

Department of Health
Bureau of Onsite Sewage Programs
Research Review and Advisory Committee

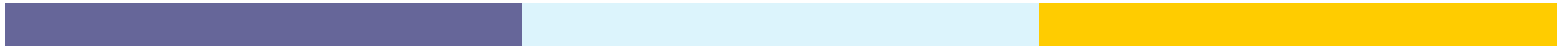
Thursday June 10, 2010

9:30 am - 3 pm



Agenda:

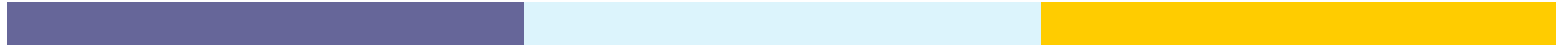
1. Introductions and Housekeeping
2. Review Minutes of Meeting March 23, 2010
3. Town of Suwannee Study Final Report Presentation
4. Nitrogen study
 - a) Budget proviso language
 - b) Comment on deliverables and next steps
5. Discussion on DEP's Wekiva Fertilizer Report
6. Discussion on Continuation of Inventory of OSTDS and Relationship to Maintenance and Management Program (SB 550)
7. Update on Study of Performance of Advanced Systems in Florida
8. Alternative Drainfield Products Discussion
9. Discussion on Research Budget
10. Election of Chair and Vice Chair
11. Other Business
12. Public Comment
13. Closing Comments, Next Meeting, and Adjournment



Introductions & Housekeeping

- Roll call
- Identification of audience
- How to view web conference
- DO NOT PUT YOUR PHONE ON HOLD!!!!
- Download reports:

<http://www.myfloridaeh.com/ostds/research/Index.html>



Review Minutes of Meeting March 23, 2010

- See draft minutes



Town of Suwannee Study

Purpose: Test the difference in water quality after central sewer has been installed in an area previously served by onsite sewage systems

Progress:

- Final draft report submitted
- Presentation by Larry Danek from ECT
- Comments on report due by end of June



Florida Onsite Sewage Nitrogen Reduction Strategies Study

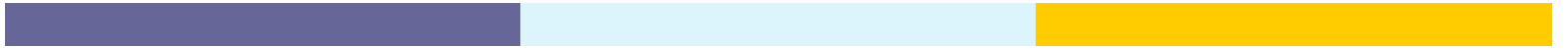
Purpose: Develop passive strategies for nitrogen reduction that complement use of conventional onsite sewage treatment and disposal systems, and further develop cost-effective nitrogen reduction strategies



Nitrogen Reduction Strategies Study

- Proviso language:

From the funds in Specific Appropriation 486, \$2,000,000 from the Grants and Donations Trust Fund is provided to the department to continue phase II and complete the study authorized in Specific Appropriation 1682 of chapter 2008-152, Laws of Florida. The report shall include recommendations on passive strategies for nitrogen reduction that complement use of conventional onsite wastewater treatment systems. The department shall submit an interim report of phase II on February 1, 2011, a subsequent status report on May 16, 2011, and a final report upon completion of phase II to the Governor, the President of the Senate, and the Speaker of the House of Representatives prior to proceeding with any nitrogen reduction activities.



