



---

## South Florida Water Management District

---

### Peer Review Forum

#### Regulatory Peer Review Forum

March 6, 2015

9:00 am – 11:00 am

South Florida Water Management District

Richard Rogers Conference Room

3301 Gun Club Road, West Palm Beach, FL 33406

### Summary

#### Attendees:

Sharon Trost  
Tony Waterhouse  
Damon Meiers  
Jesse Markle  
Maria Clemente  
Susan Martin

Ricardo Valera  
Alan Wertepny  
Fred Roth  
Jay Foy  
Irene Quincey  
Ken Roundtree

#### 1. C-51 Rule Re-Evaluation Presentation – Jesse Markle (see attached)

- Last bullet of presentation will state that this is consistent with the Statewide ERP
- The November report reflected elevation changes from the Lake Clarke Shores issue.
- The final results will be available in late March / early April.
- Basin boundaries will change slightly – Jesse will provide this information.
- Alan Wertepny noted that the FEMA maps appeal deadline for Palm Beach County is the end of the month.

- Alan Wertepny expressed appreciation to District staff that worked on this effort.
- Tentative Rule-making schedule:
  - April Governing Board – Rule Development
  - May Governing Board – Notice of Proposed Rule
  - Summer – Rule Adoption
- If the proposed rule is adopted, ½” dry pre-treatment in the C-51 West Basin will only be required for commercial/industrial projects. Until the rule is adopted all applicants must continue to account for the ½” dry pre-treatment for all projects, regardless of land use.

**2. There will be a Celebration of Life event to honor Anita Bain on Tuesday March 31, 2015 at 4:30pm in the B-1 Auditorium.**

**3. Wellington Basin B Discussion - Jay Foy**

- Talked about a spreadsheet developed by the Corps of Engineers for Wellington Basin B that allows you to look up Corps jurisdictional wetland impact by property control #. He was wondering if the District had anything like this in other areas. Tony Waterhouse stated that landowners anywhere in the District can avail themselves to informal wetland determinations, but the District has not prepared spreadsheets for any areas as described by Mr. Foy.

**4. Other Comments**

- There was discussion on some of the bills currently being reviewed in Tallahassee.
- There was discussion on reports from the Corps of Engineers regarding the future of the lake regulation schedule.

**5. Next meeting date**

- The next meeting will be held Friday, June 5<sup>th</sup> at 9:00 am in the Richard Rogers Conference Room

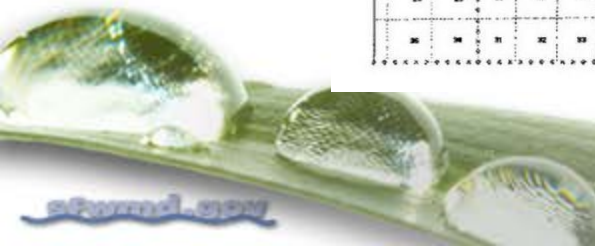
# **C-51 Rule Reevaluation**

Jesse Markle, P.E.  
Section Leader  
Okeechobee Service Center  
Regulation Division  
South Florida Water Management District

