



Business Plan – Division of Environmental Health - Florida Department of Health

Mission: “Promote and Protect Health”

Vision: “Healthier Floridians”

Goal: To prevent disease of environmental origin **BUREAU OF ONSITE SEWAGE PROGRAMS**

Trends and Conditions:

Nearly one-third of Florida’s population is served by individual onsite sewage treatment and disposal systems, primarily septic tanks. Over 2.5 million onsite systems are in use within the state. Approximately 50,000 new systems were installed in the State last year, 16,000 repairs of failing systems were conducted and 4,500 existing and modification of systems were conducted.. It is estimated that OSTDS discharge over 450 million gallons per day in Florida. These systems provide a safe and economical means of wastewater disposal when properly constructed and maintained. However, improper use and maintenance of these systems can result in unsanitary conditions and contaminated drinking water and recreational waters. Since groundwater is the source of drinking water for 90% of Florida residents, protection of the ground water including the surface water is one of the department’s primary missions.

Division Cost: \$1,455,340*
Division Positions: 17.5**
County Program Cost: \$29,449,944
County Positions: 513.9

* Except for 1 GR FTE the bureau is funded through a trust fund supported by fees collected on permits and contractor licensing.

** Bureau funds 1 FTE for Community Health – Certification Program and 0.5 FTE Suwannee River 2nd Level Review administrative support.

One of the department’s performance indicator measures is to, assist the CHD’s in achieving and maintaining a septic tank failure rate to 3.0 per 1000 systems within 2 years of installation. This failure rate could be described as an early system failure rate or system performance rate. This is required to be reported to the Secretary of the Department of Health on a quarterly basis for the Quarterly Performance Review. The rate is determined by taking the number of system repair permits issued within two years of installation in a specific year or quarter and dividing it by the total number of repair permits installed in the most recent 2-year period. Current data for the 2005 – 2006 CFY shows that statewide, 3.58 systems out of every 1,000 failed within two years of installation. On an annual basis the CFY rate has decreased from last year (3.98 – 3.58). Quarterly data as of July – Sept 2006 is 3.11 and shows a decrease. Increases normally occur during the holiday season and failures could be attributable to seasonal factors. To address pre-mature failures the Bureau has incorporated a pre-mature failure analysis inspection to be conducted in conjunction with the pre-mature failure repair to capture important information about the system to help and reveal the cause of the failure.

The Bureau continues to provide an updated Intranet and Internet site to the public and county health department personnel to make the rules, laws, procedures and policy interpretations available. The Internet site has been expanded to include statistical data for OSTDS’s installed and locations of septage land application sites, and facilities with managed operating permits. The Bureau provides educational training sessions around the State to county health department personal and to the public and professional organizations to provide information of the changes and importance of the onsite program in Florida. In an effort to be effective at communication and education, the Bureau provides rule interpretations, technical assistance, mediation of complaints, disputes and assistance in the field if necessary to the CHD’s, licensed septic tank contractors, plumbers, engineers, the public and other associated with the program. This is primarily conducted by the four regional program consultants in their four geographic regions around the State. Technical and administrative support is provided to the county health departments due to the program. Assistance is normally given by email or phone within the same day requested and site visits conducted within 5 business days depending on the severity of the situation.

Program quality assurance evaluations of county health department, environmental health onsite programs, are conducted on a three-year cycle around the State. In 2006, the Bureau initiated the first year of another cycle. A total of 24 program evaluations were completed and two of these



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were evaluations that were not completed the previous years due to the hurricanes. The overall score of the program evaluations conducted for the first cycle was 87% with only one of the counties scoring below the performance standard of 70%. The most previous year of program evaluations conducted in 2004 represented an overall score of 89%. Since the current tool has been refined and is stricter in specific area's it can not be directly related but overall we could say that similar scores were represented. similar scores.. Due to the hurricanes in 2004, the year 2005 was a catch up year. The evaluation procedure consists of a review of the records, field assessment, implementation of improvement recommendations from previous evaluations, and administrative protocols. The purpose of the evaluations is to provide uniformity of the program around the State, assist program managers in recognizing the strengths and weaknesses of their OSTDS program and to provide recommendations to improve the program and thereby better protect the public's health. Our program has also been used as a model. The North Carolina Department of Environment, Division of Environmental Health, Onsite section office visited our office a few years ago to review our program evaluation tool and have implemented a similar tool. We also presented our program evaluation tool at the Southeastern States meeting in Orlando in 2003 and the other States were amazed at our programs.

To fill the need for training and certification of new employees, the Bureau provides a formalized certification-training program under a contract with the Florida Onsite Wastewater Association that all OSTDS program staff must successfully complete within 6 months of employment. In addition to State employees attending these trainings, a certain percentage of those attending are septic tank contractors seeking septic tank contractor licensing, master septic tank contractors seeking licensing and private individuals seeking certification to conduct site evaluations for onsite systems where permitted by the law. The training is provided in a hands-on training center located in Polk City, Florida. There are three basic courses that comprise the week long session and include; Florida Basic Soils for Environmental Health, Onsite Wastewater System Design and System Materials Construction / Inspection Standards and Regulatory Requirements. In 2006, five one week long accelerated training sessions were held and a total of 341 employees were in attendance (276 in 2005). An additional training session was added in 2006 due to the demand for the course. In addition, 14 advanced training courses were held with 69 employees in attendance. A total of 214 non DOH participants were in attendance.

The department has a continuing research program to evaluate the impact of onsite systems and study improvements in technology. In mid 2006 the Bureau re-filled the research position following some staffing changes. A Research Review and Advisory Committee (RRAC), composed of representatives of interest groups, advises the Bureau on research priorities, comments on research reports and assists in selecting contractors for research projects. Bureau staff presents research results at various meetings around the State and sometimes at the national level. A paper authored by Eberhard Roeder and William Brookman from Monroe CHD on the analysis of effluent concentrations of ATU's has been accepted for publication by the Journal of Environmental Health. A presentation on the results of the Karst Study has been scheduled at the National Onsite Wastewater Recycling Association (NOWRA) annual conference. In addition presentations were made by Bureau staff at the Florida Environmental Health Association (FEHA) annual educational conference in 2006.

Wastewater contains pollutants, nutrients, such as disease-causing organisms or pathogens (bacteria and viruses),and oxygen-consuming material. The nutrients nitrogen and phosphorus can be harmful to surface waters because they cause algae blooms, which reduce oxygen in surface waters,



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and can kill off fish and other organisms. Nutrients and bacterial pathogen indicators are currently receiving the most attention by the research program.

