

## Sediment Science

### Suspended Sediments in Streams, Storm Runoff, and Impervious Surface Runoff:

**Quantify Loads and Yields of Contaminants**

**Identify Sources of Sediment-Associated Trace Elements and Hydrophobic Organic Contaminants**

**Understand Relations Between Streamflow and Sediment and Contaminant Transport**

**Characterize Relations Between Land-Use and Sediment Quality**

### Streambed Sediments:

**Characterize Sediment Quality**

**Identify Source(s) of Contaminant Inputs**

### Lake/Reservoir Bottom Sediments:

**Age Dating of Sediments to Calculate Deposition Dates and Sedimentation Rates**

**Reconstruct Water-Quality Trends of Sediment-Associated Trace Elements and Hydrophobic Organic Contaminants**

**Describe Effects of Land-Use and Regulatory Changes and Urbanization on Water-Quality**



Large-volume suspended-sediment (LVSS) sampling equipment



Streambed-sediment sampling



Subsampling a lake-bottom sediment box core



Lake bottom-sediment coring boats



**USGS Lake Sediment Study Sites**

**MISSION:** To provide reliable, impartial, timely information that is needed to understand the Nation's water resources.

The Water Resources Discipline actively promotes the use of this information by decision makers to

- Minimize the loss of life and property as a result of water-related natural hazards, such as floods, droughts, and land movement
- Effectively manage groundwater and surface-water resources for domestic, agriculture, commercial, industrial, recreational, and ecological uses
- Protect and enhance water resources for human health, aquatic health, and environmental quality
- Contribute to wise physical and economic development of the Nation's resources for the benefit of present and future generations

The U.S. Geological Survey (USGS) Texas Water Science Center works in cooperation with approximately 100 municipalities, river authorities, groundwater districts, and State and Federal agencies in Texas to provide reliable, impartial scientific information to resource managers, planners, and other customers. This information is gathered by the USGS Texas Water Science Center to minimize the loss of life and property from natural disasters, to contribute to the conservation and sound economic and physical development of the Nation's natural resources, and to enhance the quality of life by monitoring water, biological, energy, and mineral resources.

If you have any questions or concerns with which we can assist you, contact us or visit our Web site at <http://tx.usgs.gov> or the national Web site at <http://www.usgs.gov>. We look forward to serving you in the near future.

**Management staff and key specialists of the USGS Texas Water Science Center:**

<u>USGS-Texas contacts</u>	<u>Title</u>	<u>Telephone no.</u>	<u>E-mail address</u>
Bob Joseph	Director	(512) 927-3502	rljoseph@usgs.gov
George Ozuna	Deputy Director for Hydrologic Studies	(210) 691-9225	gbozuna@usgs.gov
Mike Dorsey	Chief, Hydrologic Data Collection & Management	(512) 927-3540	medorsey@usgs.gov
Meghan Roussel	Central Texas Program Chief	(512) 927-3503	mroussel@usgs.gov
Mark Null	South Texas Program Chief	(210) 691-9225	jnull@usgs.gov
Mike Turco	Gulf Coast Program Chief	(936) 271-5312	mjturco@usgs.gov
Tim Raines	North Texas Program Chief	(817) 263-6545 x201	thraines@usgs.gov
William Asquith	Lubbock Field Office	(806) 742-3129	wasquith@usgs.gov
Keith Snider	Data Chief, Wichita Falls Field Office	(940) 692-4283	krsnider@usgs.gov
Cary Carman	Data Chief, San Angelo Field Office	(325) 944-4600 x20	cscarman@usgs.gov
Mark Null	El Paso Field Office	(210) 691-9225	jnull@usgs.gov
Jaimie Ingold	Corpus Christi Field Office	(361) 985-6266	ingoldj@usgs.gov
Karl Winters	Surface-Water Specialist	(512) 927-3560	kwinters@usgs.gov
Greg Stanton	Groundwater Specialist	(512) 927-3558	gstanton@usgs.gov
Tim Oden	Water-Quality Specialist	(936) 271-5325	toden@usgs.gov
Bruce Moring	Biology Specialist	(512) 927-3585	bjmoring@usgs.gov
Daniel Pearson	GIS Specialist	(512) 927-3561	dpearson@usgs.gov
Peter Van Metre	Sediment Specialist	(512) 927-3506	pvanmet@usgs.gov
Barbara Mahler	Karst Specialist	(512) 927-3583	bjmahler@usgs.gov
Claire DeVaughan	Geospatial Liaison for Texas	(512) 927-3566	cdevaugh@usgs.gov
Milton Sunvison	Instrumentation Specialist	(512) 927-3533	mwsunvis@usgs.gov
Lynne Fahlquist	Public Information Officer	(512) 927-3508	lfahlqst@usgs.gov
Brian Reece	National Water Information System (NWIS) Manager	(512) 927-3573	bdreece@usgs.gov

## Texas Water Science Center Locations