Nitrogen Reduction Strategies Study

Presentation by Hazen & Sawyer



DEP's Wekiva Fertilizer Report

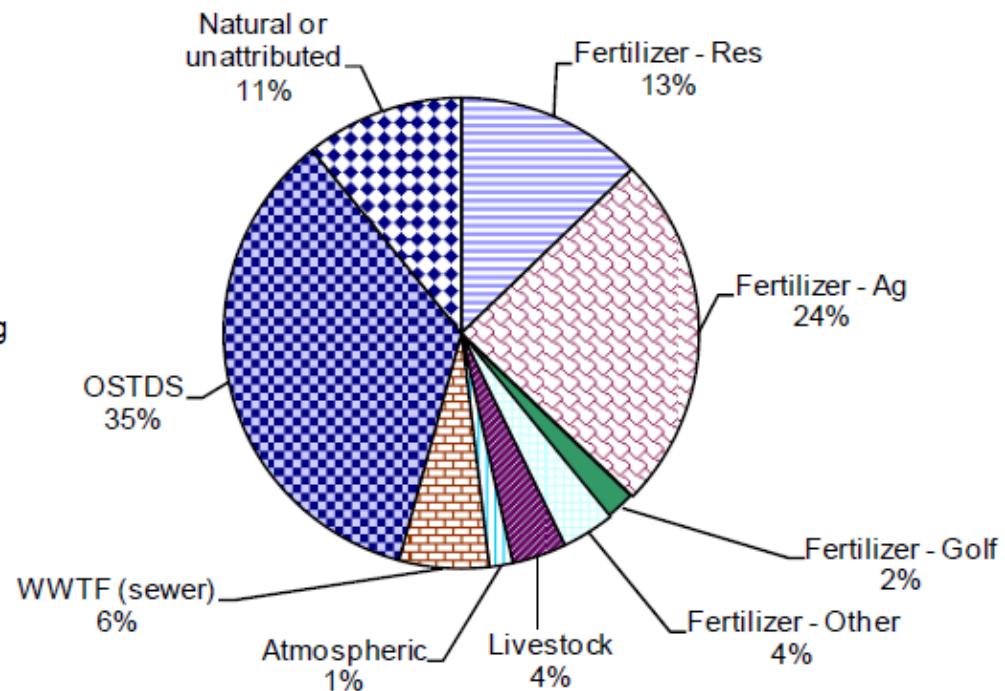
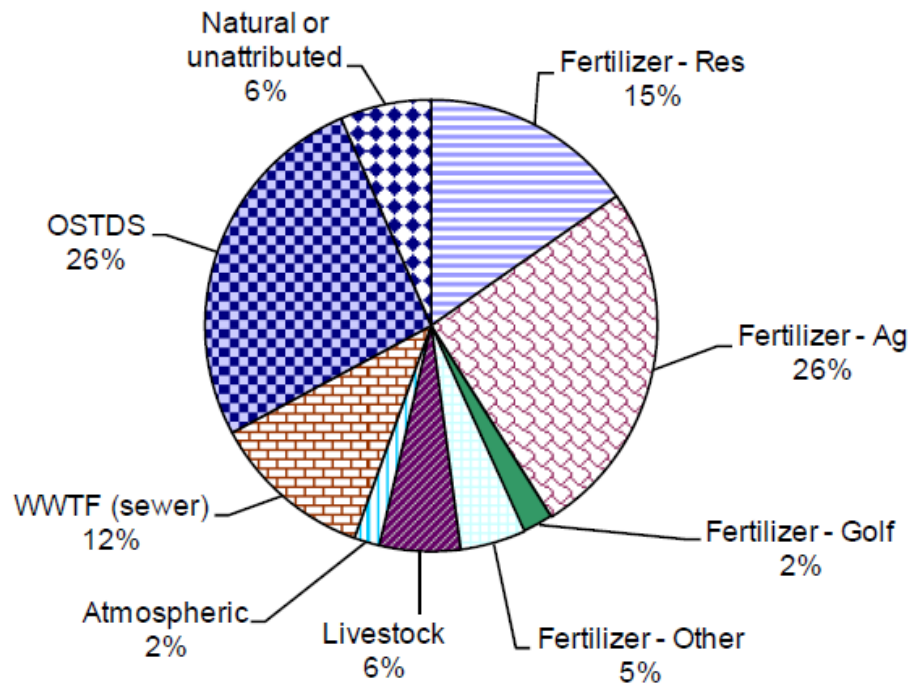
- Wekiva nitrate sourcing study complete
- Focus on residential fertilizer use
- Inputs were modified for WWTF and atmospheric deposition per comments from DOH and Damann Anderson
- Fertilizer inputs were adjusted based on the findings of the study
- Used Ellis & Associates field data for the OSTDS inputs and loadings (increased the estimate by 45% & 16% respectively)



