




Resilience: A WMD Perspective

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SJRWMD

Resilience Framework

State

Local

		
RESOURCES	FUNDING	COORDINATION
Florida Adaptation Planning Guidebook & Technical Assistance	Resilience Planning & Implementati on Grants	Quarterly Coastal Resilience Forum

- **Adaptation Action Areas (AAA)**
Section 163.3177(6)(g)(10)
- **Peril of Flood Act**
Section 163.3178(2)(f)1

Core Missions



Water supply



Flood protection



Water quality



Natural systems

Resilient Florida

SB 1954 addresses statewide flooding and SLR




- Regional Flooding and Stormwater Projects
- Land Acquisition
- Nature-based Green Infrastructure

Projects for Statewide Flooding and SLR

- Crane Creek
- Sebastian River Storage and Treatment
- C-10 Water Management Area
- Sunnyhill
- Lake Apopka North Shore

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

Sebastian River Improvement District Treatment and Storage



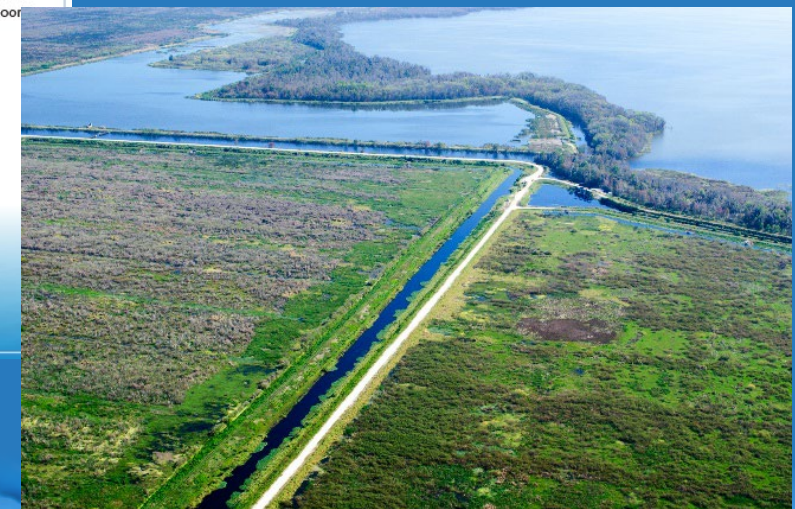
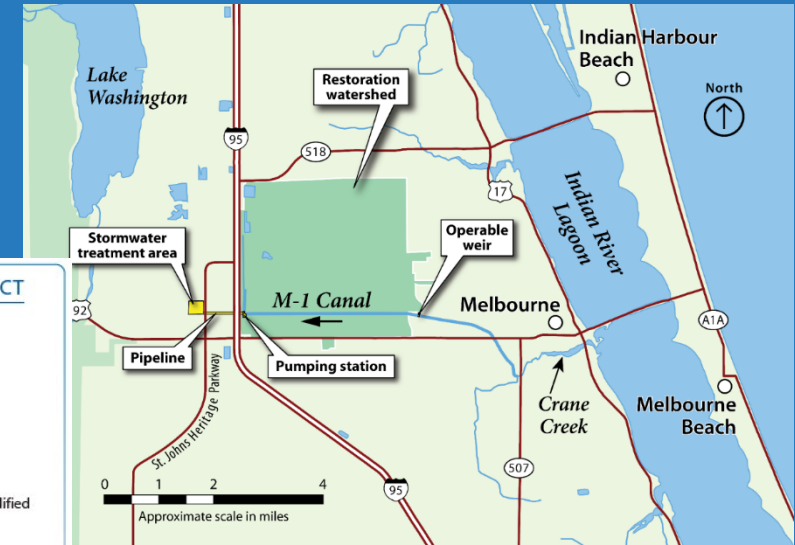

Primary Mission: Water Quality
Secondary Benefit: Alternative Water Supply and Flood Mitigation

Scope: Modify existing gates with modified weirs and divert flow to a reservoir or stormwater treatment area

Cost: \$35,000 for updated feasibility study and \$11–24 million for design, permitting, and construction

Benefit: Estimated nutrient load reduction to Sebastian River and Indian River Lagoon

