



Water Quality Improvement Grant Program  
Grant Application Form

Water Quality Improvement Grant

Watershed Preservation Grant

**Project Summary**

Project Title: Knights Ranch Sediment Basins Rehabilitation

Project Description:  
Provide an abstract that briefly describes the project  
Limit: 500 characters

The goal of this project is to rehabilitate four water and sediment control basins that have far exceeded their service life. These basins are in need of spillways to properly pass flood flows. The tributaries of interest here drain directly into Coyote Creek, which is a known contributor of excessive sediment to the impaired Little Colorado River.

**Authorizing Agency**

Name: Daric Knight - Knight Environmental

Address: P.O. Box 212

City: Springerville State: AZ Zip Code: 85938

**Authorizing Agency Contact**

Last Name: Knights First Name: Daric

Title: Manager Phone Number: 928-521-9897 Fax Number: \_\_\_\_\_

E-mail: dknights100@hotmail.com

**Project Manager**

Last Name: Knights First Name: Daric

Title: Knights Environmental Phone Number: 928-521-9897 Fax Number: \_\_\_\_\_

E-mail: dknights100@hotmail.com

Project Period  1 year  2 years

**Project Costs**

Total Project Cost: \$314,926

Funds Requested (maximum 60% of total project cost) \$188,911

Matching Funds (minimum 40% of total project cost) \$126,015

# Application Details

## I. Location and Land Ownership

a. City/Town: Springerville County: Apache

b. Land Ownership: State Trust

c. Provide Latitude and Longitude in decimal degrees for the main location of the project

Latitude: 34.25608 Longitude: -109.22045

How do I find the latitude and longitude of my area? [Click here](#)

d. Provide a map of the project area. For assistance in developing a map, contact the ADEQ Grant Coordinator

## II. Pollutant(s) of Concern

a. Is this water body identified as impaired based on ADEQ's 2010 Status of Ambient Surface Water Quality in Arizona Arizona's Integrated 305(b) Assessment and 303(d) Listing Report? Both reports can be found at <http://www.azdeq.gov/programs/water-quality-programs/surface-water-monitoring-and-assessments>  
Contact ADEQ for assistance if necessary

b. Select the pollutant(s) of concern that this project will address.

Primary Pollutant: Sedimentation -Siltation

Secondary Pollutant, if any: Pathogens (E Coli)

Other: \_\_\_\_\_

c. Clearly define the causes and sources of pollutants impacting the project area. Limit: 2500 characters

Four sediment basins, which have headcuts advancing through them have historically been a storage of sediment from a tributary drainage of Coyote Creek. If no work is done to stabilize the basins, sediment currently stored in the basins will be mobilized and carried downstream. In addition to the stored sediment, there is also sediment passing through the basins from upstream within the drainage network, which could be stored in the basins, if they could have their capacity and function restored.

### III. Scope of Work

- a. Briefly describe the management measures or best management practices to be implemented to improve water quality. Limit: 5000 characters

The management practices will include sediment basin clean out, construction of stabilized spillways and revegetation. The sediment basins will be cleaned out and reshaped to a more stable geometry. The spillways will be hardened with rock-lined chutes (to stabilize the outflow channel). All disturbed areas will be seeded post construction and covered with single net fabric. The rock lining will be sized to the 25 year flood event and geotextile fabric will be placed under the rock to stabilize fine sediments.

- b. Identify the permits, if any, to be obtained in order to complete this project. Consider the need for Army Corps of Engineers 404 Permits and 401 Certifications for in-stream activities, Construction General Permit coverage for projects impacting an area greater than one acre, NEPA permits from the USFS, and Applications for Land Improvements from the AZ State Land Department etc. All projects are subject to State Historical Preservation Office clearance. Limit: 1000 characters

Possible USACE 401, 404 permits  
Construction General Permit  
Applications for Land Improvements from AZ State Land Department  
SHPO clearance

- c. Life expectancy of BMPs: Identify and justify the life expectancy of any proposed BMPs. Limit: 1000 characters

BMPs will be designed to last 25 years. Spillways will be designed to the 25 year storm event and will require occasional maintenance to reach their service life.

