Board of
Commissioners Meeting
December 13, 2013

PRELIMINARY AGENDA

FLORIDA INLAND NAVIGATION DISTRICT
Board of Commissioners Meeting

9:00 a.m., Friday, December 13, 2013

Hampton Inn New Smyrna Beach
214 Flagler Ave.
New Smyrna Beach (Volusia County), FL 32169

Item 1. **Call to Order.**

Chair Kavanagh will call the meeting to order.

Item 2. **Pledge of Allegiance.**

Commissioner McCabe will lead the Pledge of Allegiance to the United States of America.

Item 3. **Roll Call.**

Secretary Cuozzo will call the roll.

Item 4. **Consent Agenda.**

The consent agenda items are presented for Board approval. Commissioners may remove any items from this agenda for additional discussion. Any removed items would then be included in the regular agenda in an order assigned by the Chair.

(Please see the pages following the color divider page)

RECOMMEND Approval of the Consent Agenda.

A) Miami-Dade County Small-Scale Derelict Vessel Removal Application, Miami-Dade County

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Item 5. **Additions or Deletions.**

Any additions or deletions to the meeting agenda will be announced.

RECOMMEND: Approval of a final agenda.

Item 6. **Public Comments.**

The public is invited to provide comments on issues that are NOT on today's agenda. All comments regarding a specific agenda item will be considered following Board discussion of that agenda item. *Please note: Individuals who have comments concerning a specific agenda item should make an effort to fill out a speaker card or communicate with staff prior to that agenda item.*

Item 7. **Board Meeting Minutes.**

The minutes of the following meetings are presented for approval.

- October 18, 2013 – Finance & Budget Comm. Mtg. (Please see back up pages 5 - 9).
- October 18, 2013 – Board Meeting (Please see back up pages 10 - 29).
- November 16, 2013 - Finance & Budget Comm. Mtg. (Please see back up pages 30 - 34).
- November 16, 2013 - Board Meeting (Please see back up pages 35 - 56).

RECOMMEND: Approval of the minutes as presented.

Item 8. **Comments from the U.S. Army Corps of Engineers.**

U.S. Army Corps of Engineers (USACE) Intracoastal Waterway Project Manager, Ms. Shelly Trulock is scheduled to present an update on projects and activities.

(Please see back up pages 56 - 60)

Item 9. **Staff Report on Volusia County Area Projects.**

Staff will present a report on the District's Volusia County area projects.

(Please see back up pages 61 – 88)

Item 10. **Brevard County, Indian River County, and St. Lucie County - Reach 1 Dredging Needs Assessment, Indian River Lagoon (IRL).**

At the November meeting, the Board requested staff work with our engineer to evaluate our current site inventory and dredging needs in this portion of the IRL, and to determine the most effective utilization of potential State funding for muck dredging in this area. The District's Engineer has provided a report for review and discussion.

(Please see back up pages 89 - 97)

Item 11. **Review of the Proposed 5-Year Dredging and Dredge Material Management Area (DMMA) Plan.**

Staff is updating the District's 5-year plan for dredging and DMMA construction. This document is intended to be a "living" planning document that will be utilized to schedule future District projects. As situations change and opportunities are repositioned, the scheduling of these projects may shift significantly. However, this information provides a basis to plan and finance future waterway improvements. This item is presented for discussion only.

(Please see back up pages 98 - 108)

Item 12. **Lease Agreement for Dredge Material Management Area (DMMA) DU-8, Duval County.**

The District has received a request from Brance Diversified, Inc. to continue to use DMMA DU-8 to manage approximately 7,000 cu/yds of dredged material from the Queen's Harbor Yacht and Country Club dredging project. The material has been tested and is suitable for placement and removal from our site. The contractor is currently leasing the site for another local project. The original lease was approved by the Board in August of 2012. If this item is approved, the standard lease will be executed requiring payment for the use of the site, insurance coverage to the District, and removal from our property of all material and equiptment placed on our site. Staff is recommending the continuation of the $300,000.00 bond from the lessee, which was the accepted surety for the previous project.

(Please see back up pages 109 - 146)

RECOMMEND: Approval of a lease to Branch Diversified, Inc. for the use of DMMA DU-8 for the placement of approximately 7,000 cyds. of material from the Queen's Harbor Yacht & Country Club.

Item 13. **Finance and Budget Committee Report.**

The District's Finance and Budget Committee met prior to the Board meeting and will provide their recommendations concerning items on their agenda.

(Please see Finance and Budget Committee Agenda Package)

RECOMMEND: Approval of the recommendations of the District's Finance and Budget Committee.

Item 14. **Washington Report.**

The District's Washington DC government relations firm has submitted a status report on their activities on the District's federal issues.

(Please see back up pages 147 - 148)

Item 15. **Additional Staff Comments and Additional Agenda Items.**

Item 16. **Additional Commissioners Comments.**

Item 17. **Adjournment.**

If a person decides to appeal any decision made by the board, agency, or commission with respect to any matter considered at such meeting or hearing, he or she will need a record of the proceedings, and that, for such purpose, he or she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

MINUTES OF THE

FLORIDA INLAND NAVIGATION DISTRICT

Finance and Budget Committee Meeting

8:30 a.m., Friday, October 18, 2013

Embassy Suites Deerfield Beach Resort

950 South Ocean Drive

Deerfield Beach, Broward County, FL, 33441

ITEM 1. Call to Order.

Committee Chair Blow called the meeting to order at 8:38 a.m.

ITEM 2. Roll Call.

Assistant Executive Director Janet Zimmerman called the roll and Chair Blow, Commissioner Bowman, Vice-Chair Chappell, Commissioner McCabe, and Commissioner Sansom were present. Ms. Zimmerman stated that a quorum was present.

