2019 ANNUAL REPORT

“An Eye on the Future”
MISSION
To protect the natural resources, environment, and quality of life in Hillsborough County

VISION
Environmental excellence in a changing world

VALUES
Environmental stewardship, integrity, transparency, and accountability.

EPC
EPC’s Core Functions

Monitor Our Air & Water Quality

Provide Citizen’s Support & Outreach

Permit Pollution Sources

Provide Compliance Assistance

Take Enforcement As Needed
MAJOR PROGRAMS DELEGATED TO EPC

- Petroleum Cleanup Program (1987)
- Petroleum Compliance Verification Program (1989)
- Minor and Major Source Industrial Air Permits (1993)
- Asbestos Notification & Inspection Program (1993)
- Title V Major Source Industrial Air Pollution Permits (1995)
- Domestic Wastewater Facility Permits (1995)
- Approval of Completion of Construction for Collection/Transmission Permits (1995)
- Industrial Wastewater Facility Permits (2000)
- Brownfields Site Development (2004)
- Mangrove Trimming Permits (2006)
- Professional Mangrove Trimmer Authorization Program (2006)
- Port Tampa Bay Minor Work Permits (2009)
- Single Family Home & Coastal Activities - ERP (2011)
- Army Corp Minor Work Authorizations (2013)
Wetlands Division
WETLANDS DIVISION PERMITS AND REVIEWS

2019 Permits Issued & Reviews Completed

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<th>Review/Permit Type</th>
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72% Increase Since 2010

New Submittals Received August 1st – July 31st
Coordinated Pre-application Meetings
Cross Agency Staff Trainings
Workshops for Contractors and Agents
Coordinated Site Inspections
Wetland Impacts & Mitigation
8/1/2018 to 7/31/2019

Completed Acres of Permanent Impact vs. Completed Acres of Mitigation

- Impacts: 17.34 Acres
- Mitigation Required: 29.07 Acres
- Mitigation Completed: 10.9 Acres
- Preservation: 2.76 Acres
- Creation: 10.9 Acres

Conservation Easements Required & Voluntary

- Total Acres of Conservation Easements: 149.13
- Required: 112.9 Acres
- Voluntary: 36.2 Acres
Air Division
**AIR MONITORING PARAMETERS**

Over 140 Pollutants including:

- Ozone (criteria)
- SO2 (criteria)
- NO2 (criteria)
- Particulate Matter (criteria)
- CO (criteria)
- Lead (Pb) (criteria)
- Polycyclic Aromatic Hydrocarbons
- Metals

### Relative Size of Particulate Matter

- **PM<sub>2.5</sub>** - Combustion particles (car exhaust, wood smoke), organic compounds, metals, etc. - <2.5μm (microns) in diameter
- **Human Hair** - 50-70μm (microns) in diameter
- **PM<sub>10</sub>** - Dust, pollen, mold, etc. - <10μm (microns) in diameter
- **Fine Beach Sand** - 50μm (microns) in diameter
GROUND-LEVEL OZONE

Number of Days Per Year in Hillsborough County with 8-hr. Ozone Readings Greater Than 70 PPB
Proposed by EPA to be re-designated as meeting standards for Sulfur Dioxide

Expected future proposal by EPA to be re-designated as meeting standards for Sulfur Dioxide
HILLSBOROUGH’S AIR QUALITY

Number of Unhealthy Air Quality Days for Sensitive Groups in Hillsborough County

YEAR: 1999-2019

- 1999: 13
- 2000: 6
- 2001: 4
- 2002: 1
- 2003: 0
- 2004: 2
- 2005: 4
- 2006: 5
- 2007: 6
- 2008: 6
- 2009: 3
- 2010: 1
- 2011: 1
- 2012: 1
- 2013: 4
- 2014: 4
- 2015: 5
- 2016: 1
- 2017: 1
- 2018: 0
- 2019: 0
Waste Division
OLD LANDFILL REDEVELOPMENT AND BROWNFIELDS REDEVELOPMENT PROGRAMS

104
Old Landfill redevelopment projects completed since 1999

Cornerstone Plaza Redevelopment Project

City of Tampa Water Works Park

35
Brownfield sites currently managed through the EPC’s delegated Program

PROPERTY VALUE CHANGE THROUGH REDEVELOPMENT

$0
$20,000,000
$40,000,000
$60,000,000
$80,000,000
$100,000,000
$120,000,000

VARELA
SPRUCE STREET
CIRCLE TAMPA VENTURES
AVION PARK

Pre-redevelopment
Post-redevelopment
PETROLEUM CLEANUP AND STORAGE TANK COMPLIANCE PROGRAMS

650
Tanks compliance inspections performed to date in FY2019

1576
Contaminated site cleanup/closures since Cleanup Program inception

836
Sites remain in various phases of petroleum cleanup

Through expanded contracts/agreements, the EPC manages both programs in Hillsborough County and Manatee County
SMALL QUANTITY GENERATOR HAZARDOUS WASTE PROGRAM (SQG)

15,838
Total registered facilities, with 20% inspected annually

Percent Of Facilities Found To Be In Full Compliance

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Water Division
## Bay Segment Report Card

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## Bay Segment Report Card

**Water Monitoring**

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WATER QUALITY INDEX (WQI) TRENDS
TRIBUTARY QUALITY
FLORIDA RED TIDE

Karenia brevis
GIS DASHBOARDS BRING REAL TIME ANALYTICS TO EPC
EPC Staff Diversity

- 51.4% Female
- 48.6% Male

- 70.0% White
- 10.7% Black
- 14.3% Hispanic
- 5% Asian/Other

EPC Family
EPC’s 2018 Actual Expenditures

End of the Year Bottom Line

Monies Returned to General Fund (in $1,000)

EPC’s Fiscal Prudence
LONG TERM, SUCCESSFUL PARTNERSHIPS

U. S. Dept. of Homeland Security

Army Corp of Engineers

Nitrogen Management Consortium

EPA

Green Star Auto Salvage Facilities

DOH

Hillsborough County

FDEP

HCSO

Tampa Port Authority

EPA

Fla. Dept. of Ag & Consumer Services

Florida Forestry Services

City of Tampa

SWFWMD

Florida Department of Health

Air & Waste Mgmt Assn

Agency on Bay Management

Tampa Bay National Estuary Program
LONG TERM, SUCCESSFUL PARTNERSHIPS (CONT.)

