



**WEKIVA BASIN ONSITE SEWAGE TREATMENT
AND DISPOSAL SYSTEM STUDY**

Bureau of Onsite Sewage Programs

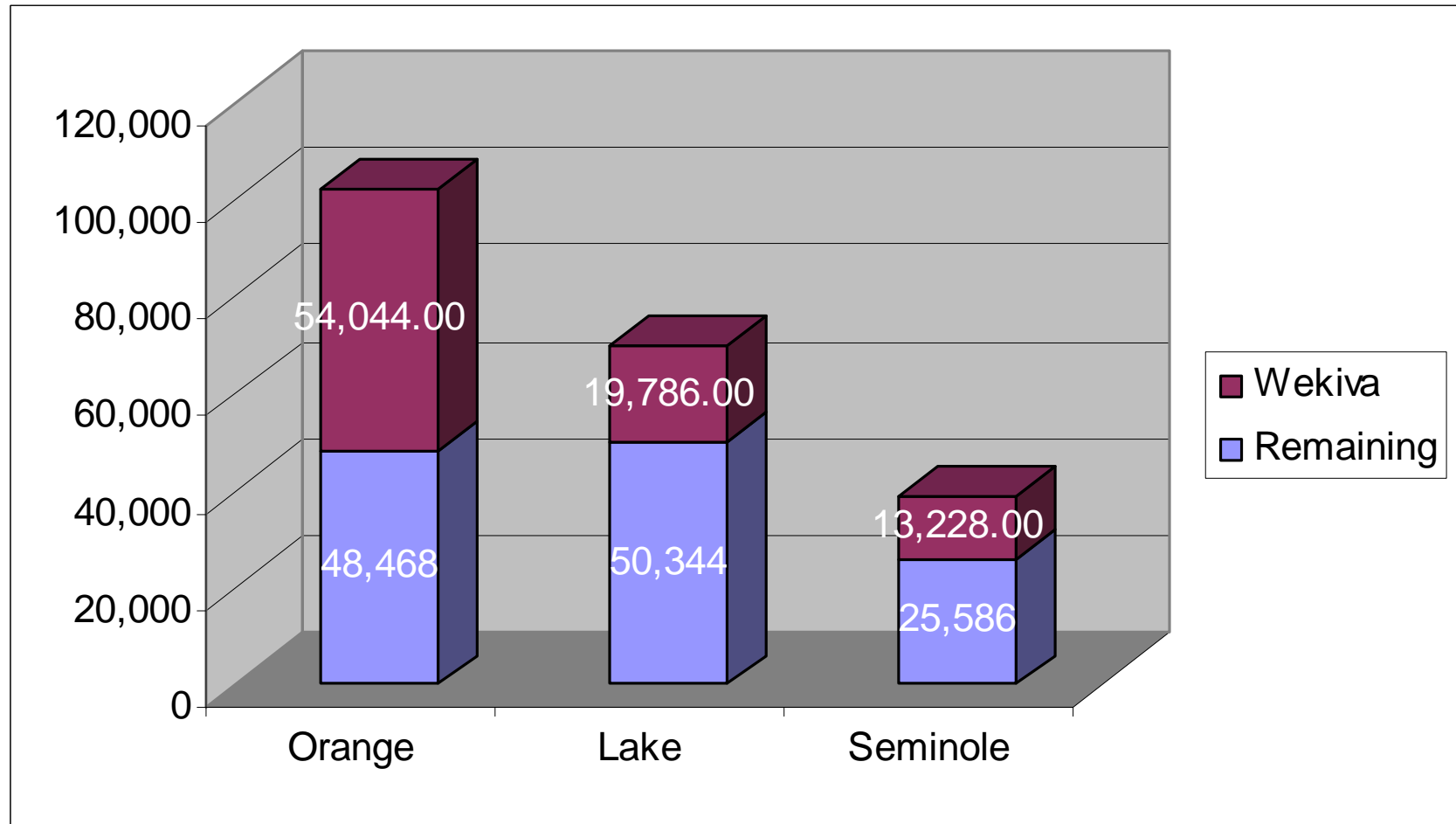
Division of Environmental Health

Florida Department of Health

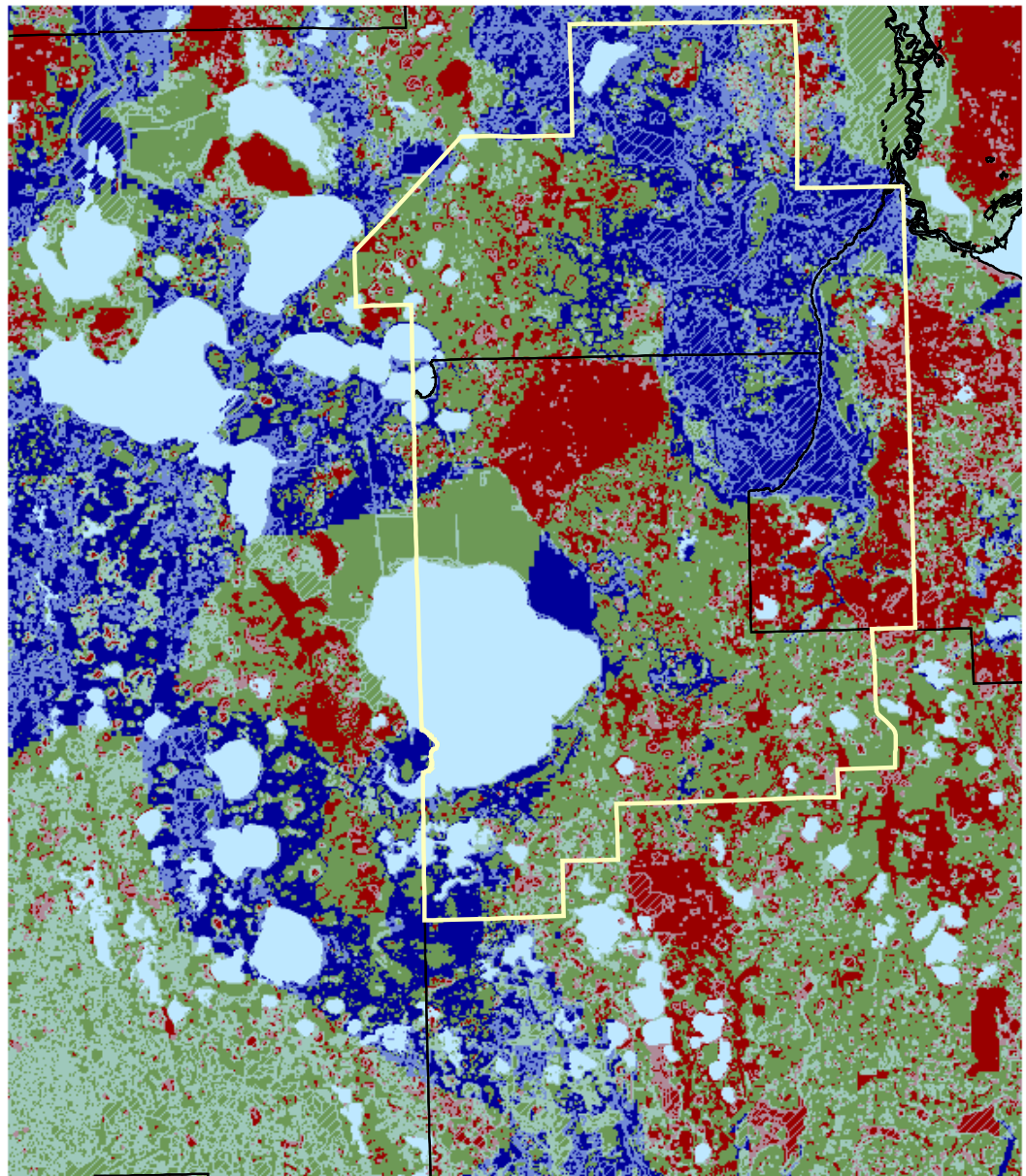
Today's Presentation

- Existing Onsite Systems and Aquifer Vulnerability in the Wekiva Basin
- Department Recommendations
- DOH Rule Adoption Process

Existing Development on OSTDS

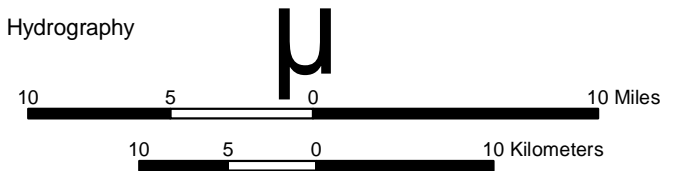


Protection zones based on aquifer vulnerability assessment



Relative Vulnerability

- Primary Protection Zone
- Secondary Protection Zone
- Tertiary Protection Zone
- Wekiva Study Area
- Water Features
- Hydrography



