TAMPA BAY WATER

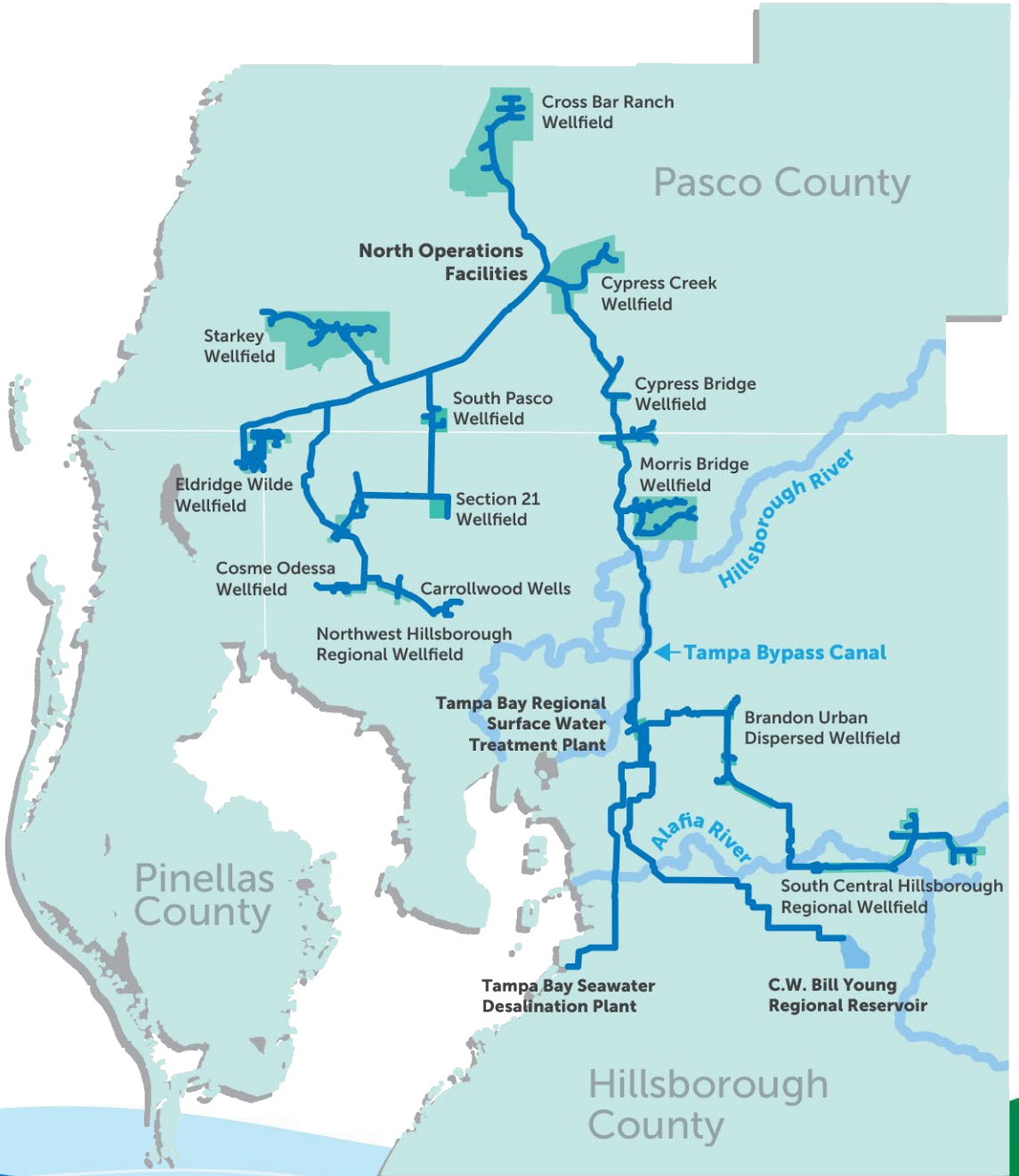
South Hillsborough Wellfield Update

Community Meeting
SouthShore Regional Library
15816 Beth Shields Way, Ruskin, FL
Aug. 5, 2025

