

# Florida Rural Water Association

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# FRWA Fast Facts

- **Non-Profit Trade Association**
- **Established in 1979**
- **State Affiliate of National Rural Water Association (NRWA)**
- **Board Elected**
  - **5 Water Management Districts Areas**
  - **+ 2 at large = 7 total**
- **2,000+ Members**



# FRWA Membership

- **2,000+ Members**
- **Large & Small Water & Wastewater Systems**
- **Only organization of this kind in Florida**
- **Active members consist of public water and wastewater systems, such as:**
  - ✓ **Municipalities,**
  - ✓ **Counties,**
  - ✓ **Special Districts,**
  - ✓ **Associations,**
  - ✓ **Authorities,**
  - ✓ **Investor Owned Utilities**
  - ✓ **Tribes,**
  - ✓ **Mobile Home Parks,**
  - ✓ **Commercial facilities,**
  - ✓ **Industry,**
  - ✓ **Etc.**

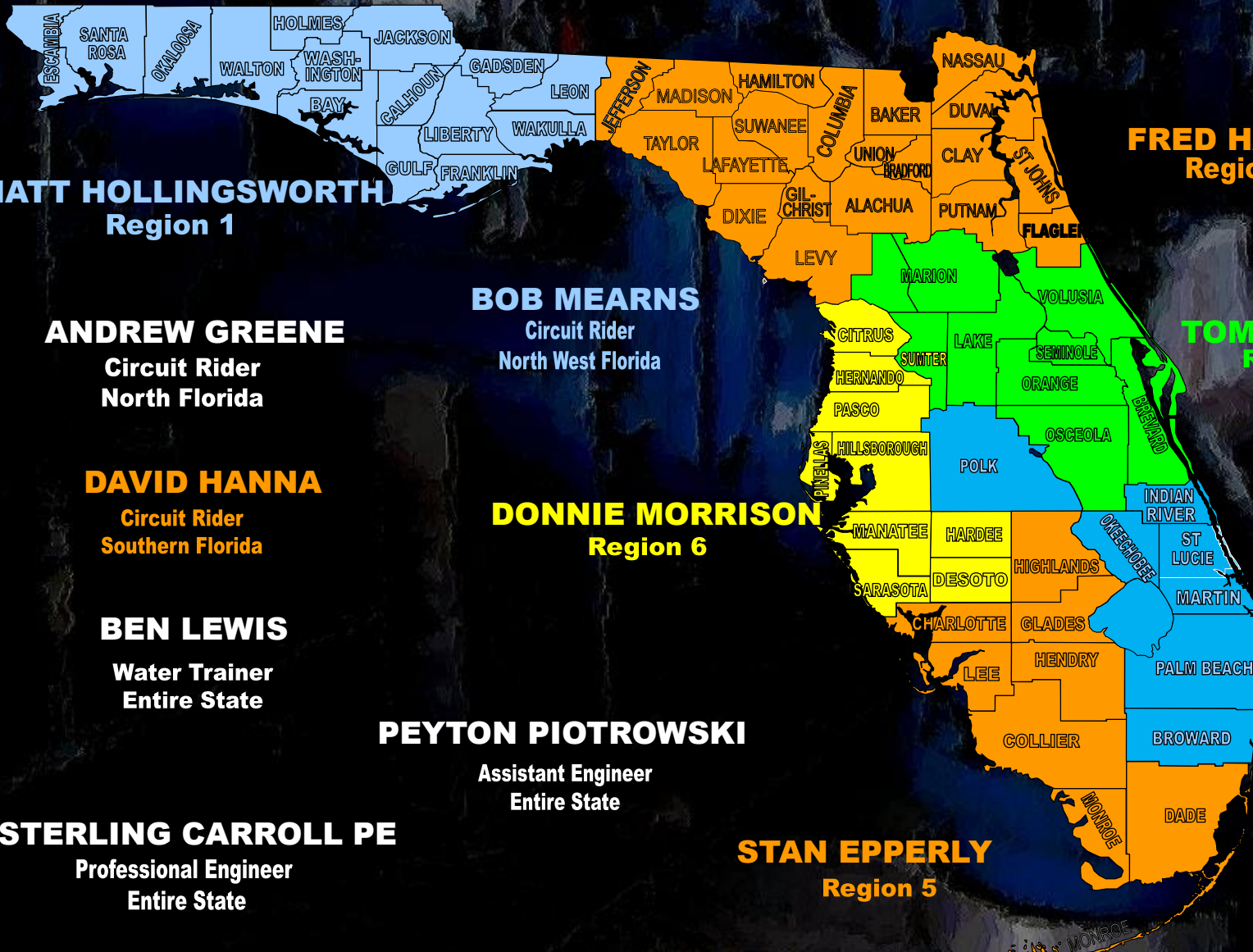


# FRWA's Focus

- **FRWA is dedicated to assisting water and wastewater systems provide Floridians with an ample affordable supply of high quality water, while protecting natural systems.**
- **Our primary purpose is to assist water and wastewater systems with every phase of water and wastewater operations.**



