

**Arizona Water Protection Fund
FY 2014 Grant Application Review**

Application # WPF0417 Applicant: Hereford Natural Resource Conservation District
Title of Project: Horseshoe Draw Flood Control, Restoration & Erosion Mitigation Study + Design Project

Additional materials were submitted with this application that could not be reproduced and distributed for review. These materials may be reviewed in person at the Arizona Water Protection Fund offices at (3550 N. Central Avenue, 2nd Floor, Phoenix). The additional materials available are the following:

- Maps
- Photographs
- Disk
- Other (USB) Flash Drive

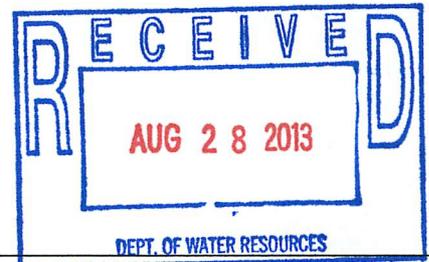
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AUG 28 2013

Water Protection Fund

WPF 0417

Arizona Water Protection Fund
Application Cover Page
FY 2014



Title of Project: Horseshoe Draw Flood Control, Restoration, and Erosion Mitigation Study and Design Project

Type of Project: [X] Capital or Other, [] Water Conservation, [] Research
Stream Type: [] Perennial, [] Intermittent, [X] Ephemeral
Your level of commitment to maintenance of project benefits and capital improvements: [] < 5 years, [] 5-10 years, [] 11-15 years, [X] 16-20 years

Applicant Information:
Name/Organization: Hereford Natural Resource Conservation District
Address 1: 2136 N. Truman Rd.
Address 2:
City: Huachuca City
State: AZ
ZIP Code: 85616
Phone:
Fax:
Tax ID No.:

Inside an AMA: Yes [] No [X]
If yes, which AMA:
[] Phoenix
[] Tucson
[] Prescott
[] Pinal
[] Santa Cruz

Type of Application:
[X] New
[] Continuation

Contact Person:
Name: Deborrah Smith
Title: Cascabel Consultants
Phone: 830-719-5372
Fax:
e-mail: debsmith2727@gmail.com

Any Previous AWPf Grants:
[] Yes [X] No
If yes, please provide Grant #(s):

Arizona Water Protection Fund
Grant Amount Requested:
\$198,625.00
If the application is funded, will the Grantee intend to request an advance:
[] Yes [X] No

Matching Funds Obtained and Secured:
Table with columns: Applicant/Agency/Organization, Amount (\$)
1. Applicant: 7,500.00
2. Ladd & Ladd Ranch: 5,850.00
3.
Total: 13,350.00

Has your legal counsel or contracting authority reviewed and accepted the Grant Award Contract General Provisions?
[X] Yes [] No [] 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.

Rachel Thomas
Typed Name of Applicant or Applicant's Authorized Representative
Signature: Rachel A Thomas
Vice Chairman, 520-508-9185
Title and Telephone Number
Date Signed: 8/27/2013

Project Location & Environmental Contaminant Information FY 2014

Project Location Information			
1. County: Cochise	2. Section: 10, 11, 14	3. Township: 24S	4. Range: 22E
<p>5. Watershed: San Pedro River WS</p> <p>6. 8 or 10 Digit Hydrologic Unit Code (HUC): To be determined by study.</p> <p>7. Name of USGS Topographic Map where project area is located: Stark & Hereford USGS Topo Maps</p> <p>8. State Legislative District: 14 (Information available at: http://azredistricting.org/districtlocator/)</p> <p>9. Land ownership of project area: Private</p> <p>10. Current land use of project area: Grazing</p> <p>11. Size of project area (in acres): To be determined by study.</p> <p>12. Stream Name: Horseshoe Draw</p> <p>13. Length of stream through project area: To be determined by study.</p> <p>14. Miles of stream benefited: To be determined by study <u>miles</u></p> <p>15. Acres of riparian habitat: To be determined by study <u>acres</u> will be:</p> <div style="margin-left: 40px;"> <input 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: <i>From Sierra Vista, AZ GO SOUTH ON 92 CROSS THE SAN PEDRO RIVER TO ALMOST GREEN BUSH DRAW. TURN RIGHT AT LADOLLADO SIGN. FOR ACCESS CALL JOHN LADD 520-456-5938.</i> </p>			
Environmental Contaminant Location Information			
<p>1. Does your project site contain known environmental contaminants? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If yes, please identify the contaminant(s) and enclose data about the location and levels of contaminants:</p> <p>2. Are there known environmental contaminants in the project vicinity? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If yes, please identify the contaminant(s) and enclose data about the location and levels of contaminants:</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>			

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Executive Summary

The *Draw Flood Control, Restoration, and Erosion Mitigation Study and Design Project* (heretofore referred to as the “Horseshoe Draw Project”) is a project proposed by the Hereford Natural Resource Conservation District (HNRCD) and will take place on the Ladd Ranch, located outside of Sierra Vista, Arizona. The project would benefit the San Pedro River, the San Pedro River Watershed, and aquifer recharge. Head cutting at Horseshoe Draw has caused severe erosion and therefore masses of sediment to be transferred downstream into the San Pedro River. Flooding sweeps fine sediment and debris into the riverbed, which causes the river’s sandy soils to be clogged, thus inhibiting water from seeping down into the aquifer, preventing it from recharging.

The project would consist of three phases. Phase One requires an engineering company to perform a feasibility study to determine what is the best method to prevent further soil erosion, control flooding and runoff, and prevent soil loss on the watershed. A preliminary look at the area determined a berm structure would be most suitable, however, the study is required to determine the proper structure or structures needed, and which would be most suitable, as well as the most effective locations for the construction of the berm(s). Phase Two includes a final project design based on findings from Phase One. Finally, Phase Three would be construction.

The HNRCD is applying to the Arizona Water Protection Fund (AWPF) FY 2014 Grant Cycle in order to complete Phases One and Two. After a feasibility study and final design plans are completed, an accurate determination of cost for construction would be made and Phase Three could then begin. The major goals of the Horseshoe Draw Project are to prevent further soil loss on the watershed, heal and prevent further erosion, and reduce the amount of sediment flow into the San Pedro River thus allowing for recharge of the aquifer. A berm structure would control the flow of water runoff, which is especially important during intermittent and intense seasonal flooding, thus achieving the major goals of the project.

The following proposal offers a detailed description of the necessary steps of Phases One and Two, and provides a deeper understanding of the need and urgency of this project.

Project Overview

Background:

The Horseshoe Draw Project has been in the works for the last three years, but the HNRCD has been unable to begin this project due to a lack of funding. The HDWP proposes to construct a berm on the Ladd Ranch near Sierra Vista, Arizona, to temporarily store water and control runoff from the Horseshoe Draw in order to reduce flood peaks and therefore prevent future damage to roads and property downstream, reduce and begin healing erosion and soil loss on the watershed, increase recharge runoff into the aquifer, and reduce sediment flows downstream into the San Pedro River.

This type of drainage control has already been implemented in the area and has proven effective. Earthen berms built in 1932, by the Civilian Conservation Corps, have withstood nearly 90 years of use with little to no upkeep. These earthen berms are built up to create a kind of dam to temporarily store water, while culverts that run completely through the berm from one end to the other allow a controlled outflow, controls erosion, and reduce sediment flow. In order to build a new berm (Phase Three), at the Horseshoe Draw head cutting location, the HNRCD must first complete a feasibility study (Phase One) and design plan (Phase Two).

Goals and Objectives:

The HNRCD seeks funding for the Horseshoe Draw Project Phases One (Preliminary Research/Design/Permitting) and Two (Final Design/Permitting/ Construction Documents). Intermittent and intense flooding impacts the Horseshoe Draw, and has created significant head cutting, channel meanders, and other signs of an unbalanced sediment transport system. The Project's primary objectives are to reduce flood peaks and therefore prevent future damage to roads and property downstream, reduce and begin healing erosion and soil loss on the watershed, increase recharge runoff into the aquifer, and reduce sediment flows into the San Pedro River.

