

**FLORIDA DEPARTMENT OF HEALTH
ONSITE NITROGEN REDUCTION STRATEGIES STUDY**

**PROGRESS REPORT NO. 5
(JUNE, 2009)**

Task	Task Status	Activity this Period	Technical, Schedule, or Budget Problems Encountered	Recommended Methods to Resolve Problems
Task A – Technology Evaluation for Field Testing: Review, Prioritization, and Development				
Task A.1, Draft Literature Review Report	Task Complete	Draft literature review report completed on June 30, 2009.	None	N/A
Task A.2, Final Literature Review Report	Task Complete	Final literature review report completed on June 30, 2009.	None	N/A
Task A.3, Draft Classification of Technologies Report	Task Complete	Draft Classification, Ranking and Prioritization report completed on May 19, 2009.	None	N/A
Task A.4, Draft Technology Ranking Criteria Report	Task Complete	Draft Classification, Ranking and Prioritization report completed on May 19, 2009.	None	N/A
Task A.5, Draft Priority List for Testing Report	Task Complete	Draft Prioritization report completed on June 30, 2009.	None	N/A
Task A.6, Technology Classification, Ranking and Prioritization Workshop	Task Complete	Workshop presentation materials were developed. Workshop was conducted on May 28, 2009.	None	N/A
Task A.7, Final Classification of Technologies Report	Underway	Implementing comments received	N/A	N/A
Task A.8, Final Technology Ranking Criteria Report	Underway	Implementing comments received	N/A	N/A

Task	Task Status	Activity this Period	Technical, Schedule, or Budget Problems Encountered	Recommended Methods to Resolve Problems
Task A.9, Final Priority List for Testing Report	Not started	No activity	N/A	N/A
Task A.10, Draft Innovative Systems Applications Reports	Not started	No activity	N/A	N/A
Task A.12, Identification of Test Facility Sites	Task Complete	<p><i>USF Lysimeter Station</i> – A general assessment of lysimeter station rehabilitation needs has been determined and is summarized in a memorandum completed on June 18, 2009.</p> <p><i>UF Gulf Coast Research and Education Center</i> – We have a preliminary agreement to participate, and will finalize arrangements with GCREC after RRAC approves recommendation to proceed with GCREC as a test facility site based on preliminary soil and GW assessment. A summary of the site conditions and recommendations was sent to Elke and distributed May 19, 2009. On May 28, 2009 the RRAC voted to use the GCREC facility site as the only test facility site. Draft agreement submitted to GCREC on June 8, 2009, currently under review by UF legal staff.</p>	Lysimeter station rehabilitation costs alone are likely to be in excess of \$60,000, which exceed the total construction budget for the Task A test facility.	We are recommending consolidating our activities to one test facility. We recommended to conduct all test facility activities at this site
Task A.13, Draft QAPP PNRS II	Task Complete	Draft QAPP for PNRS II report submitted on June 18, 2009.	Behind schedule on draft QAPP, anticipate completion in early June	Will attempt to shorten timeframe on final QAPP so that Final deadline is met.

Task	Task Status	Activity this Period	Technical, Schedule, or Budget Problems Encountered	Recommended Methods to Resolve Problems
Task A.14, Recommendation for Process Forward Meeting	Not started	No activity	N/A	N/A
Task A.15, Final QAPP PNRS II	Not started	No activity	N/A	N/A
Task A.16, PNRS Specification Reports	Not started	No activity	N/A	N/A
Task A.17, Test Facility Design 50%	Not started	No activity	N/A	N/A
Task A.18, Test Facility Design 100%	Not started	No activity	N/A	N/A
Task A.19, Test Facility Design Final	Not started	No activity	N/A	N/A
Task A.20, Test Facility Accept Bid	Not started	No activity	N/A	N/A
Task B – Field Testing of Technologies and Cost Documentation				
Task B.1, Identification of Home Sites	On hold	Several home sites in Manasota Key have been visited to perform preliminary evaluation of sites with homeowners interested in the project.	None	N/A
Task B.2, Vendor Agreement Reports	Not started	No activity	N/A	N/A
Task B.3, Draft QAPP for Field Testing	On hold	No activity	None	N/A
Task B.4, Recommendation for Process Forward Meeting	Not started	No activity	None	N/A
Task B.5, Final QAPP Field Testing	Not started	No activity	N/A	N/A