A research study on Manatee Springs State Park completed in 2004 has revealed elevated levels of, in particular, nitrate, due to onsite systems traveling quickly through karst to monitoring wells. Nutrient removal requires generally the use of Performance-Based Treatment Systems (PBTs), which Florida Statutes authorized in 1996. A second phase of the Manatee Springs study, funded by EPA, has begun to retrofit the existing systems to achieve nutrient removal and monitor the changes in groundwater concentrations resulting from this improvement in treatment. Additional research projects to review nutrient reduction and performance of onsite systems are under development. This direction of research has become more pressing as local and state efforts to protect water quality, in particular in springs, increase and require answers about how to manage onsite sewage sources of contamination by nutrients. The 2006 legislature tasked DOH with such a study of nitrogen contributions by onsite systems and their management for the Wekiva Study Area.

An additional area of interest concerns the contribution of onsite systems to observed water quality problems. A project in this area is continuing in Taylor County, funded by a grant from EPA's Gulf of Mexico Program. Following work by the CHD in 2004/2005, Florida Atlantic University is measuring nutrients, pathogen indicators and selected tracers at undeveloped and developed (some sewer, some with onsite systems) locations. EPA's Gulf of Mexico Program also funded a study to develop a remote sensing technique for wastewater impacts on surface water, which will be implemented in cooperation with FDEP and Mote Marine Laboratory.

Water Quality Initiatives in the State of Florida, such as the Governor's Springs Initiative, spring protection efforts in several counties, and DEP's total maximum daily load program (TMDL) have shown continued interest in obtaining DOH's perspective on water quality issues and the role of onsite sewage systems in addressing problems. Bureau staff provided information in a variety of formats related to springs protection at Ichetucknee, Jackson Blue, Manatee, Silver, Wakulla, and Wekiva Springs.

During the 2004 legislation the Wekiva Protection Act passed (Senate Bill 1214). The major provisions of the Wekiva Act included; creating the Wekiva Study Area, authorizing construction of the Wekiva Parkway, creating the Wekiva River Basin Commission, requiring studies and possible rulemaking by DEP, SJRWMD, DOH and DOACS, and establishing other local government responsibilities. The department was required to report to the legislature on December, 2004 and initiate rule language if necessary by March 2005 as listed in 369.318, FS. The report was completed and rule language has been initiated with several modifications due to public and industry input.

The Wekiva River Basin ecosystem has been recognized as a valuable natural resource in the State and has been designated by the National Parks Service as a Wild and Scenic River, by Florida as a Wild and Scenic River, an Outstanding Florida Waterway, and a Florida Aquatic Reserve. The Wekiva River is a spring fed system with 19 springs connected to the Floridian Aquifer. A total of 11 of these are known to be second and third magnitude springs. Some of these springs are; Wekiva Springs, Rock Springs, Sanlando Springs, Starbuck Springs and Seminole Springs. The Wekiva Study area was delineated by the Wekiva River Basin Coordinating Committee in August 2003. This area is larger than the Wekiva River



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Basin and Protection Area and was included as land area that contributes surface and groundwater to the Wekiva River system. The Wekiva Study area includes parts of Orange, Seminole and Lake Counties located in Central Florida. . The study area contains over 58, 000 existing onsite sewage treatment and disposal systems according to data from the counties.

Due to the sensitive area and future growth, the primary focus of the report was the addition of nitrogen to the environment from onsite systems. To protect the environmental quality of the natural springs in the area, nitrogen must be kept from entering into the groundwater and aquifer. If nitrogen pollution of the groundwater occurs, then excessive algae growth in the springs and rivers of the area would result. This would be disruptive to the natural ecology of the springs and waterways. Reports from the Department of Environmental Protection (DEP) and the St. John’s River Water Management District (SJRWMD) have demonstrated the declining quality of the springs.

The study completed by the department looked at research conducted by the department and research conducted by DEP and SJRWMD. In the study, the department set nitrogen limits at 10 mg/l, the EPA groundwater drinking standard, similar to that in the Keys.

Septic System additives are substances added in small amounts to improve, protect, or otherwise alter performance. In Florida, no product sold in the state for use in onsite sewage treatment and disposal systems may contain any substance in concentrations or amounts that would interfere with or prevent the successful operation of such systems, or that would cause discharges from such systems to violate applicable water quality standards, 381.0065(4) (m), Florida statutes. In 2000, the Department published criteria for the evaluation of all products sold or used in onsite sewage treatment and disposal systems, 64E-6.0151, Florida Administrative Code for determination that the use of such products would not cause discharges that would violate water quality standards in protection of the groundwater and surface waters of the state.

From March of 2000 until January of 2007, the Department has reviewed 161 products for compliance with minimum water quality standards established by the state. It is important to stress that the Department’s compliance determination is not an endorsement or approval with respect to the benefit, effectiveness, or performance of the system additive. The department has a published list of 58 products in compliance with law or rule. Products not listed are not allowed for use in onsite sewage treatment and disposal systems in the state. The Florida Department of Health assumes no liability for any promise, guarantee or expectation from the purchase or use of any additive. The department reserves the right to withdraw acceptance if the product formulation or ingredients are modified after the product is evaluated by the Department or subsequently found not to be in compliance with law or rule. The department has been 100% successful in the enforcement aspect of this rule. Consumer information is provided in our internet site and articles have been placed in the Florida Onsite Wastewater Association (FOWA) Journal.

As a part of the Bureau's overall septic tank contracting licensing program and vital to its success, the bureau coordinates statewide enforcement on unlawful septic tank contracting activities and offers a portal to the department for citizens of the State, the onsite industry and others, to report unlawful septic tank contracting activities through its 1-800 toll-free complaint line. In addition the Bureau logs and coordinates complaints received via email, regular telephone and fax lines. The toll-free complaint line was established in 1999 and since the inception of the program through June 2006, a total of 836 complaints have been received. Of those, a total of 472 complaints were substantiated or determined to be valid and resulted



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in over \$197,000 in collected fines. Unlawful septic tank contracting complaints are entered in the Bureau's enforcement database and an email investigation request is forwarded to the environmental health director at the county health department of jurisdiction. The investigation request is also forwarded to the county health department's legal counsel. If the complaint is determined to be valid or substantiated, then the county health department in consultation with the Bureau and with the assistance of their legal counsel proceeds with the appropriate enforcement action and reporting requirements. The onsite sewage program is a regulatory program that cannot exist without its enforcement function. The goal of all regulatory programs is compliance and self discipline is what is hoped for. However, to achieve compliance, regulatory programs must clearly outline and effectively implement their enforcement component.