Problems and Causes:

Horseshoe Draw has steadily been eroding, sending large amounts of sediment into the San Pedro River, thus destabilizing the aquifer. In addition, recent severe flooding (July 2013) has destroyed the only road access at the Paloma Trail wet crossing, an access way that serves over 25 residents in the rural area, which is the closest access to Highway 92. Floodwaters have completely destroyed the road, while the swift current caused severe erosion, transporting tons of sediment and debris to the San Pedro. Had the berm structure proposed by the HDWP been constructed when it was first recommended several years ago, the Paloma crossing would not have been destroyed and tons of concrete, rock, and sediment would not have been carried down the wash to the San Pedro River.

Solutions:

The Horseshoe Draw Flood Control, Restoration, and Erosion Mitigation Study and Design Project proposed by HilgartWilson Engineers, Planners and Surveyors of Phoenix Arizona (the

Project Manager), will determine which type of berm structure(s) would be the most effective for Horseshoe Draw (Phase One), and will then submit design plans for construction of the berm(s) (Phase Two). Once these two phases are complete, implementation of the design will be possible.

Project Years of Benefit:

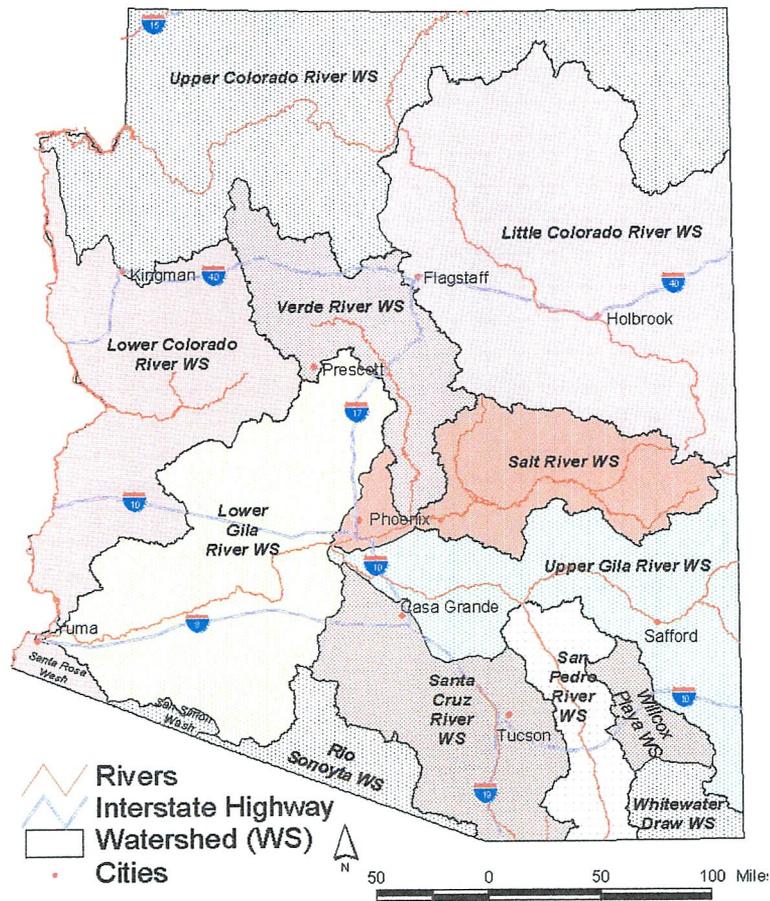
Once Phases One and Two are completed, it will be possible to determine the years of benefit as is applicable to the construction of the berm.

Project Location

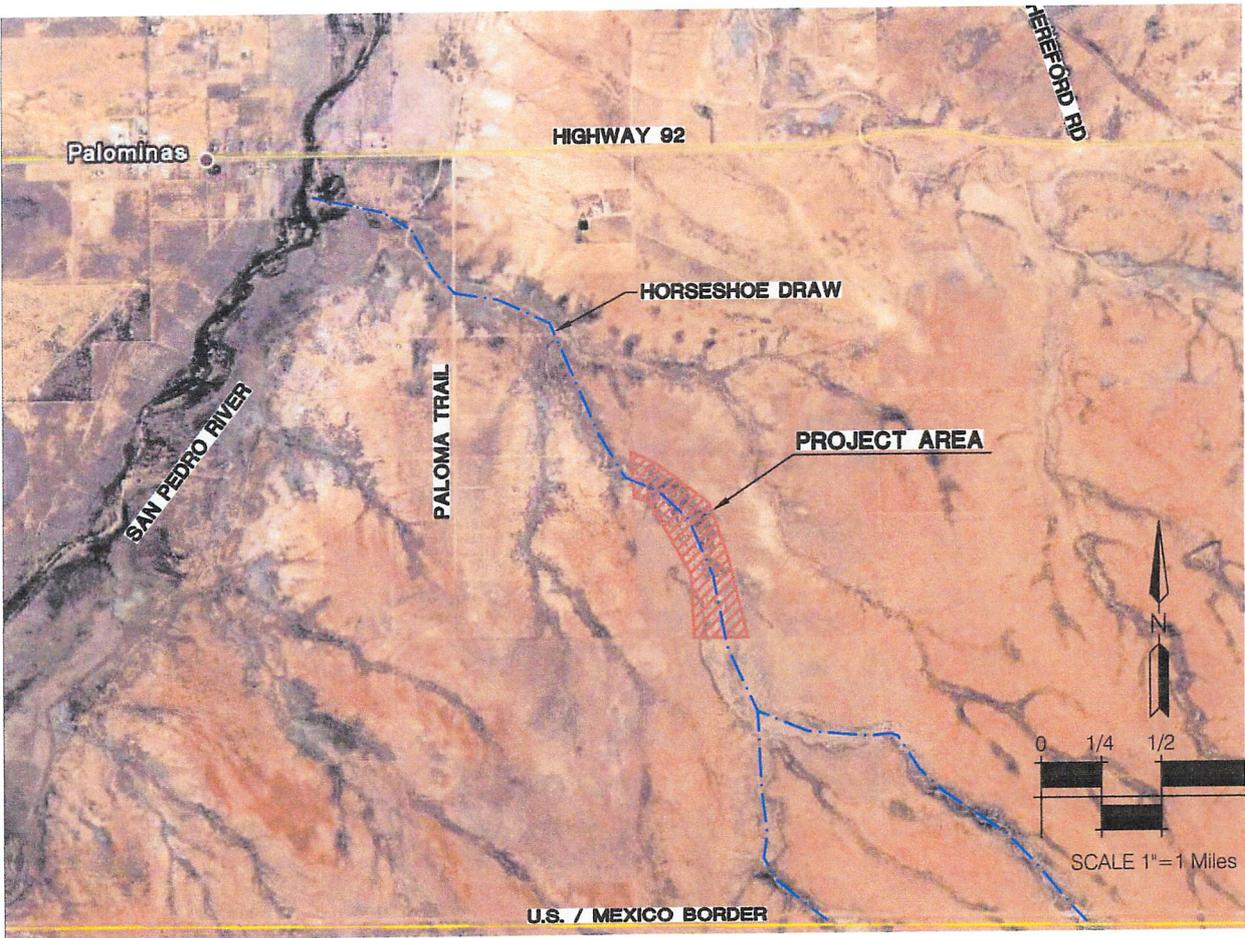
The subject reach of Horseshoe Draw begins approximately 1.2 miles upstream from the now-damaged Paloma Trail wet crossing and stretches southwards for one mile. The contributing watershed begins in Mexico, stretches east of the San Pedro River, and ends south of Highway 92. Approximately 9,000 acres of undeveloped rangeland contributes significantly to the runoff coming from Horseshoe Draw that flows into the San Pedro River just south of the highway.

