

Adapting to Our New Environment



*Courtesy of
Karla Amaras,
Blake High School*



2020 Annual Report

Janet L. Dougherty
Executive Director

A blue hexagon with the word 'MISSION' in white, uppercase letters.

MISSION

A blue hexagon containing the text: "To protect the natural resources, environment, and quality of life in Hillsborough County".A light green hexagon with the word 'VISION' in white, uppercase letters.

VISION

A light green hexagon containing the text: "Environmental excellence in a changing world".An orange hexagon with the word 'VALUES' in white, uppercase letters.

VALUES

An orange hexagon containing the text: "Environmental stewardship, integrity, transparency, and accountability."

Janet,
Executive Director

Our Core Functions...

Provide
Citizen's
Support &
Outreach

Monitor
Our Air &
Water
Quality

Permit
Pollution
Sources

Provide
Compliance
Assistance

Enforce
When
Needed

MAJOR LOCAL AND STATE PROGRAMS DELEGATED TO EPC



- Petroleum Cleanup Program (FDEP - 1987)
- Storage Tanks Compliance Program (FDEP - 1989)
- Minor Source Industrial Air Permits (FDEP - 1993)
- Asbestos Notification & Inspection Program (FDEP - 1993)
- Title V Major Source Industrial Air Pollution Permits (FDEP - 1995)
- Domestic WW Facility Permits (FDEP - 1995)
- Domestic WW Collection/Transmission Permits (FDEP - 1995)
- Approval of COC for Collection/Transmission Permits (FDEP - 1995)
- Industrial Wastewater Facility Permits (FDEP - 2000)
- Brownfields Site Development (FDEP - 2004)
- Mangrove Trimming Permits (FDEP - 2006)
- Professional Mangrove Trimmer Authorization (FDEP - 2006)
- Port Tampa Bay Minor Work Permits (TPA - 2009)
- Single Family Home & Coastal Activities - ERP (FDEP - 2011)
- Non-Agricultural Land Open Burning (FDACS – 2012)
- Army Corp Minor Work Authorizations (ACOE - 2013)

(Year delegation assumed)

Wetlands Division

...provides local standards for environmental protection, maintenance and utilization of wetlands and other surface waters.



Delegations & Programs:

- Permits & Exemptions
- Compliance Assurance



Wetlands Division Permits and Reviews

2020 Permits Issued & Reviews Completed

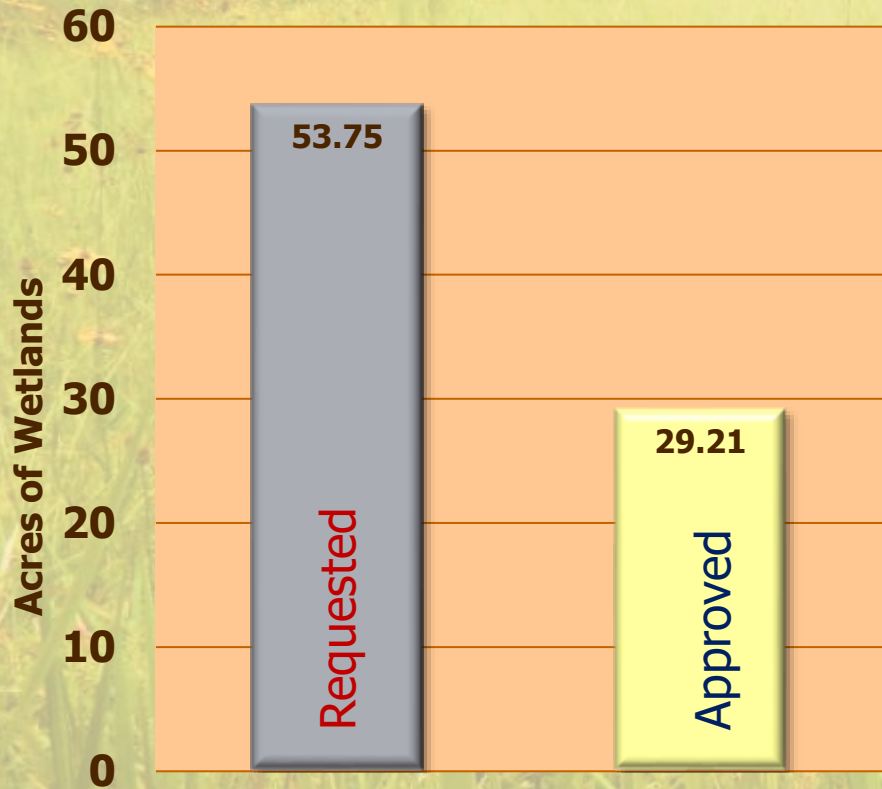
Review/ Permit Type	Number Issued
Development Services	860
Delineations	295
Mangroves	82
Miscellaneous	222
Mitigation	39
Port Authority	477
Total	1975



Wetland Impacts & Mitigation

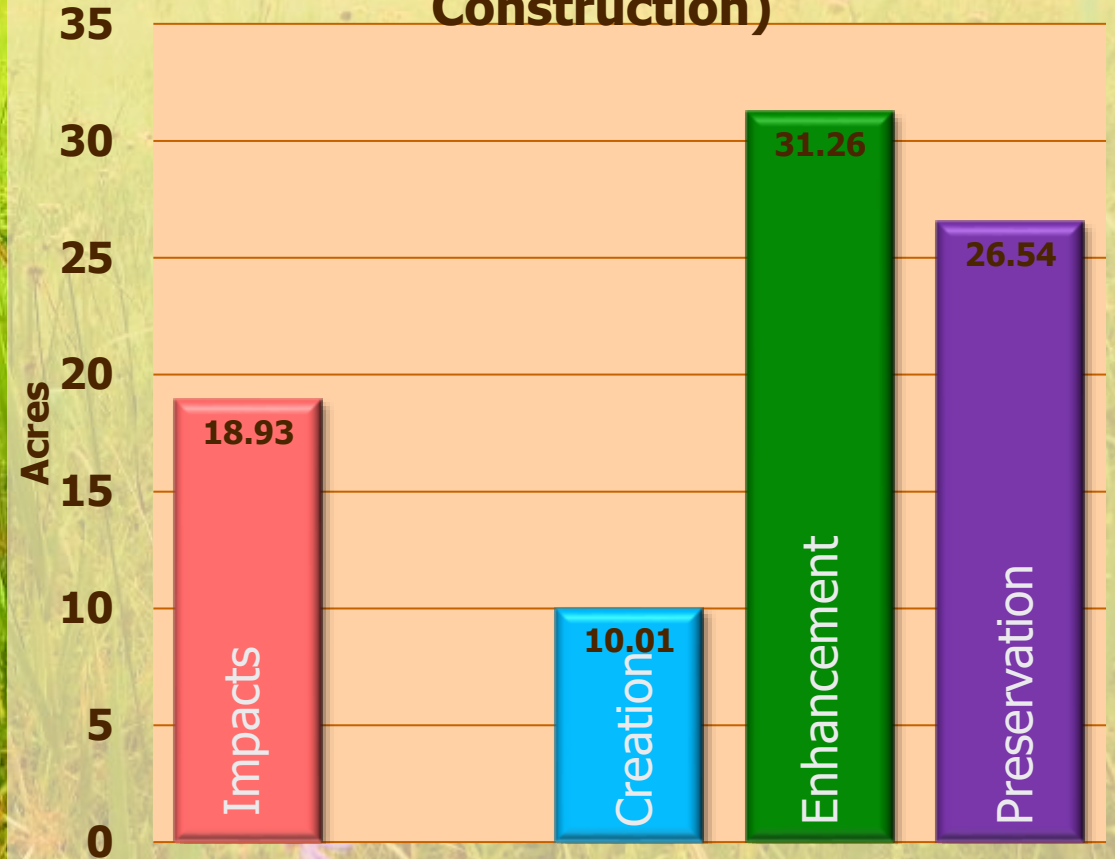
8/1/2019 to 7/31/2020

Acres of Wetland Impacts Requested vs. Approved (Permits Issued)



39 Total Projects Authorized for Wetland Impacts & Mitigation

Acres of Permanent Impacts vs. Acres of Mitigation (Completed Construction)



20 Total Projects Completed Wetland Impact & Mitigation Construction

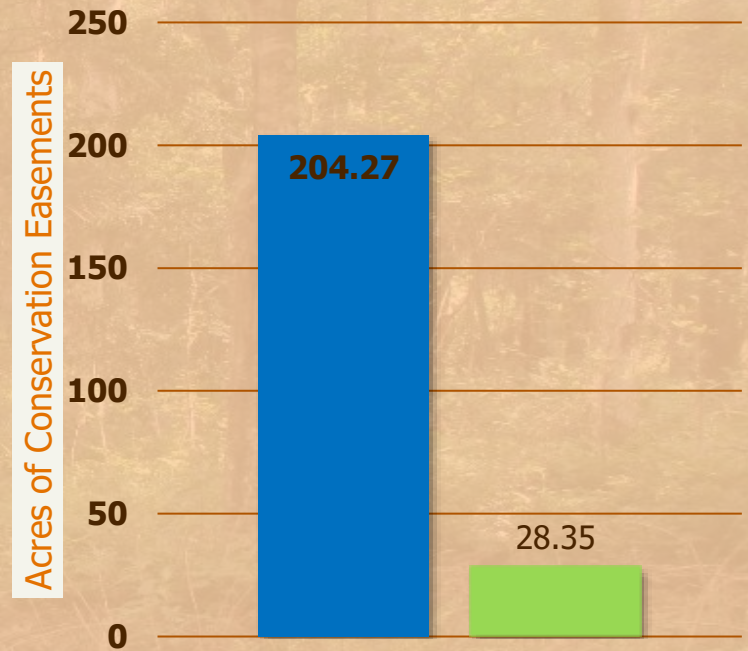
Conservation Easements



Mitigation/CE site 1287

Since 2014 EPC Wetlands has received **530** acres of CEs

Conservation Easements
Required & Voluntary
8/1/2019 to 7/31/2020



232.62 Total Acres of Conservation Easements

■ Required ■ Voluntary

One-Stop Permitting A Transformational Efficiency



Previously

(Up to 4 submittals to 4 separate agencies)



Today

(1 Application = 1 Permit)

Air Division

...responsible for protecting the environment and the health and safety of the public as they relate to air quality.



