



Florida Department of Environmental Protection

Basin Management Action Plan Weeki Wachee & Aripeka Springs

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Terry Hansen P.G., Basin Coordinator

850-245-8561

Terry.Hansen@dep.state.fl.us





Topics

- BMAP Overview
- Nutrient Source Inventory Loading Tool (NSILT)
- Florida Springs and Aquifer Protection Act
- BMAP Schedule



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BMAP Overview





Springs Coast

BMAPs in development

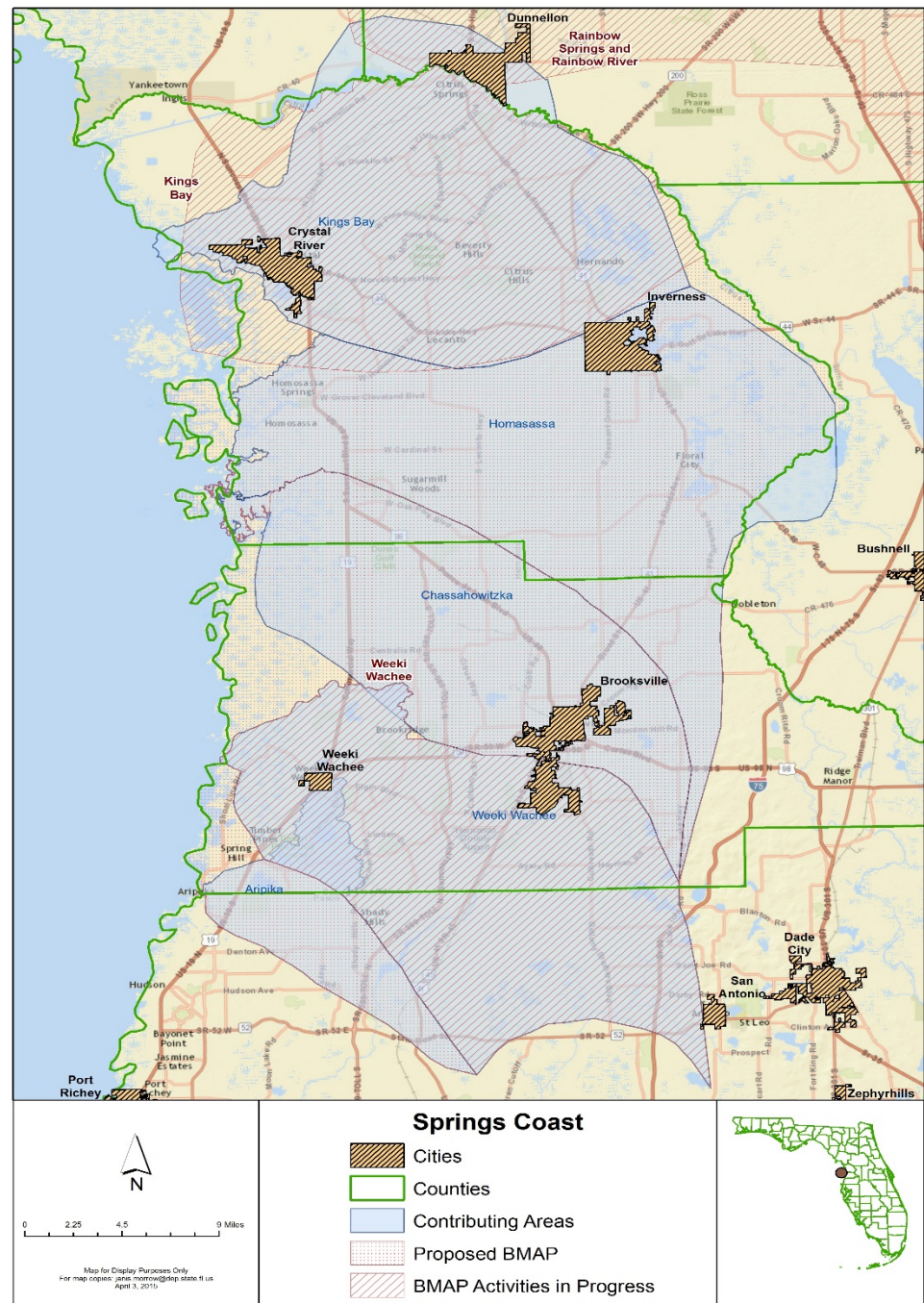
- Crystal River / Kings Bay
- Weeki Wachee