Project Maps

AZ Watershed Map Project Location: San Pedro River WS



Project Location Map



Scope of Work (Phases One & Two)

Task 1: Permitting Evaluation

Task Description: The Project Manager will submit all permits, authorizations, clearances and agreements, and perform any consultations necessary to complete the tasks listed in this Scope of Work. These may include but are not limited to:

- Coordination with the Arizona Department of Water Resources, if it is required, depending on the size of some engineering controls, particularly impoundments/embankments, which may be employed for the Project.
- 401 Water Quality Certification, which reviews the Project's anticipated effect on the water quality and checks for consistency with approved water quality planning and management programs.
- Coordination with the Arizona Department of State Land to initiate improvements on the State owned parcels affected by the Project.
- Coordinate with Cochise County Flood Control to begin the Floodplain Use Permit process, if necessary.
- The Project is proposed within the 100-year floodplain of the Horseshoe Draw wash, and as such, will require coordination with the County.

Task Purpose: To comply with State and local permitting requirements.

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

Deliverable Due Date: October 2014 (assuming March 2014 start date)

Reimbursable Cost: \$10,000.00

Task 2: Hydrologic Analysis of Watershed

Task Description: Existing hydrologic data obtained from the Cochise County Floodplain Administrator and/or the Federal Emergency Management Agency (FEMA) will be reviewed to identify the 100-year design flow through the Project. As necessary, this analysis shall be supplemented by additional hydrologic modeling conducted in accordance with current standards.

Task Purpose: The analysis will identify the extent of the contributing drainage area, as well as hydrologic characteristics, flow routing parameters, and impoundments/diversions along the watercourse. This information will be used to determine realistic goals for the Project.

Deliverable Description: Analysis of contributing drainage area, hydrologic characteristics, flow routing parameters, and impoundments/diversions along the watercourse.

Deliverable Due Date: June 2014 (assuming March 2014 start date)

Reimbursable Cost: \$10,000.00

Task 3: Aerial Mapping of Watercourse

Task Description: A sub-consultant will be hired to perform the requisite aerial survey for design topographic mapping.

Task Purpose: To provide aerial photography and lab work to provide two-foot interval digital ortho imagery for the site.

Deliverable Description: Aerial photographs and digital ortho imagery.

Deliverable Due Date: May 2014 (assuming March 2014 start date)

Reimbursable Cost: \$15,000.00

Task 4: Hydraulic Analysis

Task Description: A detailed hydraulic analysis of the existing watercourse within the Project in accordance with current modeling standards and practices will be completed.

Task Purpose: This analysis will be used to the existing conditions at the site including the horizontal and vertical limits of the 100-year floodplain. Constraints found through this analysis will be used to consider possible controls that could be implemented to mitigate the site's flooding issues.

Deliverable Description: Hydraulic analysis of existing watercourse.

Deliverable Due Date: August 2014 (assuming March 2014 start date)

Reimbursable Cost: \$10,000.00

Task 5: Geotechnical Investigation

Task Description: A sub-consultant will perform the requisite geotechnical analysis to characterize the existing soil conditions at the site.

Task Purpose: This geotechnical investigation shall include determination of the critical soil parameters needed to support scour analyses, sediment transport modeling, and percolation calculations.

Deliverable Description: Geotechnical analysis.

Deliverable Due Date: June 2014 (assuming March 2014 start date)

Reimbursable Cost: \$10,000.00

Task 6: Sediment Transport Analysis

Task Description: Utilizing findings from the hydraulic analysis and geotechnical investigation, a sediment transport analysis will be prepared to characterize the existing conditions within the Project.

Task Purpose: The results of this analysis will be used to understand the issues that are causing the erosive conditions currently observed at the site, and to provide insight into what corrective measures can be taken to mitigate these hazards.

Deliverable Description: Sediment transport analysis.

Deliverable Due Date: September 2014 (assuming March 2014 start date)

Reimbursable Cost: \$10,000.00

Task 7: Preliminary Analysis of Recharge Potential

Task Description: Preliminary analysis of recharge potential.

Task Purpose: Findings from the hydrologic, hydraulic, and geotechnical evaluations will be used to consider the potential for incorporating groundwater recharge elements into the Project improvements.

Deliverable Description: Recharge potential of aquifer analysis.

Deliverable Due Date: September 2014 (assuming March 2014 start date)

Reimbursable Cost: \$8,000.00

Task 8: Conceptual Design Alternatives

Task Description: At the conceptual design level, findings will be used from the aerial mapping, soils investigation, and hydrologic and hydraulic analyses to develop potential configurations of structural and non-structural mitigation plans for the Project.

Task Purpose: The conceptual design process will more precisely define the next level of plans and specifications necessary to construct flood control and erosion protection improvements including: Embankments and Impoundments, Culverts, Bank Stabilization, Grade Control Structures, and Erosion Revetment.

Deliverable Description: Alternative designs for berm construction.

Deliverable Due Date: October 2014 (assuming March 2014 start date)

Reimbursable Cost: \$17,000.00

Task 9: Final Design

Task Description: Findings from the Conceptual Design Phase will be used to develop the final configurations of structural and non-structural mitigation plans for the Project.

Task Purpose: The Final Design Phase will precisely define plans and specifications necessary to construct flood control and erosion protection improvements including: Embankments and Impoundments, Culverts, Bank Stabilization, Grade Control Structures, and Erosion Revetment.

Deliverable Description: Final design of berm construction.

Deliverable Due Date: March 2015 (assuming March 2014 preliminary design start date)

Reimbursable Cost: \$35,000.00

Task 10: Permitting

Task Description: The Project Manager will submit all permits, authorizations, clearances and agreements, and perform any consultations necessary to complete the tasks listed in this Scope of Work.

Task Purpose: To comply with State and local permitting requirements.

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

Deliverable Due Date: June 2015 (assuming March 2014 preliminary design start date)

Reimbursable Cost: \$25,000.00

Task 11: Construction Documents

Task Description: The Project Manager will prepare all necessary documents in order to prepare for construction based on Permitting and the Final Design Phase.

Task Purpose: To provide proper and necessary construction documentation based on the Final Design phase and to comply with all construction regulations and permitting.

Deliverable Description: Copies of construction documentation.

Deliverable Due Date: June 2015 (assuming March 2014 preliminary design start date)

Reimbursable Cost: \$40,000.00

Budget

1. Direct Labor Costs & Fringe Benefits - (Provide the names and/or titles of key project personnel)					
Name/Title of Position	Hourly Rate	No. of Hours	Grant Funds	Match / Cost Share (if any)	Total
Not Applicable	\$ -		\$ -	\$ -	\$ -
	\$ -		\$ -	\$ -	\$ -
	\$ -		\$ -	\$ -	\$ -
	\$ -		\$ -	\$ -	\$ -
	\$ -		\$ -	\$ -	\$ -
Subtotal			\$ -	\$ -	\$ -

2. Outside Services - Consultant/Contracting Fees					
Name and Type of Consultant	No. of Hours	Hourly Rate of Compensation	Grant Funds	Match / Cost Share (if any)	Total
Task 1: Permitting Evaluation - hilgartwilson - Ronald Hilgart P.E.	69	\$ 145.00	\$ 10,000.00	\$ -	\$ 10,000.00
Task 2: Hydrologic Analysis of Watershed - Aubrey Thomas, P.E.	77	\$ 130.00	\$ 10,000.00	\$ -	\$ 10,000.00
Task 3: Aerial Mapping of Watercourse	N/A	N/A	\$ 15,000.00	\$ -	\$ 15,000.00
Task 4: Hydraulic Analysis- Aubrey Thomas, P.E.	77	\$ 130.00	\$ 10,000.00	\$ -	\$ 10,000.00
Task 5: Geotechnical Investigation	77	\$ 130.00	\$ 10,000.00	\$ -	\$ 10,000.00
Task 6: Sediment Transport Analysis - Aubrey Thomas, P.E.	77	\$ 130.00	\$ 10,000.00	\$ -	\$ 10,000.00
Task 7: Preliminary Analysis of Recharge Potential - Aubrey Thomas, P.E.	62	\$ 130.00	\$ 8,000.00	\$ -	\$ 8,000.00
Task 8: Conceptual Design Alternatives - Aubrey Thomas, P.E.	131	\$ 130.00	\$ 17,000.00	\$ -	\$ 17,000.00
Task 9: Final Design - Aubrey Thomas, P.E.	135	\$ 130.00	\$ 17,500.00	\$ -	\$ 17,500.00
Task 9: Final Design - Ronald Hilgart, P.E.	121	\$ 145.00	\$ 17,500.00		\$ 17,500.00
Task 10: Permitting - Ronald Hilgart, P.E.	173	\$ 145.00	\$ 25,000.00		\$ 25,000.00
Task 11: Construction Documents - Ronald Hilgart, P.E.	276	\$ 145.00	\$ 40,000.00	\$ -	\$ 40,000.00
Subtotal			\$ 190,000.00	\$ -	\$ 190,000.00