ITEM 3. Financial Statements for August of 2013.

Chair Blow presented the District's financial statements for August of 2013 and asked if there were any questions.

Mr. Crosley referred to page three of the agenda and stated that the $2.5 million deposit was made to Port Everglades in lieu of securing a Bond when the District leased and used the Port's Dredged Material Management Area (DMMA) for the Dania Cut-Off Canal deepening project. He stated that the District was scheduled to get that deposit back from Port Everglades. He stated that the District has requested to use the DMMA for the Intracoastal Waterway (IWW) deepening project. He stated that staff would like to allow the Port to hold the $2.5 million deposit while negotiations for use of the Port's

site are ongoing since the additional use of the site would require a similar deposit. He stated that the District needs to get the IWW deepening project underway way as soon as possible because the Port is considering turning the DMMA into a container holding area.

Chair Blow asked if Port Everglades has provided a copy of their Financial Statements showing the deposit as a line item or if it is being held in escrow. Mr. Crosley stated that he would request those statements.

Mr. Crosley stated that the Tax Collectors deposit the District's Ad Valorem tax revenue into Suntrust Savings. He stated that the interest generated on that account is very low. He stated that staff feels that a better banking relationship and interest rate could be obtained with a different banking facility and staff will be reviewing other banks to provide this service.

Commissioner Bowman asked if the Federal Government shutdown impacted the District's projects or transactions. Mr. Crosley answered no and stated that fortunately it happened during a time period when the District did not have any fund transfers, or project starts. He stated that initially, he thought it would affect the Jupiter and Baker's Haulover dredging projects, but the Corps kept a skeleton staff to manage ongoing projects.

Commissioner Bowman made a motion to approve a recommendation to the full Board of the financial statements for August of 2013. The motion was seconded by Commissioner Sansom. Chair Blow asked for any additional discussion. Hearing none, a vote was taken and the motion passed.

ITEM 4. August 2013 Expenditure and Project Status Reports.

Mr. Crosley presented the Expenditure and Project Status Report for August 2013 and stated that the District currently has $57.3 million in contracted expenditures, $32 million has been executed and $22 million has been paid out.

Mr. Crosley stated that staff has been closing out several grant projects and those expenditures will be in the September reports. He stated that the Sawpit and Ponce Inlet projects are almost near completion. He asked for questions.

Commissioner Sansom questioned the IWW Sawpit Dredging project budget of $4.2 million with contracted expenditures of $5.7 million. Mr. Crosley stated that he would check on that project. He noted that he does not recall the bid being that high.

Commissioner Sansom also questioned the IWW Vicinity Ponce Inlet dredging project budgeted in the amount of $1.2 million with contracted expenditures of $2.3 million. Mr. Crosley stated that the new budget for this project will reflect $2.3 million as the project cost. He stated that the budget for this project was drawn from two budget years, 2013 and 2014. He stated that $1.2 million was pulled from 2013 tax revenue and the remaining funds will be pulled from the 2014 tax revenue. Commissioner Sansom requested that the expenditure sheets reflect those figures.

Chair Blow stated that the District approves Budget Amendments twice a year and project budget changes are not reported until the Budget Amendments are executed.

Commissioner Sansom stated that for projects that have contracted expenses over the budgeted amount, he would like an explanation as to why they are included in the report.

Commissioner Crowley referred to the IWW Deepening Broward County project and asked about the contracted expenses in the amount of $19,904.00. Mr. Crosley stated that Taylor Engineering has been coordinating with the Corps on the permitting for this project. Commissioner Crowley asked if there is a separate account for permitting. Mr. Crosley stated that once a project has been budgeted and given an account number all expenses, including permitting, related to that project are approved through that account number.

Chair Blow referred to the Dues and Subscriptions expenditures in the amount of $32,663.00 and asked for information about those disbursements. Mr. Crosley stated that he will provide that information.

ITEM 5. Delegation of Authority Report.

Mr. Crosley presented the Executive Director's Delegation of Authority actions and stated that three actions were taken from September 6, through October 5, 2013 and are presented for Committee review.

Mr. Crosley stated that adjacent to DMMA DU-8 in Duval County, condominiums have been built and the District's pipeline is within homeowner view. He stated that multiple homeowners have complained about the pipeline appearance. He stated that additionally, there have been pipeline problems with past projects. He stated that staff feels it is time to look at the various options for the pipeline corridor. He stated that he executed a Work Order in the amount of $5,954.00 for engineering services associated with the construction of an underground pipeline sleeve at DMMA DU-8 in Duval County. He stated that this pipeline sleeve will provide a long-term solution at this site and make the District's neighbors happy.

ITEM 6. Additional Agenda Items or Staff Comments.

Chair Blow asked if there were any additional agenda items or staff comments. There were none.

ITEM 7. Additional Commissioners Comments.

Chair Blow asked if there were any additional Commissioner comments. There were none.

ITEM 8. Adjournment.

Chair Blow stated that hearing no further business the meeting was adjourned at 9:09 a.m.

MINUTES OF THE

FLORIDA INLAND NAVIGATION DISTRICT

Board of Commissioners Meeting

9:00 a.m., Friday, October 18, 2013

Embassy Suites Deerfield Beach Resort

950 South Ocean Drive

Deerfield Beach, Broward County, FL, 33441

ITEM 1. Call to Order.

Chair Kavanagh called the meeting to order at 9:20 a.m.

ITEM 2. Pledge of Allegiance.

Treasurer Chappell led the pledge of allegiance to the flag of the United States of America.

ITEM 3. Roll Call.