- d. Long-term Maintenance: Identify the maintenance required for your project. Identify groups or individuals responsible for the long-term maintenance of projects. Provide letters of support, if possible. Limit: 1000 characters

Occasional maintenance will primarily include basin clean out when the sediment has accumulated within the basin. The spillway and basins will be checked to ensure no damage has been done after spring runoff, the end of monsoon season (approx. September 15th) and any large event that could have utilized the spillway. Maintenance activities could include removing excess sediment build up from the basins and filling any major rilling if it were to occur on the basin face.

We will coordinate with ADEQ's Arizona Water Watch for quality sampling by volunteers.

**IV. Education and Outreach**

- a. Describe the education and outreach components that will enhance public understanding of the project and encourage implementing future management measures. Limit: 1000 characters

Project education will occur via a presentation at the local NRCD meeting and or site visit. The presentation will include why it was undertaken, design goals, construction methods and how it was funded.

**V. Key Personnel & Partnerships**

- a. Describe the roles and responsibilities of positions for this project. Include the overall salary and rate for each position. Limit: 1000 characters

Daric Knight - Grant Administrator, Landowner  
Natural Channel Design (Technical Services Provider) will provide technical drawings and specification for the construction of the project and the obtaining of necessary permits. NCD will be on site to provide construction observation services and as-built drawings.

- b. Provide a brief summary of qualifications for individuals filling a position. If individuals have not yet been identified, describe the qualifications that will be used for an individual. Limit: 1000 characters

Daric Knight has acted as Grant Administrator through the Apache County Conservation District for two previous grant cycles. Daric has successfully worked with landowners and ranchers to implement projects of similar scope and scale. Daric has also completed similar work on projects during ADEQ grant cycle 15.

Natural Channel Design is a leader in conservation engineering and has been part of many successful project in the area related to conservation engineering and stream restoration.

**VI. Conflict of Interest**

What steps will be taken to ensure that hiring/personnel selection practices are carried out without the existence or appearance of bias? Provide a statement of policy for hiring if possible. Limit: 1000 characters

This project will conform to Federal and State laws pertaining to hiring and personnel selection.  
This project will be carried out under prohibition of discrimination on the basis of race, color, national origin, sex, age, disability or retaliation.

This project is entered into by landowner, as a voluntary program for conservation.

**VII. Budget Form**

Develop a budget based on the anticipated costs for completing the project within the proposed time schedule. The budget form can be downloaded at [http://static.azdeq.gov/wqigp/wqig\\_budget\\_form.xlsx](http://static.azdeq.gov/wqigp/wqig_budget_form.xlsx). **Be sure to attach your budget form to your final application submission.**

Initials:

**VIII. Work Plan Steps**

Develop a work plan with a series of steps and associated dates that are necessary to complete the plans. Each step must have a milestone that provides a description of what will be accomplished. Work plan must be developed as part of the budget form. The budget form can be downloaded at:

[http://static.azdeq.gov/wqigp/wqig\\_cycle\\_19\\_budget\\_form.xlsx](http://static.azdeq.gov/wqigp/wqig_cycle_19_budget_form.xlsx)

Initials:

**IX. SHPO Form**

Any ADEQ action, including grant projects paid in-part with ADEQ funds, on state, federal, or private lands that may impact historic properties (i.e., any prehistoric or historic-period district, site, building, structure, or object included in, or eligible for inclusion in the State Register of Historic Places) require consultation with the State Historic Preservation Office (SHPO) pursuant to the State Historic Preservation Act (ARS 41-861 to 864).

In order to make informed decisions and facilitate consultation with SHPO, ADEQ requires applicants to provide the project-related information requested in the SHPO form. Please complete the information requested in the SHPO form and submit with your final application. The SHPO form can be downloaded from the ADEQ website at: [http://static.azdeq.gov/wqigp/wqig\\_shpo.pdf](http://static.azdeq.gov/wqigp/wqig_shpo.pdf).