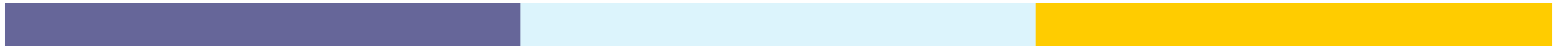
Nitrate Loadings

Wekiva Basin

Wekiva Study Area



DOH number of septic systems were used directly in calculating loadings in WSA, and extrapolated for the basin calculations



DEP's Wekiva Fertilizer Report

- Next steps



New Legislation (SB 550): Maintenance and Management Program

5-year inspection of all systems in Florida

Requiring:

- Pump-out tanks
- Repair failing systems
- Minimum water table separation
 - Before 1983 = 6-inch, if repaired = 12-inches
 - After 1983 = 12-inch, if repaired = 24-inches



FL Wastewater: Results of Inventory

PLEASE NOTE This site is under development and is not available for the general public to view at this time. We are working on making this publicly available.



FL Wastewater



Bureau of
Onsite
Sewage

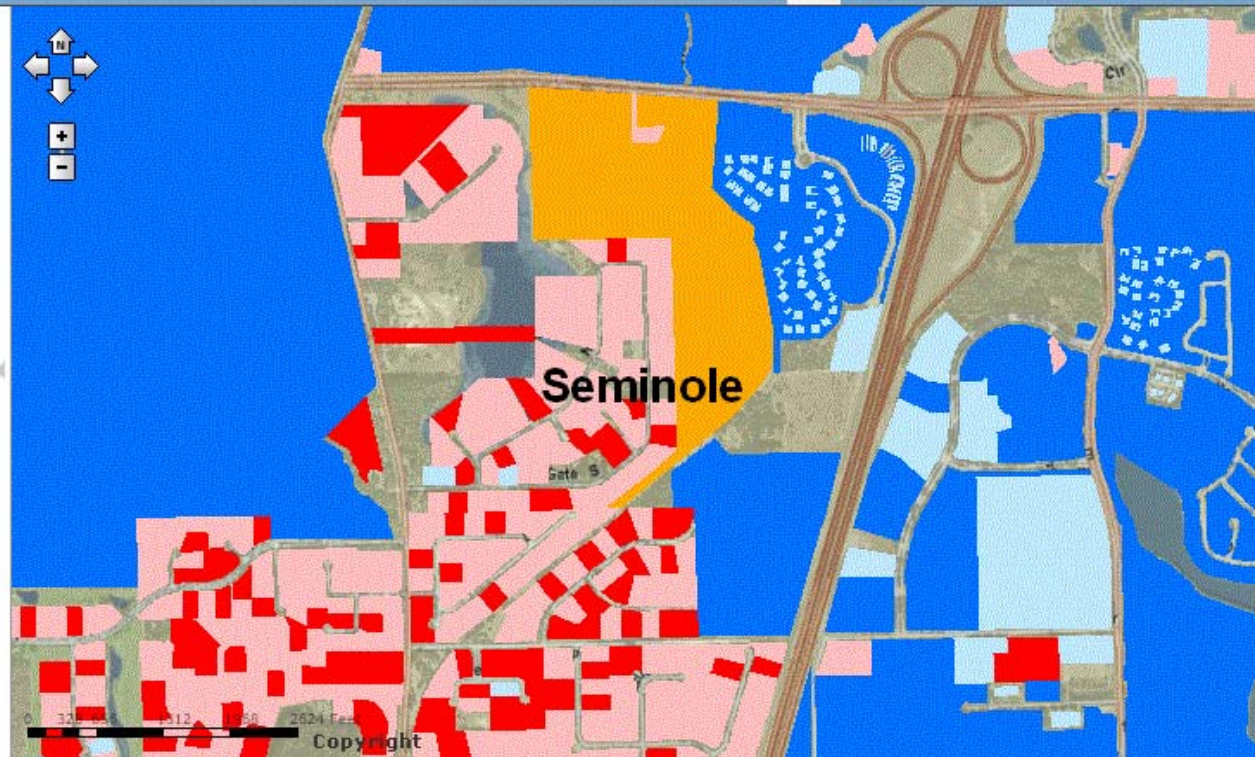
Contact | Help | FAQ

Print | Search Attributes

Results

Map Contents

- OSCEOLA
- PALM BEACH
- PASCO
- PINELLAS
- POLK
- PUTNAM
- SANTAROSA
- SARASOTA
- SEMINOLE
 - SEMINOLE Known Wastewater Method
 - SEMINOLE Developed -- Unknown
 - SEMINOLE Estimated Wastewater Method
 - Developed -- Not Estimated
 - Estimated Septic
 - Septic
 - Estimated Sewer
 - Sewer
- ST. JOHNS
- ST. LUCIE
- SUMTER





Continuation of Inventory

- EHD updating
- DOR updating
- DEP data update
- Letters to WWTP
- CHD's to resolve unknowns

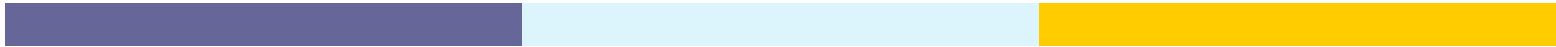


319 Project on Performance and Management of Advanced Onsite Systems

Purpose: Assess water quality protection by advanced OSTDS throughout Florida

Progress:

- Monroe County Project
 - Draft summary report being drafted
- Database
 - Mostly complete
 - 16,802 identified advanced systems in the state
 - Summary statistics to be developed
 - Description of technology used has been added (unsaturated fixed media, combined media, extended aeration)