Secretary Cuozzo called the roll and Chair Kavanagh, Vice-Chair Chappell, Treasurer Blow, Commissioners Bowman, Crowley, Dritenbas, Isiminger, McCabe, and Sansom were present. Secretary Cuozzo stated that a quorum was present.

ITEM 4. Public Comments.

Chair Kavanagh asked if there were any public comments on issues that are not on today's agenda. There were none.

Mr. Crosley stated that this item was moved up on the agenda and he noted that the new public participation policy will be discussed under Item 9.

ITEM 5. Additions or Deletions.

Chair Kavanagh asked if there were any additions or deletions to the meeting agenda.

Mr. Crosley stated that there are no additions or deletions to the agenda.

Commissioner Isiminger made a motion to approve the final agenda as presented. The motion was seconded by Treasurer Blow. Chair Kavanagh asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 6. Board Meeting Minutes.

Chair Kavanagh asked if there were any comments or questions regarding the Board Meeting Minutes.

Commissioner Isiminger referred to the September 14th Board Meeting Minutes, Item 8, paragraph 17, and stated that Mr. Robbins was referring to the north end of Peanut Island, not the south end.

Treasurer Blow referred to the September 14th Board Meeting Minutes, Item 15, paragraph 4, and stated that it should read, "that outside of the channel and adjacent to Marker 10, south of the Bridge of Lyons there is significant shoaling, and at low tide the area is approximately two-feet deep."

Commissioner Isiminger made a made a motion to approve the Board Meeting Minutes as amended. The motion was seconded by Vice-Chair Chappell. Chair Kavanagh asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 7. Staff Report on Broward County Area Projects.

Mr. Crosley stated that Phase I of the Dredged Material Management Plan (DMMP) for the Intracoastal Waterway (IWW) in Broward County was completed in

2003. He stated that Phase II of the DMMP was completed in 2004 and land acquisition possibilities, especially for waterway access, continue.

Mr. Crosley stated that the 50-year dredging projection for the 25 miles of channel in Broward County is 33,644 cubic yards of material and the storage projection is 72,334 cubic yards of material. He stated that this is the lowest dredging projection of any of the District's 12 counties. He stated that the majority of this dredging (81%) is associated with the Hillsboro Inlet.

Mr. Crosley stated that three upland Dredged Material Management Areas (DMMA) and one beach placement area will manage dredged materials from the waterway. He stated that the District continues to explore an exchange of easements with Broward County at Port Everglades to create a more efficient management area for both parties. He stated that a western long term storage site was suggested in the DMMP, but that has not been pursued actively because of costs. He stated that if a western site presents itself, through exchange or at a reasonable cost, the District will make the acquisition and add this site to the plan.

Mr. Crosley stated that the existing District-owned Dredged Material Management Areas are currently leased to the City of Pompano Beach and Broward County for parks and port facilities. He stated that there is no current schedule for site development.

Mr. Crosley stated that the District is pursuing the deepening of the Intracoastal Waterway from the 17th Street Causeway north to the Middle River. He stated that the project is in the permitting phase and funding is being accumulated in the budget to complete project construction. He stated that this project will create navigation and

docking opportunities for mega-yachts and an increase in marine-related business. He stated that the District recently completed the deepening of the Dania Cut-Off Canal between the Port and US Route 1 and that the IWW Deepening is scheduled to follow that project. He stated that both of these projects are cooperative efforts with the Marine Industries Association of South Florida, Broward County, Port Everglades, and the cities of Fort Lauderdale and Dania Beach.

Mr. Crosley stated that maintenance dredging of Reach I has currently been scheduled for 2015 with the beach-quality dredged material being placed on the beach south of the Hillsboro Inlet. He stated that the USACE is procuring funds for the preliminary investigation of this reach.

Mr. Crosley stated that the existing District-owned Dredged Material Management Areas are currently leased to: the City of Pompano Beach, MSA 726, known as Exchange Club Park; MSA 727, known as, Alsdorf Park - 14th Street Boat Ramp; and Broward County, MSA 783 for parks, a boat ramp and port facilities, respectfully.

Mr. Crosley stated that negotiations have been initiated with the City of Pompano Beach to improve the Exchange Club Park, MSA 726. However, the District is maintaining the right to use this property to complete the dredging of Broward Reach I and any future dredging or access needs. He stated that staff and Taylor Engineering are developing a buffer and landscaping plan for this site.

Mr. Crosley stated that Alsdorf Park, MSA 727 is currently being used as a boat ramp. He stated that the District has used this site as a staging area for waterway

projects, but could use it as a material management site if necessary. He noted that this busy boat ramp is within a large residential area.

Mr. Crosley stated that the Broward County Waterways Economic Study was completed in early 2008 and updated in 2011. He stated that Broward County has the most active marine economy in all of our 12 Counties. He stated that the recent update documented that 1,767 marine related businesses in the county employ 21,455 people, with salaries of approximately $1 billion and a total economic impact of $4.5 billion. He stated that property values were determined to be increased by $6-7.2 billion by the presence of the IWW channel.

Mr. Crosley stated that since 1986, the District has provided $22.6 million in Waterways Assistance Program funding to 115 projects in the county having a total constructed value of $58.6 million.

Mr. Crosley stated that the Interlocal Agreement Program has been active in Broward County with projects such as the Dania Canal Deepening, New River Deepening, and Intracoastal Waterway Deepening projects.

Mr. Crosley stated that the District's first Waterway Cleanup Program project was completed in Broward County over twenty years ago and now Broward County has a very large Waterway Cleanup Program. He asked for questions.