Garrett & Chris,
Monitoring



Lora,
Permitting



Fine particle monitor



Sterlin,
Air Director

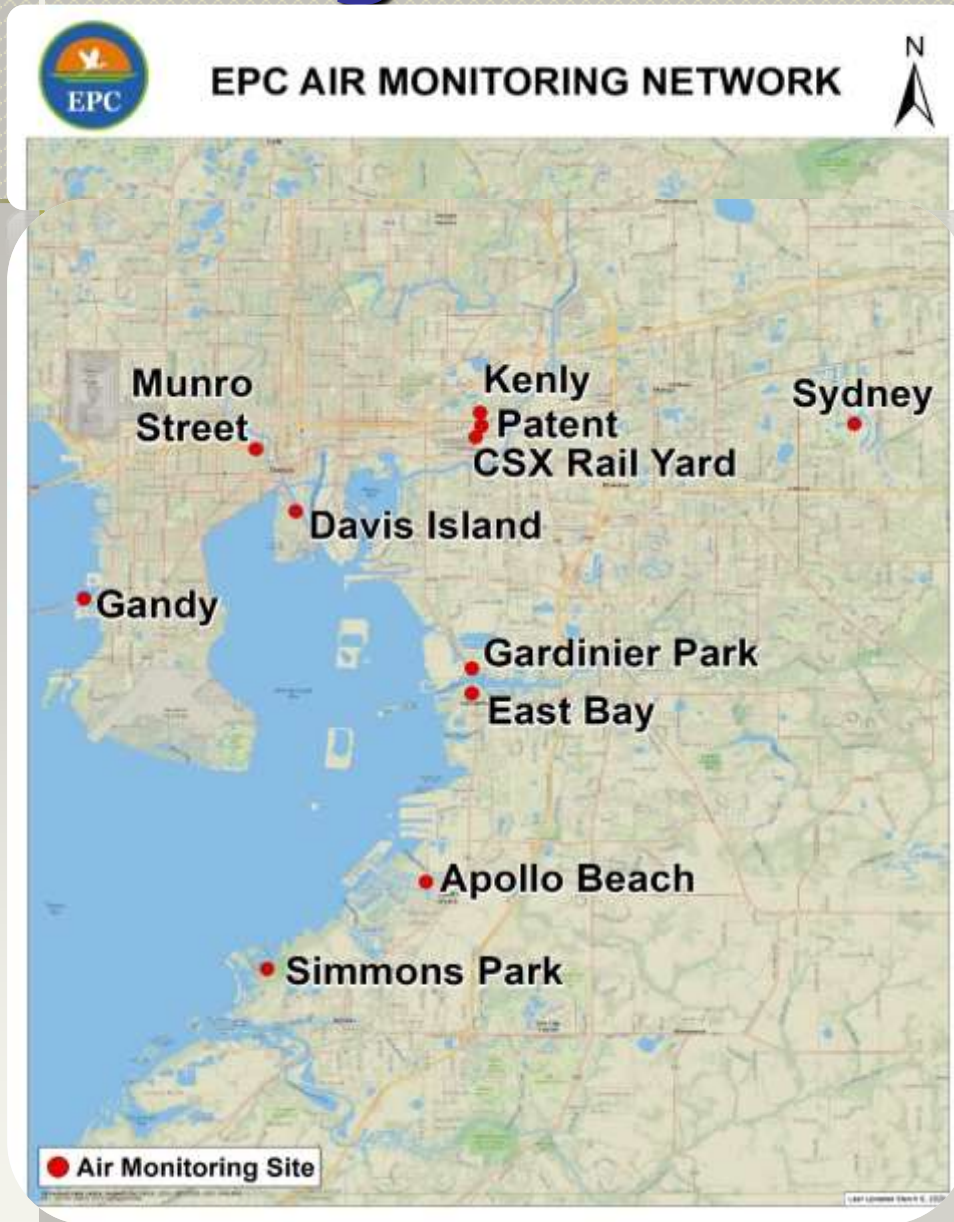
Delegations & Programs:

- Asbestos
- Compliance
- Permitting
- Open Burning

EPC

- Noise
- Monitoring

Meeting All Federal Air Quality Standards



EPA's Criteria Pollutants

OZONE (O₃)



Is a pollutant at ground level

Nitrogen Dioxide (NO₂)



Causes adverse respiratory effects

PARTICULATE MATTER (PM)



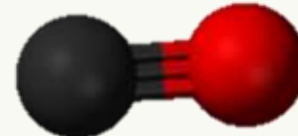
Very fine dust

LEAD (Pb)



Nervous system toxicant

Carbon Monoxide (CO)



Formed from inefficient combustion

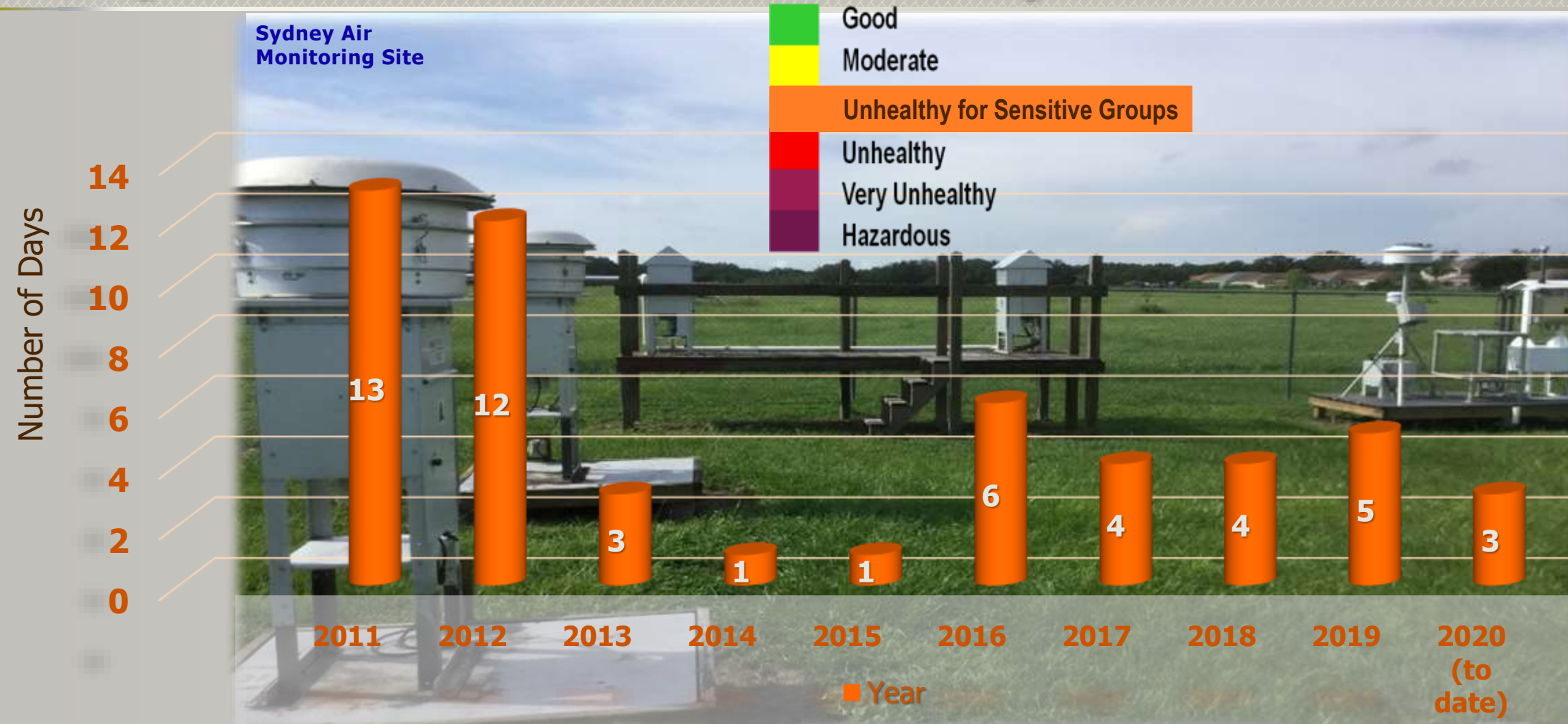
Sulfur Dioxide (SO₂)



