Hillsborough County Public Utilities Department

A Utility Perspective on AWTP Operation
Department Overview

- 725 Employees
  - 3 Divisions
  - 4 Business Support Functions
- 175,000 Customer Accounts Serving 600,000
- 6 AWTP facilities
  - Total permitted capacity 60 MGD
  - ADF 40 MGD
- $200 Million Annual Operating Budget
Regulatory Drivers

- Wilson-Grizzle Act 1972
  - Required Advanced Treatment (Secondary)

- Grizzle-Figg Act 1987
  - Redefined Advanced Treatment to 5-5-3-1
  - Established Compliance Date
Operating Environment

- Meet Water Quality Requirements
  - Permit 5-5-3-1
  - Plant Performance
  - Effluent Toxicity Testing
  - TMDL
Nutrient Loading Limits

Northwest Service Area TMDL Trend

- **Historical**
- **Projection - 2.0 mg/L**
- **Projection -1.5 mg/L**
Reclaimed Water Demand

Northwest Service Area Reclaimed Water Supply and Demand Daily Flows

- Supply-daily
- Supply-Month
- Demand-Monthly
- Demand-daily
- Plant Capacity

Flow (MGD)

Month-Year

November 2009 to January 2014
Cost of Operations

- Varies across each plant
  - Average $1.57 per 1000 gallons
    - Cost includes labor, electricity, chemicals (excludes maintenance and R&R)
  - Cost for Denitrification $0.31 per 1000 gallons
  - Cost for Phosphorus $0.02 per 1000 gallons
  - Toxicity Testing $1,500 per test
River Oaks AWT – 10MGD