Commissioner Isiminger asked about seagrass issues related to the Broward County deepening project. Mr. Crosley stated that we do not anticipate seagrass issues with this project. He stated that as we move to Reach I, there could be resources within the channel that could become a significant issue. Commissioner Isiminger asked if the shoreline at Exchange Club Park could be used for resource mitigation. Mr. Crosley

suggested that would not be the ideal approach. He noted that the District does not want to mitigate for maintenance dredging.

Treasurer Blow referred to Exchange Club Park, MSA 726 and asked if it is zoned for government use. Vice-Chair Chappell stated that it is zoned as open space. Mr. Crosley stated that the City of Lighthouse Point has an agreement with the City of Pompano to use that site for open space to meet their comprehensive plan. He stated that this is a temporary use on a much needed District DMMA site.

Treasurer Blow asked about MSA 783. Mr. Crosley stated that MSA 783 is a DMMA easement that the District has with the Port. He noted that the Port has been trying to negotiate with the District for removal of that easement.

Mr. Adams, with Taylor Engineering, referred to Exchange Club Park, MSA 726, Reach I and stated that the use of this site could be similar to what was done during the Dania Cut-Off Canal project. He stated that the waterway would be dredged by bucket dredge, material would be offloaded by barge onto the disposal site containing a low dike. He stated that the material would then be removed and taken off site. He stated that for this reason, he would not recommend using this site for mitigation.

ITEM 8. Florida Department of Environmental Protection Small-Scale Spoil Island Restoration and Enhancement Program Project.

Ms. Zimmerman stated that the Florida Department of Environmental Protection (FDEP), Indian River Lagoon Aquatic Preserve (IRLAP) has submitted an application for a Small-Scale Spoil Island Restoration and Enhancement Program project assistance funding to purchase a new motor for one of their two vessels. She stated that this program covers three counties and includes Spoil Island enhancement work and bird

monitoring using staff along with volunteers. She stated that there is also an Adopt a Spoil Island Program allowing for island maintenance of trails and invasive vegetation.

Treasurer Blow suggested that they look into the State of Florida pricing for this boat engine.

Vice-Chair Chappell made a motion to approve assistance funding in the amount of $7,410.00 for the FDEP, IRLAP Small-Scale Spoil Island Restoration and Enhancement Project. The motion was seconded by Treasurer Blow. Chair Kavanagh asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 9. Adoption of a Resolution to Establish Policies for Public Participation at Florida Inland Navigation District Meetings.

Attorney Breton stated that the State of Florida recently enacted legislation requiring public agencies to adopt formal policies to ensure adequate public participation in all public meetings. He stated that if a Board adopts and follows those rules or procedures, then the Board will be deemed to be acting in compliance with the new statute. He stated that this compliance will provide protection to the Board if someone should bring an action saying that they were not given an opportunity for public comment on a particular Item. He is recommending that the District adopt a policy on how, when, and for how long the public can address the Board on each item. He suggested that the Public Comments for items that are not on the agenda should be placed toward the front of the agenda, but it should definitely fall before the consent agenda or any procedural matter. He stated that these new procedures can be used to keep a meeting orderly and fair. He stated that the Chair has the discretion to enforce the procedure and control the meeting, and to make sure that people do not abuse their right to address the Board.

Commissioner Sansom stated that he feels the Public Comments should be placed after the Board has established the agenda, after approval of the Minutes item.

Commissioner McCabe stated that she would like to know if the State's Public Participation Policy takes into consideration the issues of relevancy and civility. She stated that the District would not want to get into a situation where people are discussing an issue that is not actually related to the issue that they notified us that they wanted to discuss. She asked in terms of the statute, is the District allowed to govern more than the notice, procedure, and time allotted to the speaker. She also asked if we are allowed to only have one representative speaker from a group speak about a problem, rather than everyone from the group speak.

Attorney Breton stated that he believes that the District is allowed to implement those rules and he noted that the statute states that "members from the public shall be given a reasonable opportunity to be heard on a proposition before the Board."

Treasurer Blow asked if committee meetings are open to public comment. Attorney Breton stated that the public must be given an opportunity to speak before the Board approves a final action. He noted that most of the District's committees only make recommendations to the full Board, and the full Board takes the final action. So these committees do not need a Public Comment item. He stated that for a committee meeting that makes the final approval of an item, such as the Land Acquisition and Management Committee meeting, there would need to be a Public Comments item.

Mr. Crosley stated that he would like to add Public Comments to the committee meeting agendas.

Secretary Cuozzo made a motion to approve Resolution 2013-04 Adopting Policies for Public Participation for all Navigation District Public Meetings. The motion was seconded by Commissioner Bowman. Chair Kavanagh asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 10. Approval of a Bid for Hydrographic Survey Services of the Atlantic Intracoastal Waterway and the Intracoastal Waterway North.

Mr. Crosley stated that in 2011, the Board short-listed and pre-approved hydrographic survey contractors for work within the District. He commented that this action was necessitated by the uncertainty of available federal funding and allowed the District the flexibility to move forward with required hydrographic surveys for our own projects. He stated that the District now has the need to conduct centerline surveys of the entire Intracoastal Waterway (IWW) throughout our District. He stated that these surveys will provide valuable information for our ongoing dredging operations and Dredge Material Management Plan updates, as well as basic navigation channel conditions of the IWW.

Mr. Crosley stated that staff requested quotes for both a traditional hydrographic survey, as well as the utilization of a more detailed shallow multi-beam survey and Sea Diversified provided a quote to the District for $345,100.00 for the multi-beam survey.