Lung irritant

Air Quality Index

...number of Unhealthy Air Quality Days for Sensitive Groups



Industrial Air Compliance & Permitting

236

Number of delegated permitted facilities

100%

State commitments met for FY20

551

Industrial reports reviewed to date

36

Construction permits completed, averaging 27 processing days

65

Total permits issued to date



Air Division's Field Responses to Our Citizens

- Investigate air pollution complaints
- Respond to noise complaints



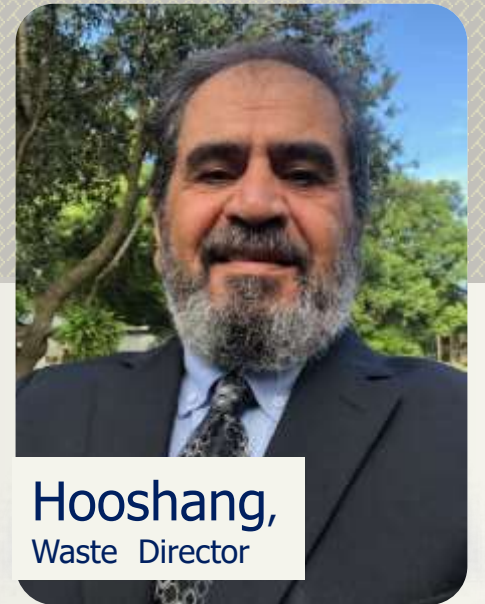
- Conduct asbestos compliance inspections on behalf of DEP
- Issue burning authorizations

Waste Division

...responsible for the proper management and control of solid and hazardous waste through either appropriate disposal or recycling.

Delegations & Programs:

- Petroleum
- Storage Tank compliance
- Brownfields



Hooshang,
Waste Director

EPC

- Solid & Hazardous Waste
- Small Quantity Generator (SQG)

SMALL QUANTITY GENERATOR HAZARDOUS WASTE PROGRAM (SQG)

Total registered facilities, with 20% inspected annually
16,232

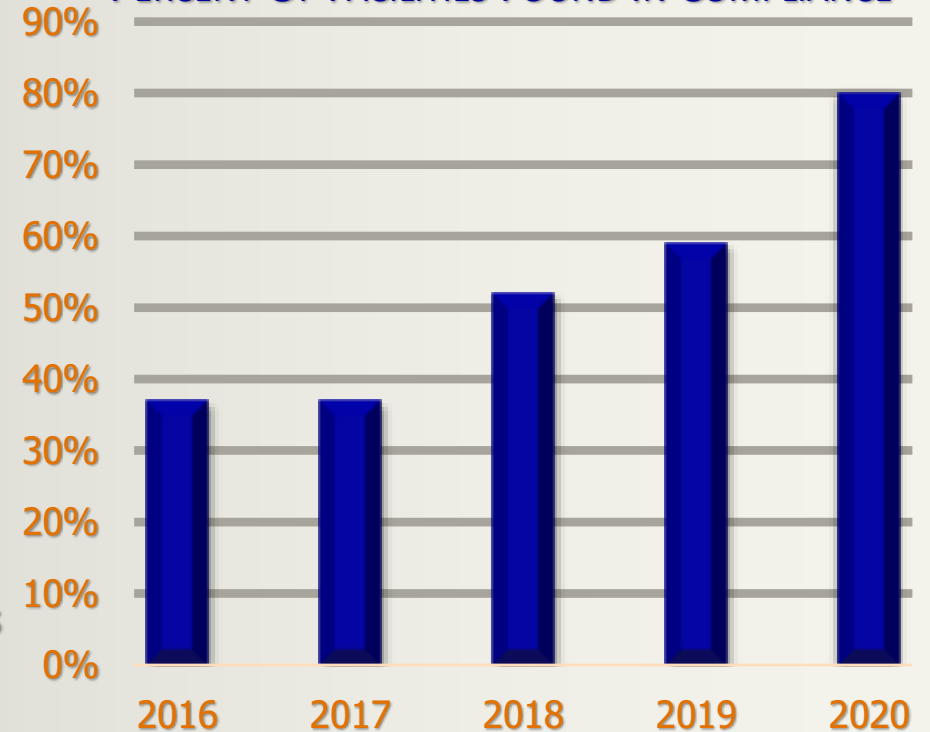


THE FACTS
ABOUT
HAZARDOUS
WASTE



Automotive Repair
Manufacturing • Fabricators • Electroplaters
Retail • Department Stores • Automotive • Big Box Stores
Services • HVAC • Painting • Electronics Repair • Salons
Medical • Dentists • Physicians • Veterinarians • Pharmacies

PERCENT OF FACILITIES FOUND IN COMPLIANCE



STORAGE TANK COMPLIANCE AND PETROLEUM CLEANUP PROGRAMS

761

Tanks compliance inspections performed to date in State FY2020

1642

Contaminated site cleanup/closures since Cleanup Program inception

768

Sites remain in various phases of petroleum cleanup

EPC manages both of these State programs in Hillsborough County and in Manatee County



Underground Storage Tank System

OLD LANDFILL REDEVELOPMENT AND BROWNFIELDS REDEVELOPMENT PROGRAMS



REDEVELOPMENT

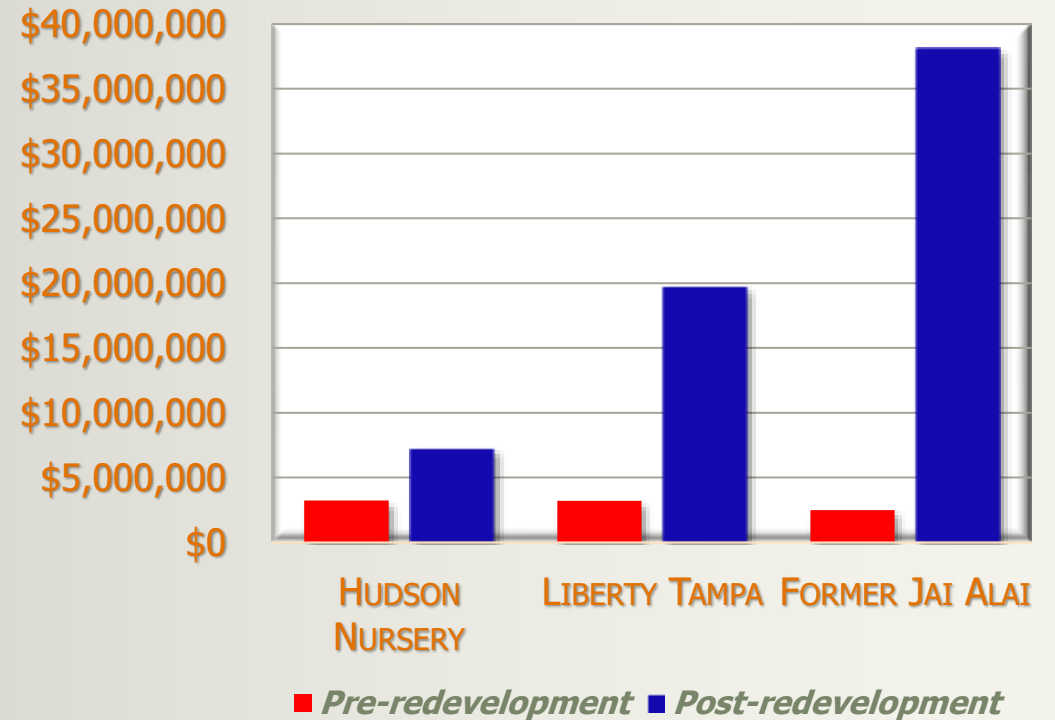


Former Tampa Jai-Alai



Liberty Tampa/Madison Park

PROPERTY VALUE CHANGE THROUGH REDEVELOPMENT



Water Division

...protects, restores, and enhances surface and groundwater quality

Delegations & Programs:

- Domestic & Industrial Wastewater
- Laboratory Services
- Artificial Reef
- Biological Monitoring
- Water Monitoring
- Seagrass Management