- 33,000 lbs./yr. TN
- 4,000 lbs./yr. TP



Land Acquisition Priorities

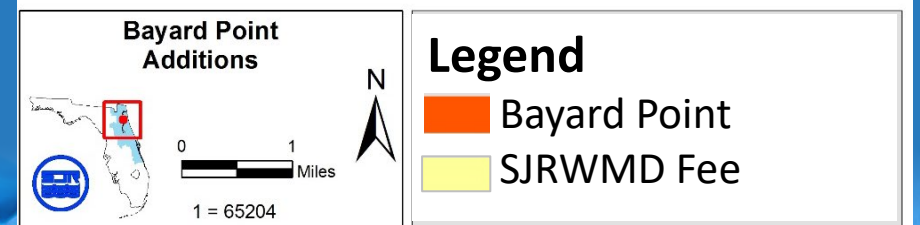
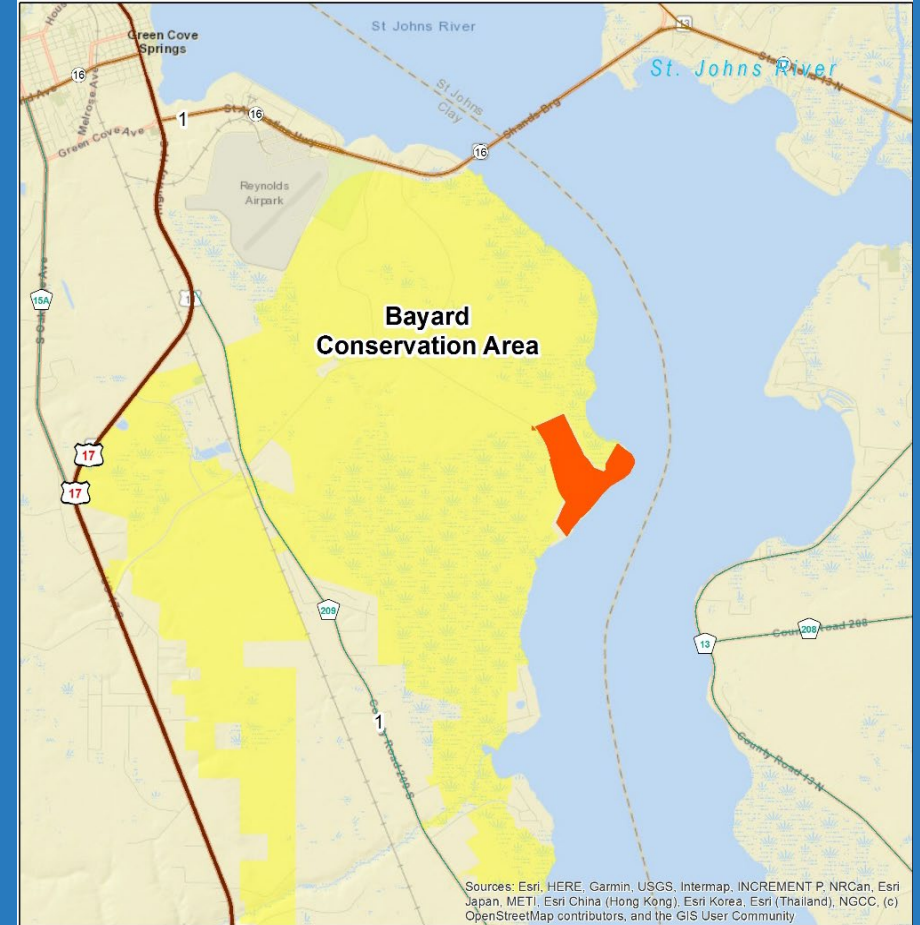
➤ SJRWMD Critical Lands