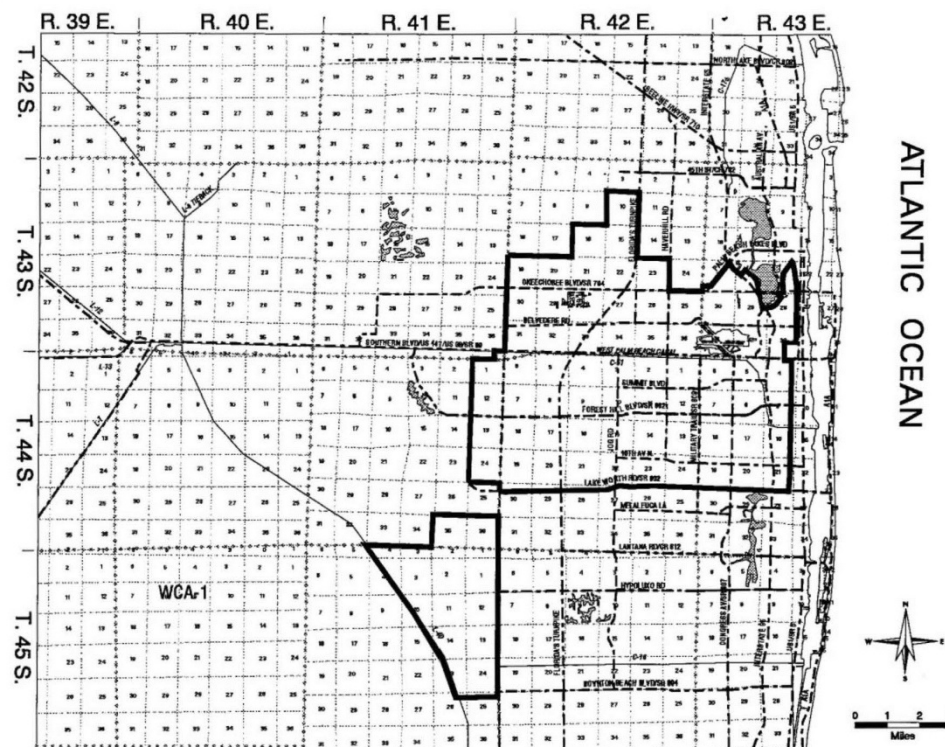
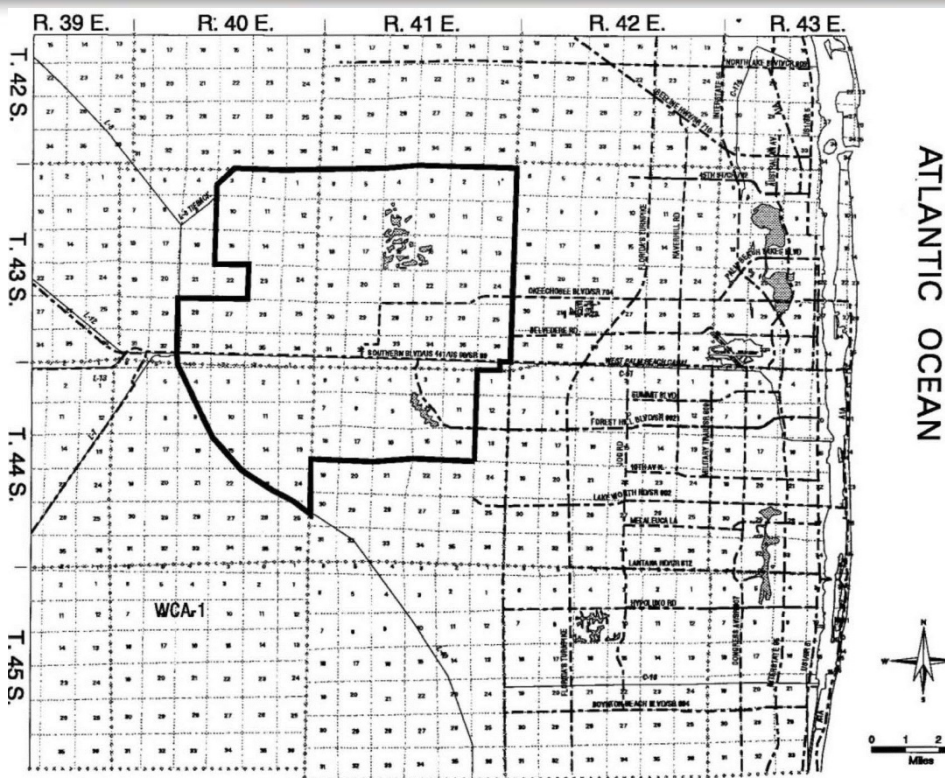
# Background

- 1987: current rule adopted
  - Established basin & sub-basin boundaries
  - 10-year, three-day discharge coefficients
  - 100-year, three-day peak stages
    - Use to establish FFE and compensating storage requirements