Ed,
Wastewater

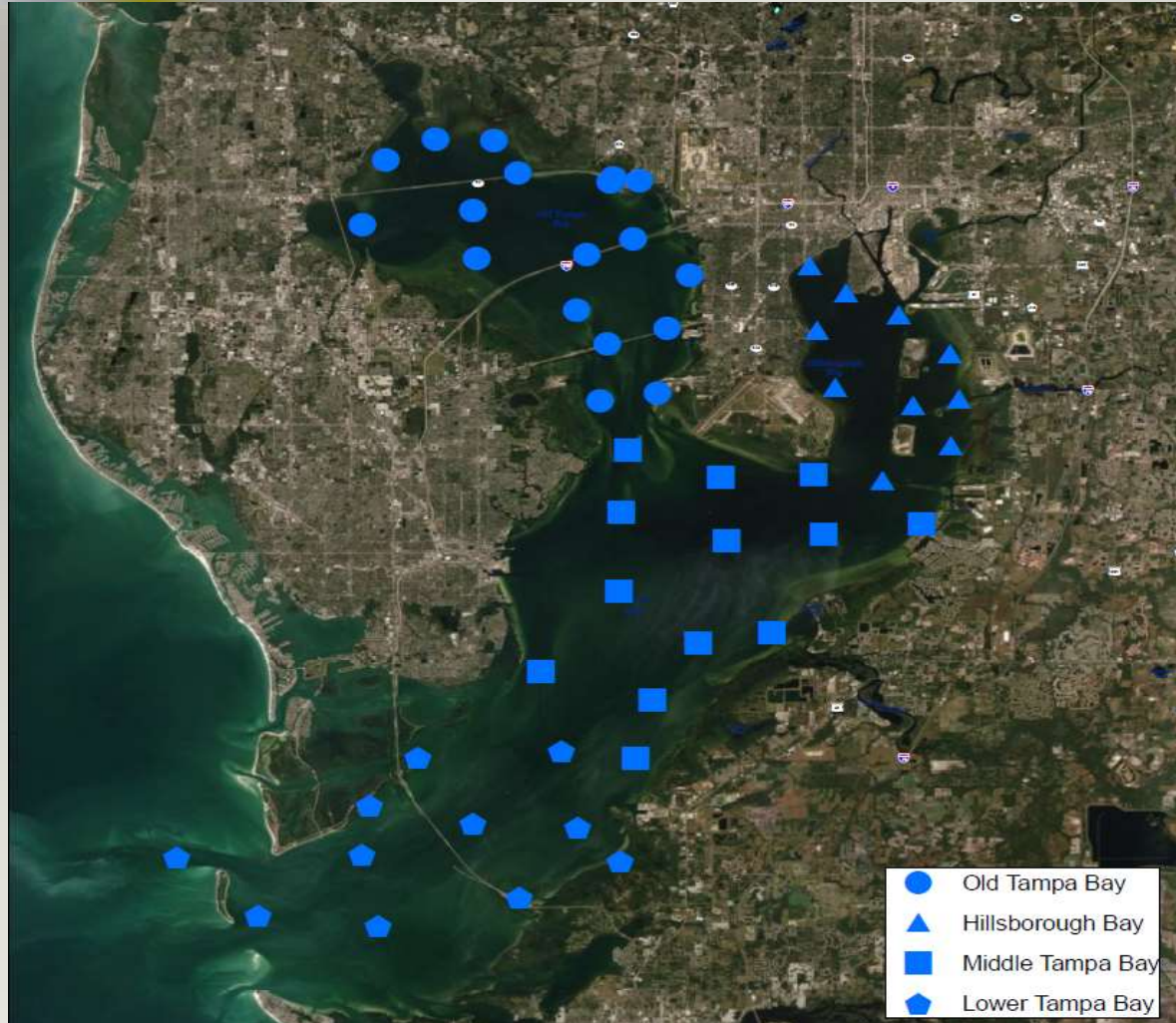


Marsha,
Recent
Retiree

Sam,
Water
Director



BAY SEGMENT REPORT CARD



Year	HB	OTB	MTB	LTB	Mean	Grade
2019	92.60	85.19	93.42	83.13	88.04	B
2018	85.60	83.37	89.68	79.37	84.33	B
2017	89.64	83.80	93.41	87.10	87.89	B
2016	85.95	80.36	86.31	75.50	81.69	B
2015	91.90	85.52	90.24	79.10	86.37	B
2014	91.27	89.42	91.67	85.71	89.44	B
2013	89.64	86.97	91.87	86.11	88.42	B
2012	88.45	87.24	90.38	82.94	87.20	B
2011	90.48	76.92	85.69	87.53	83.98	B
2010	89.64	81.08	88.49	78.37	83.81	B
2009	85.99	82.01	87.91	82.74	84.30	B
2008	86.31	86.57	89.98	79.62	85.71	B
2007	90.83	82.40	87.85	85.33	85.95	B
2006	91.79	89.62	93.95	82.64	89.42	B
2005	86.90	81.94	86.51	76.09	82.60	B
2004	85.32	76.64	86.61	71.23	79.36	C
2003	79.24	72.04	83.09	71.29	75.92	C
2002	81.63	74.56	85.12	69.68	77.43	C
2001	80.83	69.40	75.50	66.59	72.54	C
2000	80.60	77.85	76.43	58.14	73.87	C
1999	84.08	76.37	80.93	65.74	76.67	C
1998	60.99	63.98	55.19	46.75	57.48	D
1997	77.94	72.94	73.56	62.65	71.83	C
1996	80.84	72.20	82.88	73.60	76.81	C
1995	67.70	66.95	69.85	59.03	66.07	C
1994	64.27	65.21	65.61	52.19	62.27	C
1993	79.62	67.36	76.70	67.95	72.18	C
1992	73.06	69.16	74.43	66.28	70.57	C
1991	67.14	65.81	70.72	66.03	67.31	C
1990	67.64	55.56	63.97	63.54	61.74	C
1989	60.00	54.39	60.42	58.45	57.85	D
1988	63.23	66.01	70.07	67.89	66.85	C
1987	57.38	52.05	61.92	68.61	59.13	D
1986	60.93	62.48	71.26	73.41	66.67	C
1985	48.67	59.44	58.13	66.34	58.49	D
1984	57.86	45.62	57.02	62.93	54.61	D
1983	49.63	48.41	50.00	53.82	50.22	D
1982	48.05	50.45	50.27	57.95	51.58	D
1981	43.63	42.18	43.82	45.78	43.65	D
1980	53.10	37.04	35.43	38.46	40.18	D
1979	45.95	38.08	39.38	41.23	40.66	D
1978	45.71	45.55	38.54	43.10	43.37	D
1977	49.29	40.48	42.91	45.31	44.00	D
1976	50.16	43.22	53.57	48.54	48.26	D
1975	52.86	43.60	48.95	48.36	47.76	D

BAY SEGMENT REPORT CARD



Water Monitoring



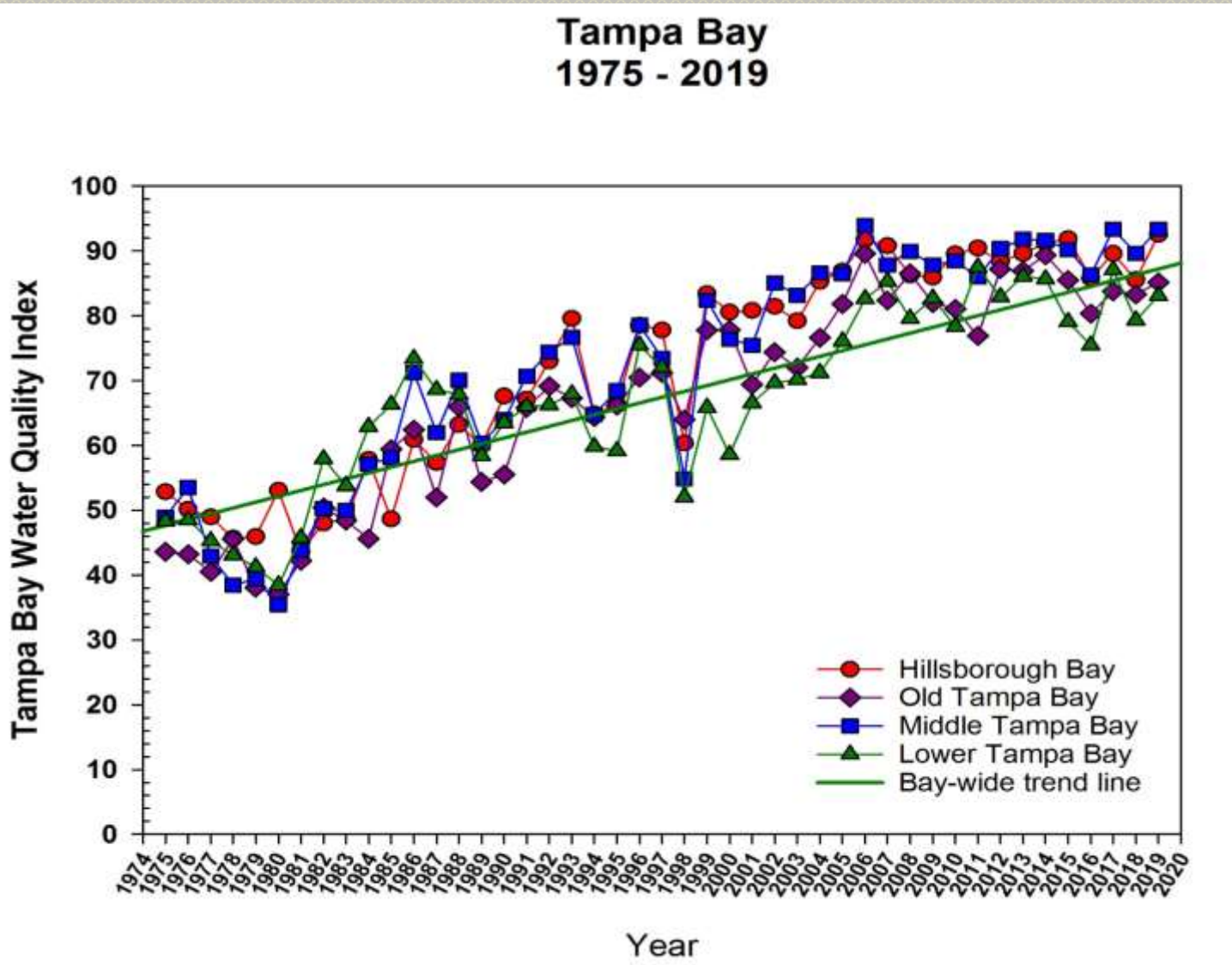
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2014	91.27	89.42	91.67	85.71	89.44	B
2013	89.64	86.97	91.87	86.11	88.42	B
2012	88.45	87.24	90.38	82.94	87.20	B
2011	90.48	76.92	85.69	87.53	83.98	B
2010	89.64	81.08	88.49	78.37	83.81	B
2009	85.99	82.01	87.91	82.74	84.30	B
2008	86.31	86.57	89.98	79.62	85.71	B
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2000	80.60	77.85	76.43	58.14	73.87	C
1999	84.08	76.37	80.93	65.74	76.67	C