- Adjacent to Existing District Lands
- Needed for District Projects

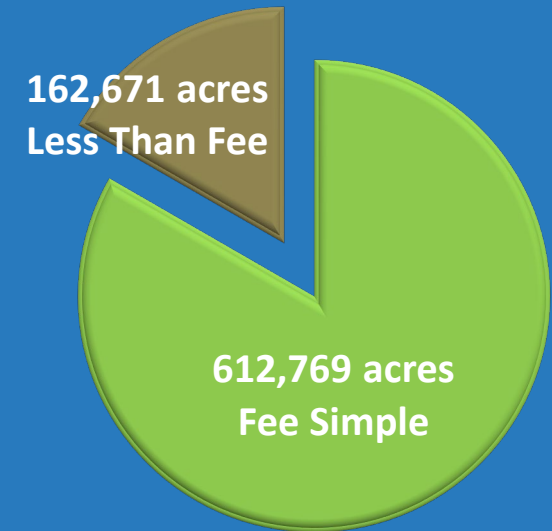
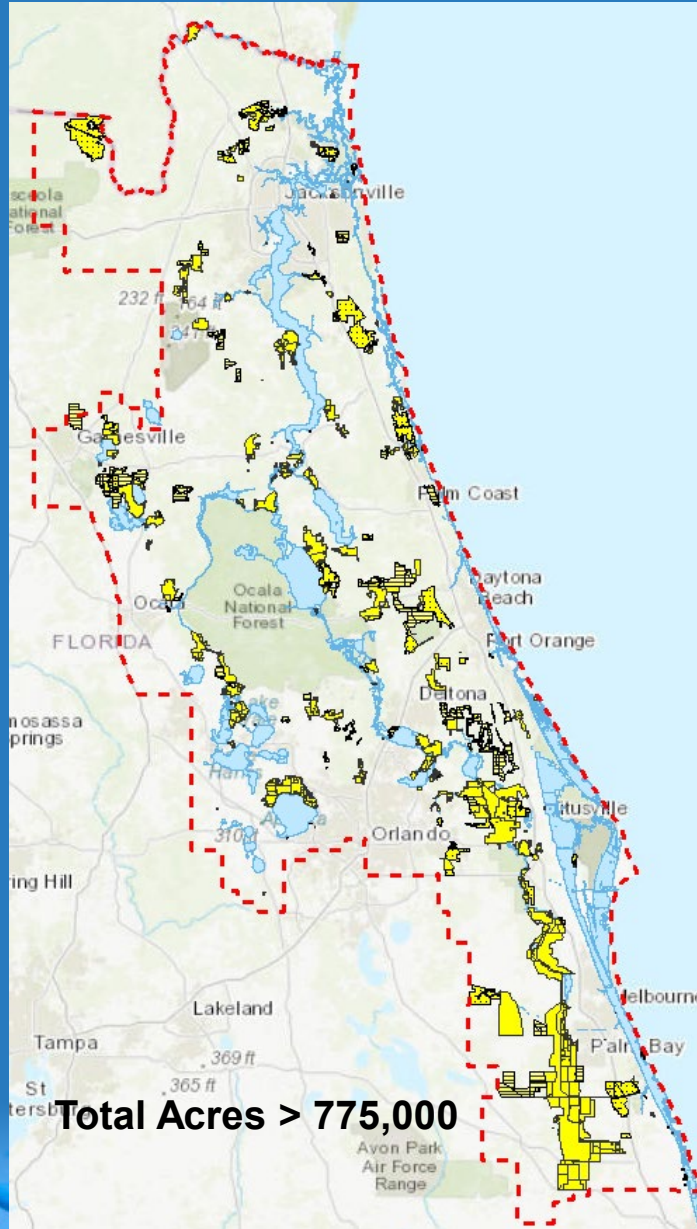
➤ Floodplain

