North Port Environmental Scorecard Assessing Environmental Health

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Introduction

- North Port, Florida: A vibrant and growing city known for its natural beauty and natural resources.

- Importance of Environmental Monitoring: Ensuring the health and well-being of the community and preserving natural resources for future generations.
  - Water Quality
  - Air Quality
  - Tree Canopy
  - Wildlife
  - Natural Resources Division Efforts

Tree Canopy

- Tracks the overall condition of the canopy

- Measures percent coverage

- Monitors changes over time

- Provides opportunities to prioritize tree planting efforts in areas of need

- Better understanding of heat island effect throughout North Port

- Tree planting and rewilding projects

Water Quality

- Drinking Water
  - Various parameters
    - Turbidity, total coliform bacteria, lead, asbestos, etc.
    - Reported annually by the Utilities Department

- Surface Water Quality
  - Different Parameters
    - Dissolved Oxygen, Chlorophyll A, Total Nitrogen, Total Phosphorus, Bacteria, etc.
  - Various Potential Sources of Monitoring
    - FDEP, SWFWMD, Sarasota County, City of North Port, CHNEP Water Atlas, etc.

Air Quality

- Air Quality Index
  - Particulate matter < 2.5 microns (PM2.5)
  - Particulate matter < 10 microns (PM10)
  - Ozone (O3)
  - Nitrous Dioxide (NO2)
  - Sulfur Dioxide
  - Carbon Monoxide
- Purple Air – Air Quality
  - Monitoring program developed by North Port
  - Real-time monitoring capabilities

Wildlife

- Invasive species summary
- Wildlife reporting
- Conservation areas
- Temporary sign placement
- Listed species permits
- Future initiatives

Floodplain and Storm Management

- Vulnerability Assessment
- Stormwater and Floodplain Parameters
- Natural Resources Division has hired a Floodplain Coordinator
- Community Rating System (FEMA)
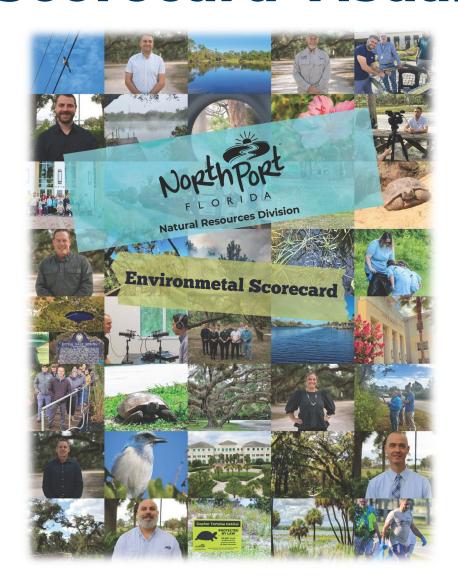- Watershed Master Plan - Grant

Other Scorecard Parameters

- Trees Donated
- Trees Planted by the City
- Community Educational Events Attended
- Citizens Engaged or Assisted
- Number of Inspections and Reviews
- North Port Greenest Citizen Recognition

Environmental Scorecard Visual

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Environmental Scorecard

Tracking Environmental Health-Prepaired by North Port Natural Resources Division

North Port, Florida: A vibrant and growing city known for its natural beauty and natural resources.
Importance of Environmental Monitoring: Ensuring the health and well-being of the community and preserving natural resources for future generations.

Water Quality
- Drinking Water:
- Monitored for: Turbidity, Total Coliform Bacteria, Lead, Asbestos
- Surface Water:
- Tested for: Dissolved Oxygen, Chlorophyll A, Total Nitrogen, Total Phosphorus, Bacteria
- Monitoring Agencies:
- FDEP, SWFWMD, Sarasota County, City of North Port, CHNEP Water Atlas

Wildlife & Biodiversity
- Programs & Tracking:
  - Invasive species
  - Listed species permits
  - Conservation area signage
  - Community wildlife reporting

Tree Canopy
- Metrics:
  - Overall coverage (%)
  - Changes over time
- Benefits:
  - Informs planting strategies
  - Addresses heat island effect

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Storm Drainage

- Status:
  - Parameters under development
- Upcoming Actions:
  - Floodplain Coordinator

Air Quality

- Pollutants Tracked:
- PM2.5, PM10, Ozone (O_3), Nitrous Dioxide (NO_2), Sulfur Dioxide (SO_2), Carbon Monoxide (CO)
- Monitoring Tool:
- PurpleAir sensors with real-time data

Community & Green Initiatives

- Efforts Measured:
  - Trees Donated & Planted
  - Educational Events Held
  - Citizens Engaged
  - Number of Inspections & Reviews
  - "Greenest Citizen" Award

Looking Ahead

Regular environmental assessments
Expansion of scorecard parameters
Goal adjustments with emerging data
Community input & involvement

PLANTING SEEDS
FOR THE
FUTURE

Conclusion

- Track environmental parameters of the City
- Conduct periodic assessments to quantify environmental changes
- Potential to incorporate other parameters in the future
- Easy to interpret data
- Adjust goals based on new data and emerging environmental challenges
- Continuous engagement with North Port residents and organizations for suggestions and insights

Thank you! Questions?