



# Tampa Port Authority Portfields Project Descriptions



**TAMPA PORT AUTHORITY**



TAMPA PORT AUTHORITY



- Brownfields Redevelopment
- Wave Energy Study – Longshore Bar Project
- Habitat Protection, Creation, & Enhancement
- Port Facility Improvement Projects
- Innovative Storm Water Treatment Project
- Improving Tampa Bay VTIS System
- Improving Tampa Bay PORTS
- Outreach Projects
  - Seaport Training & Employment Program
  - Newspaper In Education-Tampa Portfields
  - Tampa Marine Institute At Risk Youth Program
- Aquatic Nuisance Species Introduction & Monitoring
- Maritime Security Issues



**TAMPA PORT AUTHORITY**



## **Portfields Project Description**

*The intent of this Project Description is to specify distinct opportunities for the Portfields federal agency partners to assist implementation of the port's Portfields projects.*

---

**Project Name      Brownfields Redevelopment**

### **Project Description**

**Overview of the project** – Current active Port of Tampa Brownfield sites include Port Ybor (50 acres), a former DOD site, a 10 acre former scrap yard site (Tampa Scrap Processors), and an active 40 acre ship repair facility (Tampa Bay Shipbuilding and Repair Co. Inc.).

**Key milestones and dates** – Each site is in various stages of assessment and/or remediation:

- Port Ybor-parceled into TrammellCrow development(s), cargo yard, and shipyard. TrammellCrow 285,000 sq. ft. (on 15-acre portion) warehouse nearing completion, grand opening in 6-8 months.
  - Gulf Marine Repair-received Targeted Brownfields Assessment Grant from FDEP. Conducted site visit with state and their contractor, no assessment work has started.
- Tampa Bay Ship-assessment activities ongoing, remedial action proposals being drafted.
- Former Tampa Scrap-ongoing assessment studies, active remediation of petroleum contamination to begin in next few months.

**Project budget** – Most funding through Port's Capital Improvement funds, \$90K grant received from the EPA via the City of Tampa. Received TBA from FDEP (approximately \$75K in assessment and potentially up to \$200K in source removal funding).

**Existing partners** – Port of Tampa Brownfield Committee, includes stakeholders, City of Tampa, and representatives from the Environmental Protection Commission of Hillsborough County, FDEP.

**Desired Outcome** – Utilize Portfields program and partner agencies to facilitate environmentally responsible redevelopment and revitalization of designated Port of Tampa Brownfield sites, increasing maritime related job opportunities, and the economic productivity of the port.

**Current Status** – All sites mentioned are currently under Brownfields Site Rehabilitation Agreement (BSRA's) and will require additional site assessment and remediation activities.

**Key Challenges/Needs to Achieving Desired Outcome**

- Funding to facilitate the Completion of Brownfields Site Assessments Under the Florida Brownfields Program and completion of remedial activities as required under the BSRA's.
- Sustainable redevelopment of the properties.
- Maritime Security soft and hard costs (guards/gate(s) & access facilities).

**Short-Term Remedies/Actions**

- Complete Brownfields Site assessment Activities as required by the BSRA's.
- Complete Remedial Activities as required by the BSRA's.
- Identification of sustainable reuses and developers for the property

**Longer-Term Remedies/Actions**

- Assessment and Remedial activities may require a time frame greater than a year.
- Identification of sustainable reuses and developers may require a time frame greater than a year.



**TAMPA PORT AUTHORITY**



## **Portfields Project Description**

*The intent of this Project Description is to specify distinct opportunities for the Portfields federal agency partners to assist implementation of the port's Portfields projects.*

---

**Project Name      Wave Energy Study - Longshore Bar Project**

### **Project Description**

**Overview of the project** – A local effort sponsored by the Tampa Bay Estuary Program to study wave energy (natural and/or man-made) to determine potential harm to seagrass beds in Hillsborough County, through the degradation and elimination of longshore bar systems and support the development of a seagrass recovery strategy in Hillsborough Bay.

**Key milestones and dates** – see attached.

**Project budget** – see attached proposed budget.

**Existing partners** – Lewis Environmental, Mote Marine Lab, Tampa Bay Estuary Program, USGS, City of Tampa Bay Studies Group, USACOE, URS, SWFWMD-SWIM, MacDill AFB, EPC of Hills. County, Tampa Port Authority.