WATER QUALITY INDEX (WQI)

TRENDS



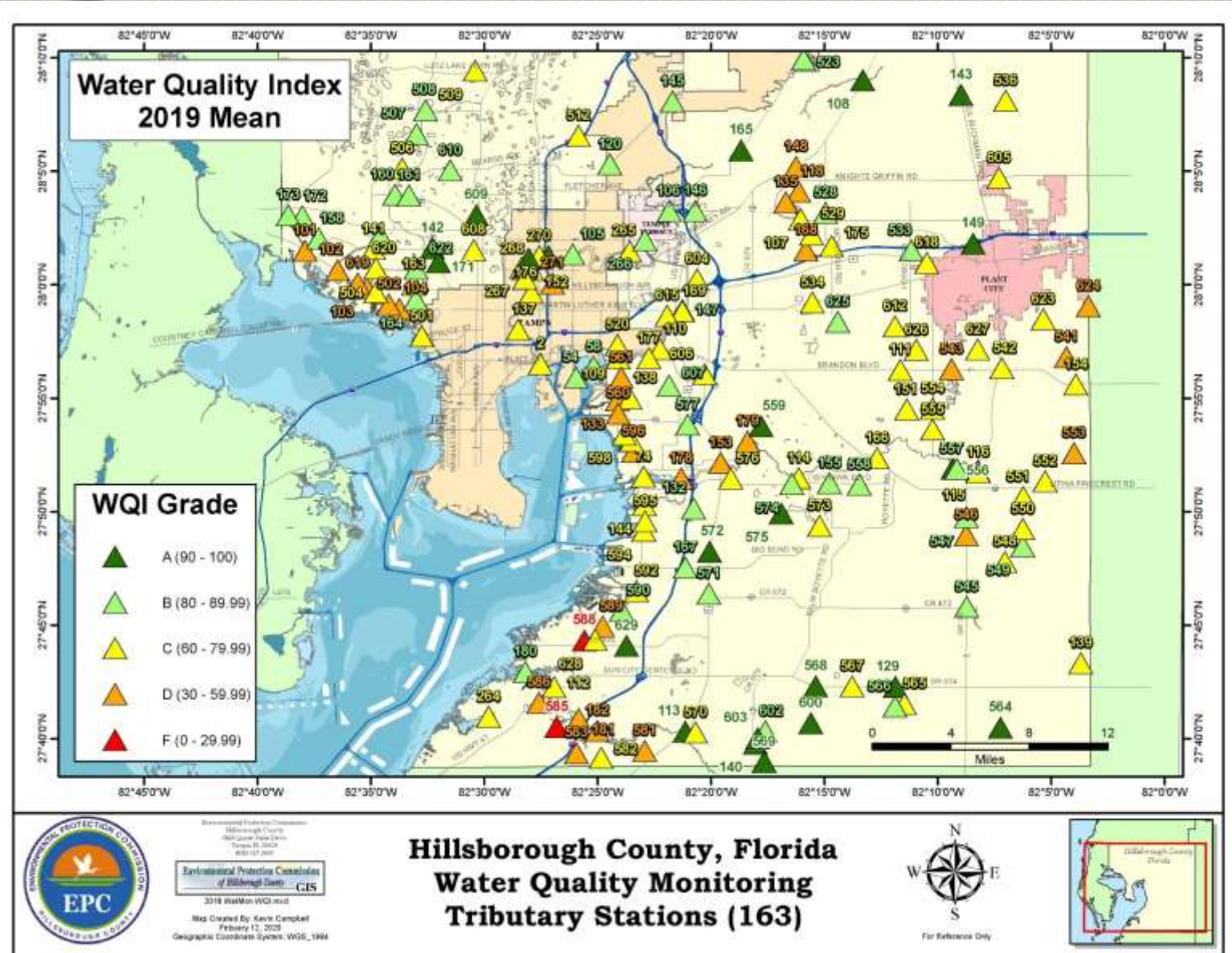
Ethan,
Scientist



TRIBUTARY QUALITY



Mike,
Scientist



2020 EPC Pollution Recovery Fund Project Locations



Small Farms for Clean Water



Ignacio Haya Park Living Shoreline



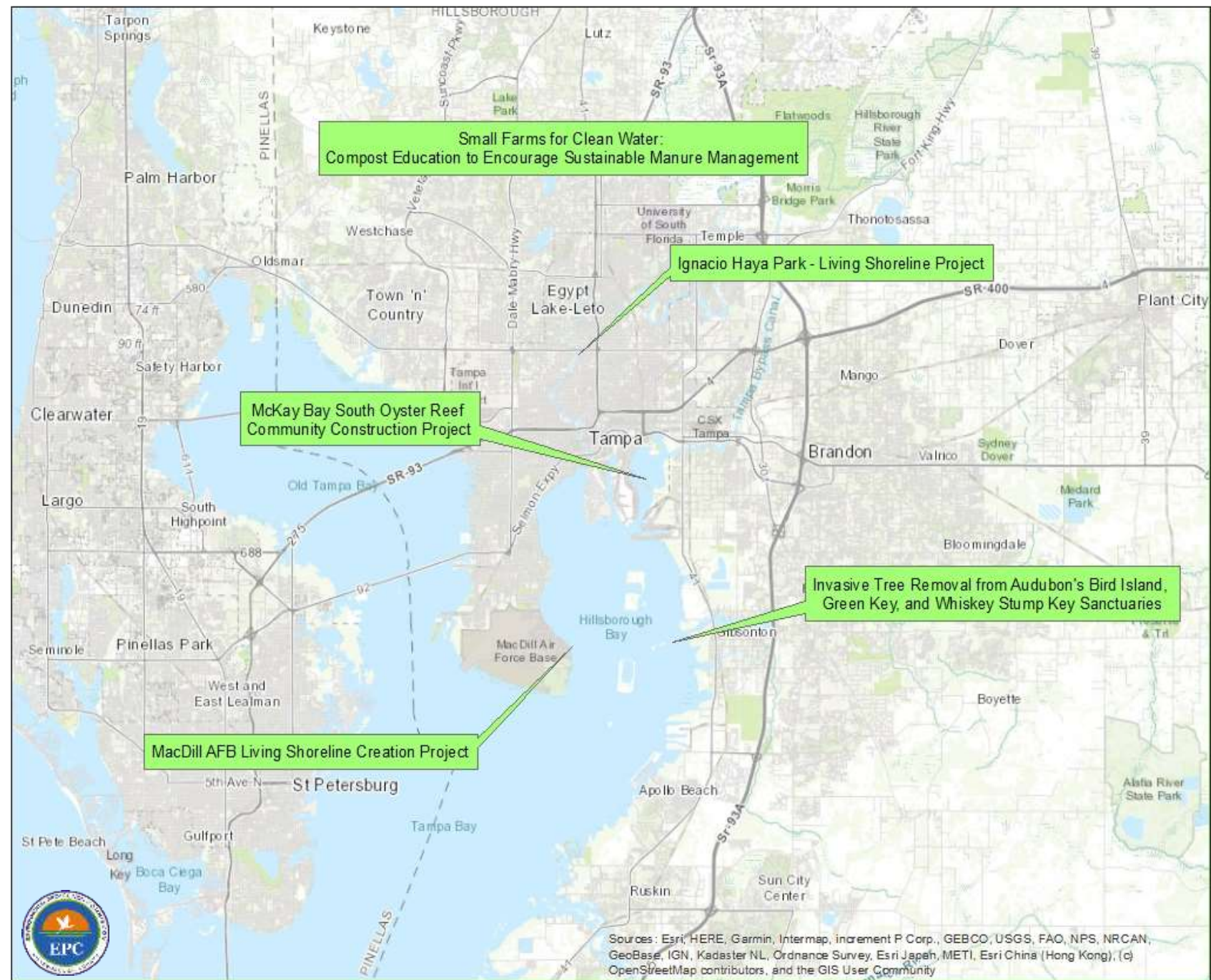
MacDill Air Force Base Living Shoreline



Audubon Sanctuary Invasive Tree Removal



McKay Bay South Oyster Reef Community Construction Project



Administration Division & Legal

...provides support to our four operational divisions, and information and services to the public.



