



Florida Department of Environmental Protection

TMDL Prioritization, Public Process, and Streamlining

Erin Rasnake





Water Resources

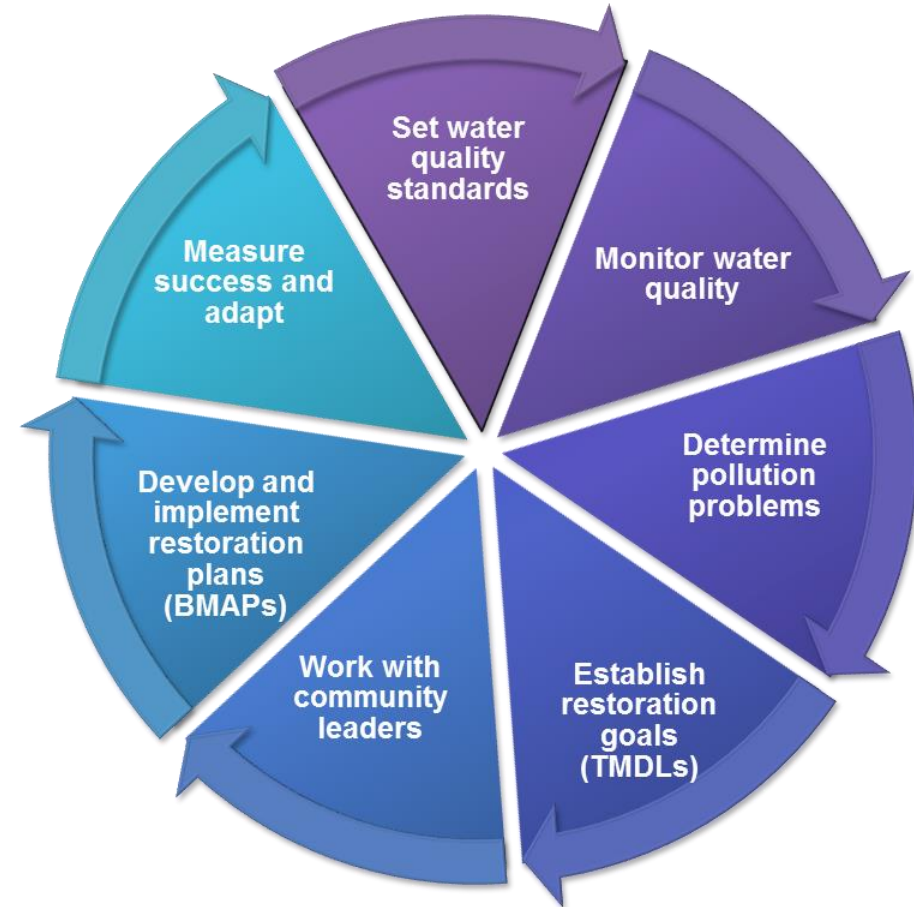
Florida has:

- Population of 19,893,297 (US Census Bureau 2014)
 - 98 million tourists a year (Visit Florida Website 2015)
- >1,700 rivers and streams (26,960 miles)
- 44,850 miles of canals
- 1,607,261 acres of lakes
 - 2nd largest freshwater lake wholly within continental U.S. (Okeechobee) – 730 sq mi
- 1,702,390 acres of freshwater and tidal wetlands
- 2,154 coastal miles
- 1,013 known springs
- 6,573 total waterbody segments, or WBIDs