Continuing education of Florida registered septic tank contractors is not only a statutory requirement but a vital aspect of the Florida's Onsite Sewage Program. Since the inception of the registration/licensing program for septic tank contractors, the education level of Florida septic tank contractors has increased dramatically. Over the past 6 years, a total of 158 continuing education courses have been reviewed and approved by the Bureau. In addition, the Bureau has approved and listed 7 course providers with over 400 qualified course instructors. The ongoing educational efforts by Florida's onsite industry and the Department's Bureau of Onsite Sewage Programs have resulted in one of the nations top educational programs for onsite sewage treatment and disposal system contractors. These efforts are often recognized by other states and national organizations such as the National Onsite Wastewater Association (NOWRA), who frequently look to Florida's educational program as an example for the development of their own national and state educational programs. To best protect public and environmental health, the goal of a regulatory program, such as Florida's Onsite Sewage Program, is compliance and self discipline. These goals are best achieved when the body of our State's registered septic tank contractors is provided and receives the best possible technical, managerial and professional safety education. Continuing education is a critical component of Florida's Onsite Sewage Program and is the key to the program's improvements and continued efforts to protect Florida's public health and environment.

The septic tank contractor registration program in Florida is a statutory requirement implemented to bring professionalism and enforcement to the industry. The program includes 715 registered septic tank contractors, 79 which are master septic tank contractors, and 549 authorized septic tank contracting businesses. Florida's septic tank contractor registration program has is one of the most successful registration programs in the nation with numerous states contacting the Bureau with questions concerning the registration of septic tank contractors. Many of these states use Florida's program as a model to begin implementing registration programs of their own. The program ensures all individuals becoming septic tank contractors in this state have the required minimal experience needed to possibly become a productive septic tank contractor. In addition, the program ensures all registered and master septic tank contractors receive the required continuing education each year to renew their individual registrations.



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Short Term Objectives

By 2007:

- Begin to track and analyze pre-mature failures
- Continue to track and monitor days to issue repairs and new systems
- Review and track testing requirements for IM/Commercial facilities
- Evaluate data to determine that land application sites in Okeechobee watershed do not exceed P level of 350ppb
- Begin second year of the 3 year program evaluation cycle and conduct 1/3 of the county evaluations
- Give a summary of the program evaluations for the last cycle at the Environmental Health Director's Meeting
- Conduct 5, one week long accelerated training sessions to new employees and others at the FOWA Training Center
- Contract with FOWA to provide 3 one day advanced training courses offered 4 times in the contract year
- Continue to provide various trainings around the State when need and post memo's and listings on the internet
- Continue to process and review applications for continuing education courses
- Continue to process and review applications for new contractors and for business authorizations
- Continue to give exams for new contractors in the Orlando and Tallahassee office on a monthly basis when needed
- Continue to provide technical support and assisting to the county health departments
- Continue to track complaints and manage 1-800 complaint line for contractor violations
- Continue to process variance applications and conduct variance meetings monthly
- Provide a review of the variances at the Environmental Health Directors meeting
- Continue to schedule and coordinate TRAP meetings on a quarterly basis
- Complete Rule language for the Wekiva Study Area
- Update the EH Technical Manual to incorporate past memos
- Continue to meet with the RRAC at least twice a year to review ongoing and new research projects
- Contract and Conduct Wekiva Onsite Nitrogen Contribution Study in coordination with RRAC
- Continue research studies in progress such as Phase II Research of the Manatee Springs Karst Study, the Taylor County Coastal Water Quality Study, and Remote Sensing of Wastewater Impacts
- Develop and implement further studies in support of the program on performance and impacts of onsite system, such as Keys nutrient reduction assessment and the Florida alternative disposal system study.
- Continue to process and review applications for treatment receptacles, innovative systems, alternative systems and review PBTS.
- Continue to process and review applications for additives
- Market the efforts of the Bureau through the intranet, internet, and distribution of brochures
- Provide coordination with partners at the FEHA educational conference, joint meetings with EPA, DEP, and others
- Begin to be present at regional CHD Director's Meetings



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- Initiate regional consistency meetings for Onsite protocols and inspection procedures
- Initiate or support language or legislation for a maintenance inspection and pumping throughout the State
- Initiate or support language or legislation for inspections of onsite systems at the time of real estate transactions

Long Term Objectives

By January 1, 2008

- Have soil scientist on staff
- Initiate language or legislation to require existing systems review at time of real estate transaction or home sell
- Model Maintenance and Management program for Wekiva Study Area
- Revise innovative/ alternative system approval process to reflect the changing relationship between NSF and ETV
- Develop standard operating procedure for the evaluation of ATU and PBTS performance
- Bring back the right to look at cumulative impacts?
- Changes in reporting requirements or how they report?
- Model program certification or national recognition

By January 1, 2009:

- Definition of a menu of onsite sewage best management practices that provide guidance for a range of environmental conditions and contaminant concerns.
- Begin online permit renewal for contractor registration renewals (paperless)
- Begin implementation of online permitting for all operating permits
- Begin implementation to upgrade all onsite systems to a common modern standard
- Maintain all systems by schedule and to an upgraded common modern standard

Measure #1: Monitor individual sewage systems to ensure adequate design and proper function and to prevent environmental contamination of the ground and surface waters with a failure rate of 3.0 per 1000 or less within 2 years of installation and nutrient reducing systems meeting 10, 10, 10, 1 mg/l for contaminant levels.

Division Strategic Plan	Strategy (Program level)	Benchmark	Responsible Party	Target Date (up to 18 months)	Status (What is happening now)
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Use Our Data	<p><i>Information and Analysis</i> Review the statewide Centrax Quarterly Performance Reports to determine if the benchmark has been obtained.</p>	A failure rate of 3.0 per 1000 or less within 2 years of installation	Dale Holcomb Mark HooksEd Barranco	Ongoing	State average for 2005 – 2006 CFY is 3.58 within 2 years of installation. The July – Sept quarter of 2006 indicated a rate of 3.11, (CFY 2004 – 2005 was 3.98) This is recorded in the Secretary’s Performance Report. (The CFY is Oct 1– Sept 30)
	<ul style="list-style-type: none"> Review Annual Centrax reports to monitor the cumulative rate of failures in the CHD’s 	Failure rates are being monitored quarterly though a review of the Centrax Data	Dale Holcomb	Ongoing.	Centrax reports are being reviewed on an quarterly basis
	<ul style="list-style-type: none"> Provide feedback to the target counties concerning failure rates greater than 3.0 per 1000. 	Feedback is provided to CHD’s on an annual basis	Dale Holcomb Kim Duffek	Ongoing	Feedback is provided to the CHD’s. A Pre-Mature Failure Analysis protocol was created in which the CHD’s are recording data and implemented in Sept 2006. The data is being collected and analyzed to show more specific trends and causes of failures. Emails are sent the CHD’s that exceed the failure rate and asked to provide a justification
	<ul style="list-style-type: none"> Include a session at the annual EHD meeting in achieving the required, failure rate. 	A session on achieving the required failure rate is incorporated in the EHD annual training.	Dale Holcomb	August, 2007	Ongoing Will be conducted at next EHD meeting and on EHD conference calls on an occasional basis