Mary,
Reception



Mary G.,
Finance



Elaine,
Director
Administration

Demetri,
Information
Systems



■ HR

■ Finance

■ Outreach

■ Technology



Monica, HR



Rick,
General
Counsel



...on the EPC

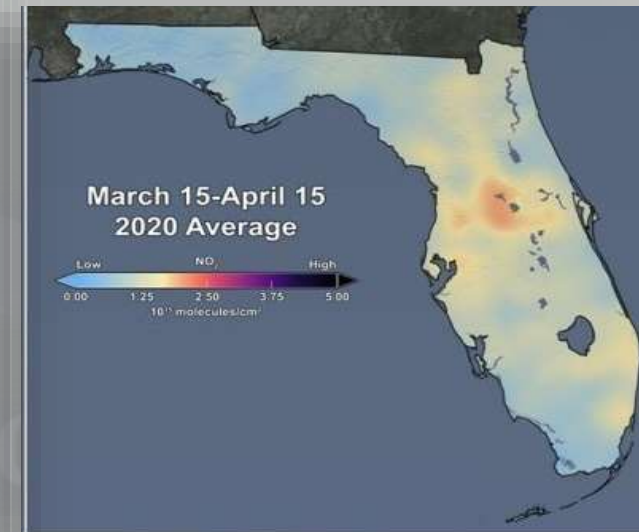
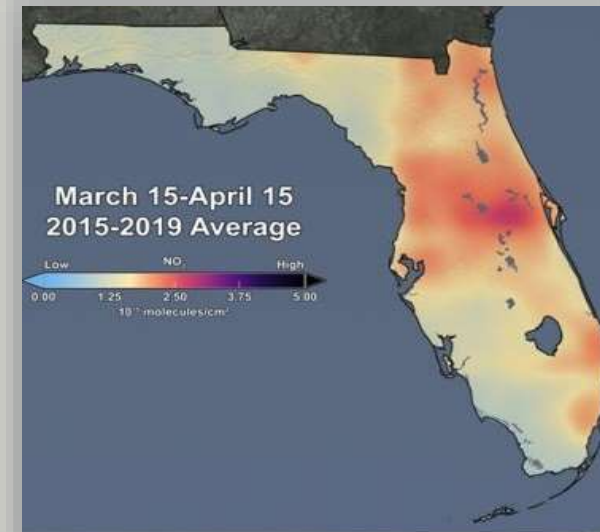


- Developed policies /protocols to meet all CDC Guidelines
- Required use of personal protection equipment (PPE) for all staff (mask, barriers, gloves, etc.)
- Unanticipated purchases (information systems, PPE, etc.)
- Implemented remote/virtual work practices (electronic communication, paperless)
- Temporarily suspended all routine water monitoring, lab activities (resumed operations in June)

...on the EPC (cont.)



- Developed and implemented alternative inspection methods in SQG Program
- During the State of Emergency, Florida actually experienced short-term air quality improvements
- Maintained core functions with minimal interruption



Courtesy of NASA Imagery

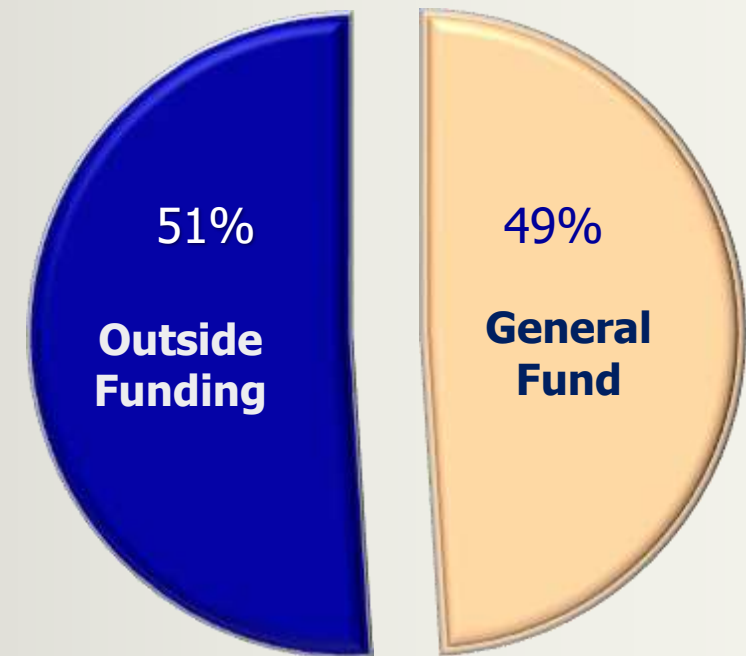
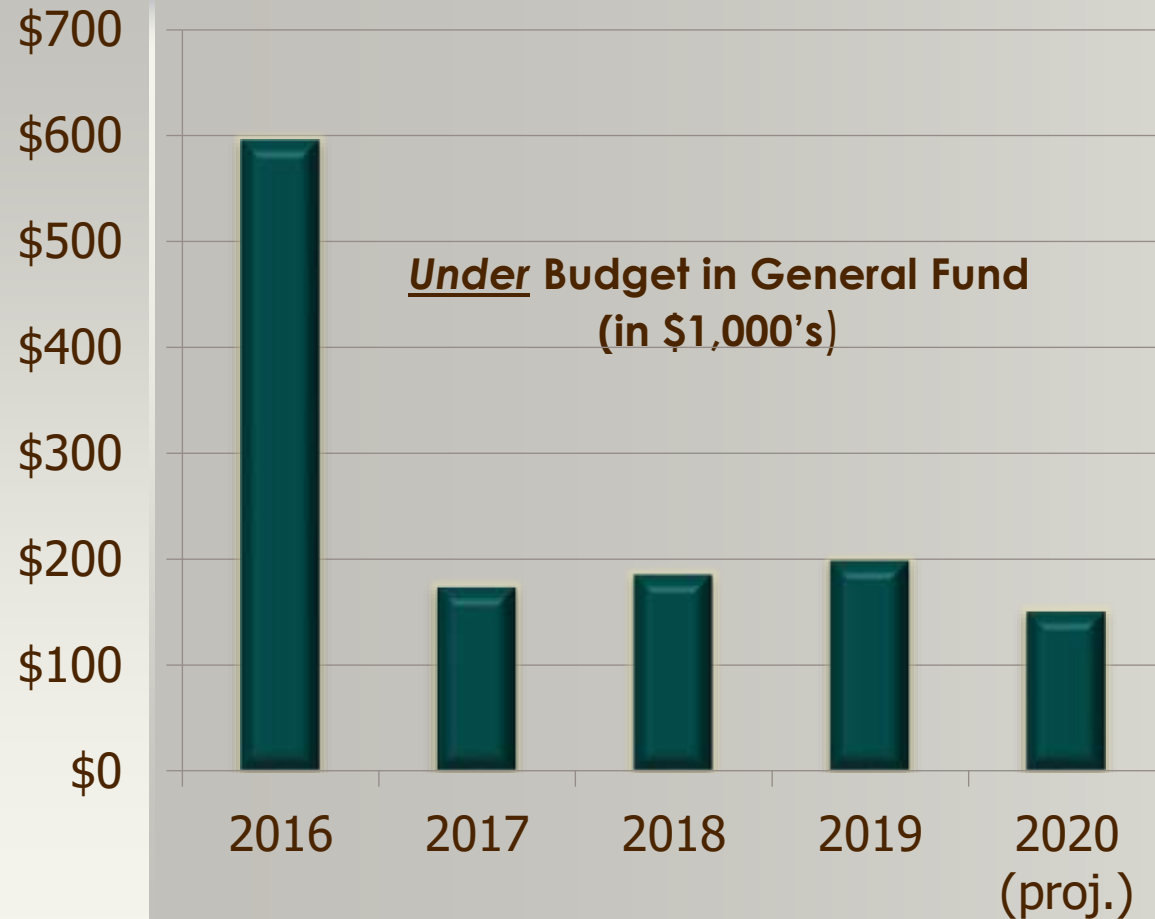
EPC

