

**Monthly Letter Progress Report #07 – July 2011
Assessment of Groundwater Modeling Approaches to
Brackish Aquifers**

TWDB Contract No. 1100011196

Submitted to:

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1.0 Progress on Tasks

This report summarizes activities on project tasks for the month of July, 2011 and represents the sixth progress report on this contract.

Task 1 Project Management

No significant work was completed under this task in July.

Task 2 Technical Tasks

In July, we focused on two tasks:

1. Writeup of the literature review portion of the project. Includes the search for various codes that could model variable density flow, their initial characterization/evaluation, and the additional search for relevant hydrogeologic scenarios.
2. Continued development of a framework for the decision matrix for code selection. We created a layout in Microsoft Excel and began developing the macros that would provide an automatic assignment of weights for the various code/category combinations (based on a lookup table).

Task 3 Project Report

We wrote up a good portion of the literature review in July.

2.0 Planned Activities for the Next Month

Task 1 Project Management

No major project management tasks planned for next month.

Task 2 Technical Tasks

Technical tasks in August will focus on finishing the report and decision matrix framework. The final deliverables are due on August 31.

Task 3 Project Report

We will finish and deliver the report in August.

3.0 Problems/Issues and Actions Required/Taken

None.