- Current
- Historic for St. Johns River

➤ Wetlands



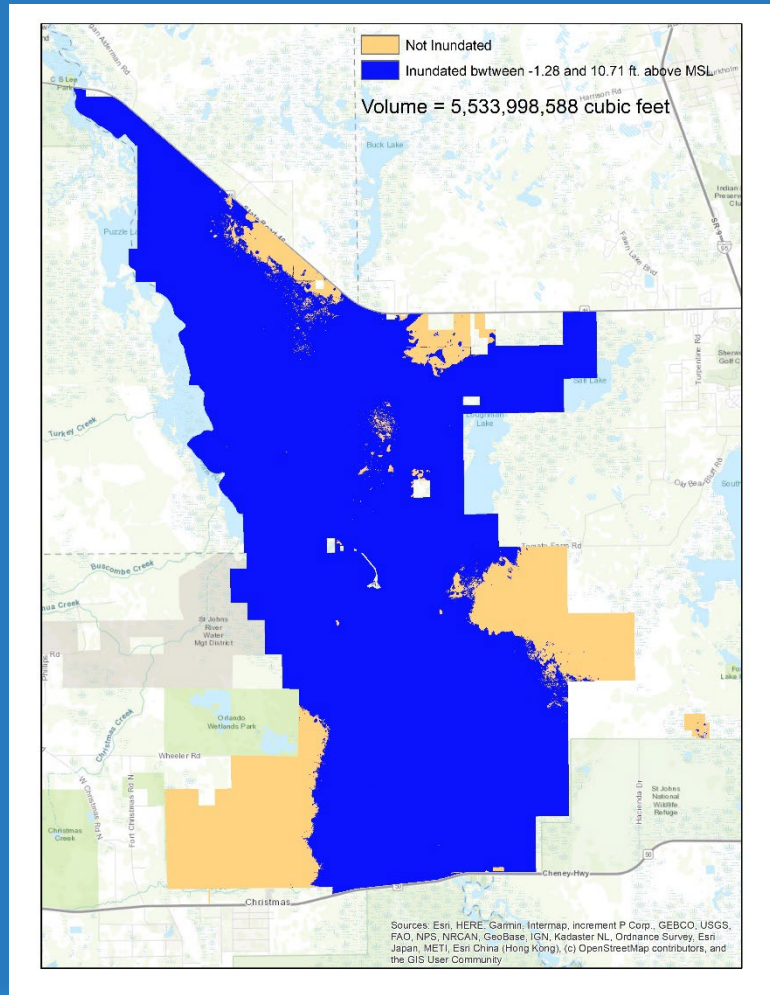
