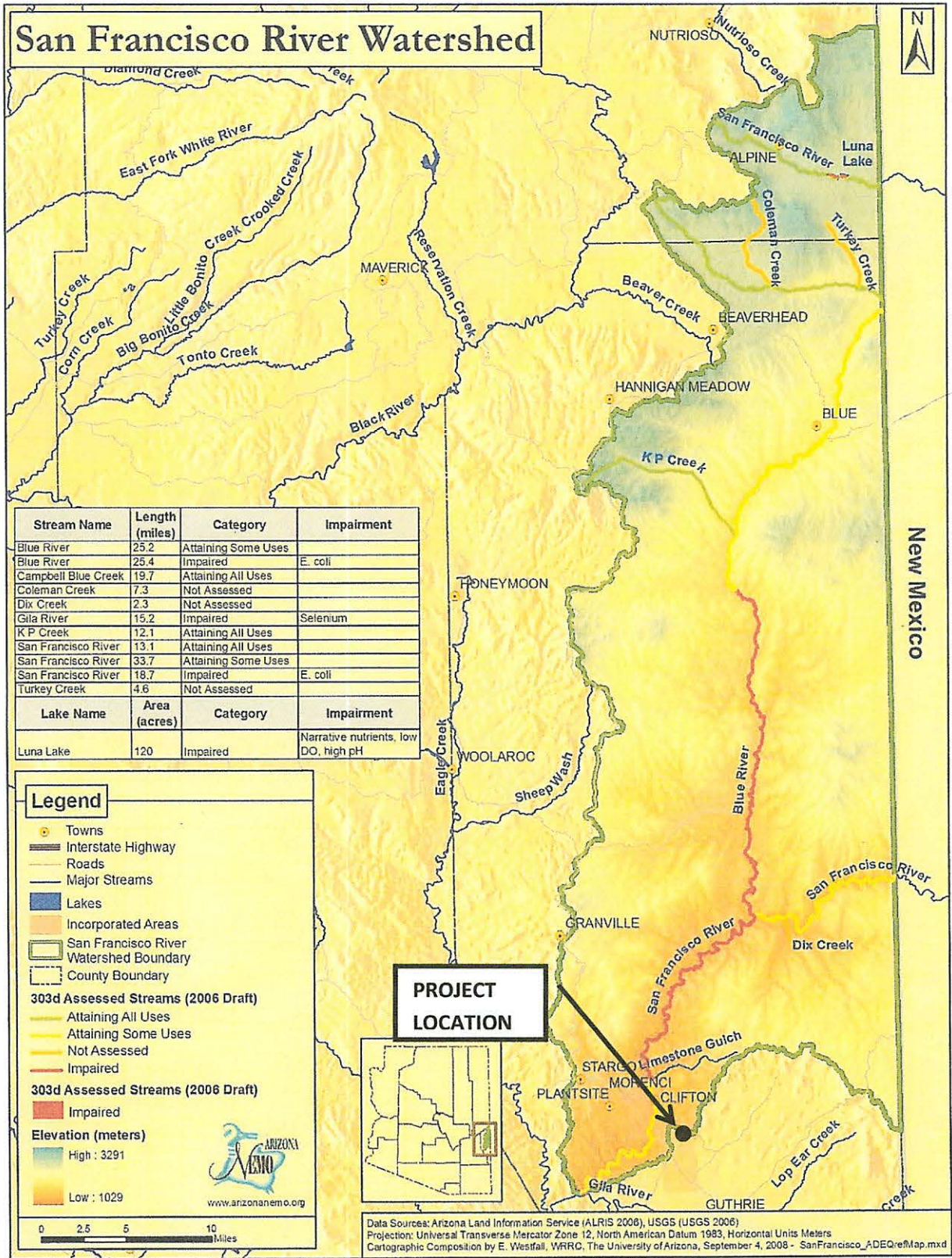
The implementation of this project will result in the reduction of E.coli in the San Francisco River. We intend to drill a well and add solar equipment and pipes, tanks and a trough to water the Kaler livestock. We are currently implementing an ADEQ grant for a solar well to remove the Kaler livestock from the riparian area, which is matched by an ADA grant. In addition, we have another ADA grant for well number two, and a just-awarded grant from ADEQ for a third well. We need to install one more well, which will bring the number to four, to completely exclude the Kaler livestock from the San Francisco Riparian area.

This will result in the complete exclusion of the Kaler Ranch livestock from the riparian area of the San Francisco River. This means that all of the current amount of livestock fecal material, and the resulting E.coli, from the Kaler livestock will be eliminated.

