

# Analysis of Chemical Parameters in an Anthropogenic Depression in Bass River

Laura Sirak, Amy Blood, Duane Friedman and Dr. Gordan Grguric  
Marine Science Program – The Richard Stockton College of NJ

**Introduction and Background:** The Great Bay estuary is one of the few pristine estuaries in NJ, with a primarily freshwater influence. The anthropogenic depression used in this study (Figure 1) was created during the construction of the Garden State Parkway in the 1950s. Material was drawn out of the basin, located next to Bass River, to use as filler for the roadway, creating a deep pit. The mouth of the basin that connects to the Bass River is very shallow ( $<0.75$  m) and narrow (7 m across). This results in little water exchange with the semi-diurnal tide