Watershed Restoration Framework

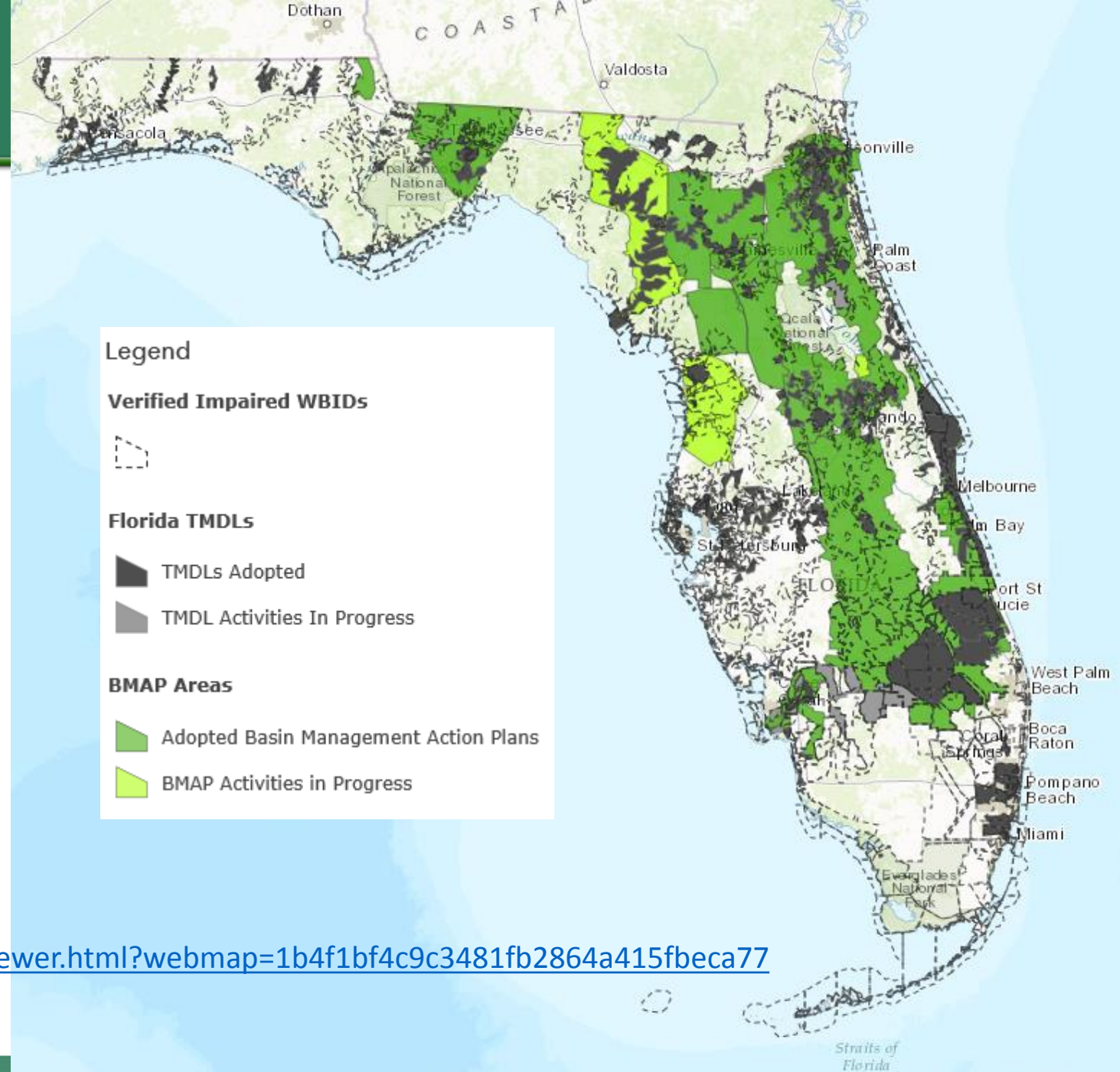
- **Standards**
- Monitoring
- Assessment
- **TMDL development**
 - **Numeric Nutrient Criteria Hierarchy 1 (H1)**
- **Basin Management Action Plan (BMAPs)**



Implemented on a rotating basin approach and adopted into State Rule or Statute...