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		<ul style="list-style-type: none"> Target CHD's that did not achieve the benchmark 	A failure rate of 3.0 per 1000 or less within 2 years of installation	Dale Holcomb Kim Duffek	Conducted on a quarterly basis. .	Specific data regarding the failures are being collected by the CHD's on a Pre-Mature Failure analysis form. Staff has been working with the Environmental Tracking program to devise an analysis protocol.
		<p><i>Process Management</i> Review monitoring reports from Managed Systems with Operating Permits to determine if reduction of nutrients and pathogens has been reduced to acceptable levels in the effluent stream.</p>	Nutrient reducing systems must meet a variety of site specific standards according to Part 4, of 64E-6, FAC..	Mark HooksEberhard Roeder Elke Ursin	Ongoing	Limited data is available.
		<ul style="list-style-type: none"> Review Nutrient Reducing Systems in the Keys 	Based on an average basis of equal to or less than; BOD5 10 mg/l, TSS 10 mg/l, N 10 mg/l and P 1 mg/l.	Elke Ursin Eberhard Roeder	June 30, 2007 – to implement the study and complete report with sampling results by August 2008.	There are approximately 367 PBTS in the Keys. Prepared solicitation document for in-depth analysis of a sampling of systems. Monroe CHD will implement the study. Right now we have selected a vendor to perform the sample analysis and the Monroe CHD is working on a contract between them and the vendor. The project itself is a two-year project (that started summer of 2006) so we anticipate sampling being started by June 30, 2007 but not necessarily completed.



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	<ul style="list-style-type: none"> Review Industrial Manufacturing Facilities throughout the State 	Hazardous waste must not be introduced into the system. Facilities with the potential to generate hazardous or toxic waste may require chemical sampling by the CHD's. Facilities are inspected on an annual basis by the CHD's.	Dale Holcomb	Ongoing	As of 2006 there are 5014 active operating permits. (As of Nov 2005 there were 4781 active IM operating permits). Complete inspection data is not available. Some of the CHD's are requiring testing. Overall rating is not available. Testing is determined by the type of business and is reviewed on an individual basis.
	<ul style="list-style-type: none"> Review Commercial Waste Facilities throughout the State 	Inspected on an annual basis by the CHD's and free from failure.	Mark Hooks Ed Barranco Dale Holcomb	Ongoing	As of 2006 there are 890 active operating permits. (In Nov 2004 there were 738 commercial operating permits in the State) We do not collect inspection data.
	<ul style="list-style-type: none"> Review Nutrient load reduction on Agricultural Use Plan / Landspread sites in the Lake Okeechobee Watershed Basin. This includes Glades, Hendry, Highlands, Martin, Okeechobee, Osceola, Palm Beach and St. Lucie Counties 	Phosphorus should not enter lake as long as amt of phosphorus does not exceed the amount needed by the crops grown on application site. (Inter Office Memo 03-005)	Dale Holcomb	October 1, 2007	DOH-regulated land application sites have been closed in all counties except Highlands. Highlands has 4 sites. Highlands will be communicating with the land appliers in the county and ensuring that all agricultural use plans for any remaining sites in the upcoming permit year will be phosphorous based.



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		<ul style="list-style-type: none"> Review Second Level Review Onsite Systems in River Floodplains that discharge into shellfish harvest areas – Taylor, Madison, Hamilton, Columbia, Suwannee, Lafayette, Gilchrist, Union, Alachua, Dixie and Levy Counties. 	Review OSTDS applications that are in the floodplains of the Aucilla and Suwannee River for compliance with rule	Paul Booher Mark Lander (In 2005 – 2006 this was staffed by Joyce Massie)	Meetings conducted on a bi-monthly basis and staffed by Joyce Massie	In 2005 – 2006 a total of 116 applications were reviewed including, 81 new systems, 23 repair applications and 12 existing systems. (2004 – 2005 a total of 101 applications were reviewed including 77 new systems, 10 repairs applications and 14 existing systems).
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Measure #2: Monitor and provide quality assurance programs and activities for CHD’s on a minimum triennial basis to ensure that overall scores and major components and program components are at 70% or above.

Division Strategic Plan	Strategy (Program level)	Benchmark	Responsible Party	Target Date (up to 18 months)	Status (What is happening now)
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Be The Best Communicators and Educators	<p><i>Information and Analysis</i> Target CHD's that scored overall scores 70% or below.</p>	Listed in strategy.	Mark HooksEd Barranco	Ongoing	<p>In 2006, a total of 22 program evaluations were completed. Only one county had a score less than 70%. Two additional program evaluations were not completed in the previously cycle due to the hurricanes were completed also.</p> <p>(In 2005, the program evaluations were delayed due to hurricanes in 2004 and catch up was conducted with 7 program evaluations completed.</p>
	<ul style="list-style-type: none"> Review evaluation reports for individual counties to monitor the scores 	CHD's must submit a corrective action plan within 30 days of the final report	D. Hammonds Sonia Cruz Bart Harriss Kim Duffek	Ongoing	Currently being conducted
	<ul style="list-style-type: none"> Provide feedback to the EH Directors 	Presentation annually at EHD meeting and an annual Informational Memo	Mark HooksEd Barranco Brad Croft	August 2007, EHD Meeting and EHD Conference calls	A summary of the 2006 program evaluations has not been conducted at this time.



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		<p><i>Process Management</i> Target CHD's that did not achieve a minimum of 70% in general program components</p>	Listed in Strategy.	Mark Hooks Ed Barranco	Ongoing	<p>In 2006, 11 of the 22 program evaluations conducted scored below 70% in at least one program component.</p> <p>(For program evaluations scheduled for 2004, in the previous cycle, some were conducted in 2005 and 2006, 11 of the 21 scored below 70% in at least one program component.)</p>
		<ul style="list-style-type: none"> Review evaluation reports for individual counties to monitor the scores 	<p>A re-evaluation will be conducted within one year on all CHD's with an overall score below 70% and a score of less than 70% in any of the major program areas, to verify that the improvements have been made. A 6-month follow up status report will be required for all counties with scores of 70% or below in a program component.</p>	<p>David Hammonds Brad Croft Kim Duffek Sonia Cruz Bart Harriss</p>	Ongoing	<p>In 2006 one county received a score less than 70%. A follow up evaluation has not yet been scheduled. Of the 11 program evaluations that scored 70% or below in a program component follow up reports have been provided as of January 2007.</p> <p>(In the 2004 cycle none of the counties received an overall score less than 70%)</p>
		<ul style="list-style-type: none"> Schedule a session to address deficiencies and improvements made with the CHD EH Directors and CHD Director/Administrator 	<p>An exit interview session is scheduled after the re-evaluation</p>	<p>D. Hammonds Sonia Cruz Bart Harriss Kim Duffek</p>	Ongoing	<p>Exit Interviews are currently conducted on a regular basis for all counties at the conclusion of the program evaluation to discuss results of the evaluation and to propose performance improvements.</p>



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Measure #3: Provide a minimum of 4 certification training sessions per year and a minimum of 12 advanced continuing education courses per year.