3. Other Direct Costs				
Item	Cost	Grant Funds	Match / Cost Share	Total
Not Applicable	\$ -	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ -	\$ -
Subtotal	\$ -	\$ -	\$ -	\$ -

4. Capital Outlay & Equipment Costs					
Item	Method of Computation	Grant Funds	Match / Cost Share (if any)	Third Party Share (if any)	Total
Not Applicable		\$ -	\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -	\$ -
Subtotal		\$ -	\$ -	\$ -	\$ -

5. Administrative Costs					
Name and Type of Consultant	No. of Hours	Hourly Rate of Compensation	Grant Funds	Match / Cost Share (if any)	Total
Task 1: Permitting Evaluation - HNRCD Clerk - Reporting	35	\$ 15.00	\$ 500.00	\$ -	\$ 500.00
Task 2: Hydrologic Analysis of Watershed - Rachel Thomas - HNRCD Vice Chair - Field Assistance	35	\$ 15.00	\$ 500.00	\$ -	\$ 500.00
Task 3: Aerial Mapping of Watercourse - HNRCD Clerk - Reporting	50	\$ 15.00	\$ 750.00	\$ -	\$ 750.00
Task 4: Hydraulic Analysis- Rachel Thomas - HNRCD Vice Chair - Field Assistance	35	\$ 15.00	\$ 500.00	\$ -	\$ 500.00
Task 5: Geotechnical Investigation - Rachel Thomas HNRCD Vice Chair - Field Assistance	35	\$ 15.00	\$ 500.00	\$ -	\$ 500.00
Task 6: Sediment Transport Analysis - HNRCD Clerk - Reporting	35	\$ 15.00	\$ 500.00	\$ -	\$ 500.00
Task 7: Preliminary Analysis of Recharge Potential - HNRCD Vice Chair - Field Assistance.	27	\$ 15.00	\$ 400.00	\$ -	\$ 400.00
Task 8: Conceptual Design Alternatives - HRNCD Clerk & Vice Chair - Reporting	57	\$ 15.00	\$ 850.00	\$ -	\$ 850.00
Task 9: Final Design - HRNCD Clerk & Vice Chair - Reporting & Field Assistance	58	\$ 15.00	\$ 875.00	\$ -	\$ 875.00
Task 10: Permitting - HRNCD Clerk & Vice Chair - Reporting & Filing Assistance	83	\$ 15.00	\$ 1,250.00		\$ 1,250.00
Task 11: Construction Documents & Final Report - HRNCD Clerk & Vice Chair	135	\$ 15.00	\$ 2,000.00	\$ -	\$ 2,000.00
Subtotal			\$ 8,625.00	\$ -	\$ 8,625.00

Matching Funds

3. Other Direct Costs				
Item	Cost	Grant Funds	Match / Cost Share	Total
Office Supplies - Paper & Ink	\$ -	\$ -	\$ 500.00	\$ 500.00
Copying	\$ -	\$ -	\$ 500.00	\$ 500.00
Computer Use	\$ -	\$ -	\$ 500.00	\$ 500.00
Website promotion of project	\$ -	\$ -	\$ 1,000.00	\$ 1,000.00
Video of project	\$ -	\$ -	\$ 5,000.00	\$ 5,000.00
	\$ -	\$ -	\$ -	\$ -
Subtotal	\$ -	\$ -	\$ 7,500.00	\$ 7,500.00

5. Administrative Costs					
Name and Type of Consultant	No. of Hours	Hourly Rate of Compensation	Grant Funds	Match / Cost Share (if any)	Total
Task 1: Permitting Evaluation -Ladd & Ladd Ranch Owners	20	\$ 15.00	\$ -	\$ 300.00	\$ 300.00
Task 2: Hydrologic Analysis of Watershed - Ladd & Ladd Ranch Owners	50	\$ 15.00	\$ -	\$ 750.00	\$ 750.00
Task 3: Aerial Mapping of Watercourse - Ladd & Ladd Ranch Owners	25	\$ 15.00	\$ -	\$ 375.00	\$ 375.00
Task 4: Hydraulic Analysis- Ladd & Ladd Ranch Owners	50	\$ 15.00	\$ -	\$ 750.00	\$ 750.00
Task 5: Geotechnical Investigation - Ladd & Ladd Ranch Owners	20	\$ 15.00	\$ -	\$ 300.00	\$ 300.00
Task 6: Sediment Transport Analysis - Ladd & Ladd Ranch Owners	20	\$ 15.00	\$ -	\$ 300.00	\$ 300.00
Task 7: Preliminary Analysis of Recharge Potential -Ladd & Ladd Ranch Owners	15	\$ 15.00	\$ -	\$ 225.00	\$ 225.00
Task 8: Conceptual Design Alternatives - Ladd & Ladd Ranch Owners	30	\$ 15.00	\$ -	\$ 450.00	\$ 450.00
Task 9: Final Design - Ladd & Ladd Ranch Owners	30	\$ 15.00	\$ -	\$ 450.00	\$ 450.00
Task 10: Permitting - Ladd & Ladd Ranch Owners	50	\$ 15.00	\$ -	\$ 750.00	\$ 750.00
Task 11: Construction Documents & Final Report - Ladd & Ladd Ranch Owners	80	\$ 15.00	\$ -	\$ 1,200.00	\$ 1,200.00
Subtotal			\$ -	\$ 5,850.00	\$ 5,850.00

Appendix: Supplemental Information

Please see the following pages for:

- State Historic Preservation Office (SHPO) Review Form
- Key Personnel
- Project Site Photographs
- Sampling Plans
- Community Support
- Evidence of Control and Tenure of Land

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: AZ Water Protection Fund
2. Project Title: Horseshoe Draw Flood Control, Restoration, and Erosion Mitigation Study and Design
3. Applicant Name and Address: Hereford Natural Resource Conservation District
4. Current Land Owner/Manager(s): Jack & John Ladd
5. Project Location, including Township, Range, Section: Stark & Hereford USGS, T 24S, R 22E, Sections 10, 11, & 14, South of Sierra Vista
6. Total Project Area in Acres (or total miles if trail): To be determined by study.
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: Phase One requires an engineering company to perform a feasibility study to determine what is the best method to prevent further soil erosion, control flooding and runoff, and prevent soil loss on the watershed. A preliminary look at the Project

determined a berm structure would be most suitable, however, the study is required to determine the proper structure or structures needed, and which would be most suitable, as well as the most effective locations for the construction of the berm(s). Phase Two includes a final project design based on findings from Phase One.

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: Natural undisturbed condition.

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 UNKOWN

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.

