



APPLICATION

FOR CERTIFICATION UNDER
THE CLEAN WATER ACT SECTION 401

For ADEQ Use Only

LTF No.: _____ Date Application Rec'd: _____
Place No.: _____ Customer No.: _____ AFIS No.: _____
Lat/Long OK: _____ Zip OK: _____ Orig. Signatures: _____ Date Rec'd: _____

Project Name: Oak Creek Stream Bank Stabilization at Cave Springs Campground

404 Permit Type (Select one): Nationwide Permit or Regional General Permit (**Number: 13**)
 Individual Permit

U.S. Army Corps of Engineers Project/File Number (if available):

Except for the signature page, an electronic (scanned copy) submittal of this application including maps/drawings may be acceptable after making arrangements with the ADEQ 401 Certifications project manager.

Signatures must be original; i.e., no copies, faxes or electronic versions.

Mailing Address For Completed Form: Arizona Department Of Environmental Quality
Surface Water Section, 401 Certification, 5415A-1
Attn.: Robert Scalamera
1110 West Washington
Phoenix, Arizona 85007

Questions or requests for an application in another format may be directed to Robert Scalamera at the above address or: email: rs3@azdeq.gov Voice: (602) 771-4502

All submitted maps, drawings and other attachments must be either 8½ x 11" or 11 x 17" in size unless other arrangements have been made with the ADEQ project manager.

The sizing or spacing of the application form may be adjusted as needed to fit the required information (attach additional pages as necessary). Signatures should be on one page. Typeface should be an easily readable font (Times New Roman or Arial are preferred) and type size should be 10 point or greater (12 point is preferred). No other changes are acceptable; altered applications will be rejected.

Provide all information. Failure to do so may result in delay in processing or rejection of the application.

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Notes:

- **Waters of the U.S. (WUS)** as defined by the Corps of Engineers and U.S. Environmental Protection Agency under the Clean Water Act. This certification applies only to activities in any potentially impacted WUS.
- **303[d]-listed Impaired Waters** are surface waters that are identified pursuant to Clean Water Act (CWA) Section 303[d] as impaired (e.g., not meeting surface water quality standards) and as a result merit special consideration. The current 303[d] list of Impaired Waters is available on the ADEQ website via: <http://www.azdeq.gov/index.html>
- **Outstanding Arizona Waters (OAW)** are surface waters classified as an outstanding state resource water by the ADEQ Director pursuant to the Arizona Administrative Code (A.A.C.) R18-11-112. These waters are of exceptional quality and therefore merit special consideration. The current list of OAW is available on the ADEQ website via: <http://www.azdeq.gov/index.html>
- **Temporary means** not longer than the time required to complete the subject activities.
- **Native material/fill** is defined as pollutant-free soil, sand, gravel, etc. that constitutes the streambed or adjacent banks in the immediate area of the permitted work.

Project Site Location Information

Street Address (If available. For projects encompassing multiple addresses, either “n/a” or on-site office address acceptable.):

City/town (indicate if near rather than within municipal boundaries): In between Flagstaff and Sedona

County: Coconino

Site Zip code:

Site telephone (if available):

Approximate Center of Project (In degrees, minutes, seconds):

