



FY 2017 – 2018 BUDGET

UTILITY CAPITAL 8.7.17



GOALS

- ASSURE ADEQUATE WATER SUPPLY
- MODERNIZE FACILITIES
- REPAIR AGING INFRASTRUCTURE
- IMPROVE EFFICIENCY
- ENHANCE SECURITY
- BEST IN CLASS UTILITY

Public Water and Sewer Utility Department

- Guardian of Public Health and Safety
 - Clean Drinking Water
 - Sanitary Provisions
 - Fire Protection
- Essential for Economic Development
- Critical for Long Term Village Sustainability
- Much of System Installed in 1970's
- Major Components Nearing Useful Life
- Utility Fund Capital Reserves Available (\$46.5 Million)
- Investments Required to Maintain Public Health and Safety



UTILITY FACTS

RAW WATER SUPPLY

18 RAW
WATER WELLS

RAW WATER TRANSMISSION

35 MILES
OF PIPE

WATER TREATMENT FACILITIES

11.0 MGD TOTAL CAPACITY

6.3 MGD REVERSE OSMOSIS

4.7 MGD LIME SOFTENING

DEEP INJECTON WELL 2,000 FT DEEP

WATER DISTRIBUTION

400 +/-
MILES OF PIPE

1,650 +/-
FIREHYDRANTS

3,000 +/-
SYSTEM VALVES

RECLAMATION & REUSE

6.5 MGD TOTAL
CAPACITY

4.0 MGD TOTAL
CAPACITY REUSE

DEEP INJECTON WELL 3,500 FT DEEP



WATER STORAGE AND PUMPING

6 STORAGE
TANKS

8.25 MG OF
STORAGE

WASTE WATER COLLECTION & FORCEMAIN

160 MILES GRAVITY PIPE

62 MILES FORCEMAIN PIPE

500 VALVES

106 LIFT STATIONS



FY18 INVESTMENT CATEGORIES

○ Technology	\$3,110,000
○ General Facilities	\$1,805,000
○ Water Supply	\$450,000
○ Water Treatment	\$2,905,000
○ Wastewater Collection Gravity	\$200,000
○ Wastewater Forcemain System	\$2,810,000
○ Water Reclamation	\$6,663,500
○ Reuse System (Peaceful Waters)	\$400,000

TOTAL PROJECTS FY18 \$18,343,500

Communications

- **ERP Replacement** **\$1,200,000**
- **Backhaul Radio Replacement** **\$150,000**
 - 15 Sites Village wide
- **Mesh Router Replacement** **\$1,760,000**
 - Critical to Utility Operations
 - Secure Network
 - Village Wide Communication
 - Lift Stations
 - Water Supply Wells
 - Surface Water Pump Stations

TOTAL PROJECTS FY 18 **\$3,110,000**





General Facilities

- **Centralized Warehouse** **\$1,380,000**
 - Improve Inventory Control
 - Operational Cost Savings
 - Improve Purchasing Power
- **Field Services Building Modifications** **\$425,000**
 - Utility/Engineering/ Inspection Offices