_____/_____
 Applicant Signature /Date Applicant Printed Name

FOR SHPO USE ONLY	
SHPO Finding: <input type="checkbox"/> Funding this project will not affect historic properties. <input type="checkbox"/> Survey necessary – further GRANTS/SHPO consultation required (<i>grant funds will not be released until consultation has been completed</i>) <input type="checkbox"/> Cultural resources present – further GRANTS/SHPO consultation required (<i>grant funds will not be released until consultation has been completed</i>)	
SHPO Comments	
For State Historic Preservation Office:	Date:

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: N/A
- B. PERSONS – List and describe persons with an important association with the building: N/A
- C. ARCHITECTURE – Style: N/A no style

Stories: _____ Basement Roof Form: _____

Describe other character-defining features of its massing, size and scale: N/A

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: N/A

MATERIALS

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

Walls (structure): N/A

Walls (sheathing): N/A

Windows: N/A

Roof: N/A

Foundation: N/A

SETTING

Describe the natural and/or built environment around the property: N/A

How has the environment changed since the property was constructed? N/A

WORKMANSHIP

Describe the distinctive elements, if any, of craftsmanship or method of construction: N/A

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

Individually Listed; Contributor; Non-contributor to N/A 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: _____

Education

BS, Civil Engineering, North Dakota State University, 1980

Professional Registrations

Professional Engineer, AZ #16980

Professional Affiliations

American Society of Civil Engineers
Arizona State University Friends of Civil Engineering, Steering Committee
Urban Land Institute
City of Peoria Economic Development Group, Past Chairman, Board of Directors
City of Peoria Planning and Zoning Commission, Past Chairman
Maricopa County Sports Commission, Past Board of Directors
Peoria City Council, Past Member

Areas of Expertise

Extensive expertise in the entitlement, design, and construction of residential and masterplanned communities.
Design of water, wastewater, and transportation infrastructure
Leadership of survey, construction services and engineering service groups.

hilgartwilson
ENGINEERS • PLANNERS • SURVEYORS

Ron Hilgart is a founder and Principal of HilgartWilson. As such, he shares responsibilities with co-founder Darrell Wilson for the operations and overall growth and success of the firm. As Project Principal, he also remains actively involved in many projects, including overseeing design concepts, quality control measures, scheduling and staffing needs of the projects as well as assuring overall client satisfaction.

Prior to starting HilgartWilson, he was a Managing Principal at CMX, where he was instrumental in growing the firm from a staff of 15 when he joined the firm in 1993, to a staff of 300 in 2006 when the company was sold to an out-of-state firm. Hilgart stayed on at the firm as a Managing Principal and Board Member until 2009 when he founded HilgartWilson. He has been responsible for the planning and design of numerous land development and public works projects. His expertise includes not only the engineering design, but also the planning, entitlement, and construction of those projects. He has also been instrumental in helping clients in the negotiations and ultimately execution of development and joint development agreements.

He has a Bachelor of Science degree in Civil Engineering from North Dakota State University where he was also an All-American wrestler. He is a past recipient of the American Society of Civil Engineers Outstanding Young Engineer award for the 10-state western region of ASCE.

He has been active in the community, including holding numerous positions on Boards and Commissions. These include past positions as Chairman of the Peoria Planning and Zoning Commission, Chairman of the City of Peoria Economic Development Group, Peoria City Councilmember, President of ASCE-YMF, Board Member of the Maricopa County Sports Commission, and Steering Committee Member of the ASU Friends of Civil Engineering. He is also a member of ASCE, APWA, and Valley Partnership.

Education

BS, Civil Engineering, Arizona State University, 2004

Professional Registrations

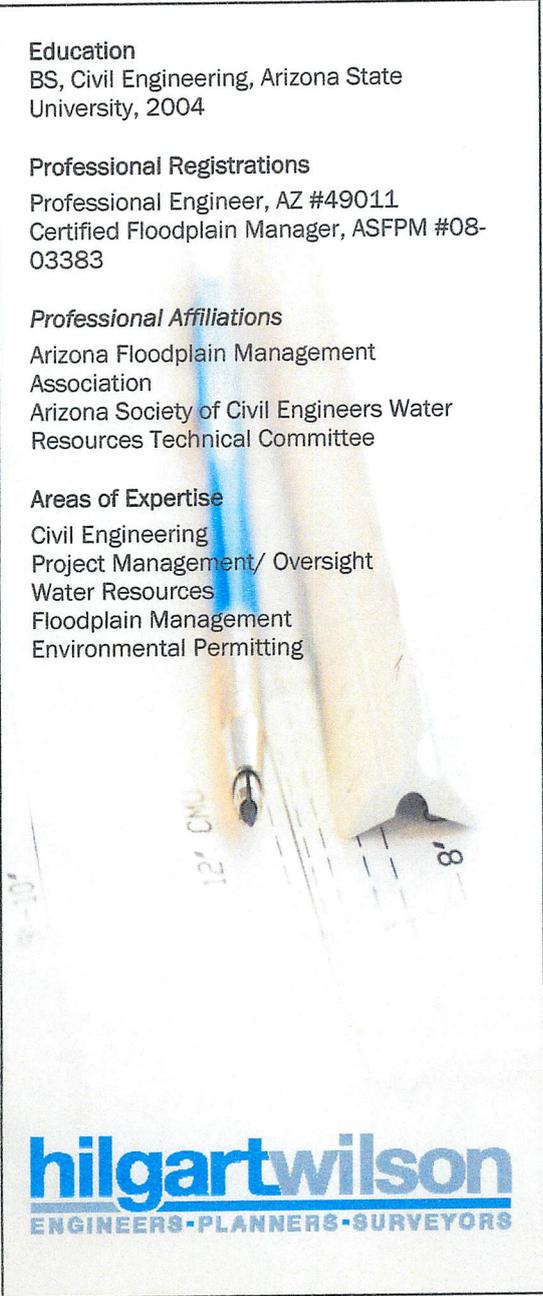
Professional Engineer, AZ #49011
Certified Floodplain Manager, ASFPM #08-03383

Professional Affiliations

Arizona Floodplain Management Association
Arizona Society of Civil Engineers Water Resources Technical Committee

Areas of Expertise

Civil Engineering
Project Management/ Oversight
Water Resources
Floodplain Management
Environmental Permitting



hilgartwilson
ENGINEERS • PLANNERS • SURVEYORS

Aubrey Thomas is the Manager of Stormwater Resources at HilgartWilson. His primary responsibilities include overseeing and designing Water Resource related projects. His focus for the firm, and area of particular expertise, is in drainage analyses involving hydrologic, hydraulic and sediment transport modeling, as well as riverine and alluvial floodplain management. He is responsible for drainage evaluation at the due diligence, master planning, and final design levels. Mr. Thomas also prepares environmental and floodplain use permits and federal flood insurance studies. He has coordinated extensively with government agencies on the municipal, county and federal level for water resource related projects.

Prior to joining HilgartWilson September 2009, Thomas worked within the Water Resources Department at CMX for over 5 years. Initially hired as an intern, Thomas advanced to the Design Engineer, and eventually Project Engineer. At CMX he was responsible for the design of numerous water, wastewater and drainage facilities for a variety of public and private clients.

Prior to CMX, Thomas worked both in the field and in the estimating department for a national civil construction company. He has a Bachelor of Science degree in Civil Engineering from Arizona State University where he also attended the Barret Honors College.

He has been responsible for the drainage design of numerous commercial projects ranging in size from small single pad developments to large scale power centers.

He is a member of Association of State Floodplain Managers, the Arizona Floodplain Management Association and the Arizona Society of Civil Engineers Water Resources Technical Committee.

Mr. Thomas has over nine years of experience in civil engineering design, water resources, construction management and estimating. During his career he has been responsible for the design of numerous water, wastewater and drainage projects. His efforts have been directed primarily toward drainage analyses involving hydrologic, hydraulic and sediment transport modeling. Mr. Thomas has prepared hydrologic and hydraulic design for due diligence, master planning, and final design purposes, as well as floodplain permitting and insurance studies. He has coordinated extensively with government agencies on the municipal, county and federal level for water resource related projects.

Project Experience

Education

BS, Civil Engineering, Arizona State University, 2004

Professional Registrations

Professional Engineer, AZ #49011
Certified Floodplain Manager, ASFP #08-03383

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Civil Engineering
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Environmental Permitting

hilgartwilson
ENGINEERS-PLANNERS-SURVEYORS

Spook Hill Flood Retarding Structure (FCDMC vs. MCDOT); Mesa, AZ
Represented and acted as an expert witness for the Flood Control District of Maricopa County in a \$10M+ civil suit awarded to them from the Maricopa Department of Transportation. Included performing extensive drainage analyses (hydrologic modeling, sediment transport calculations, unsteady hydraulic modeling, dam safety evaluation, etc.) to support the claim. Involved significant coordination with a number of state agencies and legal counsel. Provided expert testimony on the FCDMC's behalf.