Initials:

**X. Abbreviated Monitoring Plan**

If water quality data are to be collected and interpreted to determine effectiveness, a "Sample Analysis and Quality Assurance Plan" (SAP/QAP) must be developed in accordance with state guidelines. Additional information for developing the abbreviated monitoring plan can be found at [http://static.azdeq.gov/wqigp/wqig\\_abbrev\\_monitoring\\_plan.pdf](http://static.azdeq.gov/wqigp/wqig_abbrev_monitoring_plan.pdf).

Initials:

**XI. Project Insurance Coverage:**

Providing proof of insurance coverage for your project is necessary upon award. Insurance requirement may be found in the grant manual. If you need assistance with contacting an insurance company to obtain required coverage for your project you may contact: <https://insurance.az.gov/contact-us> or (602) 364-3100, for assistance with insurance companies in your area.

Initials: 

**Authority Signature Page**

The undersigned hereby offers and agrees to perform in compliance with all terms, conditions, specifications, and scope in this grant application. Signature certifies understanding and compliance with the application attached hereto. ADEQ may approve the grant application and modifications to scope, methodology, and schedule, final projects, and/or budget.

Authorized Signature:  Date: 9/3/2017

Printed Name: Danic Knight Knight Environmental

**Authority Signature Page must be submitted in hard copy and must be received prior to the Final Application deadline.**



# UPPER LITTLE COLORADO RIVER HEADWATERS ADEQ Water Quality Improvement Project

## Knight Sediment Basins Stabilization

PREPARED FOR: Knight Ranch

FUNDED BY:  
Arizona Department of Environmental Quality (ADEQ)  
Water Quality Division

LANDOWNER:  
Galyn Knight  
(contact: Daric Knight)  
Phone: (928) 521-9897

PROJECT MANAGER:  
Knight Environmental  
Daric Knight  
824 E. Main St.  
Springerville, AZ 85925  
Phone: (928) 521-9897

TECHNICAL CONSULTANT:  
Natural Channel Design, Inc.  
2900 N. West St Suite #5  
Flagstaff, AZ 86004  
Phone: (928) 774-2336

PROJECT PARTNER:  
Arizona Department of  
Environmental Quality  
1110 W. Washington St.  
Phoenix, AZ 85007  
Phone: (602) 771-4635



LOCATION MAP

ARIZONA, GILA & SALT RIVER MERIDIAN  
T10N, R29E, SEC. 24 NE 1/4  
APACHE COUNTY, ARIZONA



Knight Tank  
Rehabilitation  
Site



SEALED FOR AS-BUILT



EXPIRES: 03/31/2021

AS-BUILT notations  
integrated to RED  
in the As-Built sheets  
where applicable.

### INDEX OF DRAWINGS

SHEET NO.	TITLE
1	COVER SHEET: Location, Index, and Quantities
2	GENERAL NOTES & CONSTRUCTION SPECIFICATION
3	SURVEY CONTROL, PROJECT LEGEND AND PROJECT OVERVIEW
4	PLAN VIEW: Lower Basin Overview
5	PLAN VIEW: Lower Basin Plan
6	PLAN VIEW: Middle & Upper Basin Overview
7	PLAN VIEW: Middle Basin Plan
8	PLAN VIEW: Upper Basin Plan
9	DETAILS: Lower Basin TRM Spillway
10	DETAILS: Typical TRM Installation Details
11	DETAILS: Bank Sloping & Fabric Installation
12	DETAILS: Middle Basin Rock Chute and Layout C
13	DETAILS: Middle Basin Headcut Repair
14	DETAILS: Middle Basin Rock Chute #2 and Layout C
15	DETAILS: Upper Basin Headcut Repair
16	DETAILS: Upper Basin Headcut Repair #2
17	DETAILS: Breach Repairs
18	DETAILS: Upper Basin Rock Chute and Layout C
19	DETAILS: Fabric Logs and Valley Fill
20	DETAILS: Upper Basin Rock Entry Chute

### WORK/MATERIAL QUANTITIES

Lower Area	
Cut	672.5 cy
Fill	654.0 cy
Single Net	1966.0 sy
TRM	312.5 sy
D50 6" Rock	2.5 cy
Geotextile Fabric	8.0 sy