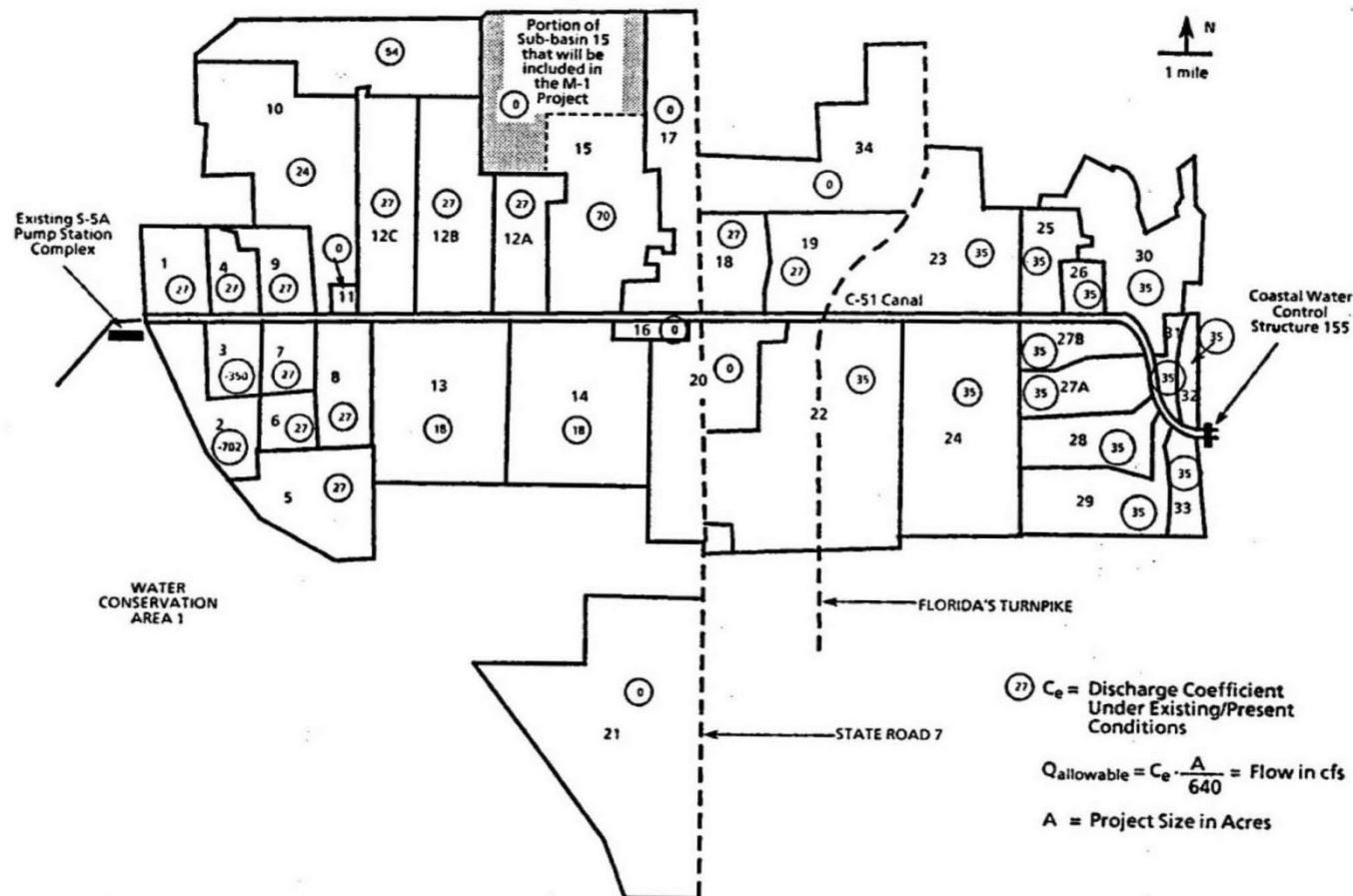




# Background, cont'd



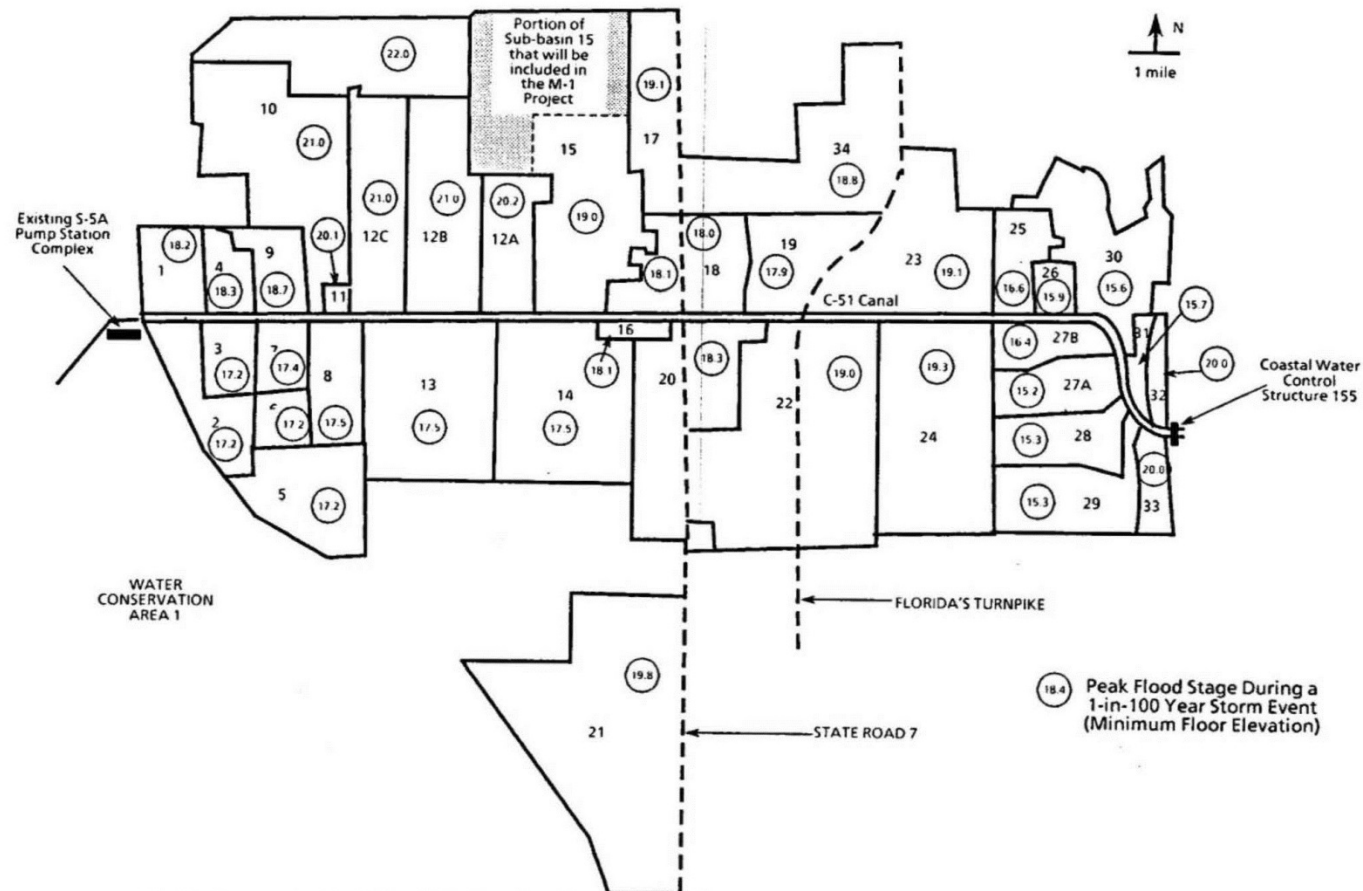
# Background, cont'd



Discharge Coefficients for the Sub-basins of the C-51 Basin in Palm Beach County, Florida.



# Background, cont'd



Peak Flood Stage (Ft. NGVD) During a 1-in-100 Year Storm Event and Minimum Floor Elevation, Prior to Completion of S-319.