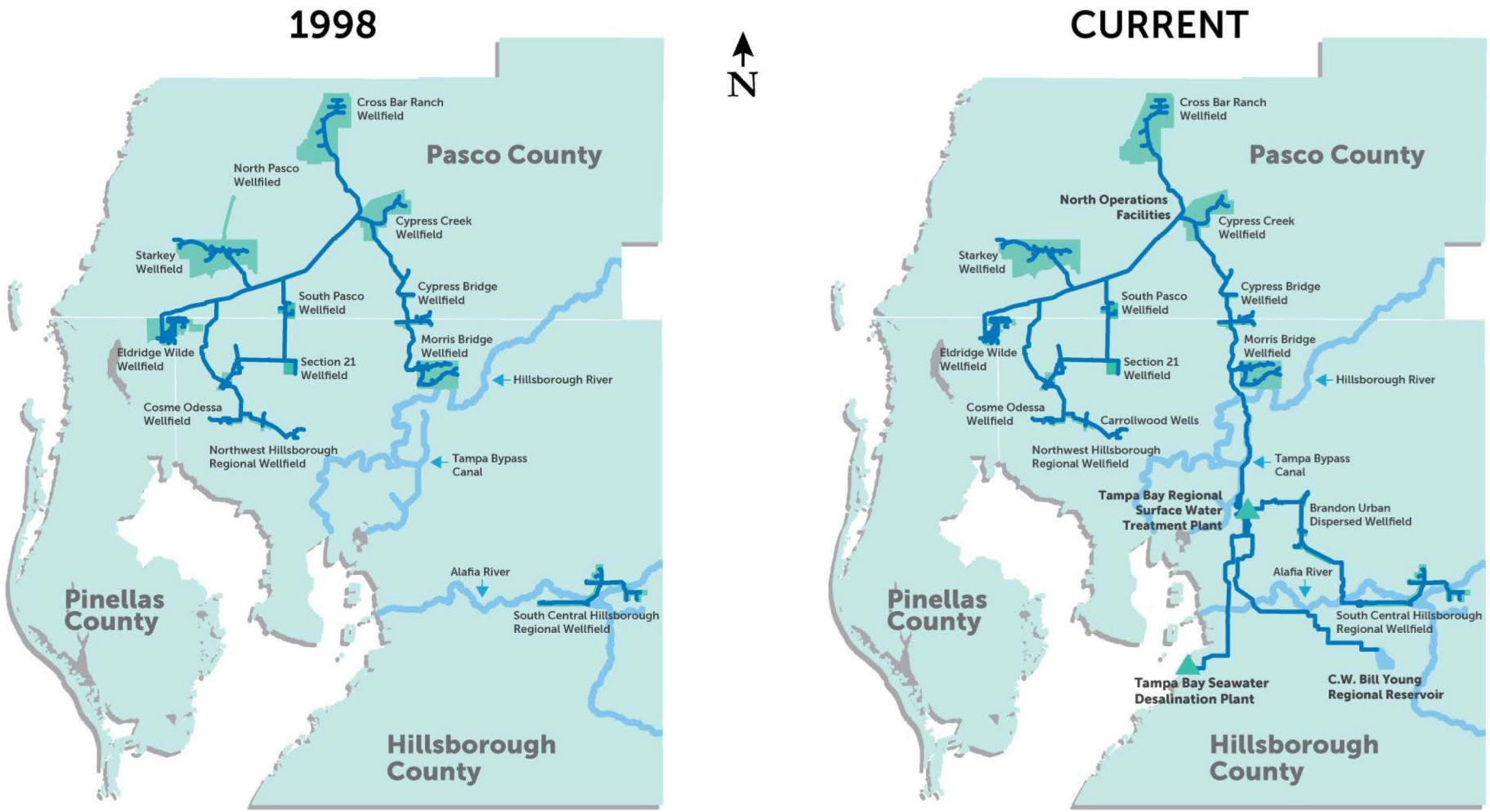
Warren Hogg, P.G.
Chief Science Officer

Interconnected Regional System

- 6 local governments
- 2.6 million end customers
- Average daily demand
  ~ 200 million gallons per day
- Sources:
  - 13 wellfields
  - 2 surface water intakes
  - 1 seawater intake
  - 1 reservoir