Department Recommendations

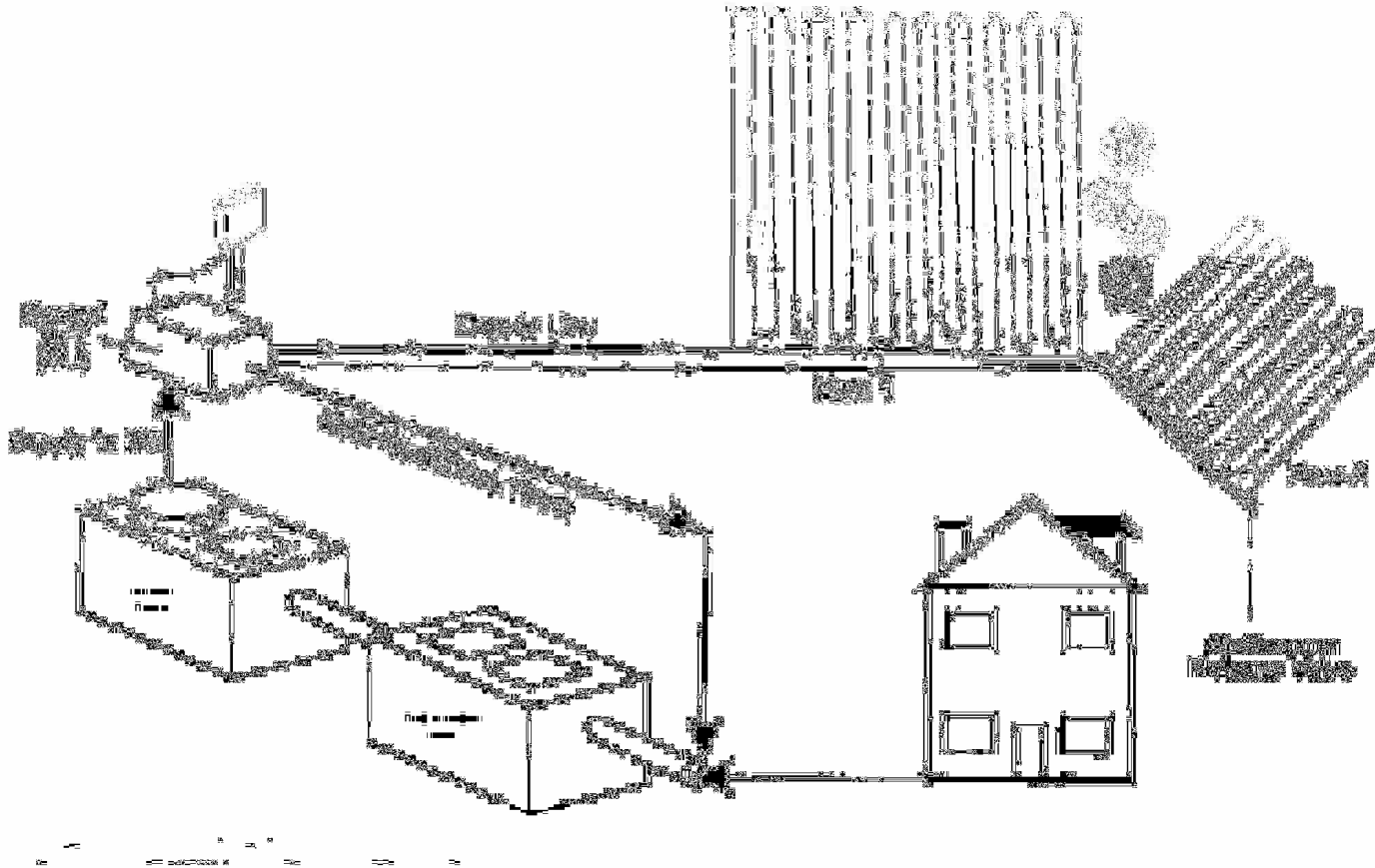
DOH Recommendations 1

- Set a discharge limit of 10 milligrams per liter of total nitrogen for new systems, systems being modified, and for existing systems in the primary and secondary Wekiva Study Area protection zones.
- Prohibit the land-spreading of septage and grease trap waste in the Wekiva Study Area. Septage waste would be required to be disposed of at wastewater treatment plants.

DOH Recommendations 2

- Evaluate the economic feasibility of sewerage versus nutrient removal upgrades to existing onsite sewage treatment and disposal systems. A phased-in approach to replacing the remaining existing systems should be developed with a target completion date of 2010.
- Establish new regional wastewater management entities or modify existing ones to oversee the maintenance of all wastewater discharged from onsite sewage treatment and disposal systems in the study area. These programs should take the privatization approach and contract with existing licensed septic tank contractors.

The Recommended System



A Nutrient Reducing System with Drip Irrigation

System Construction and Operating Costs

- Conventional system
 - \$5,500 to \$7,000
 - No operating permit except IM zoned areas
- Proposed system
 - \$7,500 to \$9,000
 - \$100 operating permit Every 2 years
 - \$140 in annual electric costs
 - Maintenance agreement

DOH Rule Adoption Process

Rule Adoption

- Primary issues are to adopt a nitrogen limit and require drip irrigation for onsite systems
- Permitting process is already in place in the rule
- Public Input - Technical Review and Advisory Panel (TRAP) established by 318.0068 FS
- Formal TRAP Meeting to review proposals in May, 2005;
- Anticipated rule implementation as early as March 2006