



# BAT SURVEYS AND MONITORING

## Background

The southern United States is home to over 30 species of bats. These unique mammals utilize rural and urban environments and may be found at bridges, culverts, tree roosts, caves, and mine sites. The United States Fish and Wildlife Service (USFWS), Texas Parks and Wildlife Department (TPWD), and Oklahoma Department of Wildlife Conservation (ODWC) list several species as species of greatest conservation need, threatened, or endangered. Cox|McLain Environmental Consulting, Inc. (CMEC's) bat biologists can guide your project to stay on track from the planning stage through to construction. Activities that could benefit from CMEC's bat survey services include, but are not limited to, projects involving:

- Removal of vegetation (especially forested habitat).
- Demolition or repair of man-made roosting structures; including bridges, buildings, and culverts.
- Impacts to caves or mines which may act as roosting and maternal colony sites.
- Siting and installation of wind turbines, or solar arrays.



Triple-high mist net

## What Cox|McLain Environmental Consulting, Inc. can do:

CMEC's biologists hold a TPWD Scientific Research Permit and an ODWC Scientific Collector's Permit for conducting surveys for state listed-threatened and endangered bat species. Our experienced staff can provide expert advice and coordination with State and Federal Agencies to make compliance with regulations simple and easy. Because our biologists have compiled hundreds of hours surveying for and handling bats, we are confident that we can assist clients who have projects that may impact bats. CMEC has the equipment and experience needed to conduct construction phase monitoring, bat acoustic surveys, mist netting, harp trapping, and structure/bridge pre-construction roost surveys. Services CMEC provides include:

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|-----------------------|--|
| • Mist-Netting        | • Hibernacula/Roost Survey                                   |
| • Harp-Trapping       | • Pre-Construction and Construction Phase Surveys/Monitoring |
| • Acoustic Surveys    | • White-nose Syndrome Sampling/Monitoring                    |
| • Habitat Assessments | • Bridge/Structure Surveys                                   |



Brazilian Free-Tailed bats in a parking garage

## Comprehensive Environmental Services:

CMEC is a WOSB/HUB/DBE/WBE-certified environmental consulting firm founded in 2007 and based in Austin, Texas with offices in Houston and Irving, Texas as well as Tulsa, Oklahoma. CMEC staff includes biologists, wetland ecologists, planners, GIS specialists, archeologists, archival researchers, and architectural historians. We provide environmental, archeological, historical, and planning services to an array of clients throughout the Southwest region.

For more information about CMEC services please visit our website:

[www.coxmclain.com](http://www.coxmclain.com)



CMEC biologists conducting a culvert roost survey

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