

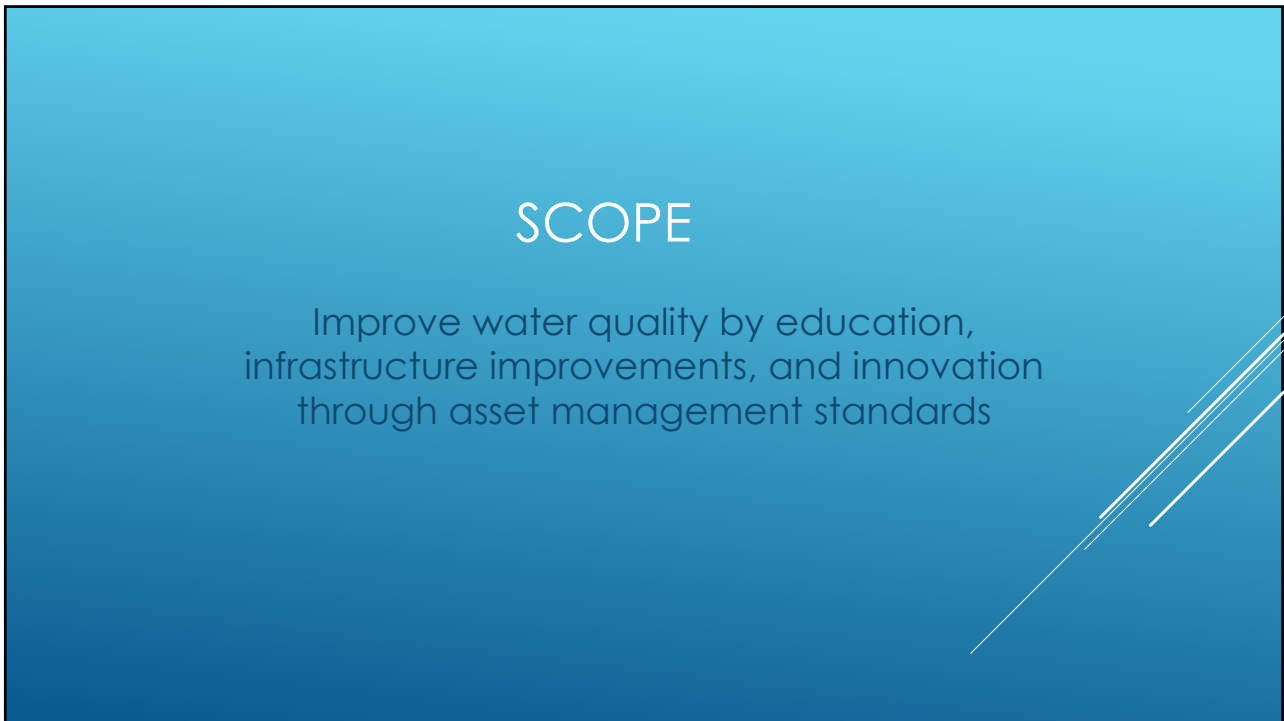
A blue gradient slide with white text and decorative white lines in the bottom right corner. The text reads: "WATERWAY QUALITY CHARTER", "City Commission Top Priority 2020", and "Todd Hiteshew Environmental Compliance Manager".

**WATERWAY QUALITY
CHARTER**

City Commission Top Priority 2020

Todd Hiteshew
Environmental Compliance Manager

1

A blue gradient slide with white text and decorative white lines in the bottom right corner. The text reads: "SCOPE" and "Improve water quality by education, infrastructure improvements, and innovation through asset management standards".

SCOPE

Improve water quality by education,
infrastructure improvements, and innovation
through asset management standards

2

SIX INITIATIVES

- National Pollutant Discharge and Elimination System (NPDES) Implementation and Reporting
- Stormwater Operations Pollution Prevention Activities
- Education and Awareness
- Algal Bloom Monitoring Plan and Pilot Project
- Proactive Waterway Quality Sampling Program
- Implementation of amended Florida-Friendly Fertilizer Use on Urban Landscapes

3

NON-POINT DISCHARGE ELIMINATION SYSTEM (NPDES) IMPLEMENTATION AND REPORTING



- ▶ NPDES Program – regulates discharges from municipal storm sewers, construction activities and industrial activities.
- ▶ An annual report is submitted in June.
- ▶ Covers 9 areas such as new development, stormwater operations and maintenance, flood control, construction site runoff, illicit discharges and improper disposal, and pesticide, herbicide, and fertilizer application.
- ▶ Includes Broward County NPDES Monitoring Report.