$2 Billion Investment in Infrastructure



Balancing Water Supply & the Environment

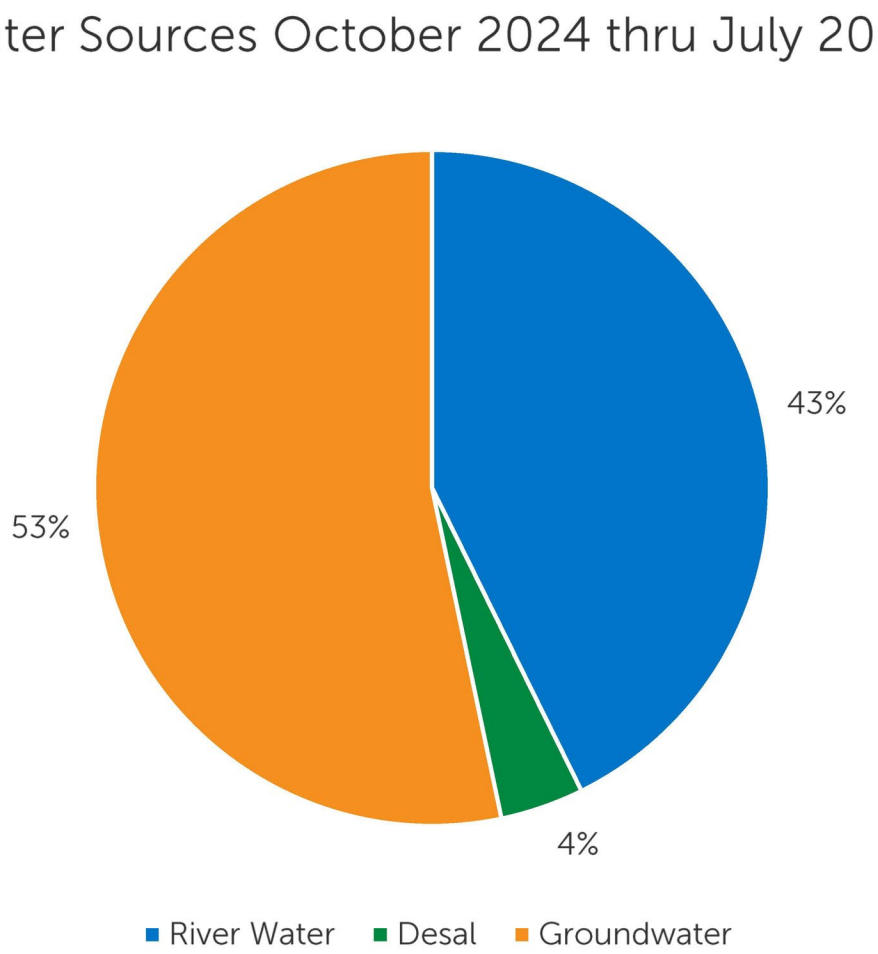
Before pumping reduction

Stanford Lake - 1998