**Desired Outcome** – This project is proposed to identify areas in Hillsborough Bay where seagrass may not recover due to natural and/or man-made waves, and where shoreline erosion may be expected if wave energy is increased, thus providing information needed for long-term habitat management strategies. Results will also be used in the design and construction of a longshore bar to reduce the effects of wave energy and support the recovery of up to 50 acres of seagrass behind the restored bar.

**Current Status** – Wave Energy Working Group, which includes the partners listed above, has been meeting over the past year.

### **Key Challenges/Needs to Achieving Desired Outcome**

- Expert involvement in the development of field measurement of both natural and man-made wave energy to quantify the wave reduction necessary to allow natural colonization and persistence of restored seagrass areas.
- Expert concurrence on a detailed project design and Quality Assurance Plan, including site locations, placement of meters, and analyses plan.
- Expert validation of the developed wave exposure model(s).

- Develop sound coastal engineering criteria for reconstruction of bars as a beneficial use of dredged material and whatever additional wave protection would be necessary
- Funding
- Need technical expertise

**Short-Term Remedies/Actions - Longer-Term Remedies/Actions**



**TAMPA PORT AUTHORITY**



## **Portfields Project Description**

*The intent of this Project Description is to specify distinct opportunities for the Portfields federal agency partners to assist implementation of the port's Portfields projects.*

---

**Project Name      Habitat Protection, Creation, and Restoration**

### **Project Description**

**Overview of the project** – Potential for shoreline stabilization, habitat protection and enhancement, and fish/shellfish habitat creation along Port owned disposal islands. Enhance shore and wading bird habitat while creating intertidal hard bottom substrate. Raise levees on dredged disposal islands.

**Key milestones and dates** – Dredging and island projects would need to be accomplished from September through March to avoid the migratory bird nesting season. Currently a small-scale pilot project of oyster habitat creation for natural resource injuries as a result of Alafia River acid spills is being completed at Dredged Material Island 2-D and Fantasy Island through NOAA.

**Project budget** - \$5 mil allocated in FY 05/06 Capital Improvement plan for levee construction.

**Existing partners** – Audubon Society-Florida Coastal Islands Sanctuaries, NOAA, The Florida Aquarium.

**Desired Outcome** – Dredged Material Islands 2-D is nearing capacity and 3-D is planned for upcoming ACOE Federal projects. Ideal time to conduct restoration and enhancement activities is during the non-migratory bird window (September through March) when heavy equipment is on the islands conducting island maintenance and construction. A detailed improvement/restoration plan is desired.

**Current Status** – Planning

### **Key Challenges/Needs to Achieving Desired Outcome**

- Detailed engineering, geotechnical, and construction studies would need to be completed to ensure that any contemplated project would in no way impact the existing deepwater shipping channel
- Funding and technical expertise
- Potential regulatory hurdles, state may not look favorably upon hardening of the shoreline projects

**Short-Term Remedies/Actions - Longer-Term Remedies/Actions**



**TAMPA PORT AUTHORITY**



## **Portfields Project Description**

*The intent of this Project Description is to specify distinct opportunities for the Portfields federal agency partners to assist implementation of the port's Portfields projects.*

---

**Project Name      Port Facilities Improvement Projects**

### **Project Description**

#### **Overview of the project**

1. Berth 230 Reconstruction – one of the oldest existing port facilities, active petroleum transfer, facility in need of repair
2. Container terminal facility-Crane Electric Infrastructure Improvements

#### **Key milestones and dates**

1. Project presently being reviewed
2. Currently in the planning and development stage. Three gantry cranes scheduled for delivery and installation in 2005.

#### **Project budget**

1. Funding in consideration for FY 07/08
2. Port Capital Improvement fund

#### **Existing partners**

#### **Desired Outcome**

1. Increase and sustain petroleum commodity
2. Increase deepwater port facilities, job creation

#### **Current Status**

1. Funding proposed.
2. Requested assistance from NOAA Portfields for funding & grant availability for crane improvements; noting that the choice to select electric over diesel cranes, may have not been the cheaper and quicker alternative, but was an environmentally sound decision. Estimated cost is between \$1.2-1.5 mil. for the necessary electrical improvements.