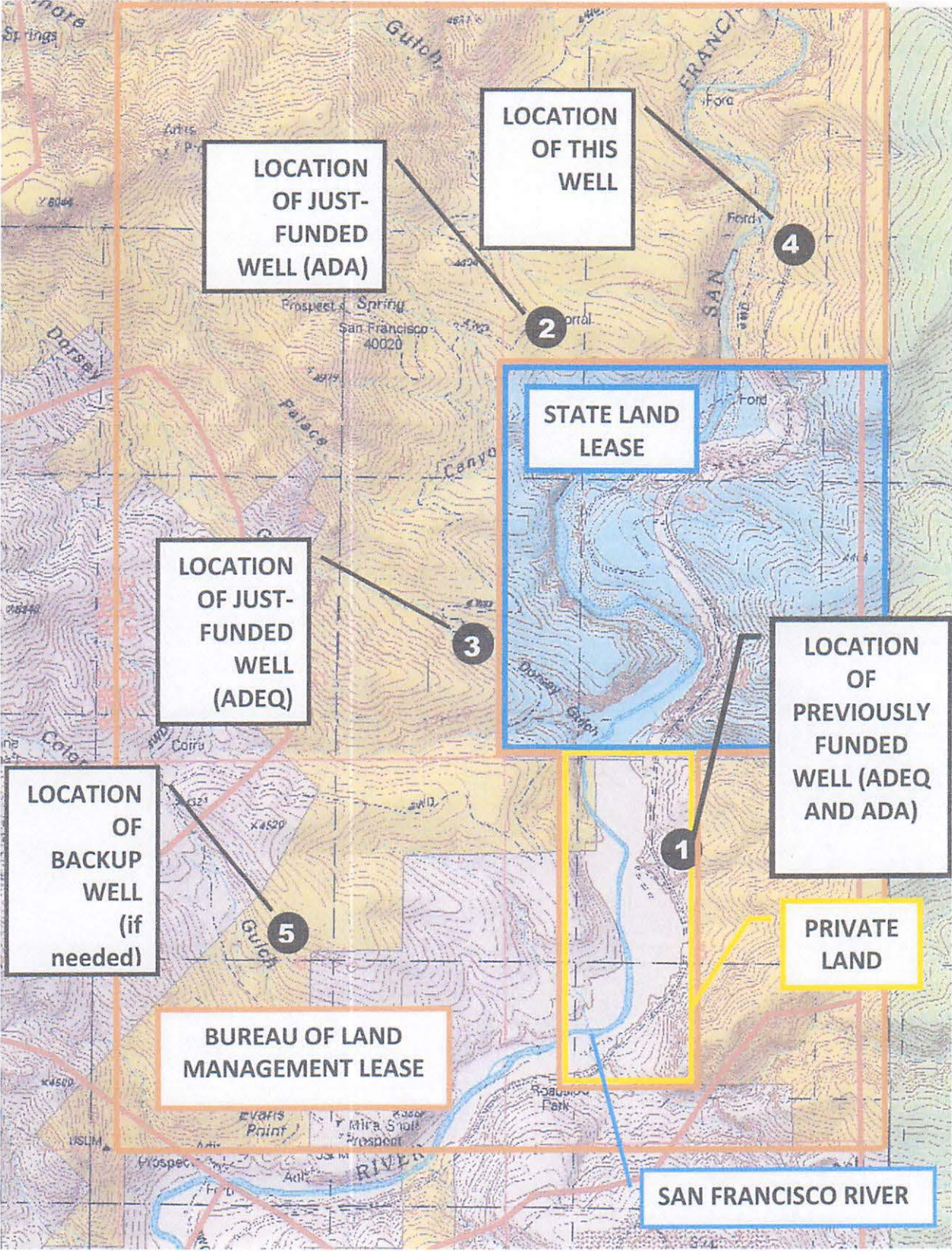
Statement of Project Years of Benefits

This project, when properly maintained, will last 20 years or more.

Project Location Map



Project Schematic



Scope of Work

Task 1: Permits, Authorizations, Clearances and Agreements

Task Description: The Gila Watershed Partnership shall obtain all permits, authorizations, environmental clearances and agreements necessary to complete the tasks listed in this Scope of Work. These include but are not limited to: archeological clearance, biological evaluation, 404 and 401 permits, county flood control permit, if necessary, BLM access agreements, operation and maintenance agreement with landowner, and a notice of intent to drill from ADWR. Since the well will be located on BLM property, the BLM will obtain all permits that are required on BLM property.

Task Purpose: To comply with all AWPf, local, state and federal permit requirements, environmental laws, and obtain legal access to project area.

Deliverable Description: Copies of all approved permits, authorizations, clearances and agreements.

Deliverable Due Date: Prior to any ground disturbing activities

Reimbursable Cost: \$3,344.25

Task 2: Develop Implementation Plan

Task Description: The Grantee shall develop an implementation plan that will include a Site Preparation Plan, Well Drilling Plan, Solar Installation Plan, Stock Tank Installation Plan, Monitoring Plan, and an Education & Outreach Plan

Task Purpose: To insure the correct design and proper installation of the improvements.

Deliverable Description: Copies of all implementation plans including the Site Preparation Plan, Well Drilling Plan, Solar Installation Plan, Stock Tank Installation Plan, Monitoring Plan, and an Education & Outreach Plan

Deliverable Due Date: March 31, 2011

Reimbursable Cost: \$5,651.60

Task 3: Implement the Site Preparation Plan

Task Description Preparation of the site including leveling and grading, as well as widening the road to the site.

Task Purpose: To provide a flat surface for the construction.

Deliverable Description: Completion report including a narrative description of completed work, copies of all invoices, timesheets and photos of the completed work.

Deliverable Due Date: May 31, 2011

Reimbursable Cost: \$2,879.60

Task 4: Implement the Well Drilling Plan

Task Description: Implementation includes mobilization of the equipment, drilling the well, utilizing a water truck to keep the equipment cool, and installing the well casing, down rod, miscellaneous fittings.

Task Purpose: To drill and outfit the well.

Deliverable Description Completion report including a narrative description of completed work, copies of all invoices, timesheets and photos of the completed work.

Deliverable Due Date: October 31, 2011

Reimbursable Cost: \$10,523.60

Task 5: Implement the Solar Installation Plan

Task Description: Implementation includes installation of solar mounting poles, solar modules, Trackers, submersible motor, solar control system, and miscellaneous fittings, connectors, etc.

Task Purpose: To install solar system to provide power for the well in the remote location of the well.

Deliverable Description Completion report including a narrative description of completed work, copies of all invoices, timesheets and photos or copies of the completed work.

Deliverable Due Date: July 31, 2011.

Reimbursable Cost: \$59,002.10

Task 6: Implement the Water Storage Tank and cattle trough Installation Plan

Task Description: Implementation includes hiring a stone mason and helper to construct a rock and mortar water storage tank, and cattle watering trough and connect them with pipe to the well pump. Stone structures, although expensive and laborious to construct, were selected instead of commercial metal tanks, as the remote site is subject to frequent vandalism. A metal tank seldom lasts through one season. The rock will be excavated from site(s) on the ranch , and transported to the site by the landowner with a backhoe. Cement will be mixed on site by the stone mason, and his helper. The rock, which is 9" and 14" in diameter. Rebar will be used to increase the structural integrity of the structures.

Task Purpose: To install a rock and mortar water tank and trough that will be resistant to the vandalism that tends to occur in remote settings.

Deliverable Description Completion report including a narrative description of completed work, copies of all invoices, timesheets and photos or copies of the completed work.

Deliverable Due Date: September 31, 2011

Reimbursable Cost: \$7,134.67

Task 7: Implement the Monitoring Plan

Task Description: Implementation includes photo monitoring of the riparian area to ensure that livestock are not present in the riparian area. Seven photo points have been established to determine if any there is evidence of livestock in the riparian area. Since the landowner has to cross the riparian are to ship his cattle, these incidents will be recorded, including the date and length of time of the occurrence and the number of animals crossing.

Monitoring for E. coli is one method of monitoring the health of a riparian system, since E. coli levels point not only to levels of other pathogens in a stream but to sedimentation issues. Two rules apply: 1) E. coli travels with and on sediments, so that elevated levels of E. coli often indicate increased suspended sediments, and 2) E. coli is regarded as an indicator that other enteric pathogens may be present, including some that may put wildlife as well as humans at risk.

