



William Larsen
Karst Specialist

General Qualifications

Mr. Larsen has extensive experience in karst studies and management in Williamson, Travis and Bexar Counties. Since 1988 he has conducted karst surveys, karst feature excavations, and biological surveys throughout central Texas. He has conducted karst feature surveys on 20,000 acres in central Texas. He has participated in several dye trace studies in Uvalde, Bexar, and Comal counties. He has 15 years experience with red imported fire ant control within endangered species habitat. He also has training in identification of Texas freshwater mussels.

Years with Zara:	1
Previous Experience:	21
Certifications:	CPR and First Aid
Licenses	USFWS endangered species permit TE040341-0

Experience

Edwards Aquifer Deep Biota Study: Comal, Bexar, Medina and Uvalde Counties, Texas. *Edwards Aquifer Authority.*, Scientist. Responsibilities include design and manufacturing of well sampling devices, landowner relations, collecting samples, and the sorting and identifying of aquatic fauna from the Edwards Aquifer.

Karst Assessment for DPS Training Facility, Williamson County, Texas. *URS Corporation, Austin Branch.* Karst Technician. Duties included surveying terrain for karst features. Zara performed a full karst survey and karst assessment in addition to all aspects of a geological assessment.

Camp Bullis Karst Management, San Antonio, Bexar County, Texas. *Department of Defense.* Karst technician. Duties included surveying terrain for karst features, excavating karst features, controlling red imported fire ants near endangered species caves, and surveying endangered species caves.

Lakeline Mall Habitat Conservation Plan, Travis and Williamson Counties, Texas. *Texas Cave Management Association.* Scientist. (August 2009- present) Responsibilities include surveying biology in endangered species caves and red imported fire control. Zara has an ongoing contract to survey mitigation preserves for listed karst species. This includes evaluating presence/absence and number of endangered species at habitat with varying human impact levels multiple times per year.

City of Austin Water Treatment Plant 4 (2006-2007), Austin, Travis County, Texas. *Carollo Engineers.* Karst technician. Responsibilities included karst feature excavation. Zara examined caves and karst features on several proposed locations for COA Water Treatment Plant 4. This included determining if endangered species habitat existed, excavation if necessary for scientific studies, and searching for endangered karst species when likely habitat was found.

Loop 1604 Environmental Impact Statement, San Antonio, Texas. *Michael Baker Corporation.* Karst technician. Responsibilities include performing surveys, excavation of karst features, and documentation for Endangered Species (ES) compliance for a large roadway. This ongoing contract is subject to extensive oversight and the work is performed at a litigation support level.

Medina Dam Environmental Impact Statement, Medina County, Texas. *URS Corporation, Austin Branch.* Karst technician. Responsibilities include performing surveys, excavation of karst features, and documentation for Endangered Species compliance for improvements to the Medina Dam.