Division Strategic Plan	Strategy (Program level)	Benchmark	Responsible Party	Target Date (up to 18 months)	Status (What is happening now)
Promote and Support Training and Innovation	<p><i>Customer and Market Focus</i> Ensure that adequate training is provided for employees for certification and continuing education requirements</p>	As listed in strategy	Mark Hooks Ed Barranco Ed Barranco David Hammonds Sonia Cruz	Ongoing	Currently being provided.
	<ul style="list-style-type: none"> Provide 30 hours of required Accelerated Certification Training quarterly to new employees, consisting of soils, system design and system material and construction. 	Provided by contract at the FOWA training center in Polk City, Florida with an annual contract.	Sonia Cruz Mark Hooks David Hammonds Bart Harriss Bob Kuhn Glenn Ed Barranco	April 9 – 13, 2007 June 18 – 22, 2007 August 20 – 24, 2007 October 8 – 12, 2007 Dec 10 – 14, 2007 Feb 19 – 22, 2008	<p>In 2006, 5 sessions were conducted with 341 employees attending. An additional session was scheduled due to the demand. In addition, 148 non-DOH employees attended.</p> <p>(In 2005, 4 sessions were held with 278 employees attending training).</p>



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	<ul style="list-style-type: none"> Provide 3 different one-day advanced training courses offered four times per contract year available to all OSTDS CHD staff. A total of 12 courses. 	<p>Provided by contract at the Florida Onsite Wastewater Association (FOWA) training center in Polk City, Florida.</p>	<p>Dr. Sonia Cruz</p>		<p>In 2006, 14 courses were scheduled (one of these was cancelled), 5 different topics, with 69 employees attending. A total of 214 non DOH employees attended the trainings.</p> <p>(In 2005, 12 courses have been offered, 4 different topics with 139 students attending).</p>
	<ul style="list-style-type: none"> Provide additional training courses to OSTDS CHD staff various times per year 	<p>Provided around the State at various locations and at conferences and meetings</p>	<p>All Staff</p>	<p>Ongoing</p>	<p>Rule reviews, trainings on Soils, OSTDS issues and other subjects have been conducted around the State</p> <p>In 2006, 12 additional courses have been provided by FOWA with 36 employees attending. In 2005, 8 additional course were provided by FOWA with 64 employees attending.</p>
	<ul style="list-style-type: none"> Provide training updates on a regular basis to update CHD staff and the public 	<p>Provided at various locations around the State and is listed on the internet</p>	<p>All Staff</p>	<p>Ongoing</p>	<p>Currently being provided at various conferences around the state and nation. In 2006 and rule updates were provided at FEHA and FOWA meetings around the state on EHD Director’s meetings and conference calls.</p>
	<ul style="list-style-type: none"> Provide rule and policy interpretations to CHD staff 	<p>Memo’s and listings posted on the internet</p>	<p>Bob KuhnKara Loewe</p>	<p>Ongoing</p>	<p>Currently being provided on a regular basis</p>



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		<p><i>Customer and Market Focus</i> Process applications for continuing education course approvals</p>	<p>Qualification for new and existing course providers must be reviewed to comply with current rules</p>	<p>Ed Barranco</p>	<p>Currently Being Conducted</p>	<p>Currently being conducted.</p>
		<ul style="list-style-type: none"> Applications are processed according to Chapter 120 FS. 	<p>Applications shall be reviewed and follow the July 2003, Policy on Requirements for Continuing Education Courses and Course Providers.</p>	<p>Ed Barranco</p>	<p>Currently Being Conducted.</p>	<p>In 2006, the department has reviewed and approved 33 courses.</p> <p>(In 2005 department has reviewed and approved 24 courses.)</p>

Measure # 4: Provide administrative and technical support to the County Health Departments to help them effectively deliver quality services by contacting them once per quarter, respond to requests for technical assistance, provide rule interpretations and mediate disputes or complaints within 2 work days. .

Division Strategic	Strategy (Program	Benchmark	Responsible	Target Date (up	Status (What is
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Plan	level)		Party	to 18 months)	happening now)
Be The Best Communicators and Educators	<i>Process Management</i> Provide administrative and technical support to the county health departments	As stated in strategy	Mark Hooks Ed Barranco	Ongoing	Currently being conducted All of the items below are provided on a daily basis by the Bureau staff.
	<ul style="list-style-type: none"> Provide rule interpretations, technical assistance, mediation of complaints, disputes and assistance in the field if necessary 	Ensure assistance is given by email or telephone within 2 business days. If site visit conducted ensure it has been conducted within 5 business days of request and report with recommendations given within 2 business days	David Hammonds Kim Duffek Sonia Cruz Bart Harriss	Ongoing	Currently being conducted (complaint mediators; Bart Harriss, Dr. Sonia Cruz, Brad Kim Duffek and David Hammonds are assigned to 4 Geographic regions in the State)
	<ul style="list-style-type: none"> Ensure that all counties have been contacted at least once per quarter by mediator. 	As stated in strategy	David Hammonds Brad Croft Kim Duffek Sonia Cruz Bart Harriss	Ongoing	Ongoing
Be The Best Communicators and Educators	<i>Customer and Market Focus</i> Provide technical support mediation of disputes to the public, building industry, septic tank contracting industry, engineering industry and others.	As stated in strategy	David Hammonds Brad Croft Kim Duffek Sonia Cruz Bart Harriss And all staff.	Ongoing	Currently being conducted



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		<ul style="list-style-type: none"> Provide rule interpretations, technical assistance and mediation of complaints and disputes and assistance in the field if necessary. 	Ensure assistance is given by email or telephone within 2 business days. If site visit conducted ensure it has been conducted within 5 business days of request and report with recommendations given within 2 business days	David Hammonds Brad Croft Kim Duffek Sonia Cruz Bart Harriss	Ongoing	Currently being conducted.