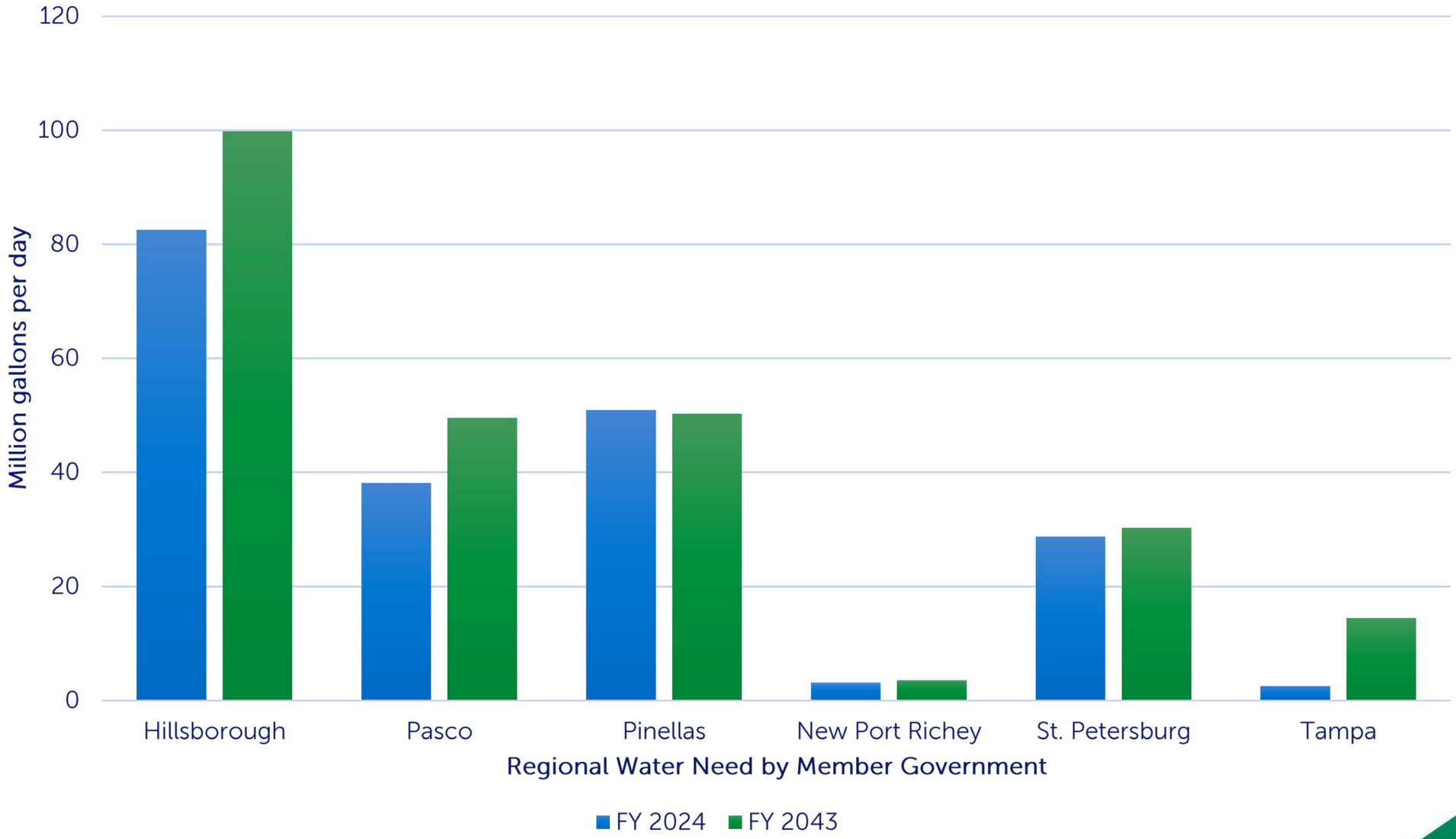
After pumping reduction

Stanford Lake - 2019

Diverse Sources Meeting Regional Needs



2024 Water Demand vs 2043 Projections



