

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

**PROGRESS REPORT NO. 20  
(June, 2013)**

<b>Task</b>	<b>Task Status</b>	<b>Activity this Period</b>	<b>Technical, Schedule, or Budget Problems Encountered</b>	<b>Recommended Methods to Resolve Problems</b>
<b>Task A – Technology Evaluation for Field Testing: Review, Prioritization, and Development</b>				
Task A.27 Draft PNRS II Report	Task Complete	Draft PNRS II report submitted May 18, 2013.	None	N/A
Task A.28 Final PNRS II Report	Not started	Waiting on comments from FDOH and RRAC.	N/A	N/A
<b>Task B – Field Testing of Technologies and Cost Documentation</b>				
Task B.6 Field Systems Installation Report (per system)	Underway	Installation completed for B-HS3, B-HS4 and B-HS5 located in Seminole County in June 2013. Final permit approval still underway.	None	N/A
Task B.7 Field Systems Monitoring Report (per event)	Underway	<ul style="list-style-type: none"> <li>The third B-HS2 monitoring event (sampled April 16, 2013) completed on June 28, 2013.</li> <li>The fourth B-HS2 monitoring event (sampled June 4, 2013) completed on July 24, 2013.</li> </ul>	None	N/A

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Task B.16 Change-order Allowance	Underway	Remaining change-order budget = \$39,448.95. An additional \$15,000 was applied to the installation costs for B-HS3, the dual-source drip system.	None	N/A
<b>Task C – Evaluation of Nitrogen Reduction Provided by Soils and Shallow Groundwater</b>				
Task C.16 S&GW Sample Event Report	Underway	<ul style="list-style-type: none"> <li>• S&amp;GW Test Facility sample event no. 4 was conducted the week of January 7<sup>th</sup>. Report completed July 24, 2013.</li> <li>• S&amp;GW Test Facility sample event no. 5 was conducted the week of March 11th. Report completed July 24, 2013.</li> <li>• S&amp;GW Test Facility sample event no. 6 was conducted the week of June 10th. Report completed July 24, 2013.</li> </ul>	None	N/A
Task C.17 S&GW Data Summary Report	Underway	<ul style="list-style-type: none"> <li>• S&amp;GW Test Facility data summary report no. 4 completed July 24, 2013.</li> <li>• S&amp;GW Test Facility data summary report no. 5 completed July 24, 2013.</li> </ul>	None	N/A

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Task C.23 Instrumentation of Remaining Field Sites	Underway	<ul style="list-style-type: none"> <li>The C-HS4 groundwater monitoring instrumentation in Hillsborough County completed on June 28, 2013.</li> </ul>	None	N/A
Task C.24 Field Sites Sample Event Reports (SER)	Underway	<p><u>C-HS3:</u></p> <ul style="list-style-type: none"> <li>Sample Event No. 3 conducted the week of February 25th. Report completed June 28, 2013.</li> <li>Sample Event No. 4 conducted the week of May 20<sup>th</sup>. Report completed July 24, 2013.</li> </ul> <p><u>C-HS4:</u></p> <ul style="list-style-type: none"> <li>Sample Event No. 1 conducted the week of January 14th. Report completed June 28, 2013.</li> <li>Sample Event No. 2 conducted the week of April 22nd. Report completed July 24, 2013.</li> </ul>	None	N/A

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Task C.25 Field Sites Data Summary Report (DSR)	Underway	<u>C-HS3:</u> <ul style="list-style-type: none"> <li>Data Summary Report No. 3 completed July 24, 2013.</li> <li>Data Summary Report No. 4 completed July 24, 2013.</li> </ul> <u>C-HS4:</u> <ul style="list-style-type: none"> <li>Data Summary Report No. 1 completed June 28, 2013.</li> <li>Data Summary Report No. 2 completed July 24, 2013.</li> </ul>	None	N/A
Task C.27 Final Site Close-Out Report (per site)	Underway	<u>C-HS1:</u> Final site summary and close-out report completed July 24, 2013.	N/A	N/A
<b>Task D – Nitrogen Fate and Transport Modeling</b>				
Task D.7 Simple Soil Tools	Underway	<ul style="list-style-type: none"> <li>72 HYDRUS simulations have been run.</li> <li>80% progress report to be completed in April which summarizes the preliminary results of the HYDRUS simulations.</li> </ul>		N/A
Task D.8 Complex Soil Model	Underway	Complex Soil Model Development 100% report submitted June 28, 2013.	None	N/A
Task D.9 Complex Soil Model Performance Evaluation	Underway	Work underway.	None	N/A

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Task D.10 Validate/Refine Complex Soil Model	Underway	Work has started to validate the complex model with denitrification and parameter estimates using GCREC soils.	None	N/A
Task D.11 Aquifer Model Combined with Complex Soil Model Development	Underway	50% complete progress report submitted July 24, 2013.	None	N/A
Task D.12 Aquifer-Complex Soil Model Performance Evaluation	Underway	Comparison/evaluation of different models for estimating water table fluctuations complete.	None	N/A
<b>Task E – Project Management, Coordination and Meetings</b>				
Task E.2, PM-Project Progress Report	Underway	The June 2013 bimonthly progress report (this report) was completed July 24, 2013.	None	N/A