

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

**PROGRESS REPORT NO. 22
(July 2014 through January 2015)**

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				
A.31 Change-order Allowance [Biotoool Tasks 2 and 3]	Underway	Revisions to Biotoool underway	The current FOSNRS contract ends February 16, 2015, and previous agreement to extend contract has now been denied	Extend contract as previously agreed or develop new contract to complete project
Task B – Field Testing of Technologies and Cost Documentation				
Task B.7 Field Systems Monitoring Report (per event)	Underway	B-HS3, B-HS4 and B-HS5 monitoring complete. B-HS3 SE1-8 completed. <ul style="list-style-type: none"> • SE6 August 22, 2014 • SE7 October 23, 2014 • SE8 December 17, 2014 B-HS4 SE1-8 completed. <ul style="list-style-type: none"> • SE6 August 22, 2014 • SE7 October 23, 2014 • SE8 December 16, 2014 B-HS5 SE1-8 completed. <ul style="list-style-type: none"> • SE6 August 18, 2014 	None	N/A

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Task B.7 Field Systems Monitoring Report (per event) (continued)		<p>B-HS5 SE1-8 completed.</p> <ul style="list-style-type: none"> • SE7 October 21, 2014 • SE8 December 15, 2014 <p>B-HS6 SE1-8 completed.</p> <ul style="list-style-type: none"> • SE5 August 27, 2014 • SE6 October 30, 2014 • SE7 December 29, 2014 • SE8 January 29, 2015 <p>B-HS7 SE1-8 completed.</p> <ul style="list-style-type: none"> • SE5 August 20, 2014 • SE6 October 22, 2014 • SE7 December 18, 2014 • SE8 February 4, 2015 		
Task B.8 Field Systems Operation, Maintenance and Repairs Report (per system)	Underway	<p>B-HS3 report was submitted February 11, 2015.</p> <p>B-HS4 report was submitted February 11, 2015.</p> <p>B-HS5 report was submitted February 11, 2015.</p> <p>B-HS6 and B-HS7 reports are underway.</p>	The current FOSNRS contract ends February 16, 2015, and previous agreement to extend contract has now been denied	Extend contract as previously agreed or develop new contract to complete project

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Task B.10 Acceptance of System by Owner Report (per system)	Underway	<p>The B-HS2, B-HS3, B-HS4, B-HS5, B-HS6 and B-HS7 monitoring is complete and Operation and Maintenance manuals are being developed for those systems. The homeowners have been contacted regarding the requirements for keeping the experimental systems operational long term.</p> <ul style="list-style-type: none"> • B-HS2 homeowner accepted the experimental system November 20, 2014 • B-HS5 homeowner accepted the experimental system February 10, 2015. • B-HS7 homeowner accepted the experimental system February 6, 2015. 	The current FOSNRS contract ends February 16, 2015, and previous agreement to extend contract has now been denied	Extend contract as previously agreed or develop new contract to complete project
Task B.12 LCCA Template Report (final template and user guidelines)	Underway	Revisions to the draft LCCA template report incorporating comments received from FDOH are underway.	The current FOSNRS contract ends February 16, 2015, and previous agreement to extend contract has now been denied	Extend contract as previously agreed or develop new contract to complete project

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Task C – Evaluation of Nitrogen Reduction Provided by Soils and Shallow Groundwater				
Task C.14 Soils & Hydrogeologic and Monitoring Plan for S&GW Test Facility	Underway	The development of a report documenting the GCREC site including soil analyses, aquifer testing, piezometer installation and tracer testing is underway.	The current FOSNRS contract ends February 16, 2015, and previous agreement to extend contract has now been denied	Extend contract as previously agreed or develop new contract to complete project
Task C.18 Test Facility Closeout Report	Underway	The University of Florida GCREC staff have been contacted regarding test facility acceptance, meeting to discuss set for February 18th	The current FOSNRS contract ends February 16, 2015, and previous agreement to extend contract has now been denied	Extend contract as previously agreed or develop new contract to complete project

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Task C.26 Draft Site Close-Out Memo (per site)	Underway	<u>C-HS2</u> <ul style="list-style-type: none"> The C-HS2 wells continued to be monitored following B-HS3 PNRs system installation. Scheduling well abandonment is underway. <u>GCREC Mound</u> <ul style="list-style-type: none"> The University of Florida GCREC staff have been contacted regarding test facility acceptance, meeting to discuss set for February 18th. 	The current FOSNRS contract ends February 16, 2015, and previous agreement to extend contract has now been denied	Extend contract as previously agreed or develop new contract to complete project
Task C.27 Final Site Close-Out Memo (per site)	Underway	<u>C-HS3</u> <ul style="list-style-type: none"> The final site close-out memo completed January 30, 2015. <u>C-HS4</u> <ul style="list-style-type: none"> The final site close-out memo completed January 30, 2015. 	None	N/A

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Task D – Nitrogen Fate and Transport Modeling				
Task D.12 Aquifer-Complex Soil Model Performance Evaluation	Underway	The aquifer model performance evaluation implemented corroboration/calibration, parameter sensitivity analysis and uncertainty analysis. QA/QC review of the report documenting performance evaluation is underway.	None	N/A
Task D.13 Validate/Refine Aquifer-Complex Soil Model with Data Collected from Task C	Underway	The integrated aquifer model validation and refinement procedure is underway using site-scale field data collected from Task C.	The primary concern is a gap in funding. CSM anticipates having Task D.13 completed by June 30, 2015, but this is dependent of continuous funding. Currently the subcontract with CSM will end on February 16, 2015.	Extend contract as previously agreed.

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Task D.14 Development of Aquifer-Complex Soil Model for Multiple Spatial Inputs	Underway	An evaluation of existing GIS models to predict aquifer vulnerability from OWTS has been completed. Incorporation of multiple OWTS inputs into STUMOD-FL-HPS is underway.	The primary concern is a gap in funding. CSM anticipates having Task D.14 completed by June 30, 2015, but this is dependent of continuous funding. Currently the subcontract with CSM will end on February 16, 2015.	Extend contract as previously agreed.
Task E – Project Management, Coordination and Meetings				
Task E.2, PM-Project Progress Report	Underway	The January 2015 progress report (this report) was completed February 11, 2015.	None	N/A
Task E.3 RRAC or TRAP Presentation (per meeting)	Underway	A presentation providing a project update to the TRAP was prepared and given during the TRAP meeting conducted on September 25, 2014.	None	N/A