Short List Concepts

A. Eastern Pasco Wellfield

B. Consolidated WUP Increase

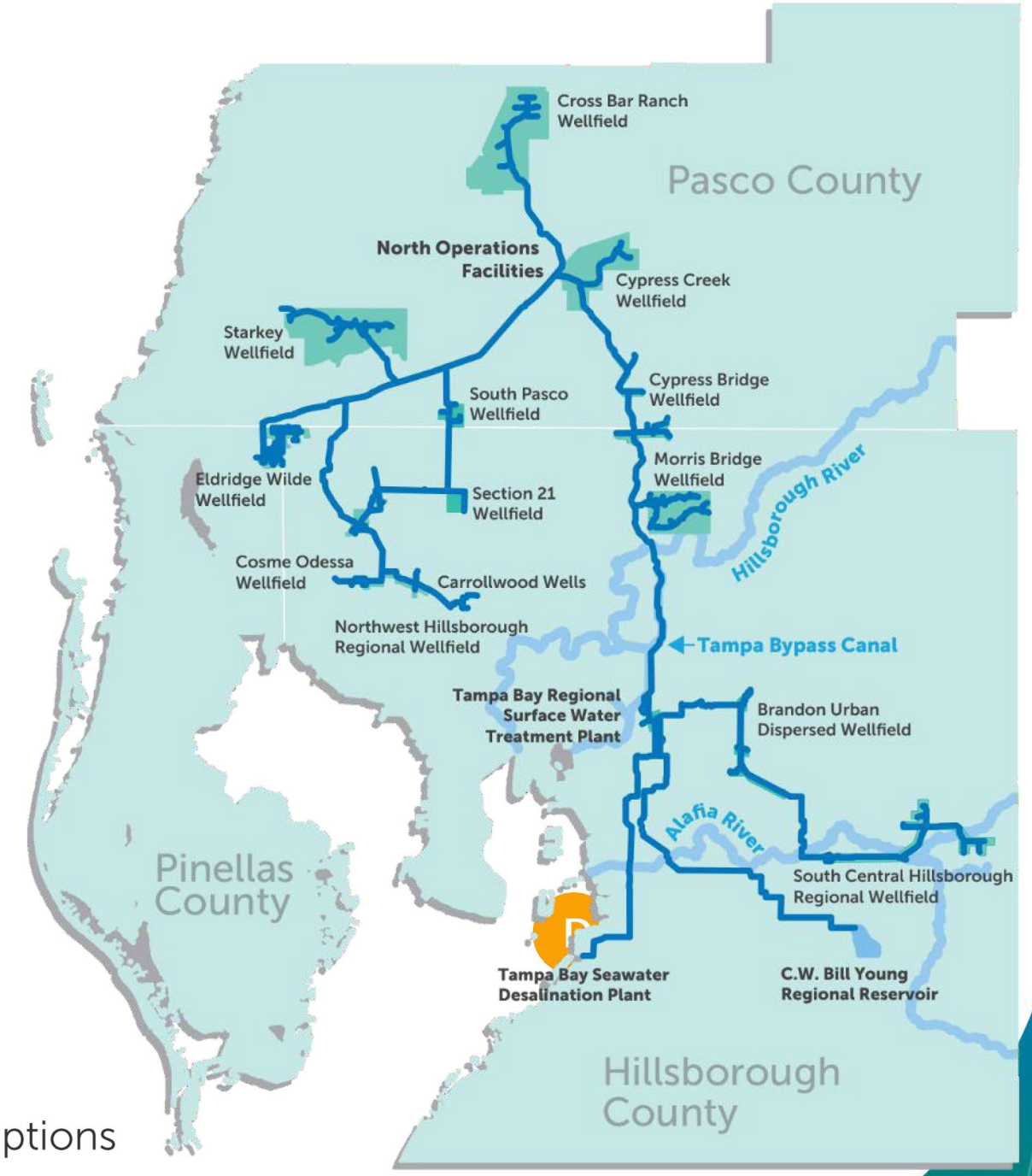
C. North Pinellas Surface Water Treatment Plant & Reservoir