E. coli monitoring is accomplished by collecting water samples from the stream and putting them through lab processes, under an established protocol. When collecting the samples, the observer takes other measurements and lists observations that will assist in determining the following: turbidity (suspended sediments), pH, flow, water and air

temperature, occasionally dissolved oxygen, and field observations such as signs of wildlife or livestock watering, open toilets in recreation areas, degradation of stream banks by animals or vehicles, etc

The observer transports the refrigerated bottles filled with stream water to a certified lab (which will be the Gila Watershed Partnership laboratory in Greenlee County that was established to process the E.coli samples for the ADEQ E.coli Reduction in the San Francisco and Lower Blue Rivers Grant Project), where the sample is combined with a reagent that feeds the E. coli. The sample water with reagent is then sealed into a multi-celled "Colilert" tray by processing through a Colilert sealing machine. The Colilert tray is incubated for 18 to 22 hours at a consistent temperature (37°C), then placed under an ultraviolet light. The cells containing E. coli colonies will fluoresce under the ultraviolet light. The observer completes a count of the fluorescing cells and records the result on a spreadsheet.

The result is a most probable number (MPN) of colony forming units (CFUs) per 100 ml. of stream water, which is compared to the number at which the scientific community and government agencies agree that stream water becomes unsafe for humans to enter. This points to the presence of other enteric pathogens that are much more expensive to monitor, including the parasites Giardia and Cryptosporidium, the bacteria Salmonella and MRSA, and the viruses Rotavirus and Adenovirus, among others. The results will be compared with the E.coli monitoring samples collected in 2010 in the ADEQ E.coli Reduction Project to determine the level of E.coli reduction.

Task Purpose: To quantify the level of E.coli reduction in the San Francisco River.

Deliverable Description Monitoring report including a narrative description of completed work, copies of all data sheets, lab reports, invoices, timesheets and photos or copies of the completed work.

Deliverable Due Date: December 31, 2011, and December 31, 2012.

Reimbursable Cost: \$7,134.67

Task 8: Implement the Education & Outreach Plan

Task Description: Implementation includes a field day at the Kaler Ranch, with a tour of the AWPF, ADEQ, ADA and NRCS grant projects, as well as a report on the vegetation and water quality monitoring results. The GWP will invite their general membership, including the local, state, and federal agencies that are partners in the watershed and involved in the E.coli reduction effort. The Greenlee County newspaper, The Copper Era, who is very supportive of our efforts to improve the rivers in our watershed, will be invited as well.

Task Purpose: To demonstrate the project's contribution to the restoration of the San Francisco River.

Deliverable Description Completion report including a narrative description of completed work, copies of all invoices, timesheets and photos or copies of the completed work.

Deliverable Due Date: December 31, 2012.

Reimbursable Cost: \$675.93

Task 9: Final Report

Task Description: The grantee shall document and summarize the entire project, including a project narrative, summarization, future recommendations, all project data, maps, photographs, etc, as required by the Arizona Water Protection Fund.

Task Purpose: To document project success.

Deliverable Description The Final report will a summary of the entire project, analysis of the project data, problems encountered, deviations from the work plan, and conclusions and recommendations for follow-up projects, and an evaluation of the project success against project purpose and objectives, copies of all invoices, timesheets and photos or copies of the completed work.

Deliverable Due Date: January 31 2013.

Reimbursable Cost: \$6,431.25

Budget

Attached

Supplemental Information

Stock tank design, Completed Bureau of Land Management Biological Evaluation, ADEQ Targeted Watershed Grant Quality Assurance Project Plan, and water rights information.

SHPO

Attached

Key Personnel

Dick Kaler is the owner of the ranch, the grant applicant, and will be acting as site supervisor, and also providing his labor and a back hoe, caterpillar, tractor, and truck for leveling the site for the well digging equipment as an in-kind match. He will also be providing match to pay the rock tank and trough labor and supplies, as well as giving them a place to stay. He will be helping in the education and outreach.

Jan Holder is the Executive Director of The Gila Watershed Partnership. Holder will be administrating the grant, overseeing the project is progressing in accordance with the approved scope of work and milestones, submitting quarterly and final reporting as well as budget and reimbursement request documents to ADEQ, providing additional load reduction and project information upon request, and serving as the day-to-day contact person regarding the project.

Katie Alessi is the monitoring specialist that will be conducting the photo monitoring.

Deborah Mendelsohn will be conducting the E.coli monitoring. Ms Mendelsohn is conducting the E.coli monitoring for the ADEQ E.coli Reduction on the San Francisco and Lower Blue Rivers grant project. She wrote the Sampling Plan, and Quality Assurance Project Plan (SAP/QAPP), lead, trained and supervised the monitoring teams for the E.coli sampling and conducted the laboratory tests at the Gila Watershed laboratory in Greenlee County.

The well drilling contractor, solar contractor, and the stone masons will be hired, and an agreement will be signed if the grant is approved and the contract is signed.

**E.coli Reduction on the San Francisco River through Alternative Livestock Water on Kaler Ranch,
Phase III**

DETAILED BUDGET BREAKDOWN

Task 1				
Permits, Authorizations, Agreements - permits and subcontractor agreements	Amount	Unit	Cost per Unit	Total Cost
Direct Labor				
Gila Watershed Coordinator	48	hrs	\$ 65.00	\$ 3,120.00
Subtotal				\$ 3,120.00
Other Direct Costs				
Office supplies, printing and postage	1	each	\$ 65.00	\$ 65.00
Subtotal				\$ 65.00
Task Subtotal				\$ 3,185.00
Administration Costs (5%)				\$ 159.25
Task Total				\$ 3,344.25

Task 2				
Prepare Implementation Plans (Site Preparation Plan, Well Drilling Plan, Solar Installation Plan, Stock Tank Installation Plan, Monitoring Plan, Education & Outreach Plan)	Amount	Unit	Cost per Unit	Total Cost
Direct Labor				
Gila Watershed Coordinator	80	hrs	\$ 65.00	\$ 5,200.00
Subtotal				\$ 5,200.00
Other Direct Costs				
Office supplies, printing and postage	1	each	\$ 65.00	\$ 65.00
Mileage (2 trips at 132 Miles round-trip each)	264	miles	\$ 0.45	\$ 117.48
Subtotal				\$ 182.48
Task Subtotal				\$ 5,382.48
Administration Costs (5%)				\$ 269.12
Task Total				\$ 5,651.60