#### **Key Challenges/Needs to Achieving Desired Outcome**

- Costs and funding
- Priority of projects

#### **Short-Term Remedies/Actions - Longer-Term Remedies/Actions**





**TAMPA PORT AUTHORITY**



## **Portfields Project Description**

*The intent of this Project Description is to specify distinct opportunities for the Portfields federal agency partners to assist implementation of the port's Portfields projects.*

---

**Project Name      Innovative Storm Water Treatment Project**

### **Project Description**

**Overview of the project** – Identify small out parcels for potential drainage ditch, storm water retention pond(s), and habitat and storm water improvement projects to go above and beyond current regulatory requirements.

**Key milestones and dates** – Portfields Demonstration GIS Project mostly complete.

**Project budget** – to be determined based on final project.

**Existing partners** – NOAA, Southwest Florida Water Management District, SWFWMD- Surface Water Improvement and Management Program, Environmental Protection Commission of Hillsborough County, Tampa Bay Estuary Program, Photo Science-Geospatial Solutions,

**Desired Outcome** – Identify unused and not planned for future use Port Authority owned property in close proximity to existing drainage and storm water conveyance systems for the creating of setting ponds, habitat creation, and wetland restoration projects to enhance water quality in storm water entering the Tampa Bay estuary and will provide national model for other ports.

### **Current Status**

- Received \$20,000 NOAA Grant through GIS Solutions.
- Received \$35,000 in NOAA Portfields Initiative Funding,
  - Of which the Port has earmarked \$25,000 toward this specific project.
  - \$45,000 encumbered for project thus far, not including staff time.
- Received \$45,000 match assistance from EPC Pollution Recovery Fund to accomplish next steps:
  - Monitoring, Design & Engineering
  - Permitting
  - Construction
  - Monitoring and Reporting
- Will be seeking additional funding partners, SWFWMD, TBEP, etc.

**Key Challenges/Needs to Achieving Desired Outcome**

- Site selection
- Water quality monitoring
- Project Design
- Funding
- Potential regulatory hurdles

**Short-Term Remedies/Actions - Longer-Term Remedies/Actions**



**TAMPA PORT AUTHORITY**



## **Portfields Project Description**

*The intent of this Project Description is to specify distinct opportunities for the Portfields federal agency partners to assist implementation of the port's Portfields projects.*

---

**Project Name      Improving Tampa Bay VTIS System**

### **Project Description**

**Overview of the project** - The Tampa Bay Harbor Safety & Security Committee (TBHSSC) was established as a result of a recommendation from its predecessor, the Tampa Bay Vessel Traffic Consortium. The Consortium was created in 1994 by the FL State Legislature after the March 1933 three-vessel collision in Tampa Bay. The Consortium mission was to review the vessel traffic in Tampa Bay and identify methods to improve the navigational safety, identify funding requirement, and make recommendations to the Legislature. After two and half years of extensive deliberations the Consortium presented its report to the Legislature. This report included the formation of the TBHSSC and the intent to establish a DGPS/AIS vessel traffic information system/service.

#### **Establish Tampa Bay Cooperative VTIS**

- TPA
  - Upgrade VTIS capabilities
  - Dedicated watchstander
  - Integrate information
- Upgrade system to new standard
- USCG
  - Support VTIS upgrades
    - Technology
    - O & M
    - Training
    - Dedicated watchstander
  - Gatekeeper
  - Integrate new technology

#### **Key milestones and dates**

#### **Project budget – VTIS**

- \$400,000 set aside by TPA for hardware/software.
- TPA annual operating costs are \$175,000.
- USCG partnership

- Request for \$750,000 grant from FL State Legislature for VTIS upgrades **DID NOT HAPPEN.**

#### **Existing partners – VTIS**

- The Board of the TBHSSC consists of a combination of port industry and regulatory agencies as well as environmental, recreational boating, and other interests that have a need to coexist with the commercial vessel traffic on Tampa Bay. A very important and unique benefit of the TBHSSC is a Memorandum of Agreement between the USCG and the TPA (on behalf of the TBHSSC) concerning the operation of a cooperative vessel traffic information system for Tampa Bay.