Chair Kavanagh stated that she received a letter from a former District Commissioner about this item and she would like to read a portion of the letter. "The waterway is so dynamic and the depths come and go so regularly that a total District survey would be out of date before it was printed. Surveys, as needed, will probably cost more in the long run but, it will not be a double cost. After the total survey costing a half a million dollars, any new project will have to have an updated survey before any

decision can be made." She stated that she is not sure what the letter writer is recommending, but she is sure that it is about this item.

Commissioner Isiminger asked the District's Engineer if the cost of this survey is reasonable. He also asked how long are the contracts with these two surveyors and how long has it been since the District has asked for quotes from other surveyors.

Mr. Adams stated that he considers the proposed multi-beam survey cost reasonable. He stated that a multi-beam survey can be completed at two-miles per day and noted that this is a 400 mile survey. He stated that it costs approximately $3,000.00 per day to complete this survey. He stated that the last time a full waterway survey was completed was in 2004 by the U. S. Army Corps of Engineers. He stated that these surveys give a good look at the waterway and it allows for reviews of the District's Dredged Materal Management Plan. He stated that in areas of the waterway where the District performs waterway maintenance, basically in Inlet areas, it is true the survey does not provide a lot of value because those areas shoal very quickly. He stated that overall this survey provides value for planning purposes. He stated that he feels that the proposed cost is reasonable and that we should move forward with this work.

Mr. Crosley stated that he has watched Mr. Roach use these surveys and noted that they were his most valuable and important tool. He stated that staff uses this information to help people when they inquire about a certain section of the waterway. He stated that staff can click on that section of the waterway and tell them the dredging schedule and values for that area of the waterway. He stated that currently, staff is using 2004 survey data.

Secretary Cuozzo stated that he agrees that these multi-beam surveys need to be done. He stated that he was part of the review committee for this Request for Qualifications (RFQ). He stated that we selected three surveyors for the North section and three surveyors for the South section. He asked about the process to determine which of these surveyors are selected to give the quote.

Commissioner Dritenbas asked where is the demarcation line between the north and south sections of the waterway. Mr. Crosley stated that the demarcation line is the south end of Brevard County.

Mr. Crosley noted that the quote from Sea Diversified for the north survey includes an additional 26 miles of the Atlantic Intracoastal Waterway (AIWW.)

Attorney Breton stated that this is for survey work and is covered under a Continuing Services Contract (CSA.)

Treasurer Blow stated that he was on the Selection Committee and we ranked the top three qualified surveyors for the north and three surveyors for the south end of the waterway.

Commissioner Dritenbas noted that with an RFQ, you short-list the top three firms by qualifications. He stated that these three firms are contracted under a CSA. He stated that you cannot put these three contractors up against each other for bids. He stated that the District gets a bid from the top contractor and if the consultant says that is a fair price, you go with that contractor.

Attorney Breton stated that is correct, the District has to look at the top three contractors, decide who is best suited to perform the work and ask for a fee quote. He

stated that if the fee quote is reasonable you work with that contractor, if not, you move to the next highest ranked contractor.

Commissioner Sansom asked if this Scope of Services will distinguish between sand and muck locations and include hard muck topography in the waterway. He stated that in the near future the District will be asked to remove the muck that is in the Indian River Lagoon and for planning purposes, this information will be necessary.

Commissioner Isiminger stated that he feels that this discussion has generated a lot of good comments and he especially likes Commissioner Sansom's suggestion to include muck topography being included in this survey. He stated that he would be happy to put that in a motion.

Commissioner Sansom suggested only performing the muck topographic survey in the middle third of the District's Waterways where muck is an issue.

Commissioner Isiminger suggested allowing the District Engineer to make the final determination as to where we should have the muck survey included.

Vice-Chair Chappell agreed with Commissioner Isiminger and noted that during the Dania Cut-Off Canal project, the District was not aware of the location of the hard pan and that caused a significant added cost to the project.

Mr. Crosley stated that during the staff's meeting with these two surveyors, it took almost three hours for the discussion to get where the surveyors were agreeing on the type, performance, and coordination of this project. He suggested that adding a third surveyor into this project would just complicate the work.

Mr. Crosley stated that this survey is being performed to help the District staff to determine where we will be dredging in the next five years and to update our Dredged

Material Management Area (DMMA) Plan. He noted that before any dredging project begins, an updated survey will be completed of that area.

Treasurer Blow stated that in the northern section of the District's waterway some of the material is "fine" mud. He asked if that should be included in the survey.

Commissioner McCabe suggested asking the north and the south contractors about bifurcate their areas to determine the muck topography in the middle third of the District's waterway.

Commissioner Isiminger stated that the primary user of this information will be the District Engineer. He stated that the engineer knows best how to determine muck thickness and he suggested allowing the engineer to make that determination.

Mr. Adams stated that his concern is to completely define a layer of muck versus hard material or fine sand would probably require cores or punching every quarter mile or so. He stated that this information would not give the District everything we would need when dredging, but would provide a good planning document.

Commissioner Isiminger made a motion to delay this approval until the November meeting so that the District Engineer and staff can restructure the RFQ to include what data is needed in this survey, determine the best way to identify muck, determine if the work should be split into two or three reaches, and to review the selection process. The motion was seconded by Commissioner Sansom. Chair Kavanagh asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 11. Approval of a Bid for Hydrographic Survey Services of the Intracoastal Waterway South.

Mr. Crosley stated that this Item is similar to what was presented in Item 10 above.

Commissioner Isiminger made a motion to delay this approval until the November meeting so that the District Engineer and staff can restructure the RFQ to include what data is needed in this survey, determine the best way to identify muck, determine if the work should be split into two or three reaches, and to review the selection process. The motion was seconded by Commissioner Sansom. Chair Kavanagh asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 12. Bid Approval for Installation of Two Gate Assemblies at BV-2C.