Canta Mia at Estrella Mountain Ranch; Goodyear, AZ
Responsible for the master and final drainage design of numerous hydraulic structures (storm drain, culverts, channels, etc.) and miscellaneous other drainage design tasks for Phase 1 of the lakefront residential development. Onsite stormwater detention facilities were combined with recreational lakes to provide an efficient means of post development discharge attenuation, maintenance of stormwater quality and maximization of developable land. Also prepared a LOMR to remove over 20 residential lots from a FEMA designated flood hazard zone.

Sun Streams Solar Energy Farm; Maricopa County, AZ
Project Manager for this 2,200 acre solar energy facility located in southwestern Maricopa County. Responsible for the site planning, land acquisition evaluation, jurisdictional 404 permitting, grading and drainage design, and overall coordination for the project.

Legends Land Planning Services and General Plan Amendments; Casa Grande, AZ
Assisted with hydrologic and hydraulic evaluation and drainage master planning services for approximately 7,000 acres located

in the City of Casa Grande. Included an evaluation of the complex drainage conditions at the project site located at the intersection of two major washes. Drainage services included onsite and offsite drainage master planning. Culminated in a design for the Santa Cruz and the North Branch of the Santa Cruz watercourses to maximize the developable limits of the property while creating a safe channel corridor with amenities for community uses and habitat restoration. A Conditional Letter of Map Revision was prepared to reflect plans to remove this frontage from the effective flood hazard zone.

White Tank Mountain Alluvial Fans 38 and 39 Studies; Buckeye, AZ

Performed hydrologic, hydraulic, and geomorphic analysis of several square miles of alluvial fan 39 (100-yr discharge = 3,000+ cfs) on the west slope of White Tank Mountains. Required extensive coordination with a consortium of local landholders, the Town of Buckeye, and County and Federal floodplain administrators. Culminated in preparation of a Technical Data Notebook for submittal to Flood Control District of Maricopa County (FCDMC) and FEMA. Performed detailed hydraulic design of regional detention and debris basin aimed at mitigating flood hazards associated with alluvial fan 38 (100-yr discharge = 2,500+ cfs). Included design of two in-line check structures, a 300+ foot long lateral weir, and a 150 acre-foot offline detention basin.

The Bridges East; Gilbert, AZ

Responsible for the master and final drainage design of this 200-acre community. Included processing a jurisdictional delineation and nationwide 404 permit for a major wash passing through the site. Also included design and permitting (Town and FCDMC) of a system of first flush basins and overflow structures (allowing great developability of the site) that took advantage of the project's location near the terminus of the major wash. This involved performing a detailed hydrologic, hydraulic and water quality evaluations of the project to confirm no adverse impacts to the watercourse would occur as a result of the reduced retention requirement.

Project Site Photographs

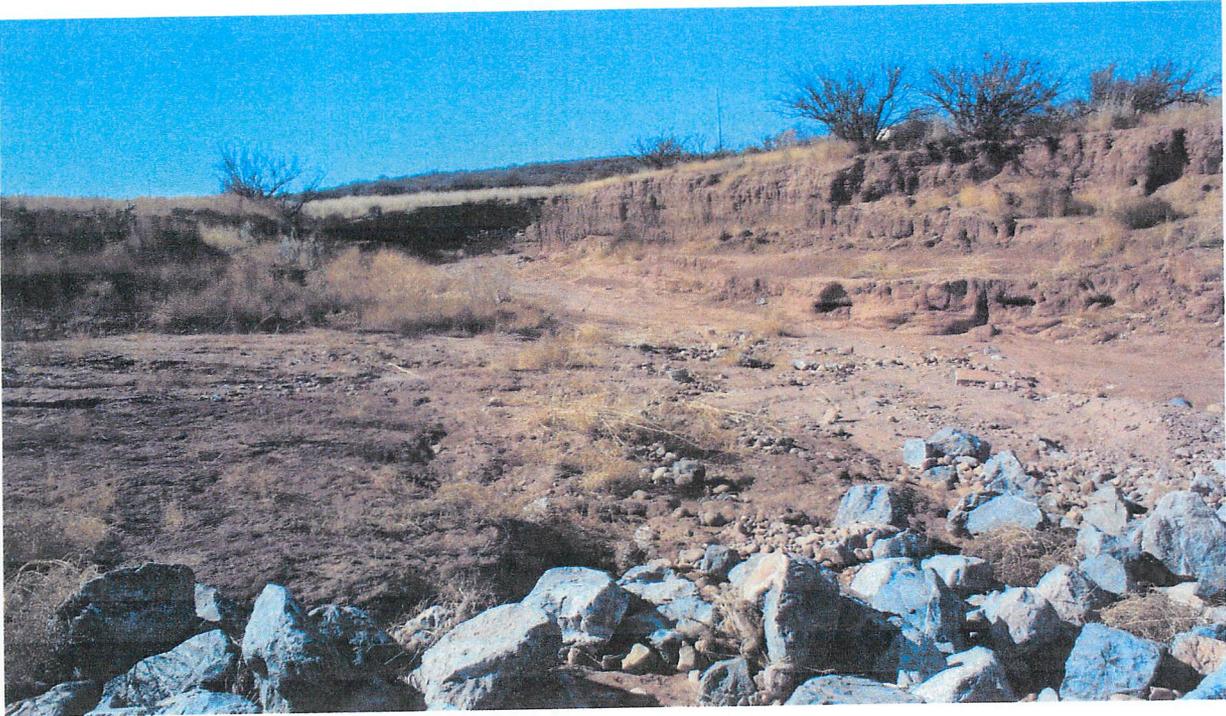
**Horseshoe Draw before the July 2013 Flood
Looking East from Paloma Trail**



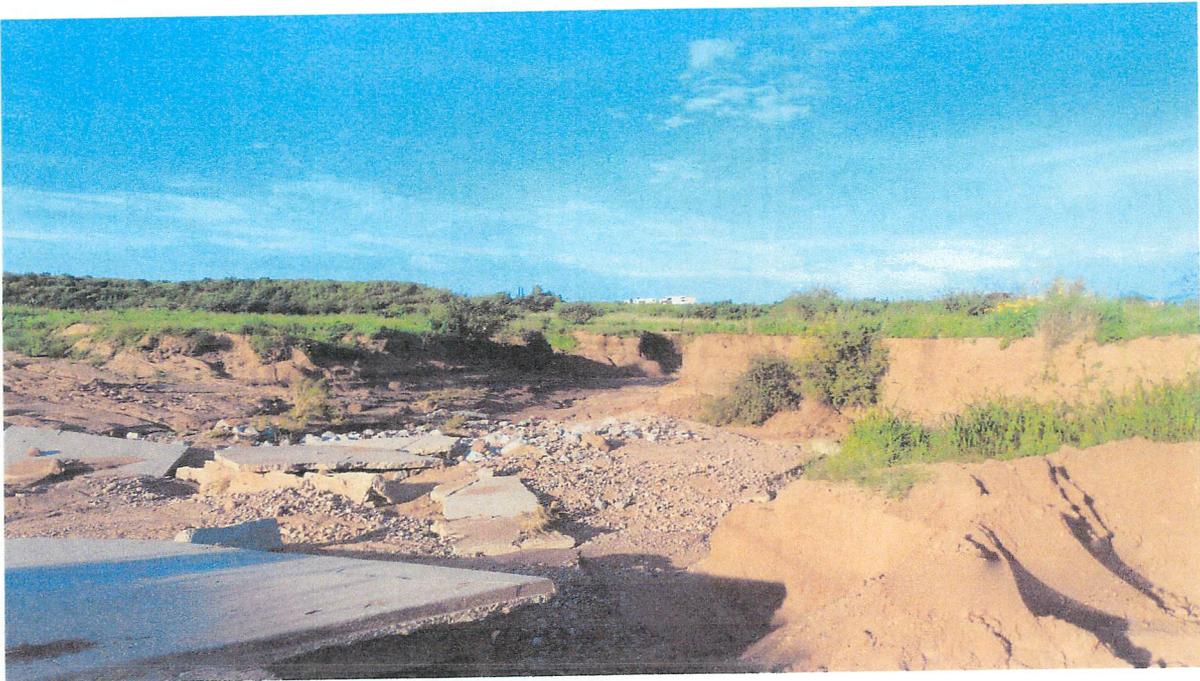
**Horseshoe Draw after July 2013 Flood
Looking East from Paloma Trail**