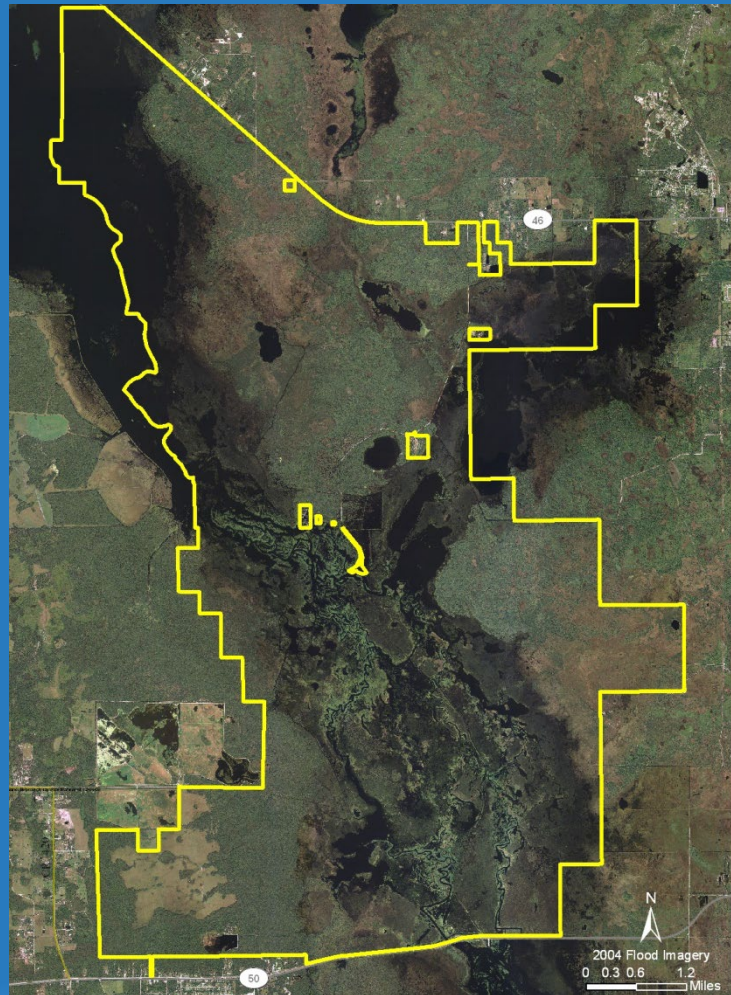
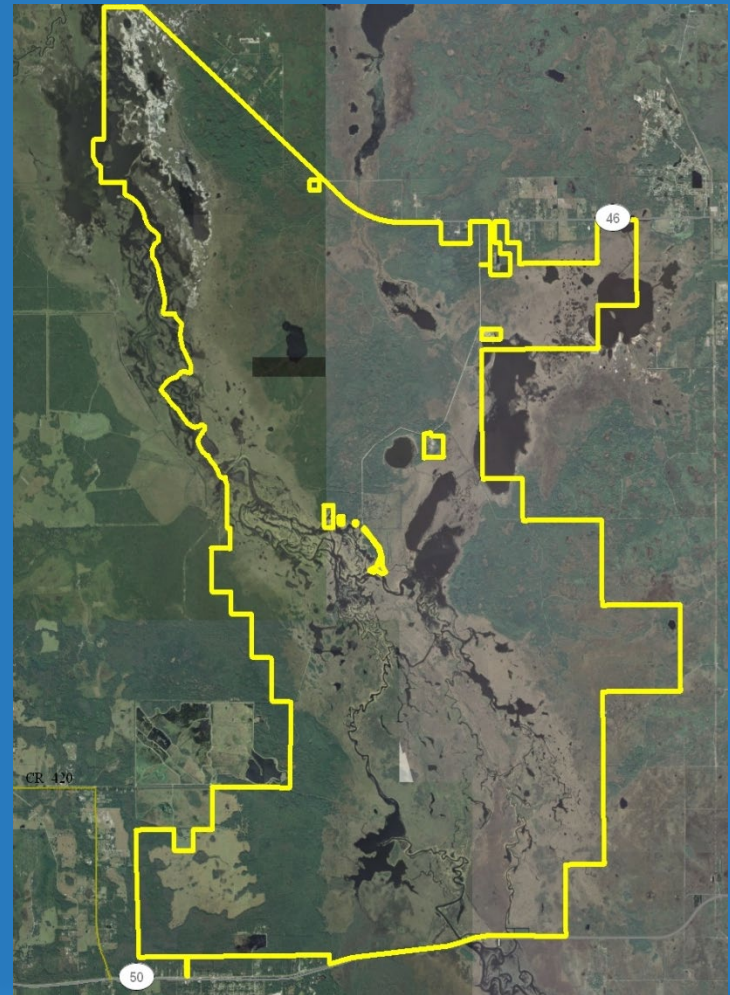
Land Acquisition and Management