TMDL finalized

- Homosassa
- Chaz

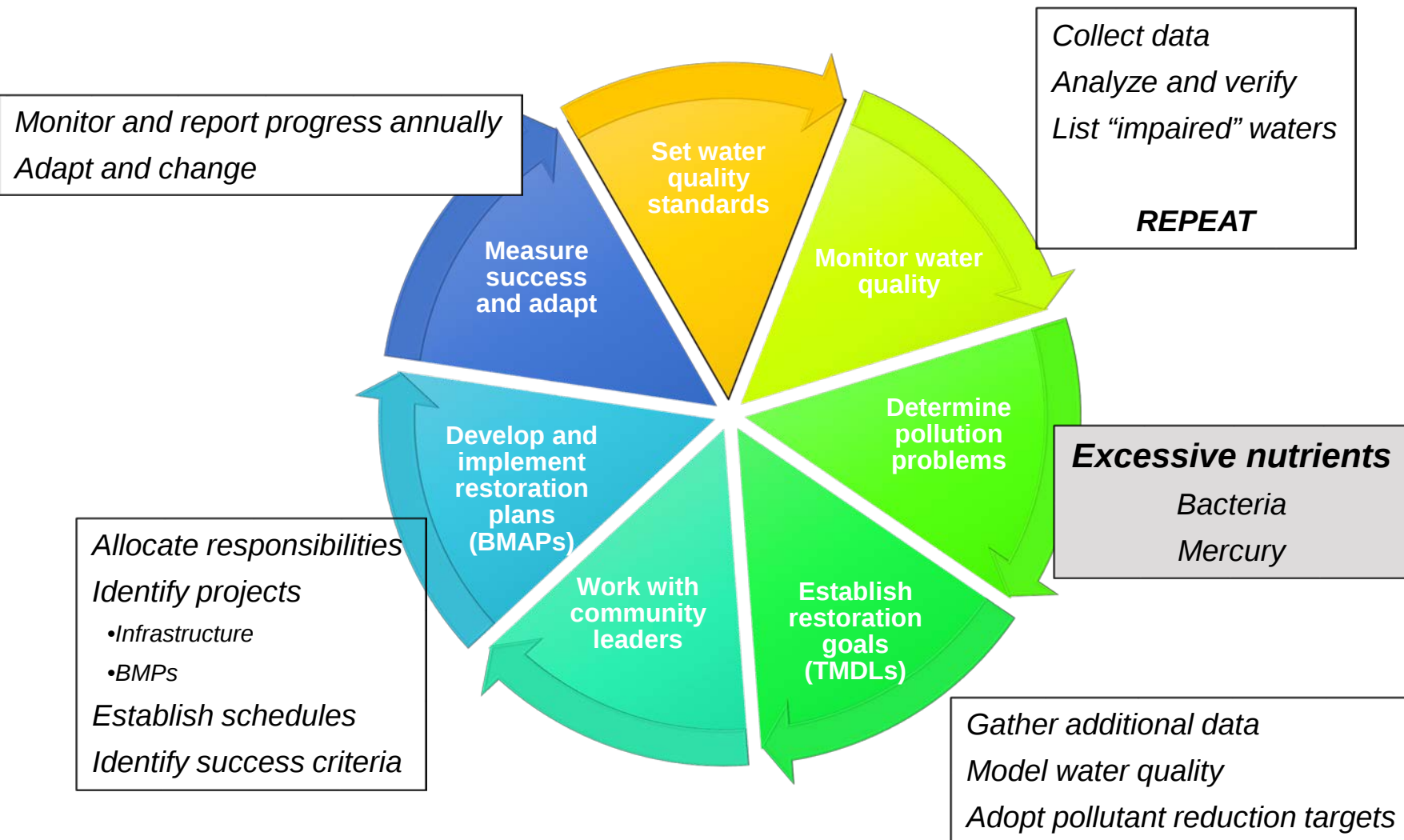
TMDL in development

- Aripeka





Water Quality Framework





Basin Management Action Plan

- Florida Department of Environmental Protection's method for restoring water quality to an impaired water body.
- BMAPs are adopted by DEP through a Secretarial Order.
- BMAPs are enforceable.
- BMAPs are reviewed annually and updated every five years.



Regulatory Framework

- The process for preparing BMAPs is found in:
 - Section 403.067, Florida Statutes (F.S.), Florida Watershed Restoration Act (FWRA).
 - Spells out issues that are addressed within a BMAP.