Mr. Crosley stated that the District's Long-Range Dredge Material Management Area (DMMA) BV-2C located in Brevard County has been experiencing continued trespassing and illegal activities. He stated that staff has worked in cooperation with a neighboring land owner to fence and gate the illegal entrances at this site and worked with local law enforcement to curtail the activities. He stated that staff has received four quotes from qualified fence contractors. He stated that the low qualified bid was received from Barton Fence and Wall, LLC and he noted that staff has successfully worked with the low bidder on other projects.

Commissioner Sansom stated that this fence is very much needed in this area of Scottsmore.

Treasurer Blow a made a motion to approve the low bid of $10,319.00 from Barton Fence & Wall, LLC for two additional security gates at BV-2C. The motion was

seconded by Secretary Cuozzo. Chair Kavanagh asked for discussion. Hearing none, a vote was taken and the motion passed.

Commissioner Dritenbas asked about keys or lock codes to the District's sites. Mr. Crosley stated that the District uses heavy duty combination locks. He stated that there are several different lock codes in use and we keep that information at the District office. He stated that if a combination is provided to an outside agency for site access, we can change the code if it appears that site security has been compromised.

ITEM 13. Additional Fee Quote from Taylor Engineering for Construction Administration Services Pertaining to DMMA NA-1.

Mr. Crosley stated that the District's Engineer has been providing construction administration services at NA-1. He stated that site conditions and the intricate nature of this particular site construction have resulted in delays in the contractor's proposed completion schedule.

Mr. Adams stated that material was removed from DMMA DU-2 and is being used for the dike construction of DMMA NA-1. He stated that DMMA DU-2 is now ready for the material from the upcoming Sawpit dredging project. He stated that the beach quality material will be placed on the South Amelia Island beach.

Mr. Adams noted that there have been no conflicts between the two contractors and the project has gone smoothly.

Mr. Adams stated that the original contract was set up for 270 days and the project should have been completed as of August 22nd. He stated that our construction administration costs are based on a daily rate. He stated that as of October 1, there was $30,000.00 remaining in the budget and of that $25,000.00 will go towards project closeout procedures.

Mr. Adams stated that it is estimated that this contract will finish in the middle December. He stated that Taylor Engineering plans to reduce its construction observation efforts during this last month. He stated that following the last month of general construction, Taylor Engineering anticipates visiting the site approximately once per month for six months to observe the grassing and vegetation establishment. He stated that Taylor Engineering is requesting an additional $24,949.00 on a not-to-exceed basis to complete the project.

Commissioner Isiminger asked if the original Taylor Engineering contract was a not-to-exceed contract. Mr. Adams answered that the original Taylor Engineering contract was a cost plus not-to-exceed with a completion date of August 22, 2013. Commissioner Isiminger asked if this change increases the scope of work because we are increasing the project time. Mr. Adams answered correct.

Mr. Adams noted that this is a $3.5 million construction job and to date, the change orders total $43,000.00 on this entire project. He stated that he does anticipate a $40,000.00 gabion-mat-crossing change order. He stated that we may receive a request from the contractor for his extra time to complete the project.

Vice-Chair Chappell made a motion to approve the fee quote in the amount of $24,949.00 from Taylor Engineering for additional construction administration services associated with DMMA NA-1. The motion was seconded by Commissioner Dritenbas. Chair Kavanagh asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 14. Finance and Budget Committee Report.

Treasurer Blow stated that the Finance and Budget Committee met earlier today and the committee reviewed and recommends approval of the July 2013 financial statements, delegation of authority, and expenditure and project status report.

Treasurer Blow made a motion to approve the recommendations of the District's Finance and Budget Committee. The motion was seconded by Commissioner Sansom. Chair Kavanagh asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 15. Washington Report.

Mr. Crosley stated that Congress remains at an impasse over passing a continuing resolution to fund the government through December 15th, which if passed would give them time to finish work on the fiscal year (FY) 2014 appropriations legislation.

Mr. Crosley stated that the Corps of Engineers has begun to furlough some employees and had to stop work on several projects. He stated that this situation will only get worse as the shutdown lingers.

Mr. Crosley stated that the House Transportation and Infrastructure (T&I) Committee marked up H.R. 3080, the 2013 Water Resources Reform and Development Act (WRRDA) on September 19th. He stated that this bill authorizes new projects and programs to be carried out by the Corps. He stated that it includes a section assessing the needs of the Atlantic Intracoastal Waterway and adopts several of the concepts offered to the T&I Committee on behalf of FIND, including recreation purposes and unmet operation and maintenance of the Atlantic Intracoastal Waterway (AIWW). He asked for discussion.

Vice-Chair Chappell questioned how recreational waterway use will be accessed for federal funding. He noted that no specific information has been sent from Washington. He stated that this is just in beginning talks. He stated that the District could provide information regarding the District's recreational waterway use and economic value. Mr. Crosley stated that he will be attending an AIWW conference in November and this will be a topic of discussion. Vice-Chair Chappell suggested contacting Mr. Davenport to discuss how the District should make the next leap in defining recreational use waterways.

Treasurer Blow asked about involving other IWW states. Mr. Crosley stated that Florida is the only state that actively manages their waterway for recreational use. Vice-Chair Chappell suggested contacting local universities about waterway economic data.

Commissioner Sansom stated that the District does not have a dedicated economic funding source for the waterway maintenance. He stated that the District's role is to assist, our partner, the U. S. Army Corps of Engineers in maintenance of the waterway and we need to continue to stress that. He stated that the District is not interested in taking over the Federal Government's job to maintain the IWW.