Middle Area	
Cut	1212.0 cy
Fill	490.0 cy
Single Net	1297.0 sy
TRM	23.0 sy
D50 14" Rock	360.0 cy
Geotextile Fabric	474.0 sy
D50 6" Rock	3.5 cy

Upper Area	
Cut	489.0 cy
Fill	1218.0 cy
Single Net	1501.0 sy
TRM	236.0 sy
D50 14" Rock	225.0 cy
Geotextile Fabric	521.0 sy

All Areas	
Reseed Disturbed Areas	2.0 ac
Earthwork:	
Cut	2374 cy
Fill	2361 cy
Misc. Spreading	13 cy

#### AS-BUILT RECORD DRAWING CERTIFICATION

I hereby state that the as-built information shown within this plan set is correct to the best of my knowledge. The relevant information as presented is based upon field observations by A-E-I personnel and information provided to the engineer by the contractor. Those sheets not marked with as-built information indicate that the work was completed substantially to plan without significant modifications.

MICHAEL D. KEARLY

34587

9/16/2019

REGISTERED PROFESSIONAL ENGINEER

RES #

DATE

Natural  
Channel  
Design, Inc

DRAWN BY: J. Fleishman  
DESIGNED BY: M. Kearly, J. Fleishman  
REVIEWED BY: M. Kearly

REV	DATE	BY	REVISION
	9/16/19	JF	AS-BUILT

2900 N. West Street #5  
Flagstaff, Arizona 86004  
(928) 774-2336

COVER SHEET:  
Location, Index & Quantities

UPPER LCR  
ADEQ Water Quality Improvement Project  
KNIGHT RANCH



EXPIRES: 03/31/2021

UNAUTHORIZED CHANGES & USES  
THE ENGINEER PREPARING THESE PLANS  
WILL NOT BE RESPONSIBLE FOR OR  
LIABLE FOR UNAUTHORIZED CHANGES TO  
OR USES OF THESE PLANS. ALL  
CHANGES MUST BE IN WRITING AND  
MUST BE APPROVED BY THE PREPARER  
OF THESE PLANS.

DATE:

3/7/19

NCD PROJECT NO:

18-295-AZ



DRAWING NO:

SHEET NO:

1

**DESCRIPTION**

This project is to rehabilitate three existing sediment basins within the Knight Ranch. The project plan includes:  
 - Removal from each basin  
 - Installation of headcuts in existing spillways with fill material from basin/spillway excavation  
 - Headcut repair and stabilization  
 - Extension and/or reconstruction of the existing embankments.  
 - Construction of auxiliary spillways and rock or TRM lined chutes.  
 - Removal of excess accumulated sediment on slopes adjacent to the basins  
 - Reestablishment of disturbed areas with native grass seed.

**NOTES**

Topographic survey data was collected by NCD on February 13, 2018 and in June 2018. All field conditions are to be verified in the field prior to construction. If changes to the site occur during the time between the initial survey and construction, the engineer shall be consulted for necessary modifications to the design and plans. No warranty is made as to the existence or nonexistence of any utilities, public or private. The engineer does not warrant or guarantee that no utilities are present. The existence, location, and depth of any utility must be determined by the contractor prior to any excavation. Call Arizona State Stake before you dig to be sure - dial 811. Construction shall begin until all necessary permits, easements, and funding authorizations are obtained. All construction activities will be conducted in a manner consistent with all safety regulations, rules, and permitting required by Arizona State Land Department, Arizona Department of Environmental Quality, and others. All structures shall be constructed to the lines and grades as shown on the drawings or as staked in the field by the ENGINEER or authorized representative, recognizing there is variation in nature. The total disturbed area is approximately 4.5 acres. As the total area exceeds 1.0 acres, the person(s) performing the work will be required to file a Notice of Intent (NOI) for stormwater discharges to the nearest water body prior to initiating construction. The person(s) performing the work shall ensure that all construction activities are performed in accordance with the practices described in the ADED (Arizona Department of Environmental Quality) General Permit No. AZG2013-001 and in a manner that minimizes soil, water and air pollution consistent with Standard Best Management Practices.