Natural Systems/Flood Control

Dry and Wet Conditions

Flood Storage Volume
= 127,043 acre-feet



Green Infrastructure



Living Shoreline and Seagrass



Oyster Bar Restoration

SJRWMD Cost-Share FY 2014-2021

>560 projects
with partners

>\$730M Total
Investment

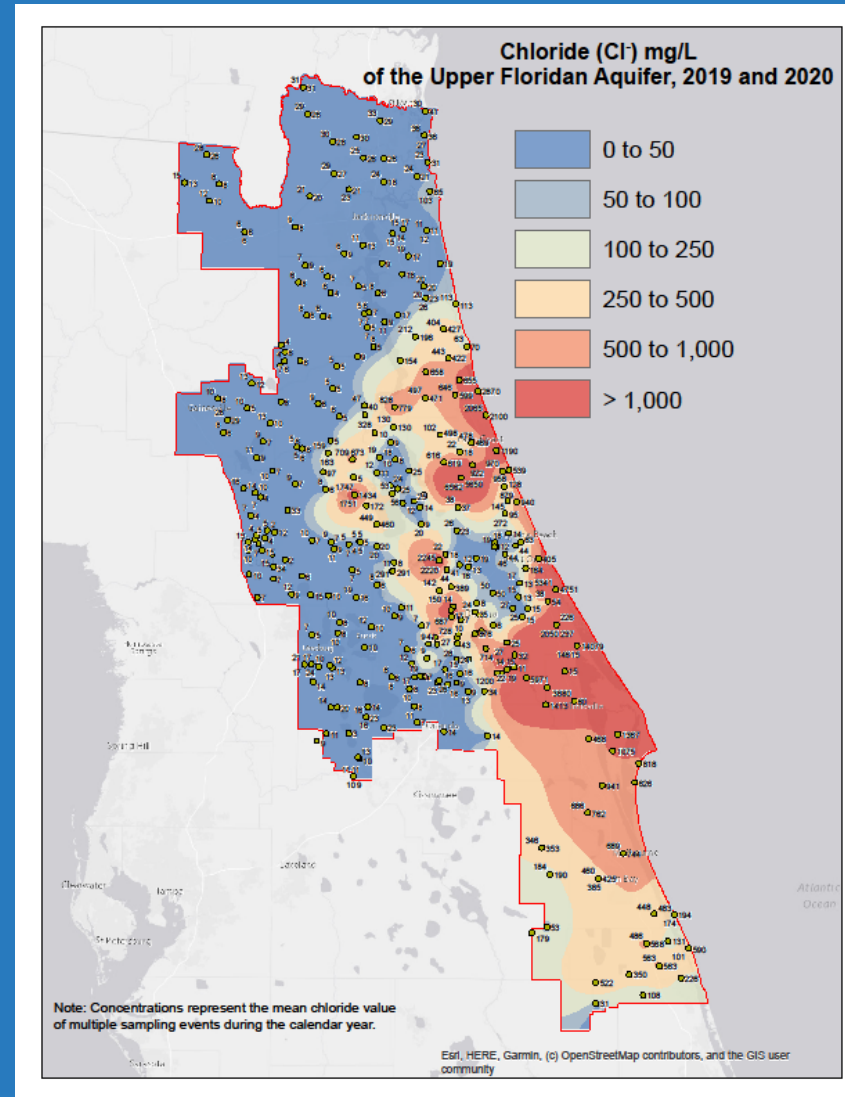
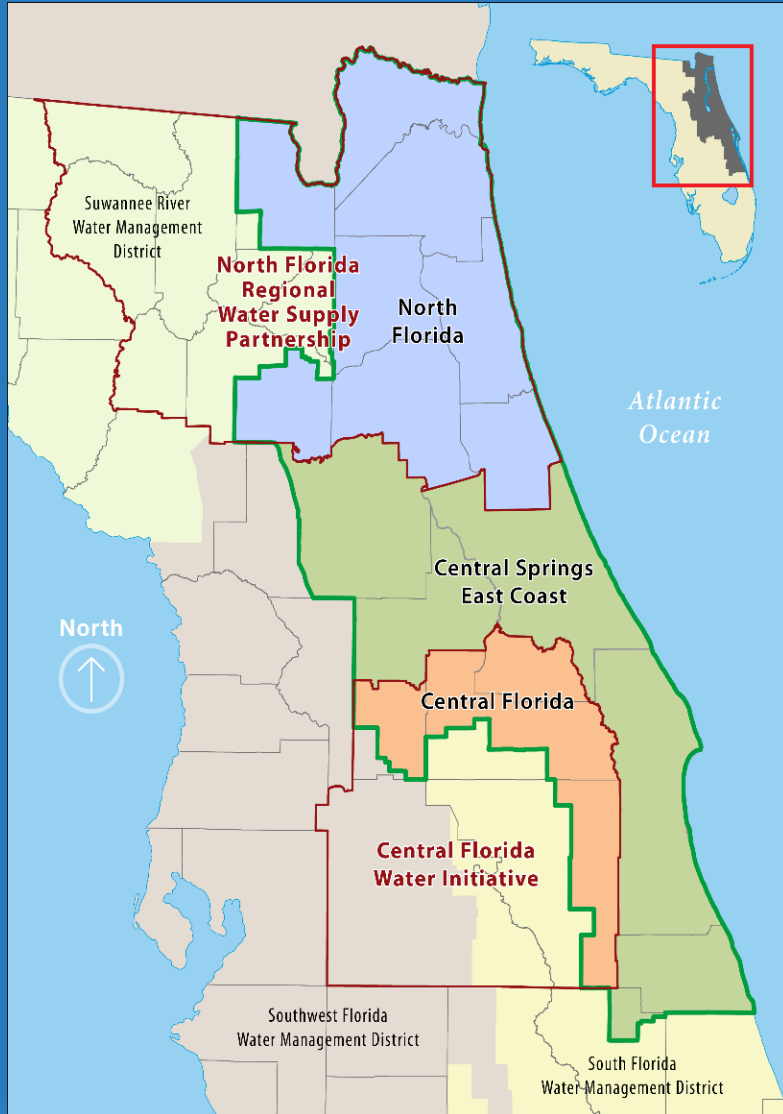