#### **Desired Outcome – VTIS**

- Fully integrated cooperative VTIS for Tampa Bay with competent authority to manage and control the maritime domain.
  - Coordination with all regulatory and law enforcement agencies.
  - Full real-time operational

#### **Current Status –VTIS**

- TPA and USCG reviewing current technology and regulations for new application for Tampa Bay.
- Limited funding available - \$400,000 by TPA.

#### **Key Challenges/Needs to Achieving Desired Outcome**

- Competent authority, USCG participation required.
- Type approved technology
- Frequency use
- Integrate Pilot carry-on technology
- Determine specific stakeholder participation

#### **Short-Term Remedies/Actions**

- TPA and USCG to establish coordinated VTIS in FY05.
  - Technology
  - Watchstander
  - Develop management protocols
  - Gatekeeper protocol

#### **Longer-Term Remedies/Actions**

- O & M Funding



**TAMPA PORT AUTHORITY**



## **Portfields Project Description**

*The intent of this Project Description is to specify distinct opportunities for the Portfields federal agency partners to assist implementation of the port's Portfields projects.*

---

**Project Name      Improving Tampa Bay PORTS**

### **Project Description**

**Overview of the project** - Tampa Bay PORTS is the Physical Oceanographic Real-Time System that provides current, water level, and wind measurements from multiple locations in Tampa Bay.

### **Key milestones and dates**

#### **Project budget – PORTS**

- \$150,000-180,000 per year, plus \$20-50,000 for spares
- Funding has been provide by contributions and grants from port stakeholders an various local and state governmental agencies
- Currently, Hillsborough County provides a grant of \$150,000/year and funding has been through a reimbursable process.

#### **Existing partners – PORTS**

- NOAA-NOS, University of South Florida, TPA, Hillsborough County BOCC, Marine Science Assoc., Tampa Bay Pilots

#### **Desired Outcome – PORTS**

- Safer navigation for Tampa Bay, enhanced ability to maximize commercial shipping, hazardous material/oil spill prevention and response, improved search and rescue and scientific research.

#### **Current Status –PORTS**

- System has stable funding for projected O & M. NOAA is providing new support with technology improvements and recent cost savings initiatives. Tampa Bay PORTS is under review to possible expand capabilities to include visibility and wave data. Conducting joint review with NOAA PORTS program for spare parts inventory.

#### **Key Challenges/Needs to Achieving Desired Outcome**

- Rapid, efficient response to repair and ADCP. Weather often impacts response capability.
- Scheduling and availability of support sources for critical operation-boats, divers.

- Limited funding. Efforts to date have been result of local political support.

**Short-Term Remedies/Actions**

- Identify additional resources for boat and dive support.
- Continue funding outreach to include more stakeholders.

**Longer-Term Remedies/Actions**

- Identify long term funding for O&M.
- Support funding for all PORTS O&M in US Ports.



**TAMPA PORT AUTHORITY**



## **Portfields Project Description**

*The intent of this Project Description is to specify distinct opportunities for the Portfields federal agency partners to assist implementation of the port's Portfields projects.*

---

**Project Name**      **Outreach Projects - Seaport Training & Employment Program**

**Project Description** - This project would be a partnership with local community college(s) and local maritime industries. It is essentially an in-class and on-site technical training program to prepare workers for positions in traditional industries, such as ship repair, environmental sound land maintenance and/or seaport construction.

**Overview of the project** – The program would be designed and promoted by an area technical college. For a number of years Tampa has experienced a shortage of trained workers in several industries including construction, land maintenance, and ship repair/welding. The program would be geared toward recruiting underemployed individuals, possibly from the enterprise zone surrounding the Port. Each program would run for several months, and those graduating would enjoy an advanced placement opportunity, pre-negotiated with port employers.