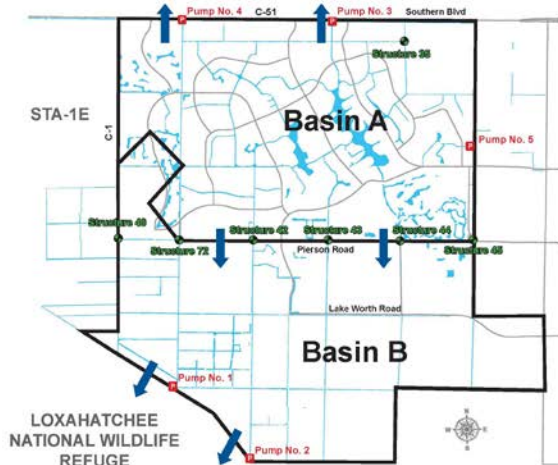
TOTAL PROJECTS FY 18 **\$1,805,000**



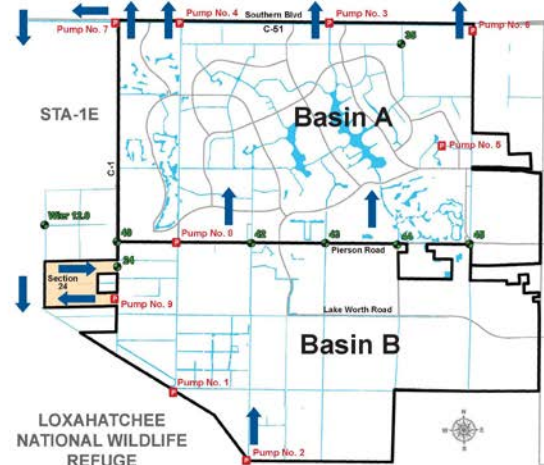
Water Supply

- **Consumptive Use Permit** **\$200,000**
 - Water Transport Model Development
 - Permit Modification
- **Comprehensive Water Supply Plan** **\$10,000**
 - Budget \$200,000
 - Wellfield Recharge
 - Reuse Credits
 - C-51 Project
- **Wellfield Rehabilitation** **\$240,000**
 - Budget \$320,000
 - Improved well performance
 - Improved water quality

WATER MANAGEMENT SYSTEM - BEFORE



WATER MANAGEMENT SYSTEM - AFTER



TOTAL PROJECTS FY 18 **\$450,000**



Water Treatment

Water Treatment Plant Renewal & Replacement

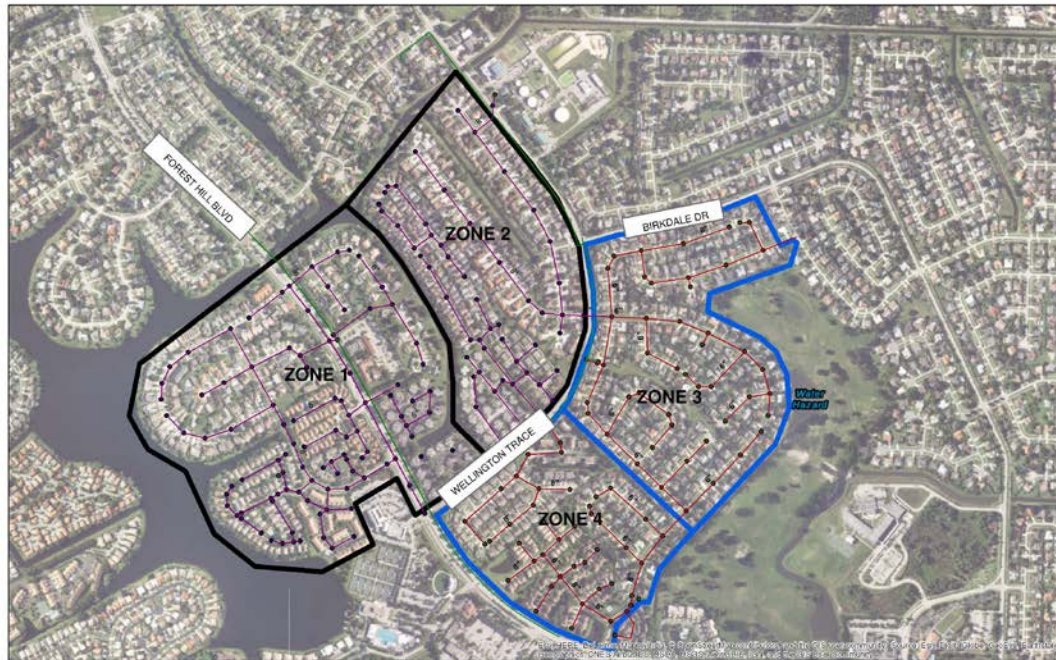
\$2,905,000

- Budget \$14,200,000
- Complete R & R of RO 1 Plant
- Expansion of RO 2 Plant
- Replacement of all High Service Pumps
- New Control Building
- New Laboratory
- Chemical System Upgrades
- Utility Emergency Operations

