

SCIENCE COMMITTEE REVIEW OF NEW BRAUNFELS CULVERT ENGINEERING DESIGN PLANS AS
PRESENTED BY SAM VAUGH, HDR ENGINEERING ON APRIL 3, 2013

The Science Committee unanimously recommended that the City of New Braunfels:

- a. Restore the 48" culvert and abandon the 24" culverts in the most cost effective and efficient way possible. Methodology for abandonment of the 24" culverts was discussed as plugging and stabilizing;
- b. Designers should utilize a 1/2 inch mesh screen in the opening between the springfed pool gates to filter the water passing through the 12" culvert;
- c. The Spring-fed pool will continue to be maintained consistent with the Comal Springs Ecosystem Management Plan (2003) included as appendix N in the EAHCP.
- d. Impact blocks should be used below the 48" culvert outlet; and,
- e. A one-two week window with reduced flows (15-20cfs) for the work associated with the 48" culvert is permissible assuming there are healthy habitat conditions prior to the project being initiated. Habitat determination should be made at the time of construction; if poor habitat conditions exist, then a pump or siphon should be utilized to supplement Old Channel flows.