Types of Valves being Tested to Reduce Nuisance Flooding

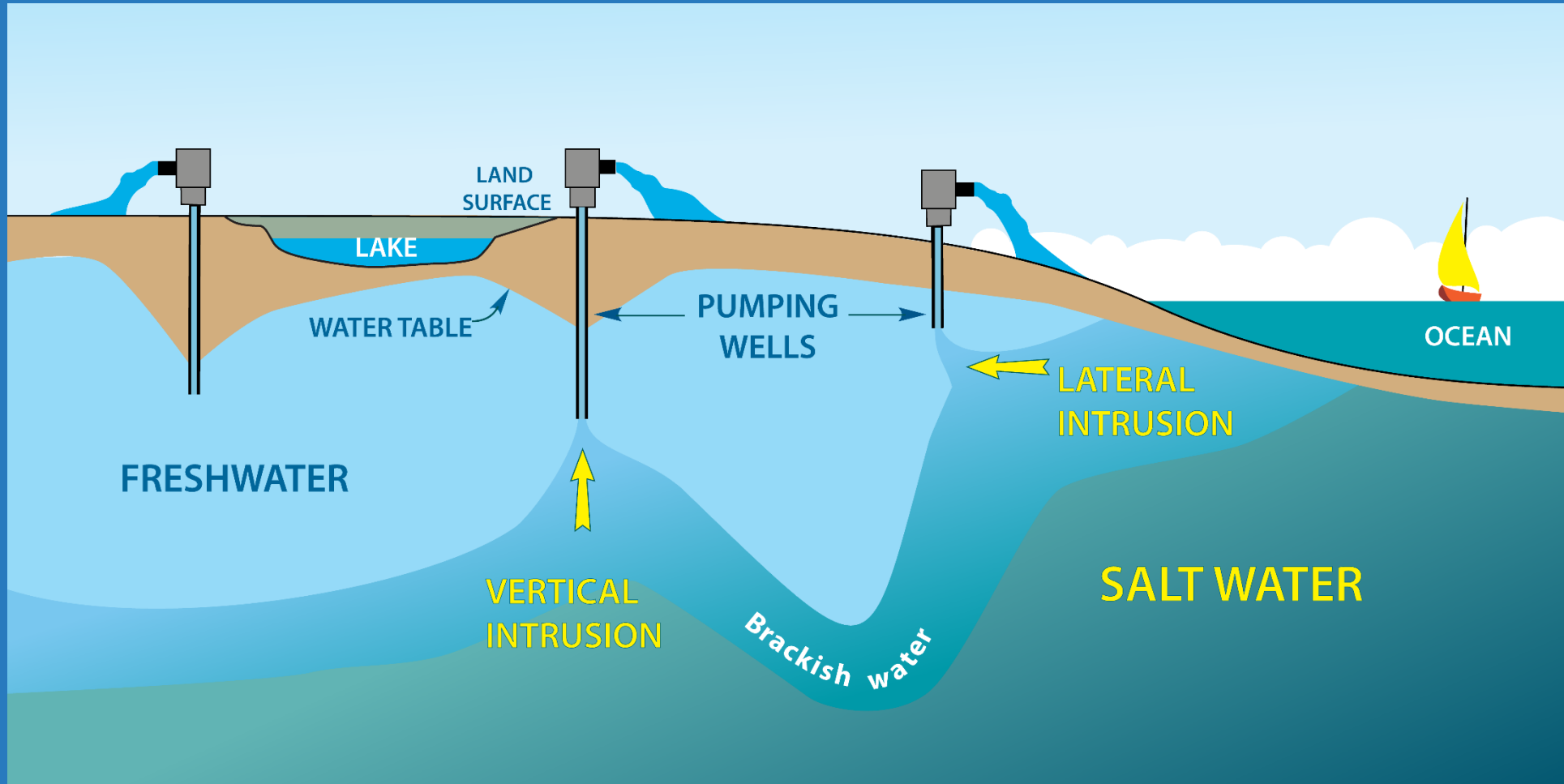
The complex block contains three diagrams on the left showing the operation of a check valve: 'FULLY OPEN' (water flowing through), 'PARTIALLY OPEN' (water flowing through), and 'FULLY CLOSED' (water blocked). To the right is a photograph of two workers in safety gear installing a large black pipe into a trench. Below the diagrams is a small inset image of a valve mechanism. At the bottom right is the City of St. Augustine logo, which includes the text 'CITY OF ST. AUGUSTINE' and 'EST. 1866'.

One type of tide check valve, Tideflex CheckMate In-line Check Valve[®] will allow stormwater to drain out under lower tide conditions. During high tide, the valve will prevent sea water from backing up into the stormwater pipe network.

Water Supply Planning



Saltwater Intrusion



Thank You!