# Florida Rural Water Association Water Personnel



**MATT HOLLINGSWORTH**  
Region 1

**ANDREW GREENE**  
Circuit Rider  
North Florida

**DAVID HANNA**  
Circuit Rider  
Southern Florida

**BEN LEWIS**  
Water Trainer  
Entire State

**STERLING CARROLL PE**  
Professional Engineer  
Entire State

**BOB MEARNS**  
Circuit Rider  
North West Florida

**DONNIE MORRISON**  
Region 6

**PEYTON PIOTROWSKI**  
Assistant Engineer  
Entire State

**STAN EPPERLY**  
Region 5

**FRED HANDY**  
Region 2

**TOM GUSTAFSON**  
Region 3

**MOISES VILLALPANDO**  
Region 4



# Florida Rural Water Association Wastewater Personnel



**SCOTT PHILLIPS**

**TIM PLYMEL**

**DAVID VICE**

**JAMIE HOPE**  
Wastewater Trainer  
Entire State

**ALLEN SLATER**



# Florida Rural Water Association Groundwater Personnel



**JOHN RADTKE**

Groundwater Specialist Entire State

**JIM CAGNO**

USDA Sourcewater Specialist Entire State

**KC BELL**

State Sourcewater Specialist Entire State



# Florida Rural Water Association Utility Asset Management Personnel



**CHRIS BAILEY**

**Utility Asset Management**

**MARK HALLETT**

**Energy Efficiency Circuit Rider**

**RICK HERNDON**

**State SRF Program Liaison**

**JIM McCLAUGHERTY**

**DW Security/Vulnerability Assessment Technician**

**RON NALLEY**

**Utility Asset Management**

**BRIAN FELTMAN**

**Utility Asset Management**

**GEORGE GLOVER**

**Utility Asset Management**

**DYANA STEWART**

**Utility Asset Management**

**PAUL THOMPSON**

**Utility Asset Management**

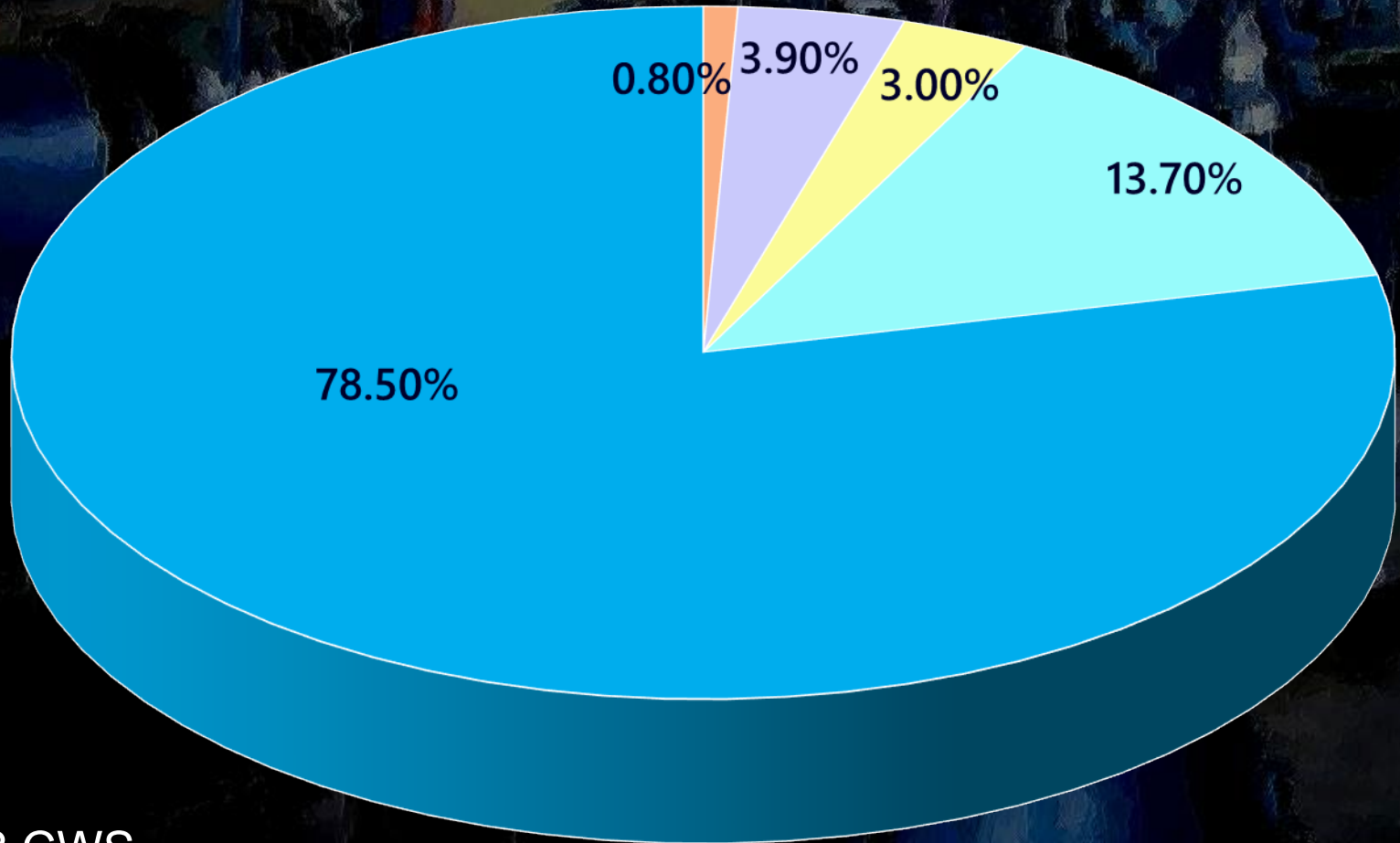


# Florida Rural Water Association Programs

- Provide training through custom on-site training, certification training, seminars, continuing education and on-line programs
- Provide on-site assistance in areas of water system operation and maintenance,
- Assist water systems in the development of management programs such as finance, governance, and rate making.
- Assisting members with understanding and compliance with complex regulations
- Providing engineering assistance and technical advise.