**Key milestones and dates** – Following funding commitment ...  
Development of course overview/attraction of operating partners (Months 1-6)  
Design of course/purchase of materials; refurbishment of existing portable on-site classroom (Months 7-12)  
Recruitment of first class (Months 13-15)  
Graduation/placement of first class (Months 16-20)

**Project budget** – Approximately \$100,000

**Existing partners** - None committed. Previous partners: Irwin Tech.; Brewster Tech.; Tampa Bay Ship Repair; Gulf Marine Ship Repair; Tampa Port Authority; Hillsborough County School District; and others

**Desired Outcome** – Regular stream of employee candidates for difficult-to-fill traditional port jobs

**Current Status** - On hold due to lack of funding and interim impact of security mandate

**Key Challenges/Needs to Achieving Desired Outcome**

- Lack of funding.
- Ensuring candidate pool can pass security background check
- Re-establishing contact/interest with past partners
- Expanding partner base.

**Short-Term Remedies/Actions**

- Funding needed to jump-start process
- Discussions with educators needed to establish whether candidate pool is sufficient given new security restrictions
- Identification of specific jobs which are not being filled in port area
- Solicitation of project coordinator
- Initiate search for partners
- Develop/design coursework

**Longer-Term Remedies/Actions**

- Recruit students
- Initiate training





**TAMPA PORT AUTHORITY**



## **Portfields Project Description**

*The intent of this Project Description is to specify distinct opportunities for the Portfields federal agency partners to assist implementation of the port's Portfields projects.*

---

**Project Name**      **Outreach Projects – Newspaper in Education – Tampa Portfields**

**Project Description** - This project would be a partnership with the Tampa Tribune's award-winning Newspaper in Education (NIE) program. The NIE program essentially develops cutting-edge curriculum based on the newspaper to help teachers meet new state standards of education for K-12. A Portfields based NIE program would become an invaluable teaching tool, with real life lessons.

Activities would provide learning opportunities in physical science, social studies, life science, environmental science, and biology.

**Overview of the project** – NIE is a fun, innovative way to bring real life – Portfields - to the classroom. Applying new state standards in the classroom can be difficult; this program will offer a change from the monotony of standard textbooks and real-life examples and applications for schoolwork.

We will take a group of six students and give them a VIP tour of the portfields sites. The students will become "Ace Reporters", interviewing port people, terminal operators, remediators, stormwater technicians, and others. Themes and important messages will be identified and the Tribune will put together elements that are directly curriculum related. A colorful, interactive 16-page newspaper supplement will be created, taking a reader through the life-cycle of certain portfields, including industries and their impact on the lands and waterways, the impacts on neighboring areas, stormwater treatment, reuse and remediation, government initiatives, and the technical and scientific processes of recycling and renewing facilities.

This guide will be used in every Hillsborough County school, at the appropriate level (tentatively, Grade 10), and will also be included in the Hillsborough County circulation of the newspaper, generating more than 250,000 readers and used throughout the school year.

**Key milestones and dates** – Following funding commitment ...

Development of timeline and creative outline (Months 1-2)

Promotion of program with Hillsborough County schools (Months 1-4)

Selection of Ace Reporters/site visits and interviews/photo shoots (Month 3)

Final research/design and layout/ proofing and editing (Month 4)

Distribution (Month 5)  
In class use (Months 5-12)

**Project budget** – Approximately \$22,000

**Existing partners** – Tampa Tribune Newspaper in Education, Hillsborough County School District, Tampa Port Authority. Anticipate approaching: Army Corps of Engineers, EPA, FDEP, EPC, and others

**Desired Outcome** – Educate more than 12,000 students and expose up to an additional 250,000 county residents about the successful recycling of port facilities, under Portfields care.

**Current Status** - On hold due to lack of funding.

**Key Challenges/Needs to Achieving Desired Outcome**

- Lack of funding
- Timing issue – must ensure NIE program can schedule to maximize educational opportunities for students
- Must establishing interest with potential partners

**Short-Term Remedies/Actions**

- Funding needed to begin process
- Discussions with educators
- Research on site histories and identification of range of future uses on sites
- Initiate search for reporters and partners
- Develop supplement and curriculum

**Longer-Term Remedies/Actions**

- Evaluate success of program



**TAMPA PORT AUTHORITY**



## **Portfields Project Description**

*The intent of this Project Description is to specify distinct opportunities for the Portfields federal agency partners to assist implementation of the port's Portfields projects.*

---

**Project Name**      **Outreach Project/Tampa Marine Institute At Risk Youth Program**

**Project Description** - Tampa Marine Institute offers rehabilitation for at risk youth via training in and exposure to solid role models, including suitable career paths.