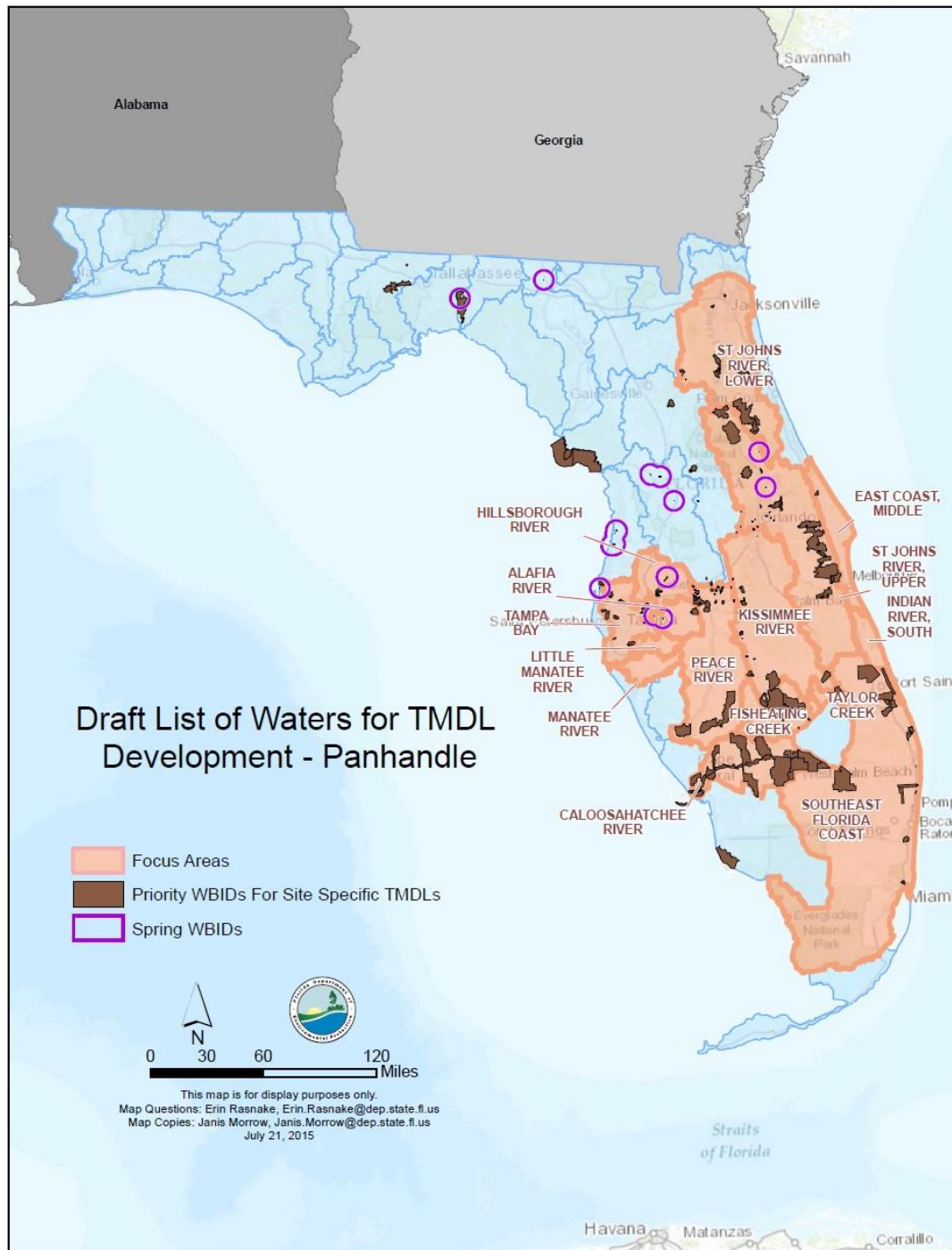
Current view of statewide TMDLs, BMAPs and verified impaired WBIDs



<http://fdep.maps.arcgis.com/home/webmap/viewer.html?webmap=1b4f1bf4c9c3481fb2864a415fbeca77>



303(d) Long-Term Vision



- Removes "one size fits all" expectations
- Allows states to tailor their strategies
 - Leverage local resources
 - Address local water quality goals
- Ensures accountability through new measures
 - Areas addressed by TMDLs
 - Recognition of TMDL alternatives (reasonable assurance, nutrient management plans)
- Operates on a longer time horizon