Secretary Cuozzo noted that at one time we had a spreadsheet of the Corps and the District's responsibilities for the waterway. Commissioner Sansom stated that we should update that information.

ITEM 16. Additional Staff Comments and Additional Agenda Items.

Chair Kavanagh asked if there were any additional staff comments or agenda items.

Mr. Crosley stated that he has been working with the Corps to schedule the Waterway Tour. He stated that because of the federal shutdown, discussions were put on hold and we have not been able to coordinate a date. He stated that he is hopeful that this can be resolved next week.

ITEM 17. Additional Commissioners Comments.

Chair Kavanagh asked if there were any additional Commissioner comments.

Vice-Chair Chappell stated that he has tickets available for the Fort Lauderdale Boat Show for anyone who would like them.

Treasurer Blow referred to the Pilot Anchoring Plan that the legislature adopted approximately four years ago that was administered by the Florida Fish and Wildlife Conservation Commission (FWC). He stated that the FWC has been collecting information from program participants and they have surveyed homeowners regarding their experience with vessels utilizing the anchoring plan.

Treasurer Blow noted that in some areas the program has not been in place for the full four years and it has been suggested extending the pilot program for two additional years and to re-survey at that time. He stated that the FWC will review the survey data and make a report and recommendation to the FWC Commission at their November meeting.

Treasurer Blow noted that he will be provided that information and he will share it with the Board. He requested that commissioners review the survey results and consider if the District should make a recommendation to the legislature to continue this program.

Commissioner Isiminger asked if staff has sent a letter to the Corps regarding the IWW Setback Criteria about the concerns the Board had with that proposed criteria. Mr. Crosley answered no. He asked that staff send that letter.

Vice-Chair Chappell stated that the City of Fort Lauderdale is proposing a marginal dock around the point at the platform at Deerfield Island. He stated the because of the new setback criteria, only a 40 foot dock will be allowed. He stated that we really do have to comment and oppose this new criterion.

ITEM 18. Adjournment.

Chair Kavanagh stated that hearing no further business the meeting was adjourned at 11:19 a.m.

MINUTES OF THE

FLORIDA INLAND NAVIGATION DISTRICT

Finance and Budget Committee Meeting

8:30 a.m., Saturday, November 16, 2013

Hutchinson Island Marriott Beach Resort & Marina

555 NE Ocean Boulevard

Stuart, Martin County, Florida

ITEM 1. Call to Order.

Committee Chair Blow called the meeting to order at 8:38 a.m.

ITEM 2. Roll Call.

Assistant Executive Director Janet Zimmerman called the roll and Chair Blow, Vice-Chair Chappell, Commissioner McCabe, and Commissioner Sansom were present. Ms. Zimmerman stated that a quorum was present.

ITEM 3. Additions or Deletions.

Chair Blow asked if there were any additions or deletions to the meeting agenda.

Mr. Crosley stated that there are no additions or deletions to the agenda. He noted that under Additional Staff Comments he will discuss a draft of the new Expense Report.

Commissioner Sansom made a motion to approve the final agenda as presented. The motion was seconded by Vice-Chair Chappell. Chair Blow asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 5. Public Comments.

Chair Blow asked if there were any public comments on issues that are not on today's agenda. There were none.

ITEM 6. Financial Statements for September of 2013.

Mr. Crosley presented the District's financial statements for September of 2013 and stated that the District has a CD with the term expiring and staff has been searching for the safest banking facility with the best interest rates for the District's funds. Mr. Scambler stated that he has not heard back from all the banking facilities he has contracted, but that Bank United has responded with a rate of .7%.

Mr. Crosley stated that September is the end of the District's fiscal year and he noted that many of the District's grant projects are closing out.

Chair Kavanagh asked about the District's security services at the FIND Headquarters. Mr. Scambler stated that he has been looking into other companies to perform those services and found out that ADT has been very aggressive and they have acquired other companies such as Tyco Brinks, and Devcon security services. He stated that he is working on a proposal from My Front Point who will provide security services only from a cell phone within the office, for a $700.00 deposit, $300.00 for the control panel, and $44.00 per month, but they do not provide fire protection. He noted that other companies such as Comcast do not provide commercial security services.

Chair Blow asked if there were any public comments on this item. There were none.

Vice-Chair Chappell made a motion to approve a recommendation to the full Board of the financial statements for September of 2013. The motion was seconded by

Commissioner Sansom. Chair Blow asked for any additional discussion. Hearing none, a vote was taken and the motion passed.

ITEM 7. September 2013 Expenditure and Project Status Reports.

Mr. Crosley presented the Expenditure and Project Status Report for September 2013 and asked for questions.

Commissioner Sansom referred to page 24 and asked if the title "Total Expenses for FY" at the bottom is appropriate because some of the items in this summary are not true expenditures, they are obligations. Mr. Scambler noted that he could tier that line and add Budget Expenses and then drop down a line and add Total Expenses for the Year.

Chair Blow stated that we need to setup these statements so that the general public can read and understand them.

Mr. Crosley noted that staff has developed a new Budget Expense Report that should make these reports easier to review.

ITEM 8. FY 2012-2013 Budget Amendment Number Two.

Mr. Crosley stated that staff has prepared Budget Amendment Number Two to the FY 2012-2013 budget. He stated that this is the final budget amendment to this budget and is being made to formalize actions taken by the Board on financial items throughout the year, as well as to correct some carry forward amounts for some projects. He asked for questions.

Commissioner Sansom asked about the projects that were de-obligated and taken out of the budget. Mr. Scambler stated that these projects were completed, the funding was disbursed, and they were still carried forward in the budget. He stated that these

projects should not have been carried forward and staff will be changing that process for next year's budget.

