



*Florida Department of
Environmental Protection*

STORET & Watershed Information Network (WIN)

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Florida STORET

- Florida STORET is the application currently used by DEAR to capture, store, and report water quality data from non-regulatory databases
- There are approximately 80 active external data providers (100+ including inactive providers) to Florida STORET and DEAR
- Contains in excess of 28 million records, and is growing by ~ 2 million records per year



Florida STORET

- DEP uses of data in Florida STORET include but are not limited to:
 - Assessment of waters for purposes of the Impaired Waters Rule (IWR)
 - Development of:
 - Total Maximum Daily Loads (TMDL)
 - Basin Management Action Plans (BMAP)
 - Strategic Monitoring Plans (SMP)
 - Water Quality Criteria
 - Providing data as required to U.S. EPA and to the public





STORET Replacement

- Florida STORET data structure limitations prevent implementation of a centralized repository for growing data requirements
 - Does not allow for front-end quality assurance of data
 - Growing data loading, validation and reporting needs cannot be met
 - Does not provide the data structure for growing DEAR needs, such as for groundwater or biological data



Water Quality EXchange

- U. S. EPA discontinued maintenance and support of STORET as of September 2009, and is now utilizing the Water Quality EXchange (WQX)
- Some of the new requirements of WQX cannot be supported by data reporting requirements that were designed for and acceptable for STORET
- We have been working with data providers (many of you) to address the new WQX data requirements
- 2 million plus records have been sent to WQX from Florida STORET – more than for any other state!



Watershed Information Network

- WIN will address the needs for a centralized environmental data management platform (excluding regulatory databases) as a replacement of Florida STORET
- WIN will consolidate and modernize the loading, validation, analysis, and reporting of much of the non-regulatory data managed by DEAR
- WIN is drawing from and building on information from previous analysis efforts for a replacement of Florida STORET





WIN Goals and Requirements

- Better assessments based on improved quality data
 - Front end quality screening and correction within pre-published tables
- System stability & efficiency
 - Web-based instead of local installations
- Provide a scalable framework
 - Serve as the comprehensive centralized repository for DEAR
- Provide an Audit Trail
 - Lifecycle of a record maintained in history tables
- Spatial component
 - GIS-based public access which provides data query & retrieval capabilities





WIN Phases

- WIN has been segmented into several phases for manageability, to be phased in as time and budget allow
- We are currently engaged in Phase 1
- Phase 1 includes the initial core data that DEAR program areas have indicated are needed most immediately
- Phase 1 addresses front-end quality assurance, data input, storage, reporting, and extraction of Surface Water*, Ground Water, Flow, and Continuous Monitoring station and result data

*Surface Water” also is defined here to include station and result data for sediment and fish tissue, and necessary associated data elements.





WIN Phases (cont.)

- Subsequent WIN phases will address:
 - Front-end quality assurance, data input, storage, reporting and extraction of biological data (including biological indices and habitat assessment data and perhaps taxonomic data)
 - Program-specific modules (e.g., for management of IWR and TMDL analysis decisions)



WIN Activities

- WIN is drawing from and building on information from previous analysis efforts for a replacement of Florida STORET
- We are gathering and documenting DEP program (business) and system requirements towards specifications for WIN Phase 1
- We will engage with external data providers after documenting needs of DEP programs



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