Workgroup Charge

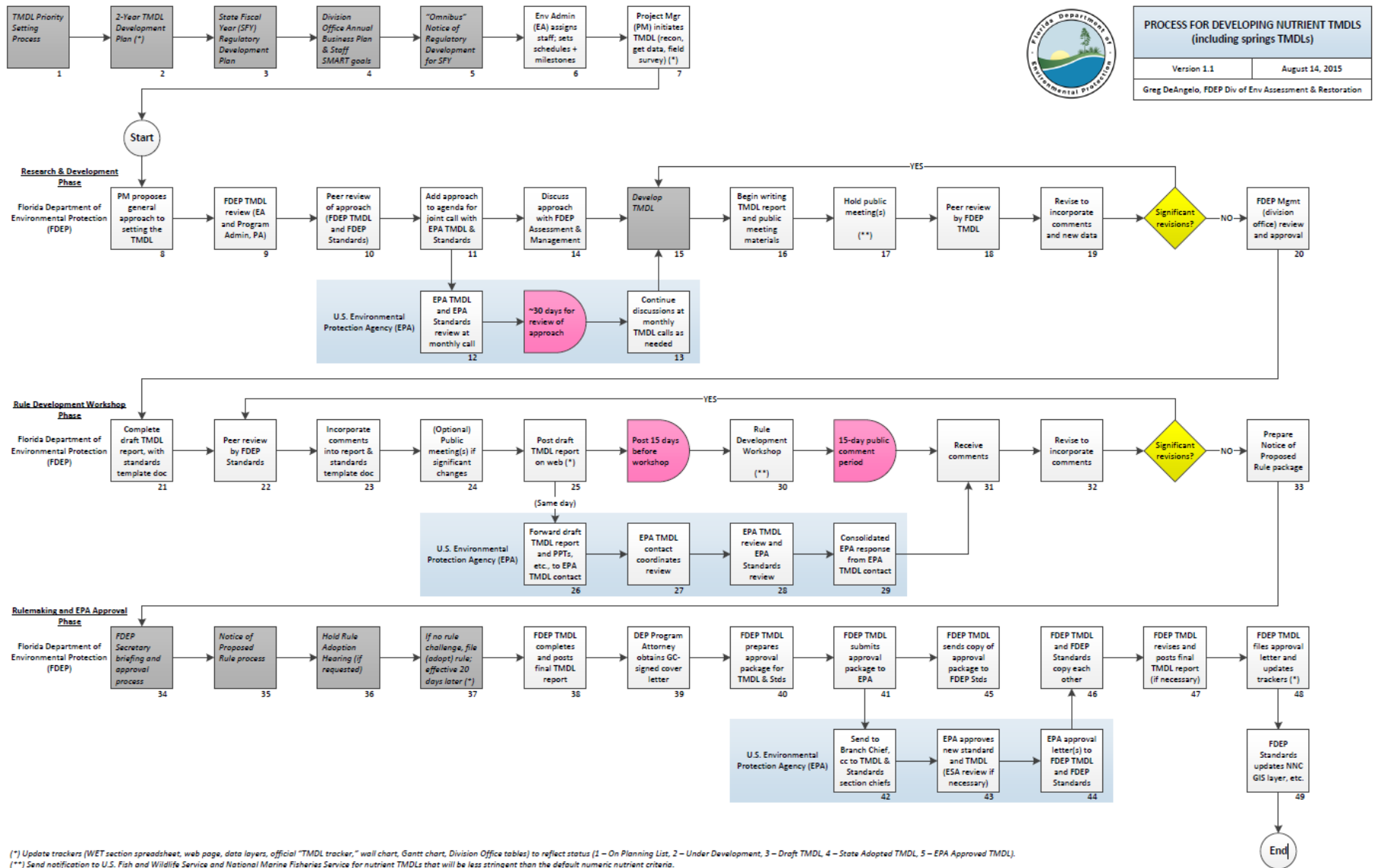
Key Issues

1. TMDL/H1 reports
 - a. Improve the readability
 - b. Ensure consistency
 - c. Meet EPA TMDL and Standard's requirements for approval
2. TMDL development process
 - a. Follows matrix
 - b. Meets state and federal rule/statutes for adoption as an H1
 - c. Creates consistent and clear communication between DEAR programs and EPA

Strive for a more broadly applicable target language and balance of technical detail to improve the readability of the TMDL/H1 documents, ensure key players in DEAR and EPA are all speaking the same language, and ensure the TMDL report meets the needs of all groups.



Process for Developing Nutrient TMDLs



(*) Update trackers (WET section spreadsheet, web page, data layers, official "TMDL tracker," wall chart, Gantt chart, Division Office tables) to reflect status (1 – On Planning List, 2 – Under Development, 3 – Draft TMDL, 4 – State Adopted TMDL, 5 – EPA Approved TMDL).
(**) Send notification to U.S. Fish and Wildlife Service and National Marine Fisheries Service for nutrient TMDLs that will be less stringent than the default numeric nutrient criteria.