Task 3				
Implement Site Preparation Plan	Amount	Unit	Cost per Unit	Total Cost
Direct Labor				
Gila Watershed Coordinator	40	hrs	\$ 65.00	\$ 2,600.00
Subtotal				\$ 2,600.00
Capital Outlay & Equipment				
Tractor (includes operator)	10	hr	\$ 85.00	\$ 850.00
Backhoe (includes operator)	12	hr	\$ 85.00	\$ 1,020.00
D3 Caterpillar (includes operator)	10	hr	\$ 65.00	\$ 650.00
1 ton, 4 whl drive truck (includes operator)	10	hr	\$ 45.00	\$ 450.00
water truck	60	hr	\$ 110.00	\$ 6,600.00
Subtotal				\$ 9,570.00
Other Direct Costs				
Office supplies, printing and postage	1	each	\$ 25.00	\$ 25.00
Mileage (2 trips at 132 Miles round-trip each)	264	miles	\$ 0.45	\$ 117.48
Subtotal				\$ 142.48
Task Subtotal				\$ 2,742.48
Administration Costs (5%)				\$ 137.12
Task Total				\$ 2,879.60

Task 4				
Implement Well Drilling Plan	Amount	Unit	Cost per Unit	Total Cost
Direct Labor				
Contract Well Driller (contract amount)	1	each	\$ 7,400.00	\$ 7,400.00
Well construction labor	32	hrs	\$ 45.00	\$ 1,440.00
Gila Watershed Coordinator	16	hrs	\$ 65.00	\$ 1,040.00
Subtotal				\$ 9,880.00
Capital Outlay & Equipment				
Drill Rig (Contract Amount)	1	ttl	\$ 10,600.00	\$ 10,600.00
water truck	1	ttl	\$ 3,000.00	\$ 3,000.00
Back Hoe	1	ttl	\$ 1,200.00	\$ 1,200.00
Crane Truck	1	ttl	\$ 1,150.00	\$ 1,150.00
Subtotal				\$ 15,950.00
Material & Supplies				
Well casing, down rod, discharge pipe, and misc fittings	1	ttl	\$ 10,800.00	\$ 10,800.00
down rod and discharge pipe	1	ttl	\$ 1,400.00	\$ 1,400.00
down wire and pump cable	1	ttl	\$ 2,200.00	\$ 2,200.00
casing grout and gravel pack	1	ttl	\$ 2,420.00	\$ 2,420.00
Liner, seal, nipples, couplings, misc fittings	1	ttl	\$ 2,700.00	\$ 2,700.00
Subtotal				\$ 19,520.00
Other Direct Costs				
Office supplies, printing and postage	1	each	\$ 25.00	\$ 25.00
Mileage (2 trips at 132 Miles round-trip each)	264	miles	\$ 0.45	\$ 117.48
Subtotal				\$ 142.48
Task Subtotal				\$ 10,022.48
Administration Costs (5%)				\$ 501.12
Task Total				\$ 10,523.60

Task 5				
Implement Solar Installation Plan	Amount	Unit	Cost per Unit	Total Cost
Direct Labor				
Contract Solar Installer	1	ttl	\$ 3,850.00	\$ 3,850.00
Gila Watershed Coordinator	20	hrs	\$ 65.00	\$ 1,300.00
Subtotal				\$ 5,150.00
Capital Outlay & Equipment				
Solar Modules	1	ttl	\$ 29,600.00	\$ 29,600.00
Trackers	1	ttl	\$ 10,400.00	\$ 10,400.00
Submersible Motor	1	ttl	\$ 3,300.00	\$ 3,300.00
Solar Control System	1	ttl	\$ 6,800.00	\$ 6,800.00
Subtotal				\$ 50,100.00
Material & Supplies				
Misc Solar Fittings, Connectors, etc.	1	ttl	\$ 800.00	\$ 800.00
Subtotal				\$ 800.00
Other Direct Costs				
Office supplies, printing and postage	1	each	\$ 25.00	\$ 25.00
Mileage (2 trips at 132 Miles round-trip each)	264	miles	\$ 0.45	\$ 117.48
Subtotal				\$ 142.48
Task Subtotal				\$ 56,192.48
Administration Costs (5%)				\$ 2,809.62
Task Total				\$ 59,002.10

Task 6				
Implement Stock Tank Installation Plan	Amount	Unit	Cost per Unit	Total Cost
Direct Labor				
Gila Watershed Coordinator	20	hr	\$ 65.00	\$ 1,300.00
Subtotal				\$ 1,300.00
Material & Supplies				
Pipe	10	roll	\$ 250.00	\$ 2,500.00
Connectors and fittings	2	tons	\$ 300.00	\$ 600.00
Subtotal				\$ 3,100.00
Other Direct Costs				
Office supplies, printing and postage	1	each	\$ 25.00	\$ 25.00
Mileage (1 trips at 132 Miles round-trip each)	132	miles	\$ 0.45	\$ 58.74
Subtotal				\$ 83.74
Task Subtotal				\$ 4,483.74
Administration Costs (5%)				\$ 224.19
Task Total				\$ 4,707.93

Task 7				
Implement Monitoring Plan	Amount	Unit	Cost per Unit	Total Cost
Direct Labor				
Gila Watershed Coordinator	20	hrs	\$ 65.00	\$ 1,300.00
E.coli Monitoring Specialist	48	hrs	\$ 65.00	\$ 3,120.00
Photo Monitoring Specialist	8	hrs	\$ 35.00	\$ 280.00
Subtotal				\$ 4,700.00
Material & Supplies				
E.coli Testing	2	ttl	\$ 800.00	\$ 1,600.00
Subtotal				\$ 1,600.00
Other Direct Costs				
Office supplies, printing and postage	1	each	\$ 25.00	\$ 25.00
Mileage (8 trips at 132 Miles round-trip each)	1056	miles	\$ 0.45	\$ 469.92
Subtotal				\$ 494.92
Task Subtotal				\$ 6,794.92
Administration Costs (5%)				\$ 339.75
Task Total				\$ 7,134.67

Task 8				
Implement Education & Outreach Plan	Amount	Unit	Cost per Unit	Total Cost
Direct Labor				
Gila Watershed Coordinator	8	hrs	\$ 65.00	\$ 520.00
Subtotal				\$ 520.00
Other Direct Costs				
Office supplies, printing and postage	1	each	\$ 65.00	\$ 65.00
Mileage (1 trips at 132 Miles round-trip each)	132	miles	\$ 0.45	\$ 58.74
Subtotal				\$ 123.74
Task Subtotal				\$ 643.74
Administration Costs (5%)				\$ 32.19
Task Total				\$ 675.93