EPC

EPC

EPC's Fiscal Responsibility

End of the Year Bottom Line

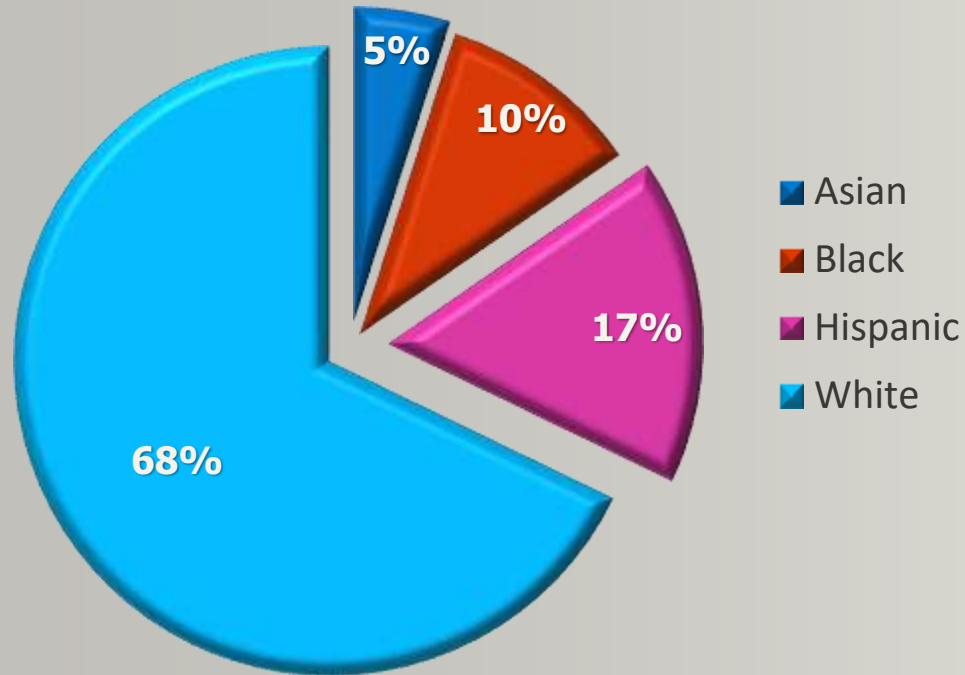


2019 Expenditures

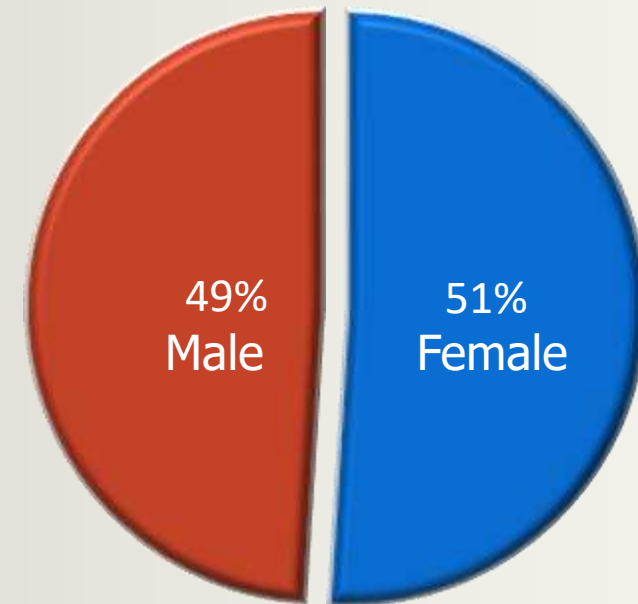
EPC Diversity



AGENCY WIDE EEO CLASS
SEPT 2020



Staff Gender Breakdown



Honoring Our EPC Servicepersons



Chris,
US Navy



Justin,
US Army



Yadi,
US Army



Charles,
US Marine Corps



Carlos,
US Air Force

Thank you VETERANS



Cedric,
US Marine Corps



Allanna,
US Army



Garrett,
US Marine Corps



Ron,
US Air Force



Chantelle,
US Air Force

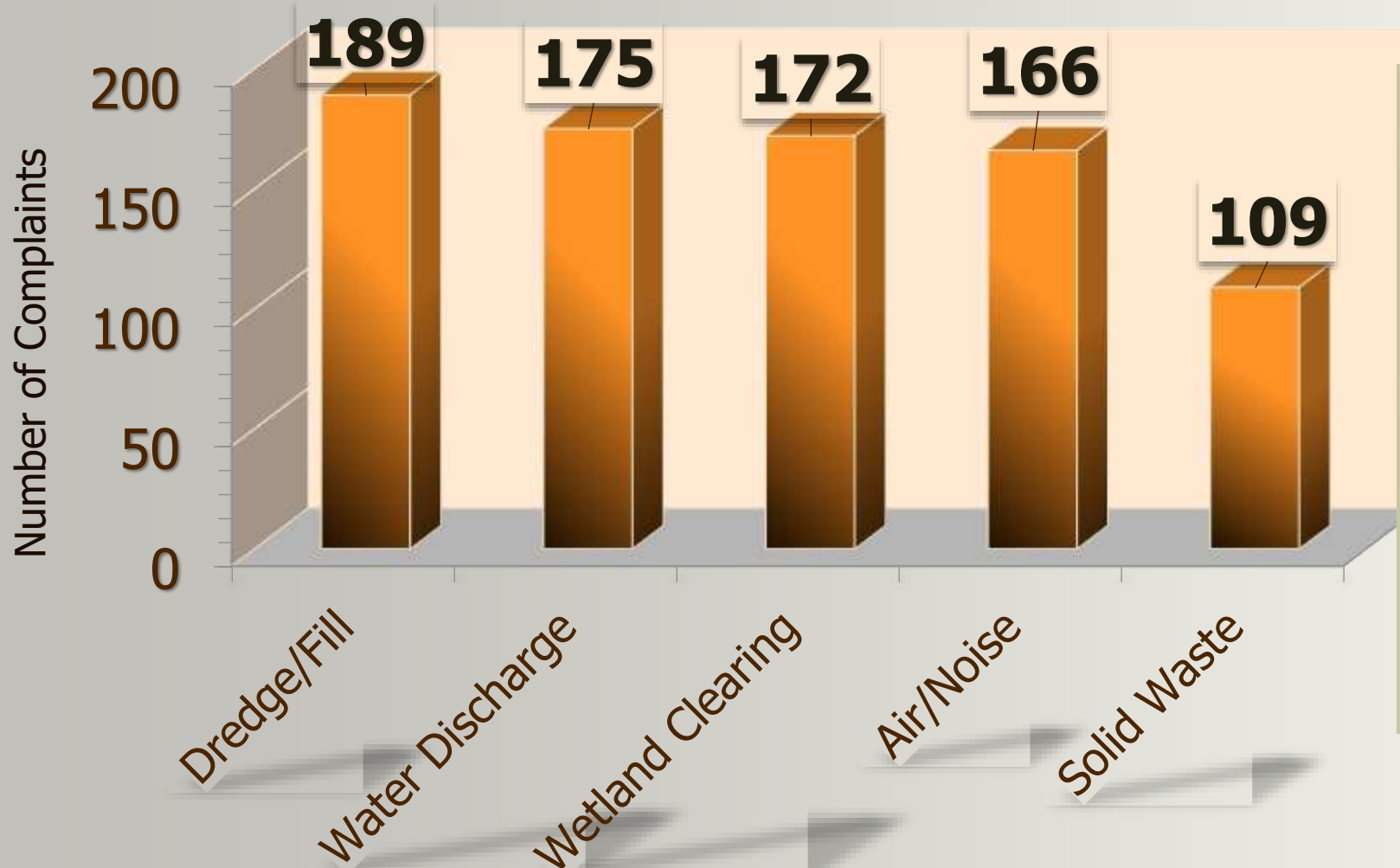
...**54** total from **6** agencies

FY20 Audits

EPC Division	Agency	Program Name	Audit Type
Water	Wales Scientific Solutions for the Florida Department of Health	Water Division Chemistry Laboratory	NELAC Institute Certification
Water	Florida Department of Health	Water Division Chemistry Laboratory	Laboratory Testing Accuracy
Water	Environmental Protection Agency	National Air Toxics Trending Stations	Proficiency Testing
Water	Battelle for USEPA	Water Division Chemistry Laboratory	Proficiency Testing
Air	Department of Environmental Protection	State and Local Air Monitoring Stations Network	Instrument Performance Audits (31)
Air	Department of Environmental Protection	Permitting Program	Program Audit
Air	Environmental Protection Agency	State and Local Air Monitoring Stations Network	Technical Systems Audit
Wetlands	Army Corps of Engineers	State Programmatic General Permit (SPGP)	Permit writing, compliance and enforcement activities
Wetlands	Hillsborough County	Development Services	Permitting Comments/Reviews
Wetlands	Department of Environmental Protection	ERP-Single Family Delegation	Permit writing, compliance and enforcement activities
Waste	Hillsborough County Clerk of the Circuit Court	Petroleum Cleanup Program	Program Audit
Waste	Florida Department of Environmental Protection	Petroleum Cleanup Program	Monthly Program Audit (12)
Waste	Florida Department of Environmental Protection	Brownfields Redevelopment Program	Program Audit

...responding to our citizens

Foremost Complaint Types



- Total complaints: **1,410**
- 3-Day response time met: **96%**
- Timely closure **99.8%**

FY20 Staff Goals

Core Function	Measure	Pre-Sterling Year (2009)	2018	2019	2020 (YTD)	2020 Goal
Permitting	Average Time to Issue an Intent for State Construction Permits	57 days	16 days	19 days	28 days	Less Than or Equal to 30 days
	Average Time to Issue an Intent for Tampa Port Authority Permits	56 days	50 days	51 days	56 days	Less Than or Equal to 60 days
	Average Time EPC Permits were In-house	21 days	26 days	34 days	35 days	Less Than or Equal to 30 days
Compliance	Timely Resolution of Lower Level Non-Compliance Cases	92%	95%	92%	97%	Greater Than or Equal to 90%
Environmental Complaints	Timely Initiation of Investigation	99% in 5 Days	98% in 3 Days	96% in 3 Days	96% in 3 Days	Greater Than or Equal to 90% in 3 Days
Enforcement	Timely Initiation of Enforcement	73%	93%	92%	95%	Greater Than or Equal to 90%

Sustainability



Sustainable

TOGETHER!