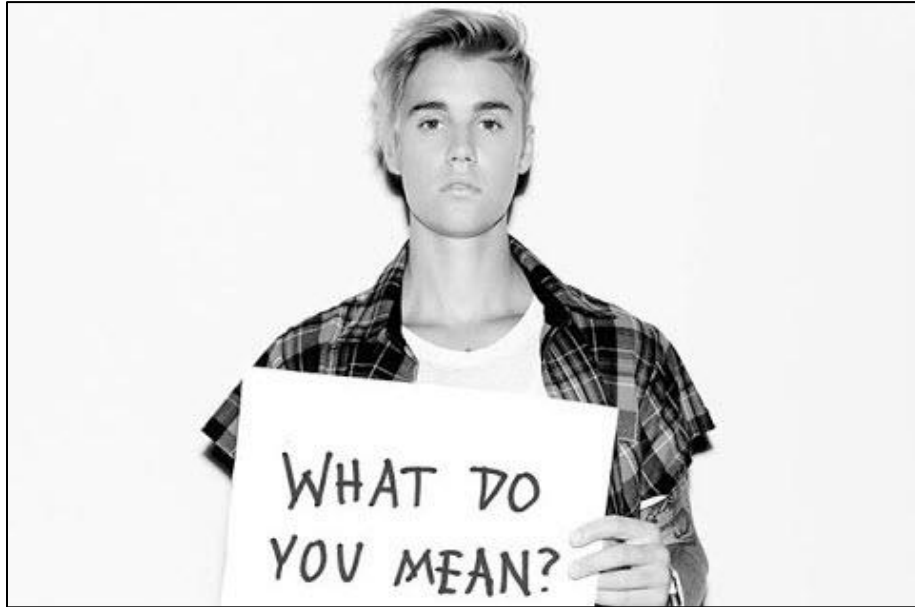


Setting Priorities

1. Improve existing process checklist for TMDL/H1 development
2. Improve GIS checklist and standardized maps
3. Revise Rulemaking Checklist
4. Establish a template for all TMDL/H1 reports
5. Establish a list of resources for TMDL/H1 developers
6. Establish a process improvement for TMDL/H1 reporting, counting and communication strategies



