



## North Concho River: Bank Stabilization

<b>Water Body</b>	North Concho River (Seg 1421)
<b>Location</b>	City of San Angelo, Tom Green County
<b>River Basin</b>	Colorado River (14)
<b>Contractor</b>	Upper Colorado River Authority (UCRA)
<b>Project Period</b>	September 1, 2011 to August 31, 2014
<b>Project Total</b>	\$622,520 (Federal 60% and Local Match 40%)

### Background

The North Concho River (Segment 1421) flows through the City of San Angelo. The North Concho is identified on the state's list of impaired water bodies (303(d) List) for low dissolved oxygen (DO) and high bacteria levels. Bacteria was added to the 2008 303(d) List, however, low DO has been a long standing issue in the North Concho. Due to poor water quality and frequent fish kills, the urban portions of the North Concho, especially the downtown section, have been the focus of multiple nonpoint source (NPS) pollution projects including monitoring and the construction of best management practices (BMPs).

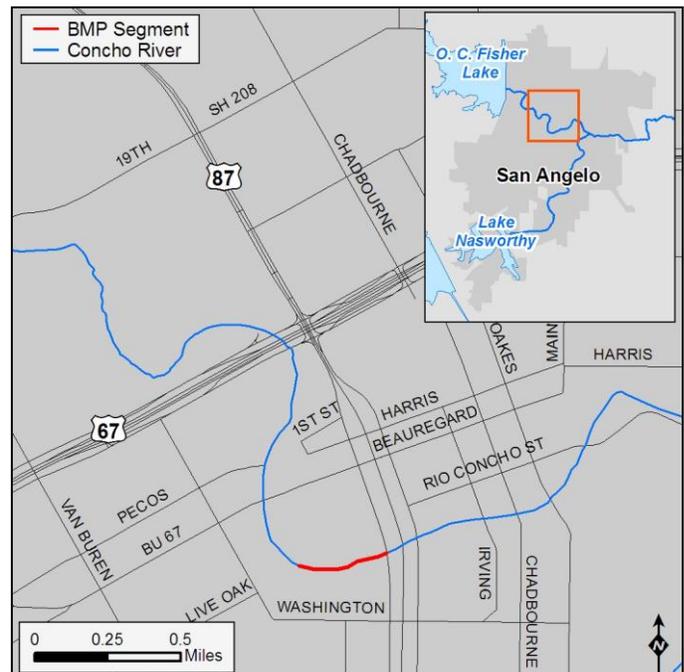
To address low DO levels in the urban portion and other issues in the greater, primarily rural, watershed, the UCRA developed the Concho River [Watershed Protection Plan](#) (WPP) in June 2008. The WPP identifies several urban area BMPs such as bank stabilization to address the DO impairment.

The urban sections of the river primarily consist of a series of in-channel dams and reservoirs that are dominated by urban runoff. Numerous studies, monitoring, and observations have shown that accumulations of sludge in upstream impoundments are currently being exported downstream, which exerts an oxygen depressive effect and re-introduces nutrients to the aquatic environment. Erosion and bank/tree collapse contribute significantly to these accumulations.

### Project Description

To fund needed water quality improvements, voters in San Angelo approved a multi-million dollar project funded with sales tax revenues. A portion of these funds was used to dredge 52,250 cubic yards of sediment along 1.5 river miles of streambed. The city has earmarked over \$3,000,000 in additional funds for bank stabilization, of which \$249,008 have been approved and set aside as local match for this grant.

This project specifically funded the stabilization of river banks for a 2,000 foot section of the North Concho as a



portion of the larger River Improvement Project conducted by the city. Much of the project planning, permitting and engineering was funded by the city and accomplished prior to the grant commencement date.

### Current Status

Bank stabilization construction is complete. Vegetation establishment is in progress. Visit the [project website](#) for more information.

### For More Information

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## Project Highlights

- 09/2011 – The contract was initiated.
- 02/2012 – Bank stabilization construction commenced.
- 06/2012 – Project signage was completed and installed.
- 07/2012 – Extensive outreach activities were conducted, including website, news article, workshop, and tour.
- 10/2012 – The construction phase of bank stabilization within the project area is completed.
- 04/2013 – The Quality Assurance Project Plan for evaluating project effectiveness was approved.
- 10/2013 – Bank stabilization construction completed.
- 10/2013 – Riverfest and Eco Fair held and over 6000 individuals attended.
- 04/2014 – TCEQ monitoring stations installed for post construction monitoring.
- 08/2014 – Final Report submitted to TCEQ.
- **08/2014 – Contract closed.**
- 09/2014 – Final Report approved by TCEQ.