Task 9				
Final Project Report	Amount	Unit	Cost per Unit	Total Cost
Direct Labor				
Gila Watershed Coordinator	80	hrs	\$ 65.00	\$ 5,200.00
Landowner	40	hrs	\$ 20.00	\$ 800.00
Subtotal				\$ 6,000.00
Other Direct Costs				
Office supplies, printing and postage	1	each	\$ 125.00	\$ 125.00
Subtotal				\$ 125.00
Task Subtotal				\$ 6,125.00
Administration Costs (5%)				\$ 306.25
Task Total				\$ 6,431.25

Total Requested AWPFF	\$ 100,350.94
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DETAILED MATCHING BREAKDOWN

Task 1				
Permits, Authorizations, Agreements - permits and subcontractor agreements	Amount	Unit	Cost per Unit	Total Cost
Direct Labor				
Landowner	60	hrs	\$ 20.00	\$ 1,200.00
Bureau of Land Management Range Conservationist	24	hrs	\$ 45.00	\$ 1,080.00
Bureau of Land Management archeologist	24	hrs	\$ 55.00	\$ 1,320.00
Bureau of Land Management Biologist	24	hrs	\$ 55.00	\$ 1,320.00
Subtotal				\$ 4,920.00
Task Subtotal				\$ 4,920.00
Task Total				\$ 4,920.00

Task 2				
Prepare implementation Plans (Site Preparation Plan, Well Drilling Plan, Solar Installation Installation Plan, Stock Tank Installation Plan, Monitoring Plan, Education & Outreach Plan)	Amount	Unit	Cost per Unit	Total Cost
Direct Labor				
Landowner	60	hrs	\$ 20.00	\$ 1,200.00
Subtotal				\$ 1,200.00
Task Subtotal				\$ 1,200.00
Task Total				\$ 1,200.00

Task 3				
Implement Site Preparation Plan	Amount	Unit	Cost per Unit	Total Cost
Direct Labor				
Landowner - Site Supervision	80	hrs	\$ 20.00	\$ 1,600.00
Subtotal				\$ 1,600.00
Task Subtotal				\$ 1,600.00
Task Total				\$ 1,600.00

Task 4				
Implement Well Drilling Plan	Amount	Unit	Cost per Unit	Total Cost
Direct Labor				
Landowner - Site Supervision	80	hrs	\$ 20.00	\$ 1,600.00
Subtotal				\$ 1,600.00
Task Subtotal				\$ 1,600.00
Task Total				\$ 1,600.00

Task 5				
Implement Solar Installation Plan	Amount	Unit	Cost per Unit	Total Cost
Direct Labor				
Landowner - Site Supervision	80	hrs	\$ 20.00	\$ 1,600.00
Subtotal				\$ 1,600.00
Task Subtotal				\$ 1,600.00
Task Total				\$ 1,600.00

Task 6				
Implement Stock Tank Installation Plan	Amount	Unit	Cost per Unit	Total Cost
Direct Labor				
Landowner - Site Supervision	80	hrs	\$ 20.00	\$ 1,600.00
Landowner - Labor to connect pipe btw pump & trough	60	hrs	\$ 20.00	\$ 1,200.00
Stone Mason	220	hr	\$ 28.00	\$ 6,160.00
Masonry Helpers	220	hr	\$ 20.00	\$ 4,400.00
Subtotal				\$ 13,360.00
Equipment				
Tractor(includes operator) (for moving rock)	24	hr	\$ 75.00	\$ 1,800.00
Back Hoe (includes operator) (for moving rock)	48	hr	\$ 75.00	\$ 3,600.00
Subtotal				\$ 5,400.00
Material & Supplies				
Sand	1	tti	\$ 12.00	\$ 12.00
Rock	1	tti	\$ 1,500.00	\$ 1,500.00
Subtotal				\$ 1,512.00
Task Subtotal				\$ 20,272.00
Task Total				\$ 20,272.00

Task 7				
	Amount	Unit	Cost per Unit	Total Cost
Implement Monitoring Plan				
Direct Labor				
Landowner - Monitoring Assistance	80	hrs	\$ 20.00	\$ 1,600.00
Subtotal				\$ 1,600.00
Task Subtotal				\$ 1,600.00
Task Total				\$ 1,600.00

Task 8				
	Amount	Unit	Cost per Unit	Total Cost
Implement Education & Outreach Plan				
Direct Labor				
Landowner	16	hrs	\$ 20.00	\$ 320.00
Subtotal				\$ 320.00
Task Subtotal				\$ 320.00
Task Total				\$ 320.00

Task 9				
	Amount	Unit	Cost per Unit	Total Cost
Final Project Report				
Direct Labor				
Landowner	40	hrs	\$ 20.00	\$ 800.00
Subtotal				\$ 800.00
Task Subtotal				\$ 800.00
Task Total				\$ 800.00

Total Matching	\$ 33,912.00
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Additional Match from ADEQ (\$174,520) and ADA (\$118,568) Well Grants	\$ 293,088.00
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Total AWP Funds and Match	\$ 427,350.94
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Photos



Livestock in the riparian area at the Kaler Ranch



The Kaler Ranch's private land is located along the San Francisco River in Greenlee County