Simplifying the Report

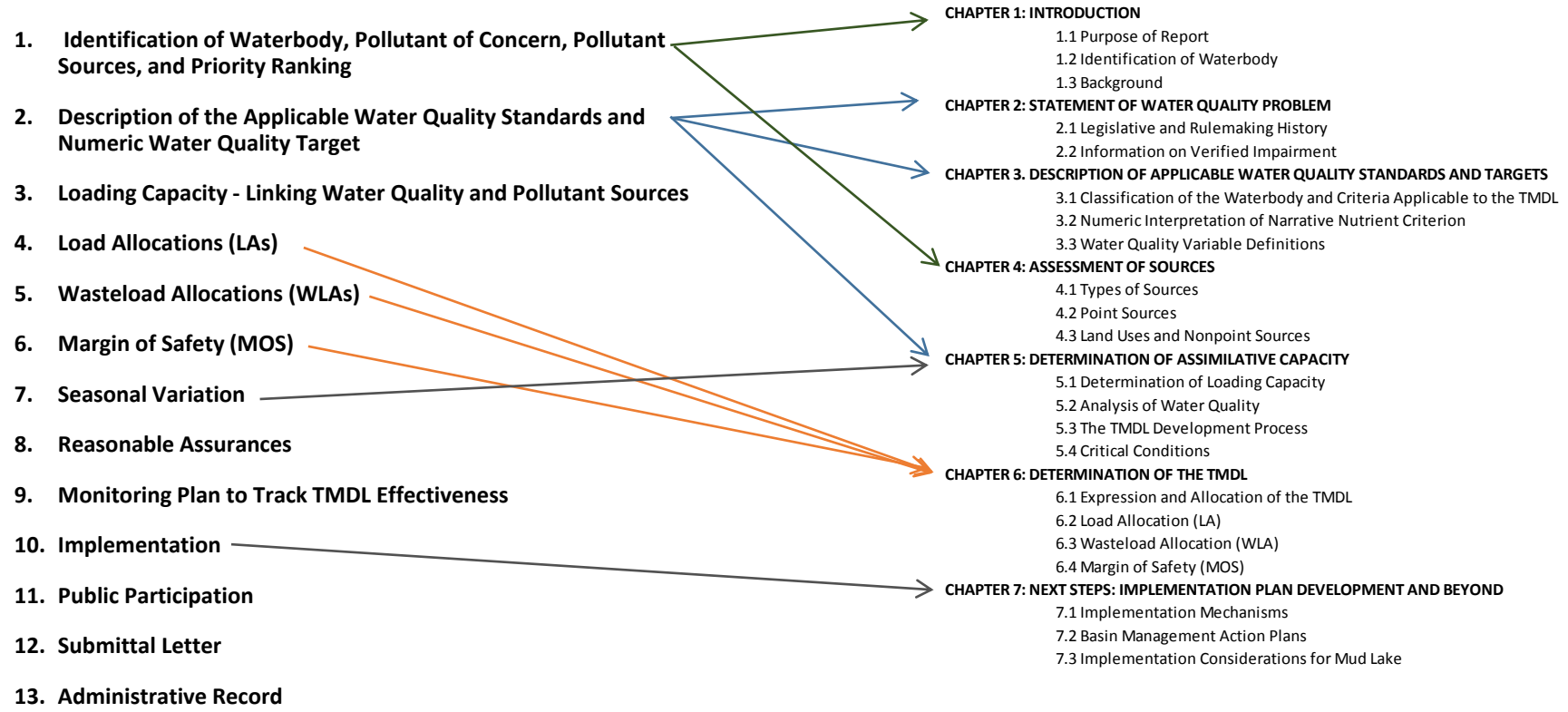


Refining the report to ensure it covers the minimum requirements, and by doing so reduce the amount of ancillary information

- Reviewed reports that other states have done to find examples of some extremely efficient TMDLs
- Decided what was ancillary and what was essential using EPA TMDL Guidelines



EPA Guidelines vs Our TMDLs





Standardized Outline Structure

Executive Summary

Table of Contents

List of Tables and Figures

Acknowledgments

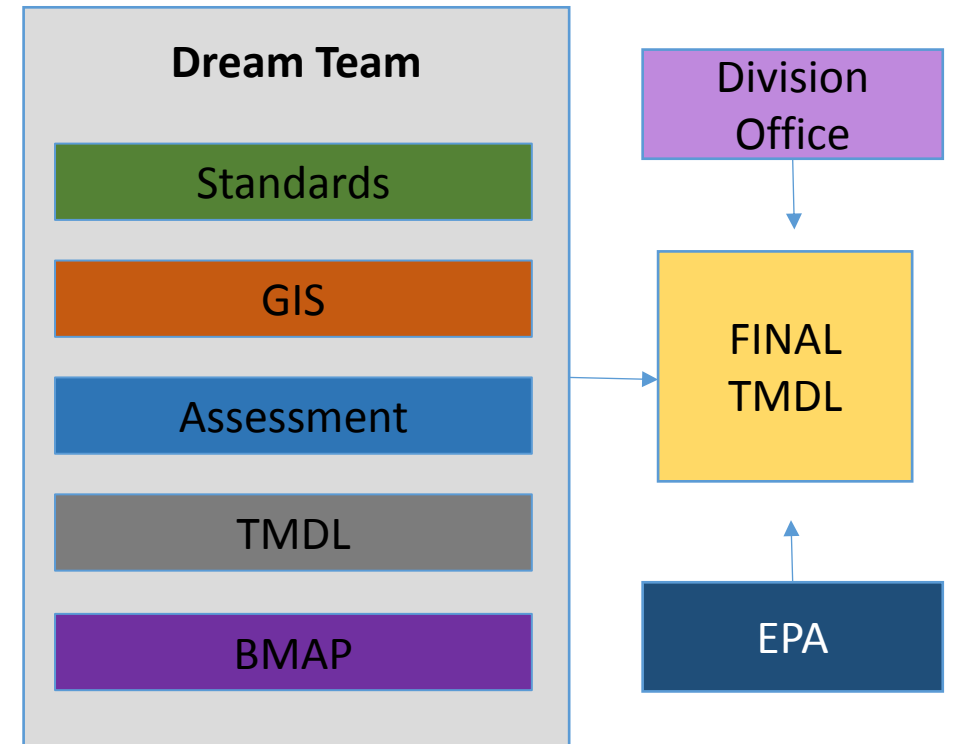
1. INTRODUCTION
2. APPLICABLE WATER QUALITY STANDARDS, POLLUTANT OF CONCERNS, AND SITE SPECIFIC TARGET
3. DETERMINATION OF THE TMDL
4. DETERMINATION OF LOADING ALLOCATIONS
5. IMPLEMENTATION PLAN DEVELOPMENT AND BEYOND