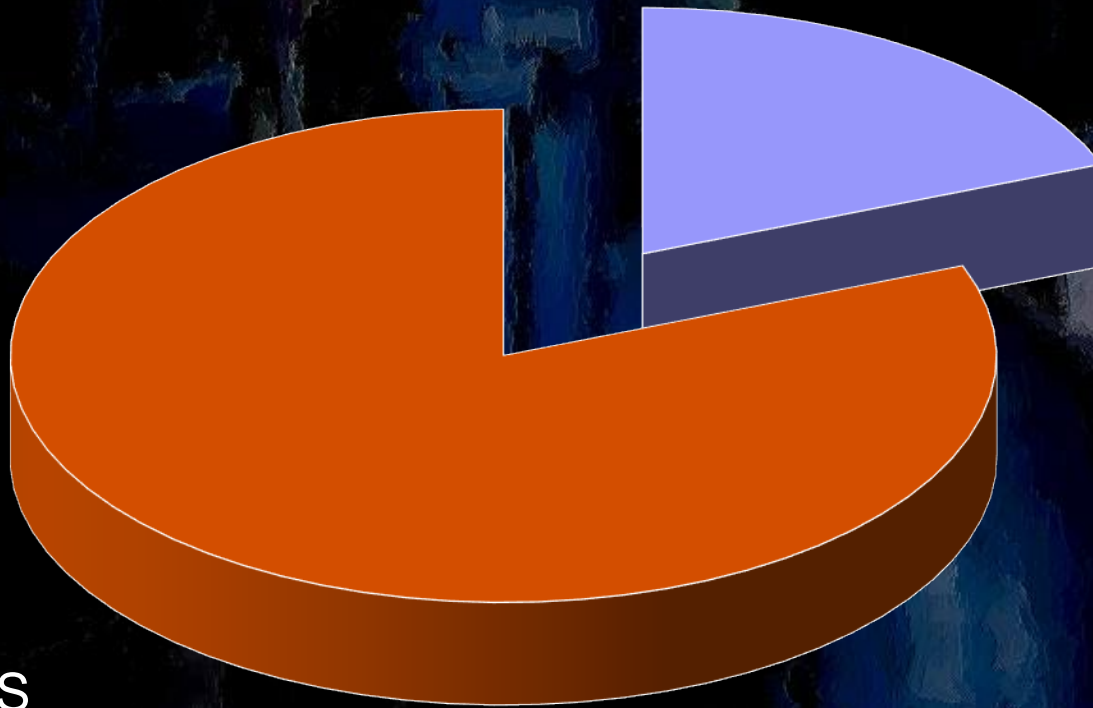
# DRINKING WATER SYSTEM DEMOGRAPHICS



1,608 CWS  
2,699 NCWS  
774 NTNC  
5,081 PWS



# WASTEWATER SYSTEM DEMOGRAPHICS



372 NPDES

1579 Non NPDES

1951 Wastewater

■ NPDES ■ NON NPDES

# Florida's Community Water Systems

- **About 1,608 Community Water Systems**
  - ✓ serving 20.6 M population
- **15% CWS = 241 Systems**
  - ✓ serve 15.6 M population
  - ✓ Over 10,000 customers
- **85% CWS = 1,367 systems**
  - ✓ serve populations under 10,000
  - ✓ have a hard time affording technical & professional consultants
  - ✓ FRWA Primary Focus



# Florida Rural Water Association

## 2020 Statistics

- Annual Technical Assistance Hours 13,897
- Annual Onsite Contacts (visits) 7,346
- FRWA Training Seminars  
2019 FRWA Training Seminars/2020 FRWA Training Seminars 58/43
- Attendance at FRWA Training  
2019 Attendance/2020 Attendance 3,187/467
- Engineering Projects 2,638
- Wellhead Plans 1,185
- Water & Wastewater Population Served 18,544,368



# Florida Rural Water Association Training

*Teaching and enhancing water treatment skills that can be applied in the water system that improve the capabilities of the workforce.*

- Entry Training - exposing new employees to water processes, equipment and acceptable practices used in water treatment.
- Career Training – enhancing employee knowledge and skills that can be directly applied to improve water system performance.
- CEUs-FRWA holds over 100 training sessions for continuing education credits each year and has over 3300 attendees at those sessions
- Apprenticeship-FRWA is introducing a new workforce development program to help provide water and wastewater utilities with skilled and trained employees for future generations



## Florida Rural Water Association

# Circuit Rider Assistance

- Assistance with Specific Process or Treatment Problems
- Assistance with Operational Needs, i.e. Sanitary Surveys, compliance and sampling issues, reoccurring plant problems, etc.
- Assistance with Process Control and Analysis i.e. THM sampling, jar testing, flow measurement, etc.
- Assistance with Maintenance Requirements i.e. developing preventative maintenance programs, troubleshooting plant equipment, advising on equipment selection.



