

## “Real-Time Water Quality Monitoring in the Anchor River Watershed”

### Community Rivers Planning Coalition

FY 05 Grant Award: \$24,000

Project Match: \$16,000



#### Description and Purpose:

This project provided funding for two existing online, in-stream monitoring stations located near the mouth of the Anchor River, just above the confluence of the North and South Forks. The original Turbidity Monitoring Sites (TUMS) were established through a past Homer Soil and Water Conservation District project and were constructed in response to the need to further research the documented exceedences in water quality standards in the Anchor River, mainly temperature and turbidity. This project provided real-time data monitoring and presentation.

#### Evaluation of Environmental Benefits:

The TUMS sites achieved a great many goals during this fiscal year. These include:

- measurement of the natural systems relationships between precipitation and turbidity
  - examination of data at a time interval dynamic enough for natural resource stewardship or management purposes of surface water
  - furthering the TUMS site goal of a societal-monitored natural resource
- measurement of impacts of planned disturbance on water quality
  - measurement of turbidity pollution event in October, 2004

#### Deliverables Include:

- The Turbidity Monitoring Stations (TUMS) have been collecting data and remotely transmitting turbidity and other water resource parameters from both the North and South Forks of the Anchor River to the CGS offices, which can be viewed on the website

<http://home.gci.net/~cgs/>

*Note: An enhancement program is being implemented and engineered for the TUMS sites to continuously monitor the river discharge using Doppler Radar sensors which will project the turbidity as a function of discharge in real time.*

- [Final Data Report](#)



#### Project Contacts:

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