D. Desalination Plant Expansion*

E. Surface Water Treatment Plant at C.W. Bill Young Regional Reservoir via Alafia withdrawals

F. South Hillsborough Surface Water Treatment Plant & Reservoir

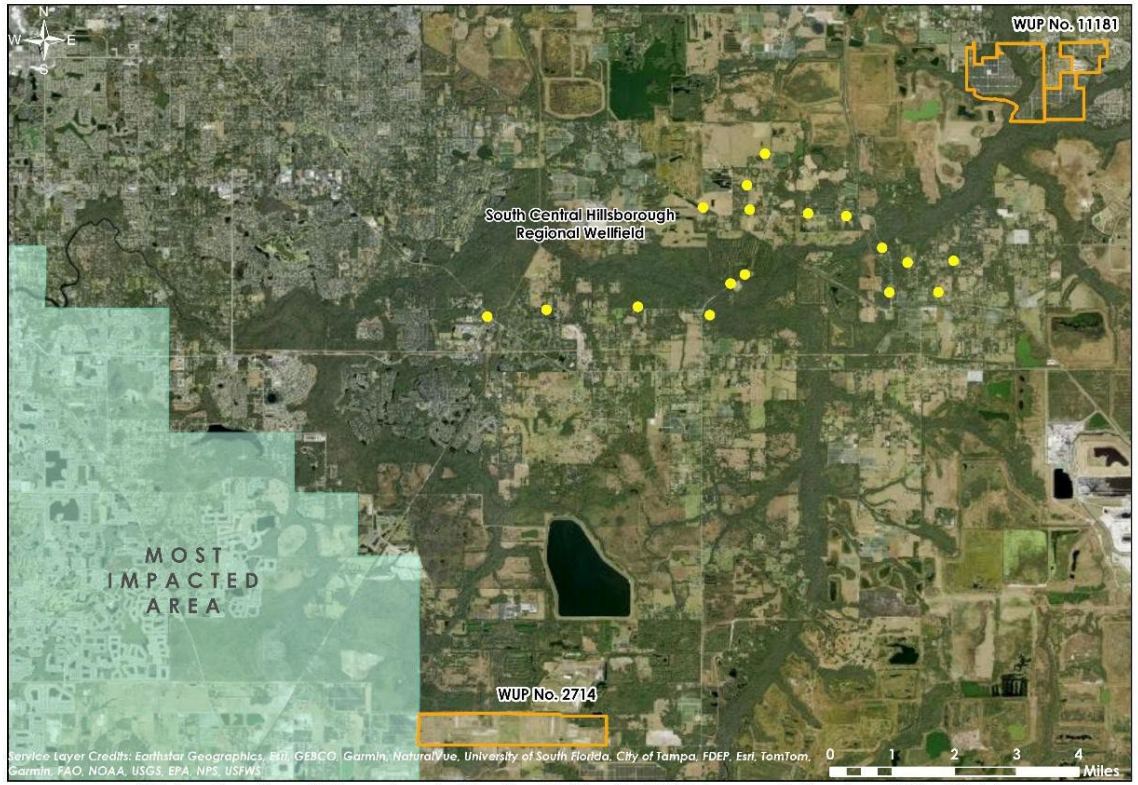
G. South Hillsborough Wellfield



* Indicates multiple types of water source options

South-Central Hillsborough Regional Wellfield

- Water Use Permit limit
  - 24.95 million gallons per day
- Permit quantity acquisition
  - TECO (November 2024)
  - Hillsborough County (January 2025)
  - Increase permit limit to 26.92 million gallons per day
  - 10% left for the environment



Water Use Permit Transfers to the South Central Hillsborough Regional Wellfield

Water Use Permit Boundary
South Central Hillsborough Production Well
Water Use Caution Area
Most Impacted Area of the SWUCA