**Overview of the project** – A new education center was recently completed on land owned by the Tampa Port Authority. With the initiation of construction of the Port's main security complex, the school was temporarily moved to a Cruise Terminal. The School is always in need of funding to continue its programs.

**Key milestones and dates** – Recent completion and opening of the education facility on Port owned land at Hooker's Point.

**Project budget** – \$500,000 to \$900,000, including land and building with sufficient classroom space

**Existing partners** - Tampa Marine Institute.

**Desired Outcome** – Associated Marine Institutes, Inc. (AMI) is a non-profit organization that operates over 50 programs for juvenile offenders in Florida, Georgia, Illinois, Louisiana, New Mexico, South Carolina, Texas, and Virginia. AMI programs consist of residential and day treatment programs for adjudicated youth and six alternative schools for at-risk students in Florida and Illinois. Their program is always seeking new innovative funding sources.

**Current Status** – Building secured and open.

### **Key Challenges/Needs to Achieving Desired Outcome**

- Funding

### **Short-Term Remedies/Actions**

- Funding

### **Longer-Term Remedies/Actions**

- Funding



**TAMPA PORT AUTHORITY**



## **Portfields Project Description**

*The intent of this Project Description is to specify distinct opportunities for the Portfields federal agency partners to assist implementation of the port's Portfields projects.*

---

**Project Name      Aquatic Nuisance Species Introduction & Monitoring**

### **Project Description**

**Overview of the project** - Ballast water is regulated via Federal law under the National Invasive Species Act (NISA). The US Coast Guard is the lead agency tasked with implementing a national ballast water management program.

**Key milestones and dates** - In February 2004 it was announced by the International Maritime Organization (IMO) proposed new regulations to curtail the spread of harmful aquatic nuisance species carried in ships' ballast water. The announced has earned accolades from the American Association of Port Authorities (AAPA), the organization representing public ports throughout the Western Hemisphere.

### **Project budget**

**Existing partners** – The Tampa Port Authority has been working with the Smithsonian Environmental Research Center for more than two years in an aquatic species study at the Port of Tampa. Not only is this scientific study providing new details on the specific make-up of the Tampa Bay invertebrate community, but it is also a coordinated national approach to determine the extent, patterns, and effects of potential aquatic nuisance species on both coasts and the Gulf of Mexico of the US and also Australia.

**Desired Outcome** – Encourage the US Coast Guard to implement a standardized mandatory ballast water management program throughout the US.

### **Current Status**

#### **Key Challenges/Needs to Achieving Desired Outcome**

- Implementation and long-term program funding
- Regulatory hurdles

#### **Short-Term Remedies/Actions - Longer-Term Remedies/Actions**



**TAMPA PORT AUTHORITY**



## **Portfields Project Description**

*The intent of this Project Description is to specify distinct opportunities for the Portfields federal agency partners to assist implementation of the port's Portfields projects.*

---

**Project Name**      **Maritime Security Issues**

### **Project Description**

**Overview of the project** – Provide needed funding for security infrastructure and at designated Brownfield redevelopment sites.

### **Key milestones and dates**

**Project budget** – In addition to state and federal grants received for implementing security mandates, the Tampa Port Authority Board of Commissioners has allocated a portion of the ad-valorem tax revenue for security soft costs.

### **Existing partners**

**Desired Outcome** – Encourage the Portfields partner agencies to engage the Dept. of Homeland Security's involvement in the Portfield's program in order to provide required maritime security facilities and infrastructure for Port redevelopment and revitalization at Port of Tampa Brownfield sites.

**Current Status** - The Port of Tampa has received state and federal funding to implement required security mandates.

### **Key Challenges/Needs to Achieving Desired Outcome**

As additional port facilities and Brownfield sites are developed, security mandates such as access gates, security guards, surveillance equipment, etc. will need to be implemented.

### **Short-Term Remedies/Actions - Longer-Term Remedies/Actions**