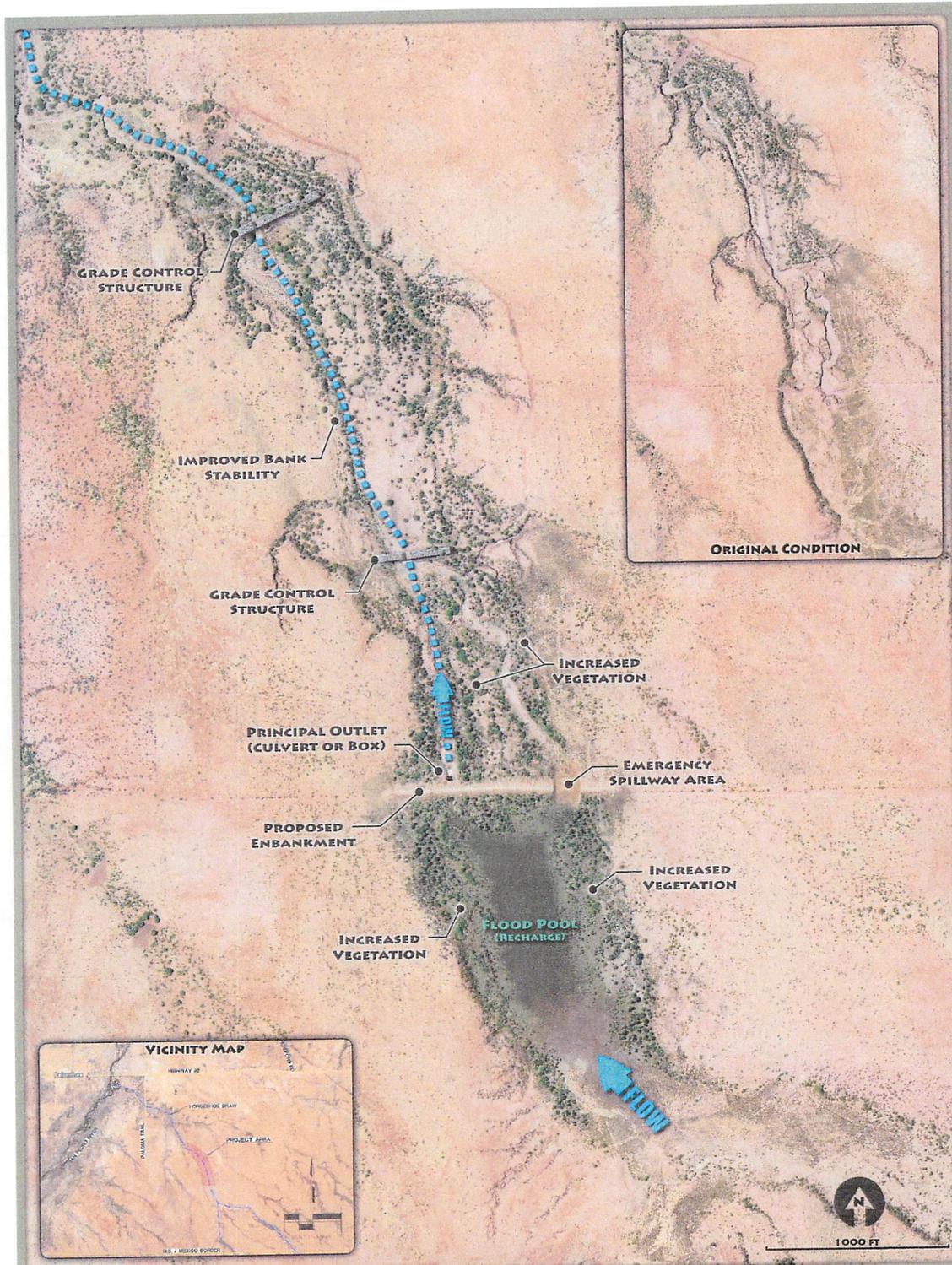
Head Cutting Below Road (Paloma Trail) Before 2013 Flood



Head Cutting Below Road (Paloma Trail) After 2013 Flood



Sampling Plans



HORSESHOE DRAW

FLOOD CONTROL, STREAM RESTORATION, RECHARGE



September 2011

**GAIL GRIFFIN
STATE SENATOR, DISTRICT 14**

CAPITOL COMPLEX, SENATE BUILDING
1700 WEST WASHINGTON
PHOENIX, ARIZONA 85007-2890
(602) 928-5895
TOLL FREE: 1-800-352-8404
FAX: (602) 417-3150

E-MAIL: ggriffin@azleg.gov

COMMITTEES:

WATER, LAND USE & RURAL DEVELOPMENT,
CHAIR

COMMERCE & ENERGY, VICE-CHAIR

BORDER SECURITY, FEDERALISM & STATES'
SOVEREIGNTY

NATURAL RESOURCES & TRANSPORTATION

VETERANS & MILITARY AFFAIRS

August 26, 2013

Dear sir or madam:

As a state senator and longtime supporter of the ranching industry, it is my honor to lend my enthusiastic support to the Hereford Natural Resource Conservation District's (HNRCD) application for a grant from the Water Protection Fund to study the feasibility of a flood control structure on the Horseshoe Draw near Naco, Arizona.

As currently planned, the project would involve the construction of a substantial berm along the full length of the draw, along with a culvert to allow for significantly reduced flows of water.

If constructed, the project has the potential to resolve a number of longstanding flow-related issues that have caused problems for the neighboring residents and communities for nearly sixty years, including erosion, deposit of sediment into the San Pedro River, and head-cutting in the draw. In addition to resolving these issues, the project would bring with it a number of significant benefits to the local watershed, including:

- Increasing the rate of recharge into the aquifer
- Promotion of a far greater surface flow into the San Pedro River
- Making possible the placement of other structures to heal past erosion
- Promotion of vegetation growth that could reduce sediment transfer

Finally, the project could solve the problem of the frequently-washed out crossing on Paloma Trail, which isolates families living south of the crossing during flood season, as happened this year with monsoon rains. This would not only help those isolated families, but also provide a permanently accessible route close to the border for local law enforcement, including Border Patrol and Cochise County Sheriffs deputies.

Perhaps most importantly from a hydrologic and geographic perspective, the project would allow the land to restore itself, allowing native grasses to grow and making it possible for the land to look as it did decades earlier.

All of these measures are not only in harmony, but perfectly aligned with the goals and priorities of the Water Protection Fund, which is charged with "developing and implementing measures that maintain, enhance, and restore rivers, streams, and riparian habitat." Importantly, this project has the full support of countless local stakeholders, including local land owners and ranchers, and the leaders of the Hereford NRCD.

With so many benefits and so much support, it's clear that this project should not only receive the Water Protection Fund Commission's consideration, it should receive the Commission's support.

It's my hope and confidence that this will be the case, and I look forward to a favorable decision from the Commission's.

Sincerely,

A handwritten signature in black ink, appearing to read "Gail Griffin". The signature is fluid and cursive, with a large initial "G" and "G".