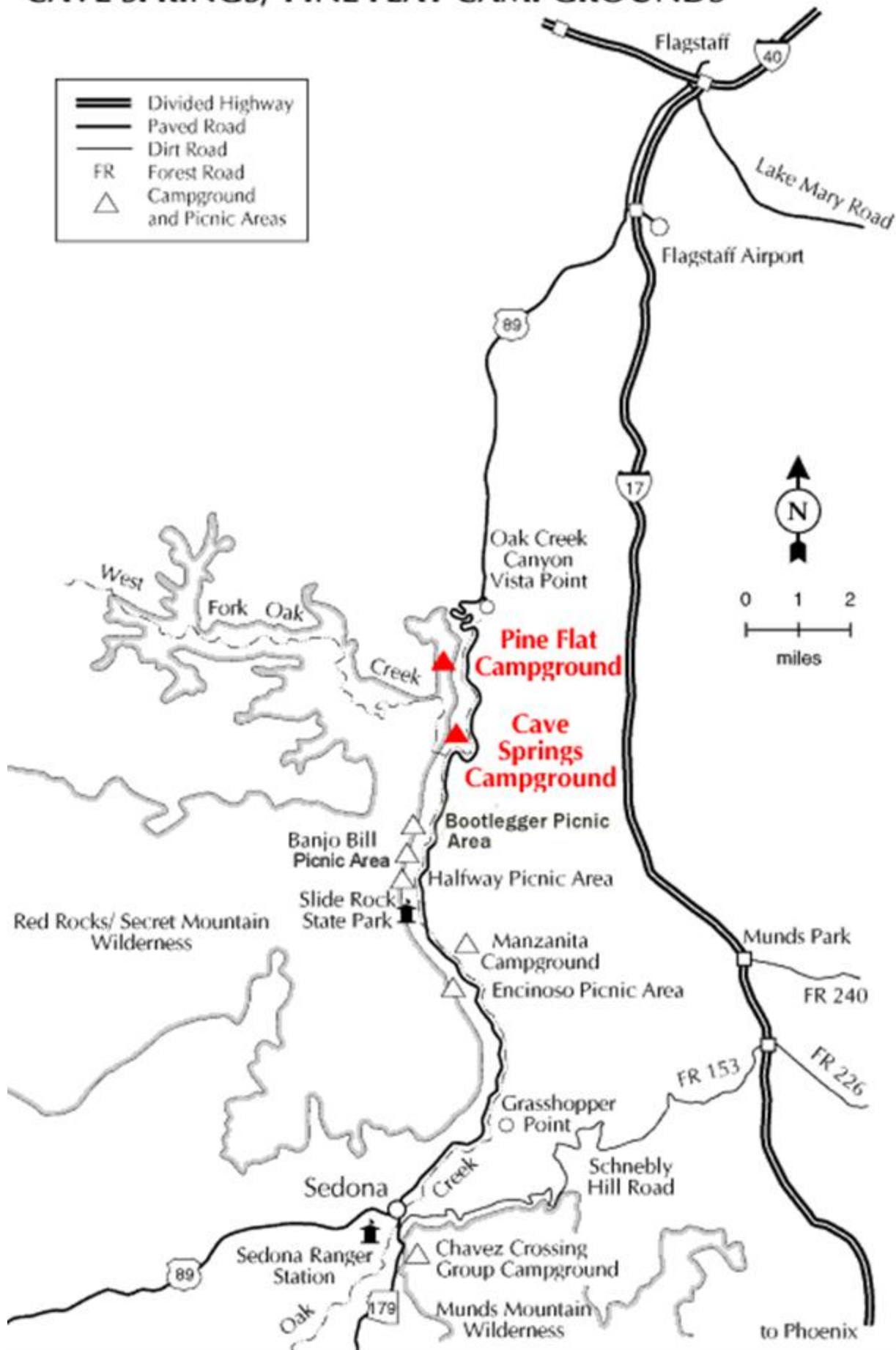
Latitude: 34 ° 59 ' 55.5576"

Longitude: -111 ° 44 ' 23.0634"

Directions to project location (from nearest intersection of major streets/highways). Include maps or drawings displaying location relative to state boundaries and nearby cities, highways, waterbodies, etc.

On US Highway 89A, drive south about 14 miles from Flagstaff or north about 12 miles from Sedona. Cave Springs is a mile south (downstream) of Pine Flat Campground. Both campgrounds are located just off the paved highway to the west.

CAVE SPRINGS/ PINE FLAT CAMPGROUNDS



Impacted and downstream waterbody(ies) (from Water Quality Standards for Surface Waters [18 A.A.C. 11, Article 1], otherwise use “unnamed” or “unnamed tributary to”). Include flow regime (ephemeral, intermittent or perennial), name of downstream waterbody(ies) and name of watershed (from 18 A.A.C. 11, Article 1).