Construction activities shall consist of sediment removal from the existing basins, embankment stabilization, miscellaneous headcut repairs/stabilization, spillway construction and spreading of filter fabric on the slopes adjacent to the basins.

Excavation shall be limited to sediment basin and spillway construction, and layback of vertical banks. Excavation shall be in to or out of the basins as shown on the drawings and as staked in the field during the construction phase. Some excavation may also be required to prepare overlying slopes prior to placing new fill and prior to embankment rehabilitation. Disturbance of existing vegetation shall be minimized to the greatest extent possible during excavation.

Fill material shall be placed in the specified embankment and headcut locations as shown on the drawings and as staked in the field by NCD during construction. All finished surfaces shall be smooth, and pleasing in appearance and blend into surrounding terrain.

The project will be to spoil excavation materials on valley slopes or in non-hydraulically critical areas and to rebuild tank berms and spillway bases. In some instances, fill materials may be used to repair minor headcuts.

All fill materials shall be obtained from the required excavations and/or approved borrow areas. Fill materials shall not contain sod, brush, roots, perishable or frozen materials.

The placement of fill materials shall follow these guidelines:

- All embankment shall be sloped or stepped before placement of fill material.  
 - At headcut repair locations, the placing and spreading of fill material shall be started at the toe and the fill brought up and compacted to obtain a density similar to the surrounding undisturbed soil.

- When placed, shall contain sufficient moisture so that a sample taken in the hand and tamped shall remain intact when released.

**Earthfill (continued)**

- For general fill and spoil placement, the placing and spreading of fill material shall be started at the lowest point and the fill brought up in horizontal layers not to exceed: eight (8) inches of loose fill for wheel compaction and four (4) inches of loose fill for dozer compaction. Construction equipment shall be operated over the areas of each layer of fill to ensure that the required compaction is obtained.
- For berm fill and spillway base fill with more stringent compaction needs, placement shall be in horizontal lifts not exceeding six (6) inches of loose fill and compacted with appropriately sized equipment, such as a sheepsfoot roller attachment on an excavator, jumping jack compactor or other as approved by the Engineer or his representative.
- Fill shall not be placed on frozen soil, snow or ice.
- NRCS Specification CS-AZ-23 addresses large scale fill placement and compaction equipment shall apply. Smaller equipment and modified methods, as applicable to the equipment used, may be substituted with the approval of the ENGINEER or his representative.
- NRCS Specification CS-AZ-23 references testing requirements. The ENGINEER or his representative will be present during embankment related fill placement to ensure proper compaction procedures are followed and may call for compaction testing if deemed necessary.
- Notify the ENGINEER a minimum of 3 working days prior to such activities.
- All finished surfaces shall be generally smooth and pleasing in appearance and blend into surrounding terrain.

**RANGELAND SEEDING**

- Disturbed areas will be seeded with native grasses and shrubs. Seeding activities include the following:
  - > Prepare seedbed where needed. This may include scarifying the upper 2 inches of soil where seed application will occur. Overly compacted equipment access routes may require scarification to 6 inches.
  - > Seed can be drilled or broadcast by hand.
  - > Seed shall be incorporated into the soil, but not more than 0.5 to 1.0-inch deep.
  - > Seed shall be applied uniformly.
  - > Seeding shall occur before installation of erosion control blanket.

The seeding rates below are for hand broadcasting. Seed shall be weed free and shall be purchased from a reputable supplier. The grass and shrub seed mix will consist of the following species:

Shrub Seed Mix		Note: Do not use shrub seed on TRM spillways
Fourwing Saltbush ( <i>Atriplex canescens</i> )	0.25 lb/ac PLS	
Grass Seed Mix		
Blue Grama ( <i>Bouteloua gracilis</i> )	2.5 lb/ac PLS	
Western Wheatgrass ( <i>Pascopyrum smithii</i> )	7.0 lb/ac PLS	
Sideoats Grama ( <i>Bouteloua curtipendula</i> )	1.5 lb/ac PLS	
Indian Ricegrass ( <i>Achnatherum hymenoides</i> )	2.0 lb/ac PLS	
	13.0 lb/ac PLS	

**ROCK LINED CHUTES**

The headcut stabilization work shall consist of headcut excavation and bank sloping; furnishing and installing loose rock including placement of filter fabric. See the included plan sheets and associated details.