Gail Griffin
State Senator, District 14
Arizona State Senate

Board of Supervisors

Ann English
Chairman
District 2

Richard R. Searle
Vice-Chairman
District 3

Patrick G. Call
Supervisor
District 1



Michael J. Ortega
County Administrator

James E. Vlahovich
Deputy County Administrator
Interim Clerk

August 22, 2013

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

Reference: The Hereford Natural Resource Conservation District (HNRCD)
Water Protection Fund Grant Application for the "Horseshoe Draw Watershed Project"

Dear Mr. Chairman & Members of the Commission:

I support the proposed Hereford NRCDC Horseshoe Draw Watershed Project. HNRCD proposes to construct dams or berms in the draw to detain storm-water runoff from approximately nine-thousand acres.

Previous structures built over the past sixty years have been unable to contain the heavy flooding and have eroded away. I believe the HNRCD proposal to detain the heavy flood behind a very substantial berm extending the full width of the draw while at the same time allowing a greatly decreased flow through a culvert encased in the berm at its bottom is the solution to the problem.

This project has the potential to achieve many benefits:

1. It would stop the severe ongoing head-cutting in the draw.
2. It would allow for the placement of other structures to heal past erosion.
3. It would promote vegetation where it is now impossible for vegetation to grow.
4. It would greatly reduce sediment transfer into the San Pedro River.
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6. It would solve the problem of the washed out crossing on Paloma Trail. The families living south of the crossing are often isolated during flood season. Currently a temporary crossing is available, but only until the next flood.
7. It would create an elevated measure of safety & security to families south of the Paloma Trail crossing by providing an assured access for Border Patrol Agents, Sheriff's Deputies, and Fire Fighters.

Cochise County • 1415 Melody Lane, Building G • Bisbee, Arizona 85603
(520) 432-9200 • FAX (520) 432-5016 • email: board@cochise.az.gov
www.cochise.az.gov

Please give this important project your utmost consideration and approve a grant for its implementation.

Sincerely,

A handwritten signature in black ink, appearing to read "Patrick Call". The signature is stylized with a large initial "P" and a long, sweeping underline.

Patrick Call, Supervisor
Cochise County Board of Supervisors

United States Department of Agriculture



Natural Resources Conservation Service
Douglas Field Office
6940 N. Air Terminal Blvd.
Douglas, Arizona 85607
(520) 364-2001

August 22, 2013

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

RE: Horseshoe Draw Watershed Project Application

Dear Mr. Chairman & Members of the Commission,

I am submitting this letter of support for the Hereford Natural Resource Conservation District (NRCD) with their Horseshoe Draw Watershed Project. The USDA – Natural Resources Conservation Service is an agency committed to conservation of natural resources. The Hereford NRCD has supported many conservation efforts that have significantly contributed to the protection, restoration and enhancement of natural resources within their conservation district.

I offer my support to the Hereford NRCD's desire to construct floodwater retention structures with the proposed Horseshoe Draw Watershed Project area. Floodwater control structures will assist in reducing erosion, improve grade stabilization, vegetative cover and will reduce flooding.

Your attention to this matter will be greatly appreciated.

Respectfully submitted,

GERRY R. GONZALEZ
District Conservationist
Douglas Field Office
Douglas, Arizona

August 18, 2013

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

Reference: The Hereford Natural Resource Conservation District (HNRCD) Water Protection Fund Grant application for the "Horseshoe Draw Watershed Project"

Dear Mr. Chairman & Members of the Commission,

I support the proposed Hereford NRCD Horseshoe Draw Watershed Project. HNRCD proposes to construct dams or berms in the draw to detain storm-water runoff from approximately nine-thousand acres.

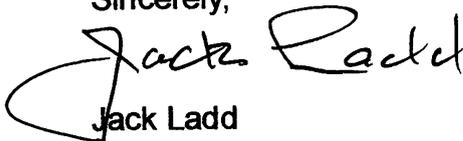
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This project has the potential to achieve many benefits.

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Please give this important project your utmost consideration and approve a grant for it's implementation.

Sincerely,


Jack Ladd

August 18, 2013

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

Reference: The Hereford Natural Resource Conservation District (HNRCD) Water Protection Fund Grant application for the "Horseshoe Draw Watershed Project"

Dear Mr. Chairman & Members of the Commission,

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Please give this important project your utmost consideration and approve a grant for it's implementation.

Sincerely,

Roger BARNETT

~~XXXXXXXXXX~~



August 18, 2013

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

Reference: The Hereford Natural Resource Conservation District (HNRCD) Water Protection Fund Grant application for the "Horseshoe Draw Watershed Project"

Dear Mr. Chairman & Members of the Commission,

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Please give this important project your utmost consideration and approve a grant for it's implementation.

Sincerely,



~~Jack Ladd~~ LUCINDA EARVEN
HEREFORD NRCB SUPERVISOR

August 18, 2013

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

Reference: The Hereford Natural Resource Conservation District (HNRCD) Water Protection Fund Grant application for the "Horseshoe Draw Watershed Project"

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Sincerely,

~~Jack Ladd~~

THOMAS J. RICHTER
SUPERVISOR, Hereford NRCD

August 25, 2013

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

Reference: The Hereford Natural Resource Conservation District (HNRCD)
Water Protection Fund Grant application for the "Horseshoe Draw Watershed
Project"

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August 25, 2013

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3550 North Central Avenue
Phoenix, AZ 85012

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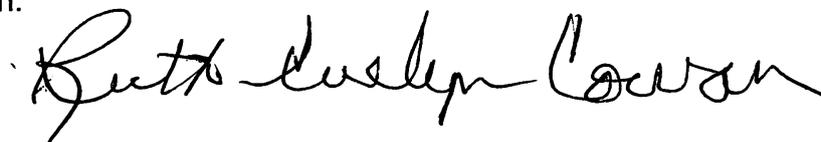
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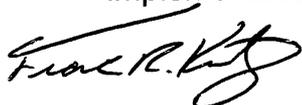
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Please give this important project your utmost consideration and approve a grant for it's
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August 25, 2013

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

Reference: The Hereford Natural Resource Conservation District (HNRCD)
Water Protection Fund Grant application for the "Horseshoe Draw Watershed
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MIKE HAYHURST

August 25, 2013

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

Reference: The Hereford Natural Resource Conservation District (HNRCD)
Water Protection Fund Grant application for the "Horseshoe Draw Watershed
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A handwritten signature in black ink that reads "Fred Davis". The signature is written in a cursive, flowing style with a large, prominent "F" and "D".

August 25, 2013

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

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A handwritten signature in black ink, appearing to be "John R. Smith", written in a cursive style.

August 25, 2013

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

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Sincerely,
Harriett J. Dedrick

August 25, 2013

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

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Beverly M Miller

August 25, 2013

Water Protection Fund Commission
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Phoenix, AZ 85012

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S. P. Luster

August 25, 2013

Water Protection Fund Commission
3550 North Central Avenue
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August 21, 2013

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

Reference: The Hereford Natural Resource Conservation District (HNRCD)
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Rachel Thomas
Huachuca City, AZ

August 23, 2013

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

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Water Protection Fund Grant application for the "Horseshoe Draw Watershed
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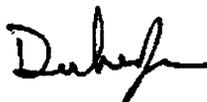
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Signed: Rene J. Dube Jr



August 23, 2013

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

Reference: The Hereford Natural Resource Conservation District (HNRCD)
Water Protection Fund Grant application for the "Horseshoe Draw Watershed
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Arthur M "Casey" Jones
1920 Lexington Drive
Sierra Vista, AZ 85635
luego@mac.com

August 25, 2013

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Phoenix, AZ 85012

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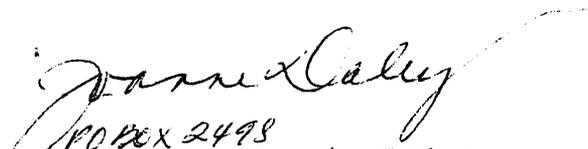
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PO BOX 2498
SIERRA VISTA, AZ 85763
402-769-0312

This is to certify that the San Jose Ranch Inc. is the owner of the property in Horseshoe Draw where we are interested in building a flood control structure. I am President and sole shareholder of the San Jose Ranch Inc. The structure would be located within Sections 11 & 14 of T24S, R22E. I unequivocally support the project.

John L. Scott
AUG 21, 2013