References

Appendix A: Background on Federal and State Stormwater Programs

Appendix B: Water Quality Standards Template Document

Appendix C: Ancillary Data (i.e. Model report)





TMDL Checklist

	A	B	C
1	Enter the TMDL Project Information below:		
2	Project Leader:		
3	Project Start Date:		
4	Waterbody (or Project) Name:		
5	WBID(s)#:	+	
6	Verified Cycle:		
7	IWR Run Used:		
8	Pollutant(s) of Concern:		
9	TMDL Fiscal Year:		
10	Dream Team Members:	TBD by Program Administrators	
11	Rule Number:		
12	OGC Case No.:		
13			
14			
15	Export the GIS Checklist -->	Export	
16			
17			
18			

Key Steps for Consultation Between Dream Teams, Division and EPA

21	10			Development of Sampling Plan for Supplemental Data Collection	Details on collection needs (parameters needed, time needed, etc.), and QA/QC plans. Provide Program Management with a Plan of Study for approval and coordinate with ROC staff as needed for WQ sampling.
22	11		#10/14	TMDL Dream Team Meeting-2	Second meeting to discuss the proposed TMDL development approach: model selection feedback and set target.
23	12			Brief Division Director-2	To be scheduled by TMDL PA - 10 minute
24	13		#11-13	Brief EPA-2	Project Lead/TMDL Program Management to brief EPA. Use monthly call in meeting to discuss approach with EPA; 30 day review
25	14			Prepare draft FAR Notice and GovDelivery information.	Send materials to PA for review 3 days in advance of submitting to DEP legal and WEB Administrator.
26	15			PA to submit Notice and GovDelivery announcement for TMDL Approach Technical Workshop.	Draft FAR notice should be submitted to DEP legal and Web Administrator 3 days in advance of posting date for review. GovDelivery announcement should be submitted to Web Administrator 3 days in advance of posting date. The posting date for materials must be no less than 15 days (30 days preferred) before the meeting. • CC web administrator on FAR notice submitted to DEP legal. • Include draft of Agenda, Draft Report, model files and reports, GovDelivery content and Stakeholder list.
27	16			TMDL Approach Technical Workshop	Meeting with stakeholders to discuss approach being proposed for target setting and TMDL development.
28	17		#16	Develop TMDL and draft TMDL report	Use TMDL Report Template Document
29	18			Provide report to Technical Editor	Editorial revisions.
30	19			Statement of Estimated Regulatory Costs (SERC) analysis	Draft the SERC documentation using SERC template in conjunction with SERC calculation spreadsheet tool.
31	20		#18-22	TMDL Report Review	Send draft report to Dream Team and Program Management for review.
32	21			TMDL Dream Team Meeting-3	Meeting to discuss review comments and report revisions.
33	22		#23	Revise TMDL Report	Review and incorporate comments.
34	23			Establish date and location for Public Workshop.	Check with TMDL Program Management and local offices for meeting room availability. Reserve meeting room.
35	24			Brief Division Director-3	To be scheduled by TMDL PA. This briefing should be longer and more comprehensive than previous meetings and include details on loads, reductions, etc.
36	25			Prepare draft FAR Notice, newspaper notice, and GovDelivery information.	Send materials to PA for review 3 days in advance of submitting to DEP legal and Web Administrator.