Example: *Deluge Wash (ephemeral) and several unnamed ephemeral washes, all tributary to the Big Sandy River, in the Bill Williams River Watershed:*

Verde River, Salt River, Gila River and eventually the Colorado River

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Area Of Disturbance (label units; e.g., acres, linear feet, square feet, square miles, etc.)

1. The total jurisdictional waters within the project boundaries:
2. The impacted jurisdictional waters: Oak Creek.
3. The project size: Approximately 2 acres

PROJECT DESCRIPTION

Project Purpose:

The purpose of the project is to stabilize the stream bank of Oak Creek that is adjacent to the Cave Springs campground, while minimizing the impact of the Narrow-headed Gartersnake. The stream bank of concern is currently made of grouted rock bank armor material with rebar elements and polyethylene tubing for internal drainage. The artificial bank was constructed in 1996 due to serious erosion which threatened the campground access road. The failure of the grouted rock bank design is the reason behind the need for the re-stabilization of the stream bank.

Describe Work To Be Performed (e.g., pad fill, utility crossings, bridges, channel modification, detention pond, etc.), including fill material to be used, armor material, structure material and revegetation / reclamation plan.

The stream bank stabilization design will include mechanically removing material from the island/sandbar that is located on the opposite side of the Cave Springs camp ground (left side of Oak Creek looking downstream). The material will be used as fill material to further stabilize the stream bank of Oak Creek that is adjacent to the Cave Springs campground. Material that will be used during construction are sands, gravel, and large boulders (i.e. material excavated from the island). Trees will be transplanted from the island/sandbar to the stream bank adjacent to Cave Springs campground and care will be taken in order to minimize the disturbance of riparian vegetation. The excavation of the earthen material will be done through the use of heavy equipment. All equipment will be serviced, fueled and maintained on uplands to prevent contamination of Oak Creek. The cut and fill was estimated using Auto Desk Civil 3D at respectively.

Describe the measures to be taken in order to control the discharge of pollutants into waters of the U.S. (WUS).

These measures may be procedural or physical in nature, temporary or permanent and must be functional prior to beginning any construction activity other than the creation of the measures themselves.

If, in lieu of entering the information here, a reference is made to another document; e.g., Stormwater Pollution Prevention Plan, the applicable portions of the referenced document must be included with this application.

The project will begin and end during the dry season so that runoff due to rainfall will be kept at a minimum.

Attach only the maps or drawings (either 8½ x 11” or 11 x 17” in size) necessary to provide an overview of the project. If details are needed, the ADEQ project manager will contact the applicant or agent requesting additional material.

The following are required:

U.S.G.S. 7.5 min. Topographic map or other contour map of project area.

Map delineating the ordinary high water mark of jurisdictional waters affected by activity to be certified.

Project Name: Oak Creek Stream Bank Stabilization at Cave Springs Campground

APPLICANT INFORMATION (Complete all that apply. Use "N/A" for not applicable)

Applicant Name: Title:
Company, Agency, etc:
Phone Number: email address:
Mailing Address:
City: State: Zip Code:

I have reviewed the Arizona Water Quality Standards for Surface Waters (18 A.A.C. 11, Article 1) (available through www.azdeq.gov).

Application is hereby made for Arizona certification under CWA section 401 for the above-named project. I certify that I am familiar with the information contained or referenced in this application and that the information is true, accurate and complete.

Applicant's Signature: _____ Date: _____.

(delete this section if not applicable)

I hereby authorize (agent) _____ to act in my behalf in the processing of this application and to furnish any supplemental information in support of this application. I understand that I am bound by the actions of my agent.

Applicant's Signature: _____ Date: _____.

Agent Name: Title:
Company, Agency, etc:
Phone Number: email address:
Mailing Address:
City: State: Zip Code:

Agent's Signature: _____ Date: _____.

(delete this section if applicant is property owner)

Property Owner Name: Title:
Company, Agency, etc:
Phone Number: email address:
Mailing Address:
City: State: Zip Code:

Property Owner's Signature: _____ Date: _____.