

The following recommendations pertain to individual minimization and mitigation measures:

SAV Removal and Restoration. Substantial progress has been made removing non-native vegetation from both the Comal and San Marcos systems and replacing it with native SAV species. Nonetheless, despite this sustained effort, there is not enough new habitat from native plantings to maintain populations of fountain darter to balance non-native SAV removal.

Sediment Management. In general, sediment removal activities should be limited to areas where ongoing upland sources or natural stream dynamics will NOT lead to deposition of new sediment within a matter of years.

Dissolved Oxygen Management in Landa Lake. Aeration should not be used routinely as a mitigation measure. If floating mats cover more than 25 percent of the surface of Landa Lake and dissolved oxygen concentrations decrease, then manual breaking up and

removal of the floating mats should be considered as a mitigation measure.

Voluntary Irrigation Suspension Program Option. When the HCP is reviewed for renewal, it may be appropriate to re-evaluate the time period that the VISPO trigger is based on using a decision support system. Consideration should be given to redefining the trigger to use additional information, such as groundwater elevation from a longer time frame, precipitation and recharge data, and groundwater model projections of future conditions.

Aquifer Storage and Recovery. (1) At a minimum of annually, determine specific injection at each ASR well to assess if there are any long-term changes in ASR well performance, (2) design and implement water quality monitoring for arsenic and related constituents in monitoring wells during recharge and storage events, and (3) design and implement water quality monitoring in ASR wells during recovery events.

COMMITTEE TO REVIEW THE EDWARDS AQUIFER HABITAT CONSERVATION PLAN

Danny D. Reible (*Chair*), Texas Tech University, Lubbock; **Jonathan D. Arthur**, Florida Department of Environmental Protection, Tallahassee; **M. Eric Benbow**, Michigan State University, East Lansing; **Robin K. Craig**, University of Utah, Salt Lake City; **K. David Hambright**, University of Oklahoma, Norman; **Lora A. Harris**, University of Maryland Center for Environmental Science, Solomons; **Timothy K. Kratz**, University of Wisconsin, Madison; **Andrew J. Long**, U.S. Geological Survey, Rapid City, SD; **Jayantha Obeysekera**, South Florida Water Management District, West Palm Beach; **Kenneth A. Rose**, Louisiana State University, Baton Rouge; **Laura Toran**, Temple University, Philadelphia, PA; **Greg D. Woodside**, Orange County Water District, Fountain Valley, CA; **Laura J. Ehlers** (*Study Director*), **Brendan McGovern** (*Senior Program Assistant*), National Academies of Sciences, Engineering, and Medicine

For More Information . . . This Report Highlights was prepared by the Water Science and Technology Board based on the report *Review of the Edwards Aquifer Habitat Conservation Program: Report 2*. The study was sponsored by the Edwards Aquifer Authority. Any opinions, findings, conclusions, or recommendations expressed in this publication are those of the authoring committee and do not necessarily reflect those of the sponsor. Copies of the report are available from the National Academies Press, (800) 624-6242; <http://www.nap.edu>.

Division on Earth and Life Studies

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

The nation turns to the National Academies of Sciences, Engineering, and Medicine for independent, objective advice on issues that affect people's lives worldwide.

www.national-academies.org