Building

Resilient Future



...Agency Paperless Initiative



Rhonda,
Water

- Began in 2018
- Benefits:
 - Costs savings of paper
 - Digital files are easily accessible
 - Digital file sharing allows multiple users at the same time
 - Provides enhanced security – paper files can be destroyed
 - Reduces our overall environmental impact



Continuing to Listen

...to the Executive Director's Feedback Groups

Environmental Feedback Group



Business Feedback Group



Solar Co-Op Info Session



American Wetlands Month

OUTREACH

Pre-COVID



Adopt-A-Road Cleanup



Love Hillsborough

Wetland Characteristics

HYDROLOGY
 Riverine systems have flowing water. This is reflected in different soils on the banks. These portions of the bank that stay in standing water throughout the summer season are clearly covered by organic matter in the water.

SOILS
 Typical soils include sandy soils with stratified horizons that are formed as light-colored sand is deposited over the previous years organic (dark) layer (over the soil a slight depression). Rich black soils containing much organic matter is called muck.

VEGETATION
 Cypress trees dominate the stream.
 Pop Ash is a typical multi-stemmed tree.
 Buttonbush has white grape-like flowers.
 Water lilies, for which the park is named, bloom.

Wetlands as defined in Section 373.062(2), F.S., means those areas that are inundated or saturated by surface water or ground water at a frequency and to a depth sufficient to support, and under normal circumstances do support, a preponderance of vegetation typically adapted for the saturated soils.

Wetlands are important as demonstrated by their ability to receive, store and discharge surface water runoff that contribute to the hydrological stability of water resources, control flooding and erosion, provide filtration and uptake of nutrients and pollutants from surface water runoff, provide habitat for plants and animal species, including threatened and endangered species, provide a significant ecological function in the life cycle of fish, wildlife and other forms of animal or plant life of neighboring habitats, function as an integral part of a surface water course, lake or bay, enhance soil production through available-nutrientive soil and mitigate the greenhouse effect, adjust and absorb flood waters and store storm surges, and provide recreational opportunities to the citizens of Hillsborough County.

Wetlands are the kidneys of the landscape

Since the implementation of our wetlands rule in 1985 we have achieved no net loss of wetlands.

Environmental Protection Commission of Hillsborough County

- EPC was created through a special enabling act by the Florida State Legislature and was established in 1967. Our mission is to protect the natural resources and quality of life in Hillsborough County.
- Our five main operational Divisions are Air, Water, Waste, Parks, and Wetlands.
- Hillsborough County has experienced economic growth in the last 50 years in both residential and commercial development, as well as increased recreational activities. The presence of an energetic, local regulatory agency like EPC has been key in ensuring that people who live, work and play here can enjoy all of the natural beauty we have to offer, while allowing the economy to grow and prosper.

May is Wetlands Month

RIVERINE WETLANDS AT LETTUCE LAKE PARK

Week 1 Episode

About Lettuce Lake Park
 Prior to 1952, opening Lettuce Lake Park was used primarily for cattle grazing, hunting, and fishing. Today, the 240-acre site has grown to be one of the most successful parks in the County, with well over one million visits annually. More than half of the park's property lies in the historic floodplain of the Hillsborough River, consisting of completed swamp forest, which provides a natural storage reservoir for floodwater and improves water quality. The natural setting of the park provides an excellent backdrop for historic landmarks and fine, historic park architecture.

Included at the park are a combined jogging, bicycle & horse trail, canoe rental and launch, boatworks and observation tower, playgrounds, and picnic areas / pavilions. The Audubon Natural Center, the "NPC" at the Park, serves as an interpretive center and provides educational programs and field trips.

Shining with Solar
 A sustainable initiative brought to you by Hillsborough County.

Solar energy being installed here will save money and provide cleaner air!

Learn more at: HCFLEGOV.net/Sustainability

Hillsborough County logo

OUTREACH

During COVID

In celebration of Earth Day (April 22nd) and National Arbor Day (April 24th) Show us how you Stay Green At Home!

#StayGreenAtHome

Sun ☀️ Radio 96.3 FM



Clean Air Month

Outreach

**It's an
Earth-day Birth-day!**



***Clean Air Fair 2020...
Missed But Not Forgotten!***

Jolina Jasperson
Blake HS



Zarria Washington
Blake HS



Courtney Sims
Bloomingdale HS



***EPC
Annual
Photo
Contest***

Hurricane Dorian's
Destruction – Grand Bahamas



Philanthropic Committee Work

Adrian,
Fmr EPC



Hurricane Dorian Relief



RCMA Toys



Elves for Elders



2020 EVENTS



USF ENGINEERING EXPO



HOSTING HILLSBOROUGH COUNTY'S TOASTMASTERS



YES! FAIR



GOVERNOR'S LUNCHEON



RICK TSCHANTZ'S RECOGNITION



RICK TSCHANTZ'S RETIREMENT EVENT



FLORIDA ASSOCIATION OF COUNTIES' LEGISLATIVE DAY



THANKSGIVING LUNCHEON

In Memoriam

Kent Bailey



Kent Bailey
1950 - 2020

Dena Leavengood



Dena Gross-Leavengood
1954 - 2019

Terrell Sessums



Thomas Terrell Sessums
1930 – 2020

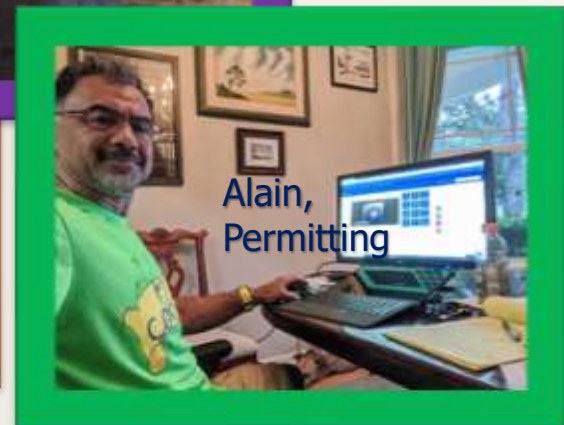
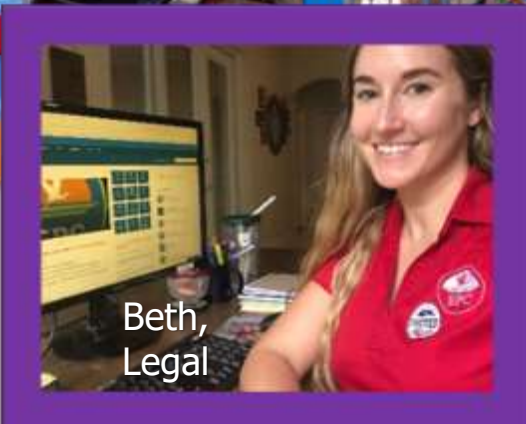
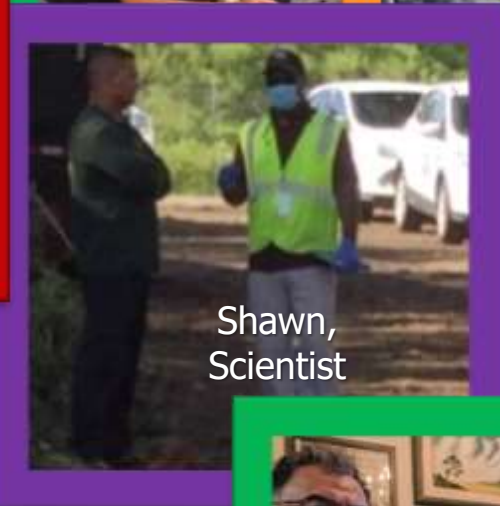
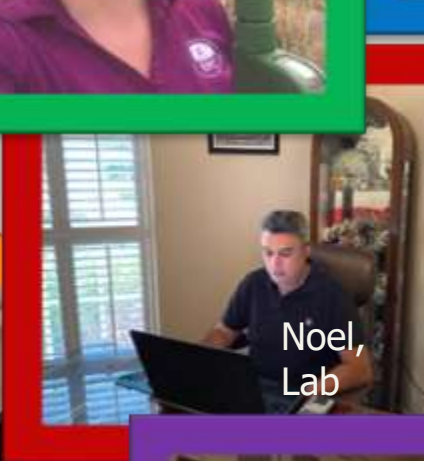
...ahead for EPC in FY21



Challenges

- Continuing to provide a safe workplace
- Developing contingencies for possible funding shortfalls
- Evolving with technological advances
- Continuing to adapt to the challenges of COVID-19

Our Staff at Work...



Our Board's Support...