Technology Approach	Manufacturer	Product	Aeration_sub type	Product sample	suptype sample	Approach sample
Combined	Bio-Microbics	FAST	Diffuser	35	35	70
	Jet	Jet	Aspirator	35	35	
Extended aeration	Acquired Wastewater Technologies	Alliance	Diffuser	2	35	70
	Ecological Tanks, Inc.	Aqua Aire	Diffuser	2		
	Ecological Tanks, Inc.	Aqua Safe	Diffuser	2		
	Aqua-Klear	Aqua-Klear	Diffuser	4		
	American Wastewater	B.E.S.T. 1	Diffuser	3		
	Acquired Wastewater Technologies	Cajun Aire	Diffuser	3		
	Clearstream	Clearstream	Diffuser	3		
	Delta	DF or UC	Diffuser	3		
	Hoot	Hoot	Diffuser	4		
	Hydro-Action	Hydro-Action	Diffuser	2		
	H.E. McGrew	Mighty Mac	Diffuser	3		
	Consolidated	Nayadic	Diffuser	4		
	Consolidated	Multi-Flo	Aspirator	15	35	
	Consolidated	Enviro-Guard	Aspirator	3		
	Norweco	Singular	Aspirator	17		
Fixed media	Orenco	AdvanTex		6		70
	Quanics	Aerocell		4		
	Quanics	Biocoir		4		
	Premier Tech	EcoFlo		9		
	EcoPure	EcoPure		8		
	Earthtek	EnviroFilter		14		
	Klargester	Klargester		2		
	Rotodisk	Rotodisk		3		
	Ruck	Ruck		7		
	NoMound	NoMound		8		
Sandfilter	Sandfilter		5			



319 Project on Performance and Management of Advanced Onsite Systems

Progress cont. :

- Surveys of interest groups
 - Surveys have been finalized and mailed to interest groups
 - Approximately 1,000 of 3,800 surveys sent to users were returned as undeliverable, almost all were resent to owner's mailing address
- Sampling
 - QAPP is being finalized
 - Contract with lab has been executed
 - Permit file reviews are ongoing
- Management Practices
 - Evaluation tool being developed to evaluate CHD's

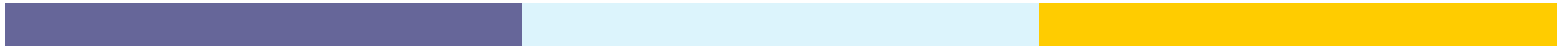


Alternative Drainfield Products

Problem statement: Since approximately 2004 alternative drainfield products are installed at rates higher than aggregate. System field longevity and effectiveness of minimum drainfield size are untested. Availability of data is limited.