Weeki Wachee Nitrate TMDL

Table 6.2. TMDL Components for Weeki Wachee Spring and River

* N/A = Not applicable

Waterbody (WBID)	Parameter	TMDL (mg/L)	TMDL % reduction	Wasteload Allocation for Wastewater*	Wasteload Allocation for NPDES Stormwater % Reduction*	LA % reduction	MOS
Weeki Wachee Spring (WBID 1382B),	Nitrate as annual average	0.28	71.1	N/A	71.1	71.1	Implicit
Weeki Wachee River (WBID 1382F)	Nitrate as annual average	0.20	77.3	N/A	77.3	77.3	Implicit



Aripeka Group TMDLs

Table 6.2. TMDL components for Boat Spring, Bobhill Spring, Magnolia Spring, Jenkins Creek Spring, Mud Spring, Salt Spring, and Wilderness Spring

N/A = Not applicable

WATERBODY (WBID)	PARAMETER	TMDL (MG/L)	TMDL % REDUCTION	WASTELOAD ALLOCATION FOR WASTEWATER	WASTELOAD ALLOCATION FOR NPDES STORMWATER % REDUCTION	LOAD ALLOCATION % REDUCTION	MOS
Boat Spring	Nitrate as Annual Average	0.23	65%	N/A	65%	65%	Implicit
Bobhill Spring	Nitrate as Annual Average	0.23	77%	N/A	77%	77%	Implicit
Magnolia Spring	Nitrate as Annual Average	0.23	63%	N/A	63%	63%	Implicit
Jenkins Creek Spring	Nitrate as Annual Average	0.23	73%	N/A	73%	73%	Implicit
Mud Spring	Nitrate as Annual Average	0.23	48%	N/A	48%	48%	Implicit
Salt Spring	Nitrate as Annual Average	0.23	62%	N/A	62%	62%	Implicit
Wilderness Spring	Nitrate as Annual Average	0.23	52%	N/A	52%	52%	Implicit



Stakeholders

- Reduce nutrient footprint
- Agricultural producers:
 - Enroll in Florida Department of Agriculture and Consumer Services (FDACS) Best Management Practices (BMPs) or Monitor
- Homeowners:
 - Observe fertilizer ordinance
 - Healthy septic tank process



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NSILT





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Florida Springs and Aquifer Protection Act





Florida Springs and Aquifer Protection Act (2016-1)

- The 2016 Florida Springs and Aquifer Protection Act lists requirements for BMAPs for Outstanding Florida Springs (OFS):
 - BMAPs must be adopted within two years after initiation and must include detailed project, financial and water quality benefits information; five-year incremental milestones; and implementation plan designed with a target to achieve the TMDL no more than 20 years after adoption (373.807(1)(b), F.S.).
- Specifically:
 - Delineate priority focus area (PFA)



Florida Springs and Aquifer Protection Act (2016-1)

- Specifically:
 - Delineate priority focus area (PFA)
 - List of projects identified
 - OSTDS remediation plan
 - Identification of point sources and nonpoint source categories with estimated load allocations (NSILT)
 - Fertilizer Ordinance for all local governments
 - Ag BMPs
 - Prohibits
 - WWTF >100,00 GPD, UNLESS AWT is used
 - New OSTDS on < 1acre lots
 - Land application biosolids ban
 - Haz. waste facilities



Florida Springs and Aquifer Protection Act

- After the BMAP is adopted:
 - **Funding**--Provides stakeholder the opportunity to access funding sources that require an adopted BMAP to be considered for receiving funds
 - **Focus**--Allows the development of priority focus areas (PFAs) for the listed springs and determine the required actions within the PFA
 - **Inventory**--Allows refinement of the NSILT to determine the required estimates of a project's nutrient load reductions
 - **Pilot Projects**--Allows development and implementation of innovative pilot BMP activities and effectiveness determination prior to required rulemaking



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BMAP Schedule





BMAP Schedule

- BMAP Adoption by June 2017
- Includes development of 5-year, 10-year, and 15-year goals
- Includes a detailed plan to meet TMDL in 20 years
- Monthly meetings to develop strategies to meet 2016-1 requirements
- July Meeting to focus on OSTDS Remediation Plan



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CONTACTS:

BMAP

Terry Hansen, P.G. terry.hansen@dep.state.fl.us

<http://www.dep.state.fl.us/water/>