Measure # 5: Ensure the time to issue new permits statewide and by individual counties is 8 working days or less and 2 days or less for repairs

HP 2010 Objective	Strategy (Program level)	Benchmark	Responsible Party	Target Date (up to 18 months)	Status (What is happening now)
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23-11	(Developmental) Increase the proportion of State and local public health agencies that meet national performance standards for essential public health services.	<p><i>Information and Analysis</i> Review the statewide Centrax Quarterly Performance Reports to determine if the benchmark has been obtained.</p>	Permits are processed in 8 working days for new systems and 2 working days for repairs	Dale Holcomb	Ongoing	<p>This is currently recorded in the Secretaries Performance Report for new systems statewide.</p> <p>For CFY 2005 – 2006 new is at 9.10 working days and repairs are at 2.25 working days. Also 49, 514 new systems were installed and 15,993 repairs - SFY.</p> <p>(The prior CFY 2004 – 2005, was 7.60 for new and 3.05 for repairs. Also 45,874 new systems were installed and 16, 834 repairs – SFY.)</p> <p>In the July – Sept 2006 quarter, working days to issue new systems was 6.95 days and repairs were 1.71 days.</p>
		<ul style="list-style-type: none"> Review the CHD Quarterly Centrax reports to monitor the days to issue new and repair permits. 	This is being monitored from Centrax data. Feedback is provided on a quarterly basis from Centrax	Dale Holcomb	Ongoing	CHD’s are provided feedback by email.
		<ul style="list-style-type: none"> Include a session at the annual Environmental Health Director’s Meeting 	A session on achieving the required frequency incorporated in the EHD meeting agenda	Dale Holcomb	January, 2007 – EHD meeting & August 2007 meeting.	In 2005 and 2006 this was addressed at EHD conference calls, TRAP meeting and EH Directors meetings.



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		Process Management Target CHD’s that have not achieved the benchmark.	Permits are processed in 8 working days for new systems and 2 working days for repairs	Mark HooksEd Barranco	Reviewed at Quality Improvement Interviews	Centrax reports are currently being reviewed
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Measure #6: Process applications for septic tank contracting registration or authorization with Chapter 120, FS, timeframes. Response to contracting complaints within 1 workday.

Division Strategic Plan	Strategy (Program level)	Benchmark	Responsible Party	Target Date (up to 18 months)	Status (What is happening now)
Promote and Support Training and Innovation	<i>Customer and Market Focus</i> Ensure new contractor applicants for registration pass examination and existing contractor renewal applications are reviewed	Qualification for new contractors must be met and appropriate CEU’s obtained for existing contractors prior to annual renewal	Bob KuhnGlenn	Ongoing	Currently being conducted.
	<ul style="list-style-type: none"> Provide testing and applications for new contractors. 	Applications and exams provided on a monthly basis in Orlando and Tallahassee	Bob KuhnGlenn Sonia Cruz	Ongoing	<p>In 2006, there were a total of 712 registered septic tank contractors, which includes 49 new contractors and a total of 81 master septic tank contractors.</p> <p>(In 2005 there were a total of 700 registered septic tank contractors, which includes 22 new contractors and a total of 73 master septic tank contractors). Currently as of January 2007 there are 715 registered contractors and 79 master contractors.</p>



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		<ul style="list-style-type: none"> Process applications for annual licensing of septic tank contractors 	Conducted annually	Bob KuhnGlenn	Ongoing	<p>In 2006, 658 septic tank contractors renewed registrations, including 80 master septic tank contractors.</p> <p>(In 2005, 668 septic tank contractors renewed registrations including 73 master septic tank contractors)</p>
		<ul style="list-style-type: none"> Process applications for business authorizations for septic tank contractors 	Conducted bi-annually. New business authorizations are conducted at time of application.	Bob KuhnGlenn	Ongoing	<p>In 2006 there were 72 new business authorizations, with a total of 548 authorized businesses.</p> <p>(In 2005, there were 536 authorized septic tank contracting business.)</p>
	Promote and Support Training and Innovation	<i>Process Management</i> Process septic tank contracting complaints	Complaints are processed within 1 working day of receipt	Ed Barranco	Ongoing	Currently being conducted
		<ul style="list-style-type: none"> Manage toll free statewide 24-hour compliant line and coordinate enforcement actions as required with CHD and legal staff. 	Complaints are tracked through the enforcement database till the complaint is abated.	Ed Barranco	Ongoing	<p>Currently being conducted. In 2006, 113 complaints were received.</p> <p>(In 2005 a total of 125 complaints were received. Since the inception of the hotline in 1999, 836 complaints have been received with 472 of these (56.5%) of these determined to be valid).</p>



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Measure #7: Process and distribute variance applications and agenda not later than 5 working days before the monthly variance meeting. Process variance letters not later than the 15th of each month.

HP 2020 Objective		Strategy (Program level)	Benchmark	Responsible Party	Target Date (up to 18 months)	Status (What is happening now)
8-6	Waterborne Disease Outbreaks: Reduce water borne disease outbreaks arising from water intended for drinking among person served by community water systems.	<i>Customer and Market Focus</i> Process variance applications from CHD's and provide technical assistance to the rule requirements	Applications received from the CHD's by the 15 th of the month to be processed, reviewed and scheduled for next month's variance board meeting	Ed Williams	Ongoing	In 2006, 1057 requests were made of which 975 were granted approval. (In 2005 557 requests were made of which 510 were granted approval. The number of variance requests and doubled in one year.. To assist with the additional workload another administrative support staff has been hired in Bureau office.



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8-6	Surface Water Health Risks: (Developmental) Increase the proportion of assessed river, lakes, and estuaries that are safe for fishing and recreational purposes.	<ul style="list-style-type: none"> Coordinate, attend and provide technical assistance to the monthly variance review board meeting and provide results to the State Health 	Meetings are scheduled on a monthly basis the first week of each month and results of the meeting given to State Health Office to review for approval or denial	Ed Williams	Scheduled the first Thursday of each month in 2007	Variance meetings are held on a monthly basis at various locations around the State. Results are compiled on a monthly basis and submitted to the State Health Officer. All variance meetings have been scheduled for 2007.
		<i>Information and Analysis</i> Provide a review of variances and summary of variance statistics to the CHD's	Provide a summary of the variance meetings with statistics on an annual basis to the CHD's and a brief summary/agenda of the monthly variance meetings on a monthly basis to the SHO staff.	Ed Williams	Monthly updates to staff	Updates are provided to SHO staff on a monthly basis.

Measure # 8: Amend and draft proposed language for revision of Chapter 64E-6, Florida Administrative Code, in accordance with Chapter 120, Florida Statutes and also revise Environmental Health Technical Manual 150-4.