Florida Rural Water Association

# Financial / Management Assistance

- Rate Analysis & Impact Fee Studies
- Cost of Service Studies
- Water Audits & Infiltration / Inflow Studies
- Utility Management Training Sessions / Workshops
- Finance Programs, Grants, Loans & etc.
  - ✓ Interim Finance Program
  - ✓ \$100,000 Revolving Loans, 10-year
- Asset Management Programs
- Long Range Planning / Capacity Analysis





Florida Rural Water Association

# Engineering Assistance

- Capital Improvement Planning
- Troubleshooting System Problems
- Technical Advice
  - Selection & Sizing of Plant Equipment
  - Chemicals & Treatment Processes
- Minor Permitting Assistance
- Capacity & Hydraulic Analysis
- Financial & Managerial Assistance



# Florida Rural Water Association Engineering Assistance

- Chlorine Conversions ~ Gas to NaOCl
- D/DBP Compliance
- Other Compliance Issues ~ 62-555 & SDWA
- Feasibility / Cost Estimates
- Emergency Response Planning
- Work with Districts & ACHDs
- Legislative Updates
- Special Projects



## Florida Rural Water Association

# Drinking Water Assistance

- WATER SOURCES, WELLS
- WATER TREATMENT PROCESSES
- WATER SUPPLY PUMPS & PUMPING FACILITIES
- STORAGE FACILITIES, TANKS
- DISTRIBUTION SYSTEMS, PRESSURE, FLOW, FLUSHING
- MONITORING, REPORTING & DATA VERIFICATION, DBPS
- WATER SYSTEM MANAGEMENT & OPERATIONS
- WATER SYSTEM FINANCIAL REQUIREMENTS
- OPERATOR COMPLIANCE WITH STATE REQUIREMENTS
- FRWA RESOURCES FOR WATER SYSTEMS



# Florida Rural Water Association

# Groundwater Assistance

- GIS AGREEMENT
- GPS EQUIPEMENT
- METAL DETECTORS
- VALVE LOCATORS
- GROUND PENETRATING RADAR (GPR)
- TRAINING FOR SYSTEM STAFF ON USE OF EQUIPMENT LISTED ABOVE
- DRAW WATER AND COLLECTION
- ELECTRONIC DATA (WHICH CAN BE SBMITTED TO GID DEPARTMENT, PLAMMING DEPARTMENT OR ENGINEERS FOR FUTURE EXPANSIONS OR GROWTH)
- ELECTRONIC AND PRINTED WALL MAP AND MAPBOOK



# Wastewater Assistance

- WASTEWATER TREATMENT TROUBLESHOOTING
- COLLECTION SYSTEM ASSISTANCE
- CRITICAL ASSEST EVALUATION AND MANAGEMENT (FISCAL SUSTAINABILITY)
- INFLOW AND INFILTRATION (I&I) STUDIES
- PRETREATMENT PROGRAMS
- HEADWORKS AND PRIMARY TROUBLESHOOTING
- FLOW METER TESTING AND CALIBRATION/VERIFICATION
- DISPOSAL/REUSE EVALUATION AND FEASIBILITY
- RESIDUALS/SLUDGE/BIOSOLIDS DISPOSAL OPTIONS AND TREATMENTS
- EMERGENCY RESPONSE PLANS AND EQUIPMENT
- SAFETY ISSUES
- ELECTRICAL, COMPUTERS, AND COMPUER DIAGNOSTIC SOFTWARE
- WASTEWATER EQUIPMENT