Solar installation being completed with an ADEQ and ADA grant on the Kaler Ranch

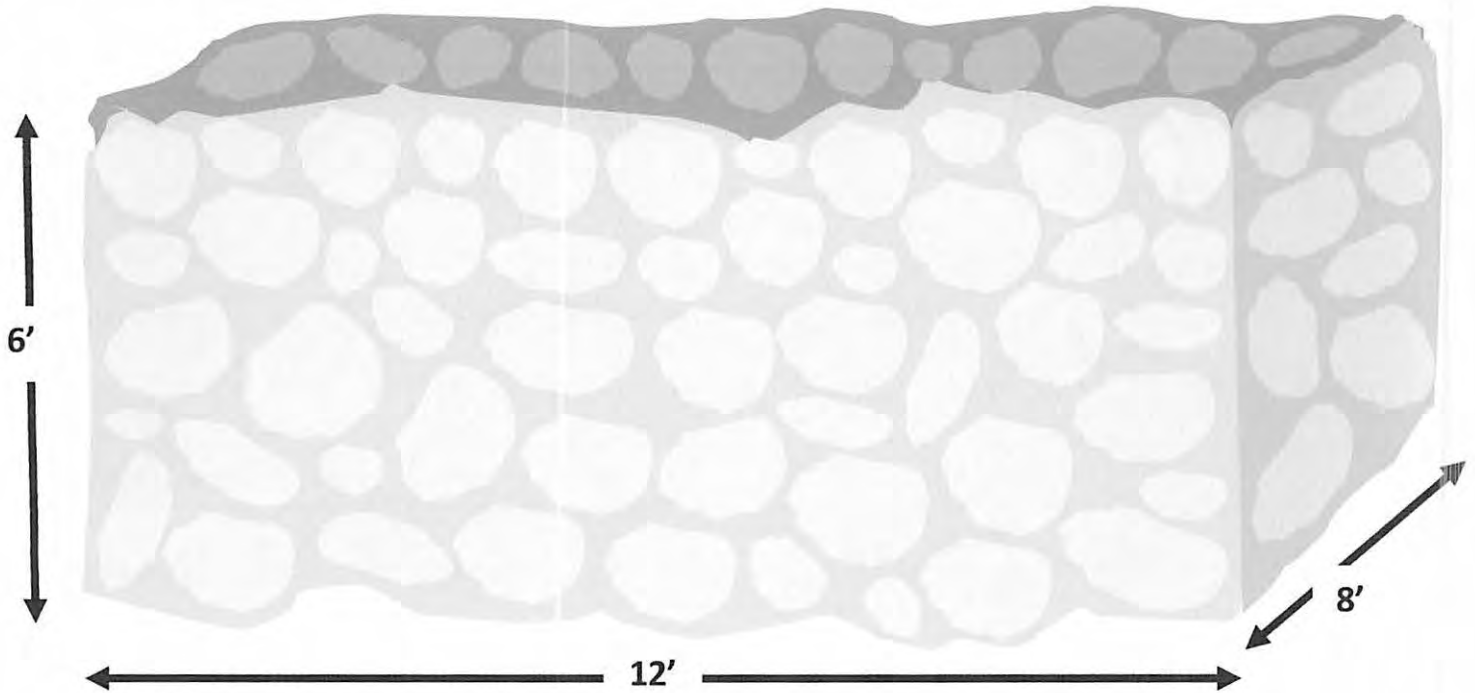
<p>INDEX</p> <p>Happenings 2</p> <p>Opinion 4</p> <p>Sports 6</p> <p>Classified 9-10</p>	<h1>THE COPPER ERA</h1> <p>Winner of the 2002 ANA General Excellence Award for small weeklies Serving Greenlee County Residents Since 1899</p> <p>Wednesday, September 30, 2009 Vol. 110, No. 39 12 pages 1 Section Clifton, Arizona 75 cents</p> <h2>San Francisco, Blue rivers 'impaired'</h2> <h3>Source of E. coli yet uncertain</h3> <p><i>By Deborah Mandelblat</i> Contributing Writer</p> <p>Worried about alligators? That's not all that might float by as someone fishes or swims in the San Francisco River.</p> <p>The day after Labor Day, this reporter and a friend made a trip up the San Francisco River Road to a good location to get in kayaks when the waters are high. What did they find there?</p> <p>Thousands of sheets of sparkling glass from freshly washed bottles. Hops of garbage resting under cut-off food packaging. Most of all, there was pile after pile of stinking human feces, smeared with toilet paper and left in the open. Not right in the water, but in places that the water touches at least a few times each year.</p> <p>Had it rained a little harder these last few weeks, some of those feces would have already made their way to Clifton.</p> <p>Not a half-mile downstream from most of the fifth in a grandly sloping pool where children splash and paddle around while their parents cast a fishing line at a safe distance, the complete study is right where the catch is so. Maybe they are your children. Maybe you have been having those fish.</p> <p>Over the last few years, the Arizona Department of Environmental Quality, after seeing random water samples from the Frisco and Blue rivers, declared parts of both rivers "impaired for E. coli." That's <i>Escherichia coli</i>, that nasty little bacterium you learn about in food poisoning classes. There are many forms of E. coli, and while most of them aren't harmful to humans, some are quite dangerous to people, especially in the very young or old and those with compromised immune systems.</p> <p>Has anyone become sick from E. coli in our area?</p> <p>We don't know — people don't always go to a doctor when they get a case of diarrhea, even when it never completely goes away. But with that "impairment" finding, people have to start looking more closely at what's going on — before it's too late.</p> <p>So far, all that the Department of Environmental Quality has proved is that there are very high levels of E. coli in portions of our river waters at certain times. We don't know how often those high levels are present, and we don't know just whose untreated trash produced the bacteria that ADEQ's tests picked up. Did the E. coli found come from human feces or animal sources? There are different theories, and some of them are yet proven. But that is about to change.</p> <p>A very important thing to understand about the very public health experts' claim is that E. coli is a reliable</p> <p>See <i>Alibates</i> on Page 12A</p>
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Article in the Greenlee County newspaper about the E.coli impairment in the San Francisco River

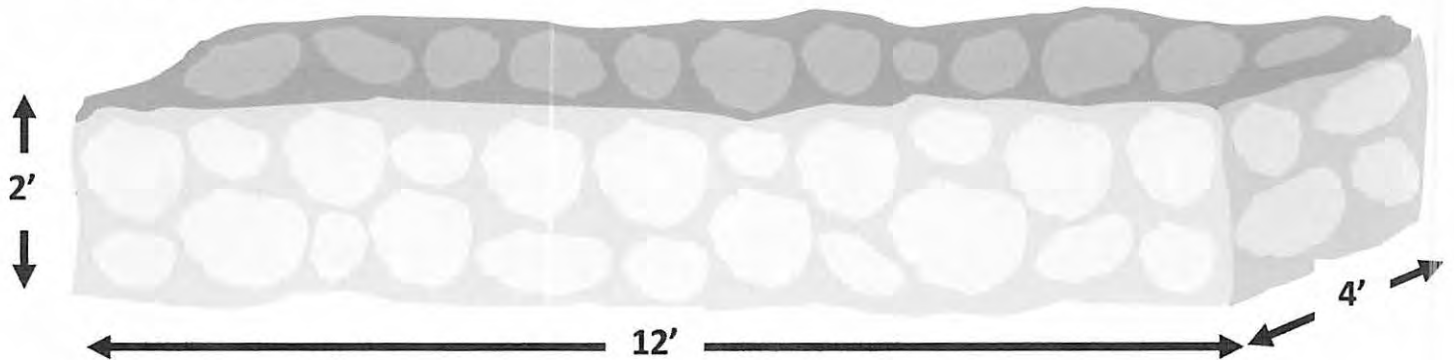
E.coli Reduction on the San Francisco River

Through Alternative Livestock Water on the Kaler Ranch, Phase III

Water Storage Tank Design – Built of rock and concrete – will hold approximately 2,300 gallons. Dimensions shown below are outside dimensions. Water storage capacity is based on inside dimensions, which is approximately 5 feet in depth, 10 feet in length, and 6 feet in width.