4



STORMWATER OPERATIONS POLLUTION PREVENTION ACTIVITIES

- ▶ Proactive maintenance of the stormwater system helps prevent pollutants from being discharged into waterways. Proactive maintenance activities thru 8/18/20:
- ▶ Proactive inspections: 19,846
- ▶ Catch basin cleaning: 3,793
- ▶ Street sweeping on curbed streets: 19,571 miles (3,170,000 lbs of debris removed)
- ▶ Pollution control devices cleaning: 4

5

Canal Cleaning - Disposal Tonnage (Calendar Year)



Month	Disposal Tonnage (Approximate)
January 2018	2.0
February 2018	0.0
March 2018	1.0
April 2018	0.5
May 2018	0.5
June 2018	1.5
July 2018	1.0
August 2018	2.5
September 2018	2.0
October 2018	2.0
November 2018	0.0
December 2018	0.0
January 2019	0.0
February 2019	0.0
March 2019	0.0
April 2019	1.5
May 2019	0.0
June 2019	1.0
July 2019	0.0
August 2019	1.0
September 2019	0.0
October 2019	3.5
November 2019	4.5
December 2019	6.5
January 2020	6.5
February 2020	4.5
March 2020	3.5
April 2020	6.5
May 2020	6.0
June 2020	6.0

6



EDUCATION AND AWARENESS

- ▶ NPDES Outreach
 - ▶ Pesticides, herbicides, and fertilizer
 - ▶ Illicit discharges and improper disposal
- ▶ Algal Blooms
- ▶ Raise Awareness to changes in Florida Friendly Fertilizer Use on Urban Landscapes

7



ALGAL BLOOM MONITORING PLAN AND PILOT PROJECT

- ▶ Monitoring
 - ▶ Conduct monthly inspections during wet season and increase frequency based on observed blooms
 - ▶ 15 sites regularly inspected
 - ▶ Through 8/14/20 no blooms present in our waterways
 - ▶ FDEP maintains an algal bloom dashboard and generates weekly reports
- ▶ Consultant hired to review algae bloom mitigation technologies and propose a pilot project
 - ▶ Mechanical, biological, and chemical technologies
- ▶ Contracts in place for mitigation if there is a bloom severe enough to require a response (\$100,000 budgeted)

8

PROACTIVE WATER QUALITY SAMPLING PROGRAM



- ▶ Broward County NPDES Monitoring Report
 - ▶ Two sites in Fort Lauderdale: C-13/North Fork Middle River and New River/Coastal
 - ▶ Salinity, pH, Dissolved O₂, Chlorophyll, Turbidity at 15-minute intervals, 24/7
- ▶ Broward County Water Quality Monitoring Program
 - ▶ 46 sites throughout the County on a quarterly basis.
 - ▶ ~13 sites are located within Fort Lauderdale
- ▶ Florida Healthy Beaches Program
 - ▶ Targets swimming beaches collected twice a week
 - ▶ 2 locations in Fort Lauderdale: Bahia Mar, Birch State Park
- ▶ City has periodically been proactively monitoring certain areas since March 2020 around Middle River, George English Park, and Tarpon River

9

IMPLEMENTATION OF AMENDED FLORIDA-FRIENDLY FERTILIZER USE ON URBAN LANDSCAPES



- ▶ Prohibits application of nitrogen and phosphorus during the rainy season (6/1 – 9/30)
- ▶ Retailers must post a sign notifying customers of the limitations on fertilizer
- ▶ Retailers must make available a surface and groundwater protection brochure
- ▶ City staff visited 5 retailers, placed 7 signs, and provided 250 brochures

10

LAUDERTRAC – UPDATES ON THE COMMISSION PRIORITIES

- Regular newsletter on the progress of the Commission's Top Priorities for 2020
- <https://www.fortlauderdale.gov/Home/Components/News/News/5285/16>

11

QUESTIONS?

- ▶ Please call 954-828-8000 to report any waterway quality issues
- ▶ Or use the smart phone app: fortlauderdale.gov/lauderserv
- ▶ Or submit a request online: fortlauderdale.gov/lauderserv
- ▶ Or email cservice@fortlauderdale.gov

12