TOTAL PROJECT FY 18 \$2,905,000

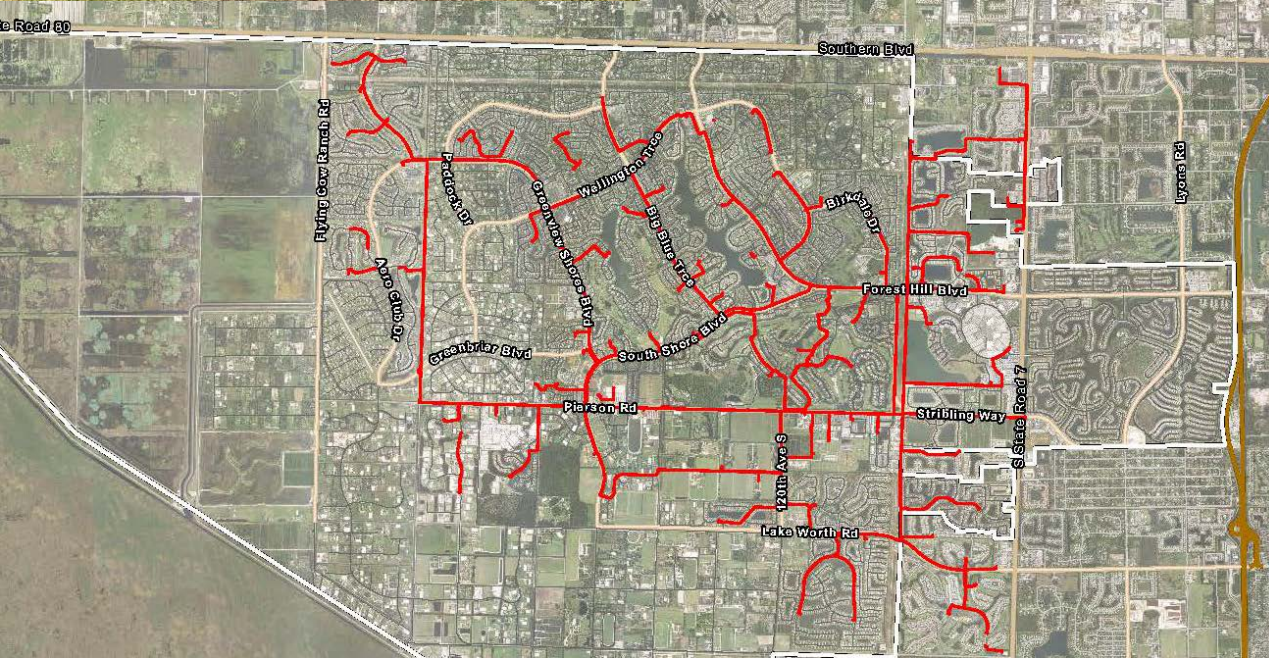
Gravity Wastewater Collection

SE LAKE WELLINGTON PHASING MAP



- **Phase 1- SE Lake Area** **\$200,000**
 - Condition Assessment Underway
 - Prioritizes Target Areas
 - Establishes Scope of Work
 - Combined with Distribution Improvements
 - Engineering Design Services

TOTAL PROJECT FY 18 **\$200,000**



Wastewater Forcemain System

- Forest Hill Forcemain Upsizing \$330,000
- Village Royale- Lift Stations \$300,000
 - Upgrades to Existing Stations
- Southshore Forcemain Replacement \$450,000
 - Main System Backbone
 - Near Useful Life-40 Years
 - Upgrade Material
- Lift Station Upgrades \$1,730,000
 - 9-10 Stations Annually
 - Modernize Technology
 - Improve Reliability
 - Replace Aging Infrastructure
 - Minimize Overflows

TOTAL PROJECTS FY 18 \$2,810,000 10



Water Reclamation Plant

- **Water Reclamation Plant R & R** **\$6,663,500**
 - Budget \$13,200,000
 - Structural Repairs
 - Odor Improvements
 - New Blowers & Digesters
 - New Control Building
 - New Laboratory
 - Expand Reuse Filtration
 - Safety Improvements
 - Chemical System Upgrades

TOTAL PROJECTS FY 18 \$6,663,500



Reuse System

- **Peaceful Waters Board Walk Phase 1** **\$400,000**
 - Hydrated with Reuse Water
 - Ecological Master Plan
 - Phase 1 of 3 Total Phases
 - Grant Application in Process
- **Reuse System Master Plan**
 - Invaluable Water Resource
 - Consumptive Use Permit Credits
 - Commodity with Revenue Potential

TOTAL PROJECTS FY 18 \$400,000



**THANK
YOU**