Cattle Trough Design – Built of rock and concrete – will hold approximately 740 gallons. Dimensions shown below are outside dimensions. Water storage capacity is based on inside dimensions, which is approximately 1 foot in depth, 10 feet in length, and 2 feet in width.



Existing Plans, Reports, Information Relevant to the Project
See attached

Letters of Community Support
See attached

PO Box 127 • 2100 S. Bowie Avenue • Solomon AZ 85551-0127 • (928) 428-2611 • FAX: (928) 428-7023

August 27, 2010

Arizona Water Protection Fund
3550 North Central Ave.
Phoenix, AZ 85012

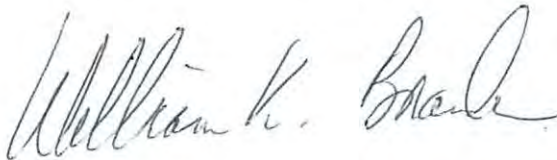
Dear Representatives of the Arizona Water Protection Fund:

I am writing this letter to express my support for the Gila Watershed Partnership and their application for grant funding for the E.coli Reduction on the San Francisco River through Alternative Livestock Water on the Kaler Ranch, Phase III, grant project. This grant is important as it will help to address the E.coli issue on the San Francisco River. Solving this issue is critical to Greenlee County and the Upper Gila Watershed.

I support their efforts to secure these grant funds and I am confident that they will be used in a very worthwhile and efficient manner.

Thank you for your consideration in this matter.

Sincerely,



Bill Brandau
Graham County Cooperative Extension Director
Area Agent, Agriculture and Natural Resources,
Graham and Greenlee County
University of Arizona Cooperative Extension
P.O. Box 127
Solomon, Arizona 85551
wbrandau@cals.arizona.edu



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Safford Field Office

711 14th Avenue

Safford, Arizona 85546

928-348-4400

www.blm.gov/az/sfo



August 21, 2010

Arizona Water Protection Fund Commission
Arizona Water Protection Fund
3550 North Central Avenue
Phoenix, Arizona 85012

Re: E.coli Reduction on the San Francisco River Through Alternative Livestock Water on the Kaler Ranch, Phase III

Dear Arizona Water Protection Fund Commissioner,

This letter is to indicate support for the Gila Watershed Partnership of Arizona's grant application for the E.coli Reduction on the San Francisco River through Alternative Livestock Water on the Kaler Ranch, Phase III project. This grant will reduce E.coli in the San Francisco River by providing alternative livestock water out of the riparian area of the San Francisco River. We agree to supply the match for the permits and clearances on the applicable BLM land. We support this grant application and we urge you to fund this project.

Thank you for your consideration. Please contact me if you have any questions.

Sincerely,

Lance R. Brady
Assistant Field Office Manager
Safford Field Office
Bureau of Land Management

Greenlee County Planning and Zoning

Director Voice - (928) 865 4762
P.O. Box 908 253 Fifth Street
Clifton, Arizona 85533

Facsimile - (928) 865 4763
email - pronnerud@co.greenlee.az.us

Clerk
Yvonne Pearson

Administrator
Deborah K. Gale

Board of Supervisors
David Gomez, District 1
Hector Ruedas, Chair, District 2
Richard Lunt, District 3

August 20, 2010

Arizona Water Protection Fund Commission
3550 North Central Avenue
Phoenix, Arizona 85012

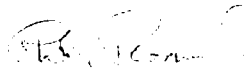
Dear Arizona Water Protection Fund Commissioners:

I support the Gila Watershed Partnership's grant application for E.coli Reduction on the San Francisco River through Alternative Livestock Water on the Kaler Ranch, Phase III. This grant is important as it will install critical infrastructure to address the E. coli problem in the San Francisco River, which is an critical resource to us in Greenlee County and the Upper Gila Watershed.

I support their efforts to secure these grant funds, and are confident that they will be used in a very worthwhile and efficient manner.

Please call if you have questions.

Yours truly,



Philip Ronnerud
Engineer

d: kalar III.wpd

CORONADO



656 N. Bisbee Avenue
Willcox, AZ 85643
Phone: (520) 384-2229 x122
Fax: (520) 384-2735

August 29, 2010

Arizona Water Protection Fund Commission
3550 North Central Ave.
Phoenix, AZ 85012

Dear Arizona Water Protection Fund Commissioners:

I am writing in support of the Gila Watershed Partnership's project to install a well on the Kaler property in Greenlee County. This well will allow the rancher to completely exclude livestock from the San Francisco River riparian area and restore a healthy ecosystem.

As a Council that also works on projects in southeastern Arizona to improve our natural resources, we feel that providing an alternate source of water, provides feasible options for the ranchers and allows for the protection of the riparian area. The Gila Watershed Partnership has worked on multiple phases of projects to improve the San Francisco River and this one is a much needed next step. We would recommend it for funding and appreciate your consideration of this proposal.

Sincerely,

John E. Hays, President

"Local People Making Things Happen"
Serving Cochise, Graham, Greenlee, Pima, and Santa Cruz Counties



Janice K. Brewer
Governor

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

1110 West Washington Street • Phoenix, Arizona 85007
(602) 771-2300 • www.azdeq.gov



Benjamin H. Grumbles
Director

August 25, 2010

Arizona Water Protection Fund Commission
Arizona Department of Water Resources
3550 North Central Avenue
Phoenix, Arizona 85012

Re: Letter of Support for the Kaler Ranch Well Project

To Whom It May Concern,

I am writing in support of the Gila Watershed Partnership's application for funding to implement a solar powered well at the Kaler Ranch to provide off-channel water sources for livestock. The Kaler Ranch is located along a reach of the San Francisco River that has been assessed as impaired by the Arizona Department of Environmental Quality (ADEQ) due to exceedances of the *E. coli* bacteria standard for Full Body Contact. A Total Maximum Daily Load (TMDL) report developed by ADEQ has identified livestock as a contributing source of bacteria in this reach.