- > The site shall be excavated and backfilled to the grades shown on drawings. Excavation shall be limited to the headcut remediation area as shown on the drawings or as staked in the field by the ENGINEER. All fill material shall be compacted to the approximate density of surrounding undisturbed areas. Additional spoils shall be spread outside the channel and sloped in such a way as to direct flows toward rock-lined chute.
- > Disturbance of existing native vegetation shall be minimized.
- > Non-woven geotextile shall be placed below/behind the rock. Fabric shall meet the requirements of NRCS MS-AZ-592 Geotextile material specifications for Class III nonwoven geotextiles. The geotextile shall be joined by overlapping a minimum of 18 inches and secured against the underlying foundation material. Securing pins shall be installed as necessary to prevent undue slippage or movement of the geotextile. Recommend 3/16-inch steel bars pointed on one end and fabricated with a head to retain a steel washer, (1.5-inch diameter). Pin length shall be not less than 18 inches. U-shaped pins are acceptable.
- > Rock shall be angular, dense, sound and free from cracks, seams, or other defects conducive to accelerated weathering. The least dimension of an individual rock shall not be less than one-half the greatest dimension. Rock source shall be approved by the ENGINEER or authorized representative and have a bulk specific gravity of not less than 2.5 per ASTM C127. Rock shall be well graded as follows:
- > Rock placement shall begin at the bottom of slope. Rock shall not be dropped more than 3 feet onto geotextile.
- > Sloped banks shall be seeded with native grass, see the specifications, this Sheet for Grass Seed Mix.

DRAWN BY: J. Fleishman			
DESIGNED BY: M. Kearly, J. Fleishman			
REVIEWED BY: M. Kearly			
REV	DATE	BY	REVISION

**GENERAL NOTES & CONSTRUCTION SPECIFICATIONS**

**UPPER LCR  
ADEQ Water Quality Improvement Project  
KNIGHT RANCH**



**UNAUTHORIZED CHANGES & USES**  
 THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.



DATE: 3/7/19  
 NCD PROJECT NO: 18-295-AZ

DRAWING NO: GEN01  
 SHEET NO: 2 OF 20

Street #5  
 P.O. Box 86004  
 Phoenix, AZ 85061-2336



**Water Quality Improvement Grant Program  
Grant Agreement EV18-0001  
(20-008)**

**Project Title: Knight Ranch Sediment Basins Rehabilitation**  
**Expiration Date: October 31, 2019**  
**Dollars Matched: \$126,015.00**  
**Dollars Awarded: \$188,911.00**

**Between  
Arizona Department of Environmental Quality  
and  
Daric Knight – Knight Environmental**

This Grant Agreement is established between the State of Arizona Department of Environmental Quality, located at 1110 West Washington Street, Phoenix, Arizona 85007 ("ADEQ" or "Department") pursuant to Arizona Revised Statutes (A.R.S.) § 41-2701 et. seq. and A.R.S. § 49-104 and ("Grantee"). This Grant Agreement includes the attachments listed below. Incorporated by reference, this Grant Agreement also includes the ADEQ Water Quality Improvement Grant Program Request for Grant Applications (EV18-0001).