Task	Task Status	Activity this Period	Technical, Schedule, or Budget Problems Encountered	Recommended Methods to Resolve Problems
Task B.11, LCCA Template Report	Not started	No activity	N/A	N/A
Task C – Evaluation of Nitrogen Reduction Provided by Soils and Shallow Groundwater				
Task C.1, Draft Literature Review on Nitrogen Reduction in Soils & Shallow GW Report	Task Complete	Draft Literature Review on nitrogen reduction in soils and shallow groundwater report was completed on June 30, 2009.	N/A	N/A
Task C.2, Final Literature Review on Nitrogen Reduction in Soils & Shallow GW Report	Not started	No activity	N/A	N/A
Task C.3, Draft QAPP Evaluation of Nitrogen Reduction Provided by Soils & Shallow GW	Underway	Continued discussions of Task C work plan	Behind schedule, requesting 1 month extension to deadline	Will attempt to keep Final QAPP deadline by shortening Final QAPP prep.
Task C.4, Recommendation for Process Forward Meeting	Not started	No activity	N/A	N/A
Task C.5, Final QAPP Evaluation of Nitrogen Reduction Provided by Soils & Shallow GW	Not Started	No activity	N/A	N/A
Task C.6, Home Site Selection	On hold	Discussions with homeowners groups was begun.	None	N/A
Task C.7, Instrumentation of Home Sites Report	Not started	No activity	N/A	N/A

Task	Task Status	Activity this Period	Technical, Schedule, or Budget Problems Encountered	Recommended Methods to Resolve Problems
Task C.11, Test Facility Design 50%	Task Complete	Test Facility Design 50% drawings were completed on June 30, 2009.	None	N/A
Task C.12, Test Facility Design 100%	Not started	No activity	N/A	N/A
Task D – Nitrogen Fate and Transport Modeling				
Task D.1, Draft Literature Review on Nitrogen Fate & Transport Model Report	Task Complete	Draft Literature Review on nitrogen fate and transport model report was completed on June 30, 2009.	Behind schedule	Will attempt to keep final lit. review deadline by shortening final lit. review prep.
Task D.2, Final Literature Review on Nitrogen Fate & Transport Model Report	Not started	No activity	N/A	N/A
Task D.3, Selection of Existing Data Set for Calibration Report	Task Complete	Selection of Existing Data Set for Calibration report was completed on June 30, 2009.	None	N/A
Task D.4, Draft QAPP N Fate and Transport Modeling	Underway	Continued work on modeling work plan	None	N/A
Task D.5, Recommendation for Process Forward	Not started	No activity	N/A	N/A
Task D.6, Final QAPP N Fate and Transport Modeling	Not started	No activity	N/A	N/A
Task D.7, Simple Soil Model Development	Not started	No activity	N/A	N/A

Task	Task Status	Activity this Period	Technical, Schedule, or Budget Problems Encountered	Recommended Methods to Resolve Problems
Task D.8, Non-Steady State Aquifer Model, Simple Soil Model	Not started	No activity	N/A	N/A
Task D.9, Aquifer Model with Averaged Output, Simple Soil Model	Not started	No activity	N/A	N/A
Task E – Project Management, Coordination and Meetings				
Task E.1, Project Kick-off Meeting	Task Complete	No activity	None	N/A
Task E.2, PM-Project Progress Report	Progress Report 1, 2, 3, 4 - Complete	The June 2009 progress report (this report) was completed July 7, 2009.	None	N/A
Task E.3, RRAC Meeting	Underway	Developed presentation for meeting. Scheduled for July 1, 2009	N/A	N/A
Task E.4, PAC Meeting	Not started	No activity	N/A	N/A