The owners of the Kaler Ranch have expressed concern that grazing their cattle near and in the riparian areas of the San Francisco River may be contributing to the *E. coli* impairment, and have taken measures to provide alternative water sources for their cattle with support from two previous ADEQ Water Quality Improvement Grants (WQIGs). In addition, they have utilized WQIG funding to implement best management practices to address overall erosion from their property. The owners have also been involved in the ongoing San Francisco/Blue River Targeted Watershed Improvement Grant, a WQIG awarded to the Gila Watershed Partnership in 2009 to identify specific bacteria sources within the drainage contributing to the *E. coli* impairment. Photo and water quality monitoring associated with these projects has shown that cattle from the Kaler Ranch are a likely bacteria source. While the Kalers are willing to completely exclude their cattle from the riparian area in order to protect water quality, they are unable to do so until sufficient alternative water supplies have been established. Funding for this fourth and final solar well would allow them to isolate a documented source of *E. coli* along the San Francisco River.

Both the GWP and the Kalers have shown strong interest in and commitment to active stewardship of the lands surrounding the San Francisco River to protect its water resources. I encourage you to strongly consider their Arizona Water Protection Fund application for award.

Sincerely,

Krista Osterberg
Grant & Outreach Coordinator
Water Quality Division
Arizona Department of Environmental Quality

cc Jan Holder, Gila Watershed Partnership

Northern Regional Office
1801 W. Route 66 • Suite 117 • Flagstaff, AZ 86001
(928) 779-0313

Southern Regional Office
400 West Congress Street • Suite 433 • Tucson, AZ 85701
(520) 628-6733

DECISION RECORD

EA Number: DOI-BLM-AZ-G010-2008-0043

Serial/Case File No. 40020

BLM Office: Safford Field Office

Decision: It is my decision to implement the proposed action and drill up to four wells as a source of permanent water on the San Francisco Allotment.

Alternatives Considered: The No Action Alternative would not fulfill the purpose and need of the project.

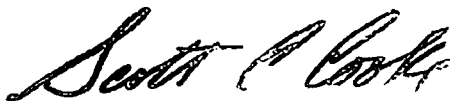
Rational for Decision: The proposed action is specifically provided for in the Safford District RMP. The environmental assessment dated 26 November 2007, prepared for the project analyzed the potential impacts to the environment and the public should the proposed action be implemented. A Finding of No Significant Impacts (FONSI) has been signed documenting no significant impacts to the environment that would require an environmental impact statement. By selecting the proposed action, the Safford Field Office is implementing this portion of the Safford District RMP.

Mitigation Measures/ Additional Stipulations:

1. No new road construction will occur.
2. Livestock waters will not be stocked with nonnative aquatic species.
3. Water will remain accessible to wildlife
4. Any unused or discarded materials will be properly disposed.
5. Periodic inspection and continued range monitoring

Appeals:

This decision may be protested or appealed under the procedures outlined in CFR 300.4 (Appeals), 43 CFR 4.411., and 1610.5, 5-1.



Scott Cooke

Field Office Manager

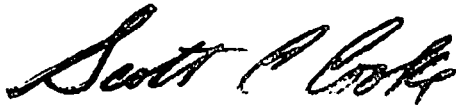
6/4/10
Date

Attachments: Finding of No Significant Impact dated 6/4/10

Environmental Assessment – AZ-G010-2008-0043

There are no pending or authorized lands actions which might conflict with this proposed action. The decision to allow the proposed action does not result in any undue or unnecessary environmental degradation and is in conformance with the Safford Resource Management Plan, and Record of Decision approved September 1992 and July 1994. This proposed action has been reviewed to determine if it conforms to the land use plan terms and conditions as required by 43 CFR 1610.5, BLM MS 1617.3.

Attachments: NEPA#: DOI-BLM-AZ-G010-2008-0043



Scott Cooke Field Office Manager

5/4/10

Date

FINDING OF NO SIGNIFICANT IMPACT

EA Number: DOI-BLM-AZ-G010-2008-0043

Serial/Case File No. 40020

BLM Office: Safford Field Office

Finding of No Significant Impact:

I have reviewed the environmental assessment (EA), # DOI-BLM-AZ-G010-2008-0043, dated 26 November 2007, prepared for the San Francisco Wells project, and have found through the EA that there are no potentially significant environmental impacts caused by the proposed project. I have determined that the proposed action with the mitigation measures listed below will not have any significant impacts on the human environment and that an EIS is not required. I have determined that the proposed action is in conformance with the Safford District Resource Management Plan approved in Record of Decision dated Part I, September 1992; Record of Decision Part II, July 1994.

Below are the substantive reasons for finding no significant impact:

The rationale for this decision is such that it does not conflict with the Safford Resource Management Plan. The issues that are identified are not significant and are mitigated sufficiently given the potential impacts. The "no action" alternative does not adequately meet the applicant's needs, nor is it adequate given the environmental or economic impacts that are identified.

The following elements have been analyzed and would not be affected or are mitigated sufficiently: Air Quality, ACEC's, Cultural Resources, Environmental Justice, Socio-Economics, Floodplains, Hazardous Materials, Nonnative/Invasive Plants, Native American Rel., Prime/Unique Farmlands, Solid Waste, T&E Animal Species, T&E Plant Species, VRM (Class III), Water Quality (Ground and Surface), Water Rights, Wetlands/Riparian, Wild & Scenic River, Wilderness, Standards for Rangeland Health, Lands, Wildlife, and Fisheries.

WATER RIGHTS

ARIZONA DEPARTMENT OF WATER RESOURCES

Surface Water Rights
3550 North Central Avenue, Phoenix, Arizona 85012
Telephone (602) 771-8500
Fax (602) 771-8688



JANET NAPOLITANO
GOVERNOR

HERB GUENTHER
DIRECTOR

July 19, 2006

Richard M. and Lois J. Kaler

Personal Identifying Information

RE: Assignment (Conveyance) of Statement of Claim Nos. 36-25449 and 36-25450.

From: Jerald P. Baldwin and Leslie A. Wootten

To: Richard M. and Lois J. Kaler

Applicant:

The referenced assignment actions have been completed as required by Arizona Revised Statutes §§ 45-163 and 45-164. The official records of the Arizona Department of Water Resources (Department) have been revised to indicate the name and address of the current holder of the referenced surface water filings.

The Department assumes your request for assignment on the Statement of Claim of Right is a request to change the name of the claimant only. The Department does not presume to either adjudicate the validity of the claim or determine who should hold the claim.

Check No. 7868 for \$20.00 has been deposited. Thank you for your payment. The cancelled check is your receipt.

If you have further questions regarding the assignment application process, please contact me at (602) 771-8500.

Sincerely,

A handwritten signature in cursive script that reads "Joannie Aguilar".

Joannie Aguilar
Surface Water Rights Specialist

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Supplemental Information on disk:

The ADEQ E.coli Reduction on the San Francisco and Lower Blue Rivers Grant SAP/QAPP