

MEMORANDUM

To: Erika Mancha, Innovative Water Technologies, Texas Water Development Board (TWDB)

FROM: Justin Sutherland, Ph.D., P.E., Carollo Engineers

SUBJECT: Developing Practical Alternatives to Pilot Plant Studies for Innovative Water Technologies Quarterly Report – March 2013

DATE: July 22, 2013

CONTRACT: 1148321310

Recent Project Activities:

Since submission of the previous Quarterly Report (ending November 2012):

- 1) Completed data acquisition and review for Phase II.
- 2) Completed evaluation of data for Phase II.
- 3) Completed RO pumping power cost analysis.
- 4) Began internal review of draft Component B summarizing results of Phase II.
- 5) Began preparation of Draft Manual of Practice (Phase III)

Issues Encountered:

Graduate student completed thesis based on this project and graduated before draft report was submitted to TWDB. Internal deadline for submission of Component B was extended based on conversation with J. Arroyo.

Items to be Addressed and Anticipated Project Activities:

The following are anticipated project activities over the next quarter:

- 1) Complete internal review of Draft Component B.
- 2) Begin internal review of Draft Manual of Practice.