Acquired Permits

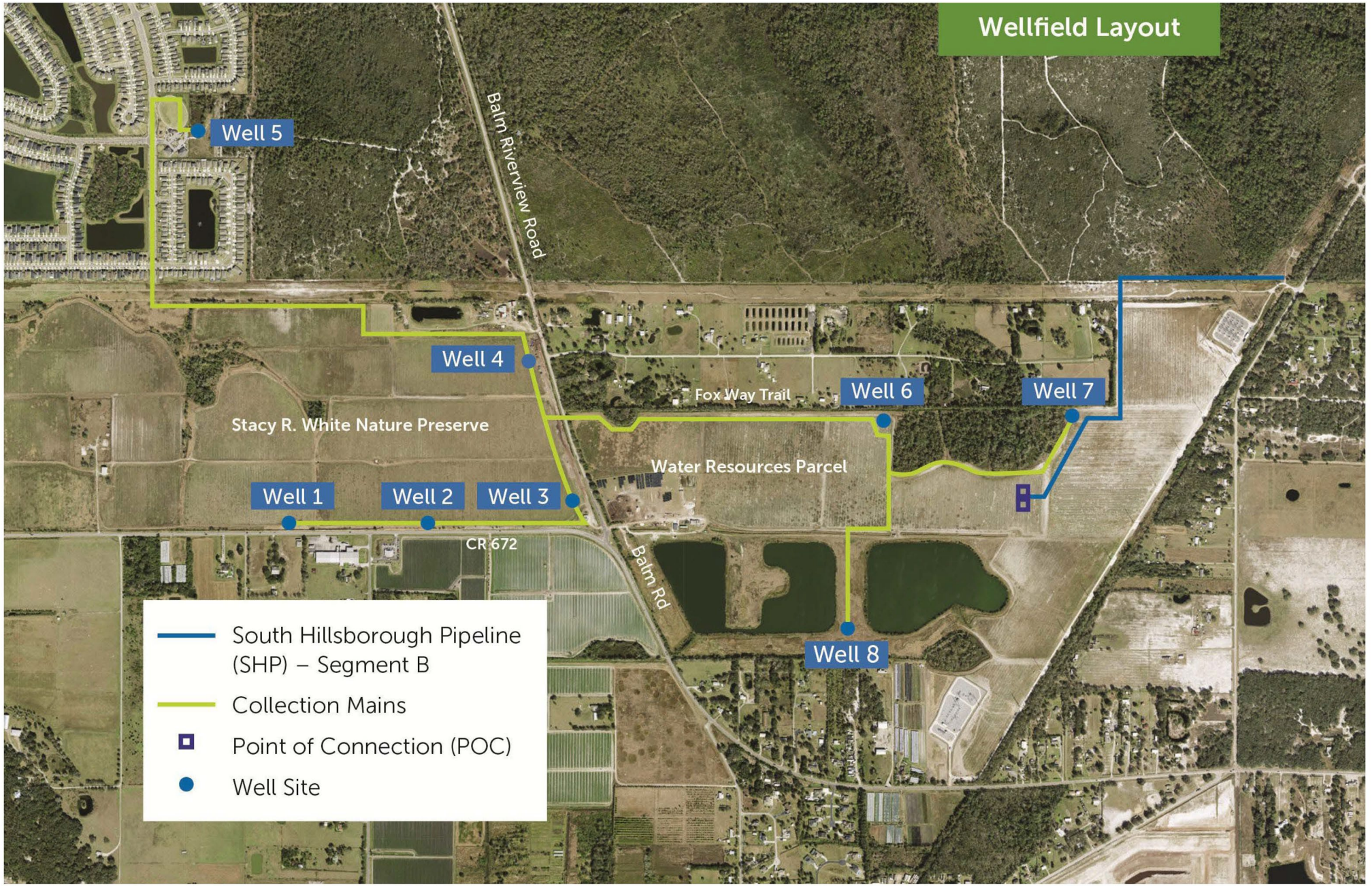
- Land Reserve & Farmland Reserve
  - 5 water use permits
  - 3.9-5.9 million gallons per day total
  - 10% left for environment
- Permit quantities determined by Southwest Florida Water Management District

TAMPA BAY WATER

South Hillsborough Wellfield

- 8 production wells
- 6 to 12 million gallons per day yield
- Groundwater ozone treatment facility
- 4 miles of collection main
- Point of connection/metering facilities
- Estimated capital costs: $126 million to $160 million

TAMPA BAY WATER



Aquifer Performance Test Results

Highly productive aquifer; high-quality water at 3 million gallons per day

- Meets all state and federal drinking water standards
- Will require treatment to meet additional Tampa Bay Water standards
- Hydrogen sulfide

Aquifer Performance Test Results

Thick confining layer and minimal drawdown

- 250-foot confining layer separates shallow and deep aquifers
- No anticipated impacts to lakes, wetlands, springs or rivers

Aquifer Performance Test Results

- Minor drawdown – 2.5 feet in the Upper Floridan Aquifer; 0 feet in the water table aquifer
  - Water levels naturally fluctuate 15-20 feet in this area
  - No adverse impacts to existing legal users
- Domestic Well Mitigation Policy
  - any water-level/quality complaint is investigated; if caused by pumping, Tampa Bay Water mitigates

Upcoming Activities and Board Actions

Property

- Property Exchange with ELAPP
- Water Resources Department Balm Water Campus

Capacity

- Water Use Permit for Acquired Quantities
- Long-term Agreement for Withdrawal Credits

Implementation

- Public Engagement
- Project Approval
- Engineering Services Selection
- Construction Manager at Risk Selection

Initial Timing

- Tampa Bay Water Board Approval: Late Summer/Fall 2025
- Initial Water Use Permit: end of 2025
- Professional Services Solicitation: 6 Months
- Design & Permitting: 24 months
- Construction: 15-18 months
- Project could be online as early as 2030

Give Us Feedback & Stay Informed

- Take our survey – on your device or ours

- Stay informed
  - Join our email list: SHWinfo@tampabaywater.org
  - Check the website: TampaBayWater.org/SHW
  - Call us: (813) 996-4235

Thank you. Questions?

Project Website Page: TampaBayWater.org/SHW

Email: SHWinfo@tampabaywater.org

Phone: 813-996-4235