Also includes state (62-304 FAC) and federal rule making process, notifications and deadlines



Rule Making Checklist

15	8	NPR	Update tracking: <input type="checkbox"/> TMDL Tracker for each WBID to "Under Development" <input type="checkbox"/> TMDL Tracking sheet to "In Development" <input type="checkbox"/> GIS Shapefile to "In Development"	PL			
16	9	RDW	Prepare F.A.R. notice announcing rule development workshop (must hold at least one in the vicinity of the waterbody) or public meeting.	PL	3 days before review	4. F.A.R. Notice (Mtg.)	TMDL Checklist '!B39'
17	10	RDW	Review F.A.R. notice.	EA, OGC	3 days before publication		
18	11	RDW	Submit notice to F.A.R., publishes on next day.	OGC			TMDL Checklist '!B40
19	12	RDW	Submit draft report and other materials to post on TMDL web page, GovDelivery, and SharePoint.	PL	3 days before publication		TMDL Checklist '!B40
20	13	RDW	Send Microsoft Word copy of draft to EPA (Standards & TMDL).	PL, EA	30 day review period		TMDL Checklist '!B41
21	14	RDW	Before the final rule development workshop (i.e., prior to the NPR), publish newspaper notice in the vicinity of the impaired waterbody.	Administrative Assistant, PL	5 to 15 days before workshop		
22	15	RDW	Hold public workshop 30 days after F.A.R. publishes.	PL	Wait 30 days		TMDL Checklist '!B43
23	16	NPR	Update tracking: <input type="checkbox"/> TMDL Tracker for each WBID to "Draft" <input type="checkbox"/> TMDL Tracking sheet to "In Draft" <input type="checkbox"/> GIS Shapefile to "In Draft"	PL			
24	17	NPR	Prepare NPR authorization packet: <input type="checkbox"/> Memo from Dir. to Sec. (PA drafts, forwards to OGC)	PA		5. Memo (NPR)	TMDL Checklist '!B51



GIS Checklist

GIS Checklist								
1								
2	Waterbody Name:							
3	WBID #:							
4	TMDL Developer:							
5	GIS Analyst:							
6	Estimated deadline:							
7	Notes:							
8								
9	✓	Date Requested	Date Completed	Standard (Y or N)	Requested (Y or N)	Components	Template Style (1-4)	Specify data source(s)/comments:
10						TMDL Developer notes on check list: maps to be made (in addition to Standard maps) and data source to be used:		
11				Y	Y	Small Scale Map (Location of Basin and Major Geopolitical Features)		
12				Y	Y	Watershed/Springshed Scale Map (Basin with Major Geopolitical and Hydrologic Features)		
13				Y	Y	Water Quality Monitoring Map		
14				Y	Y	Watershed/Springshed Scale Landuse Map(s)		
15				Y	Y	Landuse Classification table		
16				Y	Y	Paragraph summarizing land use characteristics.		
17				Y	Y	Watershed/Springshed Septic Tank Locations		Default FWMI unless specified otherwise
18				Y	Y	Watershed/Springshed Soil Types		
19				N		Watershed/Springshed Scale Digital Elevation Model with Contours		
20				N		Map of NPDES Facility outfalls within Watershed/Springshed		
21				N		Table of NPDES facilities		
22				N		Map of MS4 Boundaries within Watershed/Springshed		
23				N		Table of MS4 permittees and co-permittees		
24				N		Watershed/Springshed Population Density		
25				N		Summary of population density, housing density, etc.		
26				N		Model grid Map (if applicable)		
27				N		Model Subbasins Map (if applicable)		
28				N		Aquifer Vulnerability/FAVA Map/County Specific AVA (if applicable - for Springs TMDLs)		
29				N				
30				N				
31						Conduct an internal review of the maps with the GIS section before drafts are sent to the TMDL Developer.		
32						Export maps as 300 dpi JPEG and place maps in the Dream Team/Maps/Drafts folder for TMDL Developer review.		
33						Make changes as need and export revised maps as 300 dpi JPEG. Place final maps in the Dream Team/Maps/Final folder for insertion into TMDL report.		



Contacts

Erin Rasnake

Program Administrator

Water Quality Evaluation and TMDL Program (WQETP)

Erin.Rasnake@dep.state.fl.us

850.245.8338

Pamela Flores

Environmental Consultant

Watershed Evaluation and TMDL Section (WET)

Pamela.Flores@dep.state.fl.us

850.245.8457



QUESTIONS

