

MEMORANDUM

To: Saqib Shirazi, P.E., Innovative Water Technologies, Texas Water Development Board (TWDB)

FROM: **Bradley Sessions**, Carollo Engineers Inc.

SUBJECT: Brackish Water Desalination Demonstration Project – September 2011

DATE: September 1, 2011

CONTRACT: 1004831105

Recent Project Activities:

Calcite piloting efforts continue with success. Phase I and Phase II of the testing matrix is complete, with Phase III currently in progress. Efforts to collect and analyze data, including sieve analysis on the test media, XRF/XRD analysis, and Monitoring Operating Data is ongoing.

Issues Encountered:

The pump used to provide flow through the CO₂ system failed on July 21. The pump failure was under warranty, and was replaced at no cost to the project on July 25th. No significant project delay was experienced as a result of the pump failure.

No issues have been encountered related to the data collection or lab analysis efforts.

Items to be Addressed and Anticipated Project Activities:

Continued pilot operation of Phase III and Phase IV will take place in the coming month.

Coordination with the Kay Baily Hutcheson Plant staff continues in order to minimize impact to facility operations. A membrane cleaning is scheduled in October, major pilot efforts should be complete and no conflict is anticipated.