Attachment 1: Grant Applications

Attachment 2: Water Quality Improvement Grant Agreement Terms and Conditions

**Special Conditions**

1. Attachment 1 includes the approved project scope of work and budget. Any adjustments shall be pre-approved by ADEQ.
2. Grantee shall provide proof of adequate insurance prior to any grant activities being initiated. Minimum insurance requirements are located in Attachment 2: Water Quality Improvement Grant Agreement Terms and Conditions.
3. Grantee shall work with ADEQ staff to develop a complete an approved monitoring plan prior to on-the-ground activities that reflects grantee and ADEQ responsibilities.
4. Grantee agrees to coordinate with ADEQ for water quality sampling and best management practice effectiveness monitoring.
5. Grantee shall allow access to project area before and after implementation to complete BMP assessment monitoring.
6. Grantee shall provide the required information to ADEQ to obtain SHPO clearance for projects and update Work Plan Steps and Milestones to reflect activities and time needed to obtain SHPO clearance.
7. No on-the-ground work shall be initiated on a project of concern until all identified permit clearances have been secured for the specific project.
8. Grantee shall work with the ADEQ Project Manager to update the Work Plan Steps & Milestones to be approved by the ADEQ Project Manager.
9. All education and outreach presentations and materials shall be approved by ADEQ prior to distribution.
10. Grantee will provide a detailed scope of work to be approved by ADEQ prior to project implementation.
11. Grantee will provide a Letter of Commitment to Maintenance prior to funds be expended.
12. Grantee will provide preliminary engineering design ADEQ prior to project implementation.

In witness whereof the parties hereto agree to carry out the terms of this Grant Agreement.

<b>Arizona Department of Environmental Quality</b>	<b>Daric Knight – Knight Environmental</b>
Trevor Baggio, ADEQ Water Quality Division Director	Daric Knight, Authorizing Agent
 Signature of Authorized Individual	 Signature of Authorized Individual
Date: 9-22-17	Date: 9/27/2017



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY IMPROVEMENT PROJECTS

CONTRACT NO.: EV18-0001 (20-008)

AMENDMENT: #1

REVISED AGREEMENT AUTHORIZED  
AGENT:

PURPOSE OF AMENDMENT:

The purpose of this Amendment is to change the Scope of Work outlined in this contract.

THE CONTRACT IS HEREBY AMENDED, AS FOLLOWS:

The purpose of Amendment #1 is to revise the Contract EV18-0001 (20-008) scope of work. The original scope of work has been expanded to include stabilization of the Knight Ranch road. No extra funds are requested.

EXCEPT AS NOTED HEREIN, ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME

KNIGHT ENVIRONMENTAL

Contractor hereby acknowledges receipt and understanding of above amendment.

*Darin Knight*      1-8-2019  
Signature of Authorized Individual      Date

Darin Knight  
Printed Name and Title

ARIZONA DEPARTMENT OF  
ENVIRONMENTAL QUALITY

The above-referenced Contract Amendment is hereby executed this

17<sup>th</sup> day of January, 2018, at PHX  
Phoenix, Arizona

*Jason Sutter*  
Jason Sutter, Acting Manager  
Watershed Protection Unit



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY IMPROVEMENT PROJECTS

CONTRACT NO.: EV18-0001 (20-008)

AMENDMENT: #2

REVISED AGREEMENT AUTHORIZED  
AGENT:

PURPOSE OF AMENDMENT:

The purpose of this Amendment is to approve reallocate budget line items and total amount between two concurrent contracts, 20-007 and 20-008, with the same grantee signed agreement

THE CONTRACT IS HEREBY AMENDED, AS FOLLOWS:

The purpose of Amendment #2 is to revise the Contract EV18-0001(20-008) budget. The original budget of \$188,911.00 will be decreased by \$22,896.20. This funding amount will be transferred to 20-007. The new award amount is \$166,014.80. The match decreased from \$126,015.00 to \$110,720.80.

EXCEPT AS NOTED HEREIN, ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME

KNIGHT ENVIRONMENTAL

Contractor hereby acknowledges receipt and understanding of above amendment.

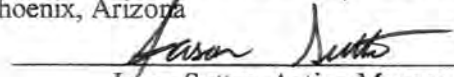
  
Signature of Authorized Individual      1/14/19      Date

Daric Knight owner  
Printed Name and Title

ARIZONA DEPARTMENT OF  
ENVIRONMENTAL QUALITY

The above-referenced Contract Amendment is hereby executed this

17<sup>th</sup> day of January, 2019, at  
Phoenix, Arizona

  
Jason Sutter, Acting Manager  
Watershed Protection Unit