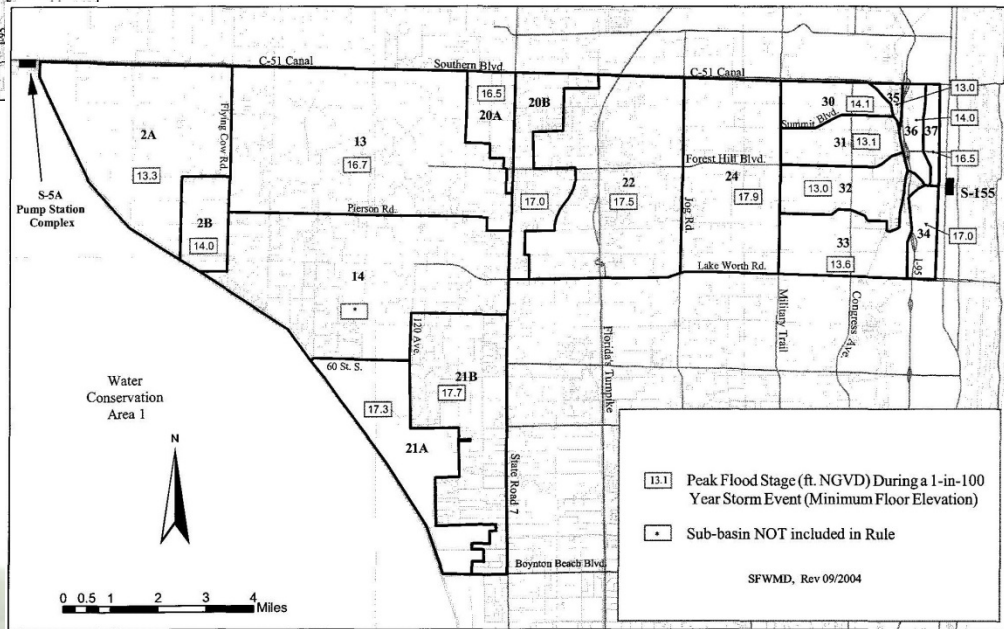
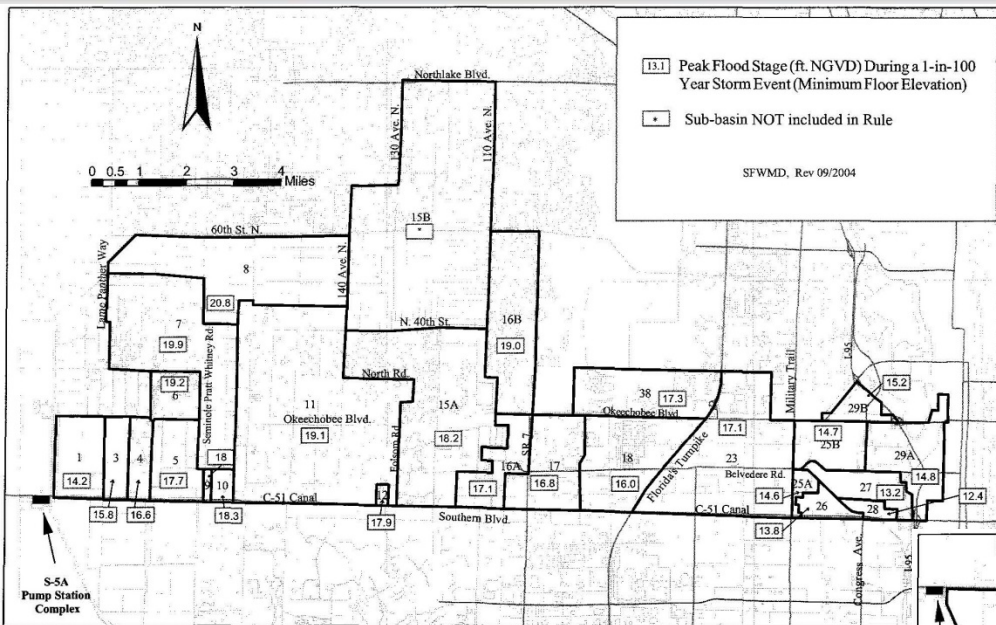


# Background, cont'd

- 2004: first rule reevaluation/redevelopment
  - Undertaken to account for C-51 West infrastructure modifications
    - STA-1E, S-319 PS, S-155A “Divide” Structure
  - Revised topo, sub-basins
  - New HEC-HMS/RAS models developed
  - Rule redevelopment halted due to WQ concerns w/in STA-1E & discrepancies in topo data
  - Interim Guidance developed based on PBC efforts
    - 10-year, three-day discharge coefficients unchanged
    - 100-year, three day stages updated; all lower



# Background, cont'd



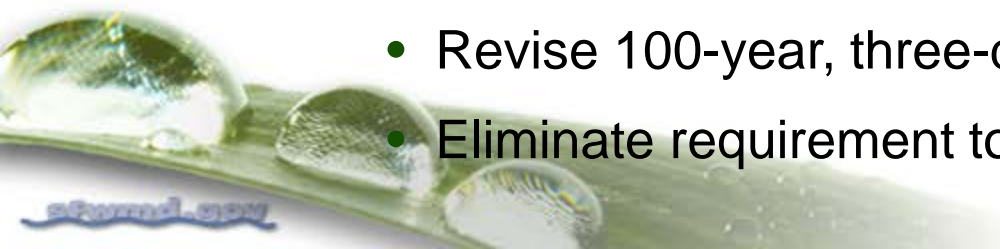
# Reevaluation

- Nov. 2012: Reevaluation of the C-51 model
  - Built on the 2004 effort
  - Occurred concurrent w/ FEMA remapping
  - Revised HEC-HMS/RAS models developed
    - Calibrated to TS Isaac
    - Revised topo, sub-basins
    - “Actual” sub-basin conditions/“Real world” connections
- Feb. 2014: Draft report
  - Subsequently reviewed by stakeholder group w/ recommendations/requests for further revisions



# Reevaluation, cont'd

- Nov. 2014: Final draft report
  - Subsequent review indicated sub-basin refinement required
    - Do not anticipate significant differences in results
- Mar. 2015: Final revisions
- Apr. 2015: Governing Board
  - Request approval to begin process to amend rule
    - Revise basin boundaries
    - Revise 10-year, three-day design discharge rates
    - Revise 100-year, three-day design stages
    - Eliminate requirement to provide ½" of dry pretreatment.



# Questions