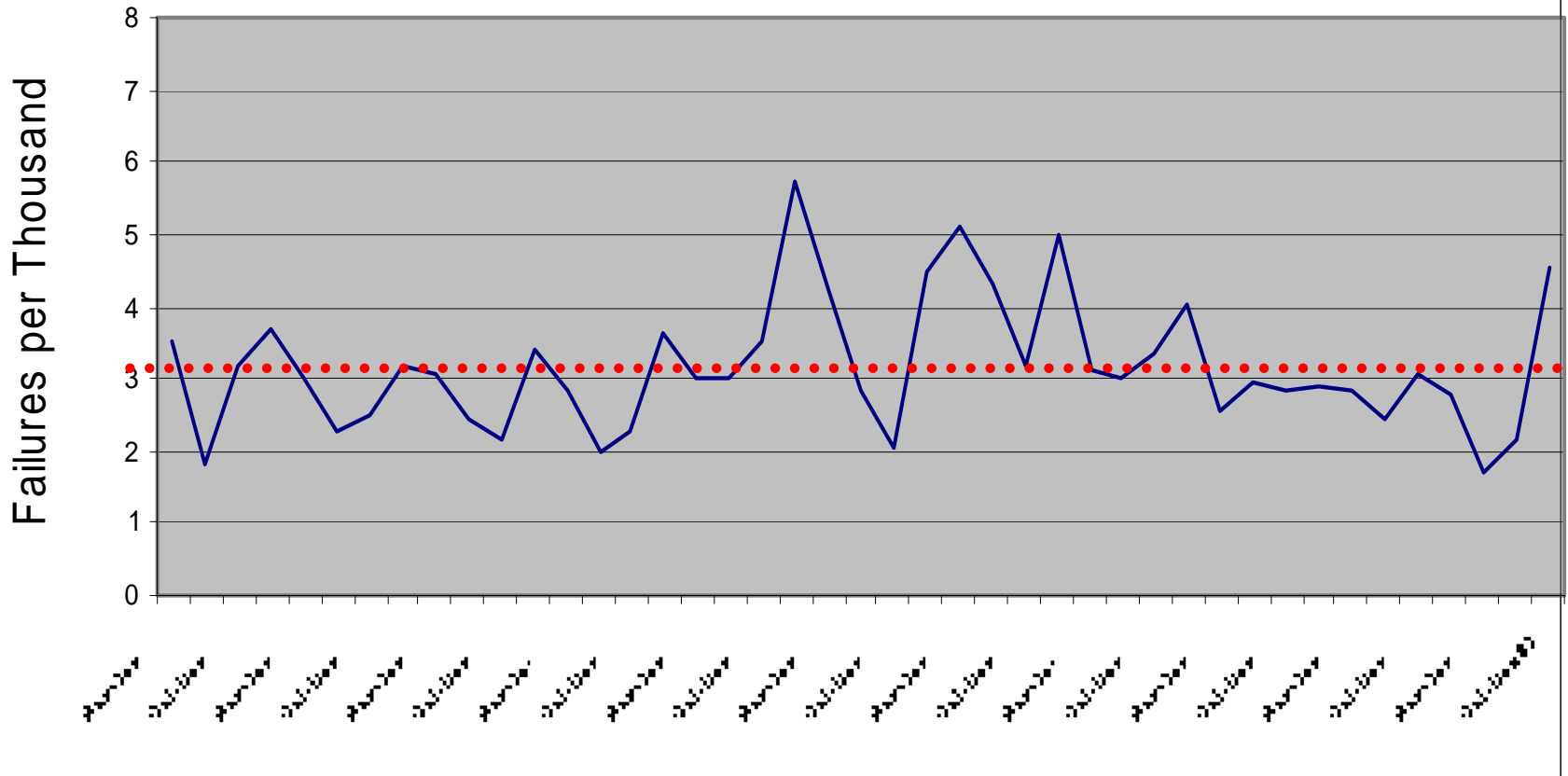
Proposed scope of work:

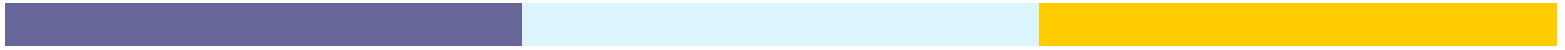
1. Evaluate existing data (cost will be staff time)
2. Create an advisory group with product manufacturers, contractors, and CHD
3. Fill in blanks from data evaluation by doing detailed surveys on repairs utilizing contractors and CHD staff



Failures per 1000 Systems Installed in Previous Two Years

Goal: <3





Research Budget

For fiscal year 2009 - 2010:



B9 Onsite Sewage Research Budget Request

2010 - 2011 Fiscal Year

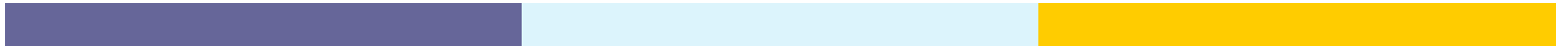
Salaries	\$ 60,000
Expense	\$ 25,000
Contracted Services	
a) Alternative Drainfield Product Assessment	\$ 40,000
b) Inventory Phase II	\$100,000
c) Columbia County River Front Survey	\$ 5,000
d) Other	\$ 30,000
Subtotal	\$175,000
Total	\$260,000



Grants and Appropriations Onsite Sewage Research Budget Request

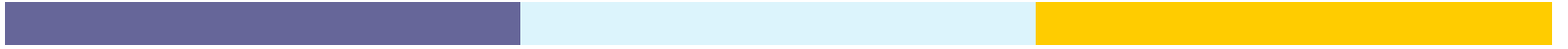
2009 - 2010 Fiscal Year

319 Advanced Systems		\$221,490.20
a) Travel	\$50,711.08	
b) Expense	\$3,359.59	
c) Contracted Services		
FSU	\$7,375.50	
Niteline Contract Employee	\$27,119.03	
Lab (Sampling)	\$127,925.00	
Public Education	\$5,000.00	
Nitrogen Study		\$2,000,000.00
a) Expense	\$50,000	
b) Contracted Services		
Hazen & Sawyer	\$1,949,000.00	
F.A.C.	\$1,000.00	
Total for all projects		\$2,221,490.20



Election of Chairman and Vice-Chairman

- Recommendation of nominees
- Vote



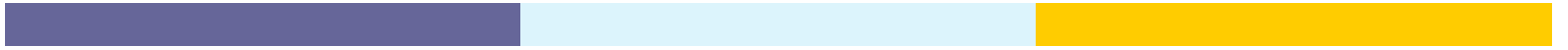
Other Business



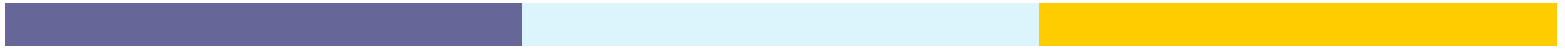
Pollution Prevention Grant Proposal

Grease Sludge Waste in Establishments on Onsite Sewage Treatment and Disposal Systems Generating Commercial Strength Sewage Waste

- **Objective:** Develop and verify best management practices for grease reduction and reuse in facilities generating commercial strength sewage waste
- Grant proposal submitted on April 5, 2010
- EPA should make decision in July



Public Comment



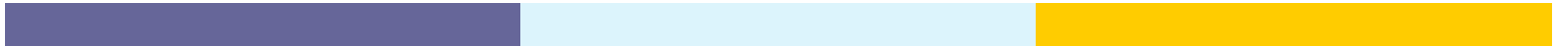
Next Meeting

Upcoming meeting topics:

- RRAC Priorities
- Inventory study phase II discussion
- Alternative drainfield products discussion

Proposed dates for next meeting:

- Suggestions?



Closing Comments and Adjournment