USF
Hillsborough MPO
Florida Brownfield Association
MPO
National Fish and wildlife Foundation
MPO – River Board
Florida Fish and Wildlife
City of Plant City
Homeland Security
Hillsborough River
Interlocal Planning Board & Technical Advisory Council
US Geological Services
City of Temple Terrace
UF IFAS Extension
Tampa Bay Assoc. of Env. Professionals
USF Strawberry Growers Assn
UF IFAS Extension
Tampa Bay Build Assn
Tampa Bay Build Assn
Planning Commission
Hillsborough
FY19 Complaint Response Snapshot

- Total citizen’s complaints to date: **1,445**
- 3-Day response time met: **97.3%**
- **99%** timely complaint closure

- Noise: **246**
- Dredge/Fill: **217**
- Water Discharge: **191**
- Solid Waste: **109**
- Wetland clearing: **93**

RESPONDING TO OUR CITIZENS
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<td>16 days</td>
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<td>49 days</td>
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<td>Average Time EPC Permits were In-house</td>
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<td>Compliance</td>
<td>Timely Resolution of Lower Level Non-Compliance Cases</td>
<td>92%</td>
<td>85%</td>
<td>95%</td>
<td>92%</td>
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<td>Environmental</td>
<td>Timely Initiation of Investigation</td>
<td>99% in 5 Days</td>
<td>98% in 3 Days</td>
<td>98% in 3 Days</td>
<td>96% in 3 Days</td>
<td>Greater Than or Equal to 90% in 3 Days</td>
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<td>Enforcement</td>
<td>Timely Initiation of Enforcement</td>
<td>73%</td>
<td>100%</td>
<td>93%</td>
<td>89%</td>
<td>Greater Than or Equal to 90%</td>
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<td>Program Name</td>
<td>Audit Type</td>
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<td>Water</td>
<td>Department of Environmental Protection</td>
<td>Wastewater</td>
<td>Program audit</td>
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<td>Performance Testing Program</td>
<td>Laboratory Testing Accuracy</td>
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<td>National Air Toxics Trending Stations</td>
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<td>Performance Testing Program</td>
<td>Laboratory Testing Accuracy</td>
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<td>State and Local Air Monitoring Stations Network</td>
<td>Instrument Performance Audits</td>
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<td>Technical Systems Audit</td>
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<td>Instrument Performance Audits</td>
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<td>Development Services</td>
<td>Permitting Comments/Reviews</td>
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<td>ERP-Single Family Delegation</td>
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<td>Petroleum Cleanup Contract</td>
<td>Monthly TATs for report reviews, Oculus documents, database entries</td>
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<td>Petroleum Cleanup Contract</td>
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2019 EPC Pollution Recovery Fund
Project Locations and Select Overview Images

- Hillsborough
  - Trash Free Waters
- MacDill Air Force Base
  - Living Shoreline
- Compost Education
- Ignacio Haya Park
  - Living Shoreline
- McKay Bay Oyster Reef
- Audubon Sanctuary
  - Invasive Tree Removal

Key Projects:
- Small Farms for Clean Water
- Compost Education to Encourage Sustainable Non-Managed
- Determining Sources and Risk of Fecal Pollution in Tampa Bay Tributaries
- MacDill AFB Living Shoreline Creation Project
- Invasive Tree Removal from Audubon’s Bird Island, Green Key, and Whiskey Slump Key Sanctuaries
- Determining Sources and Risk of Fecal Pollution in Tampa Bay Tributaries
2020 Future Challenges

- Support Home Rule
- Sea-Level Rise / Climate Adaptation / Resiliency
- Maintain Level of Service and Protection Despite Population Increase
- Competitive Pay Ranges
- Succession Planning / Loss of Institutional Knowledge
- Talent Acquisition & Diversity
- Maintaining adequate outside funding
EPC’S FEEDBACK GROUPS

Environmental Feedback

Business Feedback
Educaing our citizens and future leaders
Engaging with public and private partners...

Collaborating with climate experts...

Partnering in Hillsborough County’s efforts...

Educating the community...

Cultivating a sustainable & engaged community
EPC’S PHILANTHROPIC ACTIVITIES

❖ My furry Valentine, jointly w/Animal Services
❖ Paint Your Heart Out
❖ Cereal for Summer for Feeding Tampa Bay
❖ Bingo and Pizza event benefiting United Way Tampa
❖ Back Packs of Hope Drive for Metropolitan Ministries
❖ Thanksgiving and Holiday food collection for Metropolitan Ministries (Planned)
❖ Elves for Elders Christmas drive for elderly wards of the state (Planned)
❖ Redlands Christmas Tree, Christmas gift collection for underprivileged children of migrant workers locally (Planned)
❖ Bahamas Hurricane Relief (Planned)
EPC’s Longest tenured employee retires

Don Rogers Induction into the EPC HOF

EPC Receives Planning & Design Award

2019 Environmental Merit Award Winner
"Mahalo" (Thank You) EPC Board
Leaning Gate Elementary