HP 2010 Objective	Strategy (Program level)	Benchmark	Responsible Party	Target Date (up to 18 months)	Status (What is happening now)
8-6 Waterborne Disease Outbreaks: Reduce water borne disease	<i>Customer and Market Focus</i> Propose rule language to address the concerns of stakeholders.	As stated in strategy	Dale Holcomb Gerald Briggs	Ongoing	Currently being conducted



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8-8	<p>outbreaks arising from water intended for drinking among person served by community water systems.</p> <p>Surface Water Health Risks: (Developmental) Increase the proportion of assessed river, lakes, and estuaries that are safe for fishing and recreational purposes.</p>	<ul style="list-style-type: none"> Receive input from the Technical Review and Advisory Panel (TRAP) for proposed rule changes. 	As stated in strategy	Dale Holcomb Gerald Briggs Mark Hooks Ed Barranco	<p>March 1, 2005 to initiate rulemaking and TRAP meeting for Wekiva Basin Area legislation.</p> <p>3/1/2006 is the proposed effective date for Wekiva recommendations to talk effect.</p>	<p>Rulemaking for the Wekiva legislations has been delayed due to research project as listed in Measure #9. The revised rule including issues of language cleanup, permit application, portable restrooms and holding tanks, ATU's, Treatment receptacles, Low Pressure Dosing and was implemented on 11/26/2006.</p>
		<ul style="list-style-type: none"> Review past Informational Memos and to incorporate new language into rule or Technical Manual. 	As stated in strategy	Dale Holcomb Kim Duffek	<p>August 1, 2007</p>	<p>The technical Manual has not been updated since 2003. Language from several memos was incorporated in the rule in 2004 and 2006.</p>



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Measure #9: Meet at least semi-annually with Research Review and Advisory Committee to review and rank research proposals.

HP 2010 Objective		Strategy (Program level)	Benchmark	Responsible Party	Target Date (up to 18 months)	Status (What is happening now)
8-6	Waterborne Disease Outbreaks: Reduce water borne disease outbreaks arising from	<i>Information and Analysis</i> Target new and ongoing research to ensure that new, proposed and existing technologies are effectively protecting the groundwater quality.	As listed in Strategy	Elke Ursin	Ongoing	Ongoing research is being conducted and listed for specific projects



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8-8	<p>water intended for drinking among person served by community water systems.</p> <p>Surface Water Health Risks: (Developmental) Increase the proportion of assessed river, lakes, and estuaries that are safe for fishing and recreational purposes.</p>	<ul style="list-style-type: none"> Conduct the Wekiva Onsite Nitrogen Contribution Study to identify and quantify nitrogen loading from OSTDS in the Wekiva Study Area, to assess whether OSTDS are a significant source of nitrogen relative to other sources, and recommend a range of possible cost-effective nitrogen reduction strategies if found significant 	<p>Advertise ITN, select vendor to perform study, execute contract, approve QAPP, conduct field work, perform literature reviews, develop report, review report, and submit final report to the Executive Office of the Governor, President of the Senate, and the Speaker of the House of Representatives no later than June 30, 2007</p>	<p>Paul Booher Elke Ursin Eberhard Roeder</p>	<p>June 30, 2007</p>	<p>Five RRAC meetings have been conducted in 2006 to determine the scope of the project and to outline the timeline. The ITN has been advertised with no responders. The scope was split up into four tasks. Vendors have been selected for first three tasks.</p>
		<ul style="list-style-type: none"> Assess the effectiveness of various alternative disposal systems for OSTDS in Florida 	<p>Advertise ITN, select vendor to perform study, execute contract, and approve QAPP</p>	<p>Elke Ursin</p>	<p>March 1, 2007</p>	<p>ITN has been completed and advertised, vendor has been selected in September of 2006.</p>
		<ul style="list-style-type: none"> Evaluate possible passive treatment media for nitrogen removal and evaluate their use in onsite applications 	<p>Complete ITN, advertise ITN, select vendor to perform study, execute contract, and approve QAPP</p>	<p>Elke Ursin</p>	<p>June 30, 2007</p>	<p>RRAC approved the ITN with changes during the July 25, 2006 meeting. ITN completed and advertised, vendor selected in November 2006.</p>



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	<ul style="list-style-type: none"> Assess the effectiveness of glass cullet as a substitute for fill sand 	Receive and review report on results	Eberhard Roeder Elke Ursin	March 1, 2007	Samples have been sent to the lab and the sample columns have been constructed. Screening has been completed, and the sample testing has been completed to see the effluent concentrations.
	<ul style="list-style-type: none"> Assess environmental impact of sewerage communities previously served by OSTDS 	Select vendor to do selected sampling in the Town of Suwannee	Elke Ursin	June 30, 2007	Original proposal was not accepted for funding. RRAC suggested that part of the project should be completed with DOH funds. Currently project is on hold to meet other project deadlines.
	<ul style="list-style-type: none"> Follow up Phase II to Manatee Springs State Park Karst Study to determine impact of nutrient reducing technologies 	Design, permit and install nutrient-removing systems. Coordinate with State Park in operation of systems. Perform field sampling.	Eberhard Roeder Elke Ursin	September 1, 2007	Contracted with provider of water quality monitoring services. One of the nutrient-reducing systems is installed and another is designed and is awaiting approval.
	<ul style="list-style-type: none"> Impact of older coastal development on coastal water quality in Taylor County. 	Analyze the data for indications of OSTDS contributions and conduct further source tracking studies to establish the source for the observed high pathogen indicator concentrations.	Elke Ursin	March 1, 2007	Sampling by CHD in July 2004 through June of 2005 and has been completed. Data analysis is ongoing. Source tracking services provider has developed the quality assurance project plan and started sampling.
	<ul style="list-style-type: none"> Evaluation of PBTS in Keys 	Implement a study to evaluate performance of PBTS relative to design and program goals	Eberhard Roeder Elke Ursin Monroe County Health Department	June 30, 2007	Prepared solicitation document for in-depth analysis of a sampling of systems. Monroe CHD will implement the study. An ITN submitted in late 2005 failed to result in a contract.