# Florida Rural Water Association

## Water Equipment

- Activity Chart Recorders
- Advanced Drinking Water Laboratory
- Backflow Test Kits
- Basic Drinking Water Laboratory
- Calibrated Thermometer
- Chemical Feed Pumps
- Chlorinator (Donated by Superior Water Solutions)
- Chlorine Meters
- Chlorine Repair Kits
- Electric Meters (volt)
- Electric Motors
- Fuel Pumps and Tanks
- Fire Hydrant Gauges
- Flowmeter
- Four Leg Bridle
- Generators (10-150 kw)
- Generator Load Bank
- GIS Software and Mapping Equipment
- Global Positioning System (locates)
- GPS Mapping Systems
- Ground Penetrating Radar Units
- Groundwater Model
- Handheld Infrared Device
- Hydrant Flowmeters
- Hydrant Pressure and Flow Kits
- Hydrant Pressure Relief Valve
- Hydrogen Peroxide Test Kit
- Large Meter Testers
- Lead Test Kits
- Leak Correlators
- Leak Detectors
- Line Tracers
- Magnetic Locator
- Meter Testers
- Optical Range Finders
- Portable Jar Mixer
- Pressure Recorders
- Pressure Relief Valves
- Power Distribution Box
- Rapid Deployment Repeater System
- Regal Gas CL2
- Satellite Phone
- SCBA
- Semi Trailer
- Small Meter Analyzer
- Small Meter Tester
- Thickness Gauges
- Test Kits/Lab
- Test Kits/Water Quality
- Turbidimeters
- Valve Exercisers
- VFDs
- Valve Locators
- Voltage Converter
- Water Level Indicators
- Weather Proof Recorders



# Florida Rural Water Association Water Equipment



## Panametrics Ultrasonic Flow Meter

*Used to test meter accuracy and provide flow data on water systems.*



# Florida Rural Water Association Water Equipment



## Leak Detectors

*Used to locate water leaks by sound amplification.*





# Other Water Equipment



**Leak Detectors**  
*Historical methods*



# Florida Rural Water Association Water Equipment



## Computer Leak Detector Correlator

*Used to pinpoint  
water leaks by  
sound  
amplification.*



# Florida Rural Water Association Water Equipment



## Ground Penetrating Radar

*Helps locate  
underground pipe  
(metallic and non  
metallic)*



# Florida Rural Water Association Water Equipment



## Water Quality Parameter Test Kits

- *Alkalinity*
- *Hardness*
- *TDS*
- *pH*
- *Temperature*
- *Phosphate*



# Florida Rural Water Association Water Equipment



## Pressure Relief Valve

*Used on hydrants or blowoffs to relieve excess pressure on water lines.*



# Florida Rural Water Association Wastewater Equipment

- 3" Trash Pump
- 6" By-pass Pump
- Amp Meters
- Centrifuges
- Colorimeters
- D O Meters
- Flow Meters
- Generators (10-150kw)
- GIS/GPS Mapping Systems
- Ground Penetrating Radar
- Lift Station Panel (Central)
- Line Tracers
- Magnetic Locators
- Magnetic Stirrer
- Microscopes
- Manhole Inspection Mirror w/Light
- Multi-Meters
- ORP Meters
- PH Meters
- Portaflow Model
- Push Cameras
- Rotation Meters
- Sewer Line Video
- Sludge Judge
- Smoke Blower
- Test Kits
- VFD's
- Voltage Converter



# Florida Rural Water Association Wastewater Equipment



**Doppler Flowmeter**  
*Used to measure velocity of  
wastewater flow.*



# Florida Rural Water Association Wastewater Equipment



## Microscope

*Observe mixed liquor samples for process control analysis.*





# Florida Rural Water Association Wastewater Equipment



## Sewer Line TV Inspection Equipment

*Televise and tape sewer line problems.*



# Florida Rural Water Association Wastewater Equipment



## Smoke Blower

*Used to blow smoke through sewers to locate sources of inflow.*

# Florida Rural Water Association Wastewater Equipment



## pH and ORP Meters

*Used to assist in troubleshooting treatment plants.*



# Florida Rural Water Association Wastewater Equipment



- **Sludge Judge**  
*measure sludge depth*
- **Settleometers**  
*test mixed liquor  
settle ability*
- **Centrifuge**  
*spins and makes bugs  
dizzy*

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