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		<ul style="list-style-type: none"> Evaluation of Management of Conventional Onsite Systems 	Summarize current implemented maintenance and inspection programs and develop cost estimates for a few scenarios.	Elke Ursin	June 30, 2007	Currently researching the scope of the project.
		<ul style="list-style-type: none"> Remote Sensing of optical brighteners to detect plumes of wastewater (EPA Gulf of Mexico Grant) 	Conduct a study in cooperation with FDEP and Mote Marine Lab	Elke Ursin	July 1, 2007	Funded by EPA Gulf of Mexico Program. Contracted with FDEP in January 2006, QAPP completed July 2006.
	Support Community Outreach	<i>Customer and Market Focus</i> <ul style="list-style-type: none"> Ensure that research activities are coordinated and monitored 	Listed in Strategy	Elke Ursin	Ongoing	Currently being monitored



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		<ul style="list-style-type: none"> Meetings with Research Review and Advisory Committee (RRAC) 	<p>The RRAC should meet at least twice a year to review the ongoing and proposed research projects</p>	<p>Elke Ursin</p>	<p>Ongoing</p>	<p>RRAC has had seven meetings as of December 2006. In January 2006 there was a meeting in Bartow with the focus on reviewing presentations for the Keys Performance Contract Proposal. In May 2006 there was a meeting in Bartow with the focus on the review of scopes for various projects previously approved by TRAP. In June there was a meeting in Mount Dora with the focus on developing the scope for the Wekiva Onsite Nitrogen Contribution Study. In July there was a meeting via conference call with the focus on further developing the scope and setting a timeline for the Wekiva Onsite Nitrogen Contribution Study. In September there was a meeting in Longwood with the focus of selecting the provider for the Alternative Drainfield Product Assessment and discuss next steps for Wekiva due to no submittals for ITN. In October there was a meeting in Sanford to select providers for the Wekiva tasks. In November there was a meeting in Maitland to select provider for the Passive Nitrogen Removal Study and to discuss the Wekiva project further.</p>
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Measure #10: Review and process requests for product approval of treatment receptacles, innovative and alternative products, performance based systems and additives to ensure rule standards are met within Chapter 120, FS, timeframes. .

HP 2010 Objective		Strategy (Program level)	Benchmark	Responsible Party	Target Date (up to 18 months)	Status (What is happening now)
8-6	Waterborne Disease Outbreaks: Reduce water borne disease outbreaks arising from water intended for drinking among person served by community water systems.	<i>Customer and Market Focus</i> Process and review applications for treatment receptacles and new products for approval.	Review applications within 30 days, and request additional information if necessary, and approve or deny within 90 days.	Paul Booher	Ongoing	Currently being conducted.
		▪ Process and Review Applications for Treatment receptacles	Conduct strategy within 30 days, and request additional information if necessary, and approve or deny within 90 days.	Paul Booher	Ongoing	In 2006..... septic tank designs have been reviewed, tested and approved. Currently as of September (In 2005, 20 septic tank designs have been reviewed, tested and approved.)
8-8	Surface Water Health Risks: (Developmental) Increase the proportion of assessed river, lakes, and estuaries that are safe for fishing and recreational purposes.	▪ Process and Review applications for Innovative and alternative systems, products and components	Conduct strategy within 30 days, and request additional information if necessary, and approve or deny within 90 days.	Paul Booher Kimberly Duffek	Ongoing	Innovative system applications have decreased to approximately one per month due to a change in the 64E-6 FAC approval process. Alternative systems have also reduced to only 4-6 per year. One new tire manufacturer was approved in 2006.



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	<ul style="list-style-type: none"> Process and Review Performance based treatment systems and other engineer-designed systems applications when requested by CHD's. 	Conduct strategy within 30 days, and request additional information if necessary, and approve or deny within 90 days.	Paul Booher Eberhard Roeder	Ongoing	There are a total of 1200 PBTS in the State as of Sept 2006. Performance based system design reviews have increased substantially from several per month in previous years. In addition with the increase in engineering activity the training has likewise increased as more engineers are designing and submitting plans for review. During 2004 – 2006 more of the CHD's have developed the skills to review and approve systems due to consultation and trainings given by the Bureau Engineer.
	<ul style="list-style-type: none"> Process and Review Additive applications 	Conduct strategy within 30 days, and request additional information if necessary, and approve or deny within 90 days.	Dr. Sonia Cruz	Ongoing	In 2006, 8 applications were reviewed, 3 were approved and 2 denied and three were pending at the end of the year. (In 2005, 10 applications were reviewed, 5 approved and 5 denied. The total number of additives approved is 58, as of 1/24/2007.

Measure #11: Provide Technical Assistance to Water Quality Protection Initiatives, such as the Springs Initiative and Total Maximum Daily Load Program.

Division Strategic Plan	Strategy (Program level)	Benchmark	Responsible Party	Target Date (up to 18 months)	Status (What is happening now)
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Be The Best Communicators and Educators	<p><i>Customer and Market Focus</i> Provide point of contact, review, expertise, and information relative to water pollution by onsite sewage systems to agencies .</p>	<p>Invitations to provide technical assistance and expertise</p>	<p>Paul Booher Mark Hooks Eberhard Roeder</p>	<p>Ongoing;</p>	<p>Staff has participated in the revision of the Florida Springs Task Force Report during the previous fiscal year. Staff is participating regularly in the working group for Wakulla Springs, and has presented or advised on springs protection issues in Alachua, Jackson, Marion Counties and the Wekiva Study Area. Staff attended several DEP advisory committee meetings on pollution trading and nutrient criteria. Initial contact established with DEP’s TMDL program. Provided information and comments to Florida’s Ocean Research Council.</p>
	<p>Review Second Level Review Onsite Systems in River Floodplains that discharge into shellfish harvest areas – Taylor, Madison, Hamilton, Columbia, Suwannee, Lafayette, Gilchrist, Union, Alachua, Dixie and Levy Counties.</p>	<p>Review OSTDS applications that are in the floodplains of the Aucilla and Suwannee River for compliance with rule</p>	<p>Paul Booher Mark Lander</p>	<p>Meetings conducted on a bi-monthly basis and staffed by Joyce Massie</p>	<p>See Measure #1</p>



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		<p><i>Information and Analysis</i> Review, Analyze, Critique, and Summarize information relative to water quality impacts by onsite sewage systems</p>	<p>Completed review or summary</p>	<p>Eberhard Roeder</p>	<p>Ongoing</p>	<p>Published article on ATU performance together with Bill Brookman from Monroe CHD in November 2006 issue of Journal of Environmental Health. Participated in the development of a nitrogen-reduction brochure for lay audience for Wakulla Springs, which was published in late 2006; collected cost information for nitrogen-reducing systems in Wakulla Springs area; ongoing review of third-party nitrogen-reduction testing data, with resulting table posted on the Department's web-site; ongoing further analysis of karst study data, results of which were presented at NOWRA 2006 in August. Mentored one FAMU MPH student in analyzing repair data. Provided three presentations at 2006 FEHA annual education conference. Summarized springs wastewater issues in an article for FOWA and FEHA journals. Provided comments on water quality study in Pensacola.</p>
		<p>▪</p>				