Chair Blow asked if there were any public comments on this item. There were none.

Commissioner McCabe made a motion to approve a recommendation to the full Board of the Resolution No. 2013-05 for Budget Amendment No. 2 to the FY 2012-2013 Budget. The motion was seconded by Vice-Chair Chappell. Chair Blow asked for any additional discussion. Hearing none, a vote was taken and the motion passed.

ITEM 9. Auditor's Engagement Letter for the FY 2012-2013 Audit.

Mr. Crosley stated that the District's current audit firm, Berger, Toombs, Elam, Gaines & Frank, has submitted an Engagement Letter for the FY 2012-2013 financial audit with a proposed cost of $28,000.00 which is the same as the last several years. He stated that if the Engagement Letter is approved, this will be the fifth year that Berger et al. will have performed our audit.

Chair Blow asked if there were any public comments on this item. There were none.

Commissioner Sansom made a motion to approve a recommendation to the full Board to accept the Engagement Letter from Berger, Toombs, Elam, Gaines & Frank for the FY 2012-2013 audit. The motion was seconded by Vice-Chair Chappell. Chair Blow asked for any additional discussion. Hearing none, a vote was taken and the motion passed.

ITEM 10. Delegation of Authority Report.

Mr. Crosley presented the Executive Director's Delegation of Authority actions and stated that three actions were taken from October 7, 2013 through November 5, 2013 and are presented for Committee review.

Mr. Crosley noted that staff purchased two new computers and a printer for office equipment updates. He noted that the office has several computers with Windows XP Operating Systems that are in need of being updated.

ITEM 11. Additional Agenda Items or Staff Comments.

Chair Blow asked if there were any additional agenda items or staff comments.

Mr. Crosley presented the District's proposed new financial report format. He asked commissioners to review the report and provide feedback to staff.

Commissioner Sansom suggested footnoting the comments, which are currently placed next to column, at the bottom of the page.

ITEM 12. Additional Commissioners Comments.

Chair Blow asked if there were any additional Commissioner comments. There were none.

ITEM 13. Adjournment.

Chair Blow stated that hearing no further business the meeting was adjourned at 9:09 a.m.

MINUTES OF THE

FLORIDA INLAND NAVIGATION DISTRICT

Board of Commissioners Meeting

9:00 a.m., Saturday November 16, 2013

Hutchinson Island Marriott Beach Resort & Marina

555 NE Ocean Boulevard

Stuart, Martin County, FL, 34996

ITEM 1. Call to Order.

Chair Kavanagh called the meeting to order at 9:20 a.m.

ITEM 2. Pledge of Allegiance.

Secretary Cuozzo led the pledge of allegiance to the flag of the United States of America.

ITEM 3. Roll Call.

Secretary Cuozzo called the roll and Chair Kavanagh, Vice-Chair Chappell, Treasurer Blow, Commissioners Dritenbas, Isiminger, McCabe, Netts, Sansom and Williams were present. Secretary Cuozzo stated that a quorum was present.

ITEM 4. Consent Agenda.

Chair Kavanagh asked if there were any comments or questions regarding the Consent Agenda.

Commissioner Sansom made a motion to approve the Consent Agenda as presented. The motion was seconded by Vice-Chair Chappell. Chair Kavanagh asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 5. Additions or Deletions.

Chair Kavanagh asked if there were any additions or deletions to the meeting agenda.

Mr. Crosley stated that he would like to add to the agenda: Item 9A, Legislative Funding for Indian River Lagoon Muck Removal.

Commissioner Isiminger made a motion to approve the final agenda as amended. The motion was seconded by Commissioner Dritenbas. Chair Kavanagh asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 6. Public Comments.

Chair Kavanagh asked if there were any public comments on issues that are not on today's agenda. There were none.

ITEM 7. Board Meeting Minutes.

Mr. Crosley stated that staff was on vacation, so the October Board meeting minutes will be provided at the December meeting.

ITEM 8. Comments from the U.S. Army Corps of Engineers.

Ms. Shelley Trulock, the Intracoastal Waterway (IWW) Project Manager with the U.S. Army Corps of Engineers (Corps), stated that dredging of the Atlantic Intracoastal Waterway (AIWW) at Sawpit began July 17th and the project is approximately 14 days behind schedule, with a new completion date of November 21st. She stated that for each day the project is behind schedule, the contractor will pay FIND $1,100.00 per day in liquidated damages. She stated that the project placed 500,000 cubic yards of beach quality material on the beach within Amelia Island State Park.

Ms. Trulock stated that the dredging of 3,000 cubic yards of non-beach quality material in Reach 27 will start November 18th and that material will be placed in DMMA DU-2. Mr. Crosley noted that DMMA DU-2 is the site that was offloaded so the material could be used in the construction of DMMA NA-1.

Ms. Trulock stated that the plans and specifications for the IWW Indian River Reach 1 have been approved. She stated that the Florida Department of Environmental Protection (FDEP) conducted a site visit and they have determined that the pipeline route will have minimal seagrass impact and concluded that it should be an exempted action. She noted the dredging is also exempt since the material will be placed upland into DMMA IR-2. She stated that the Corps is initiating informal consultations with the U. S. Fish and Wildlife Service for manatees and the National Marine Fisheries Service for seagrass, as required by law. She stated that she does not expect any problems with these environmental project aspects. She stated that once these items have been completed, the Colonel will sign those documents. She stated that the USACE expects the bid opening around the beginning of June, 2014.

Mr. Crosley stated that the media has inquired about this project. He asked that any commissioner contacted by the media be referred to Mr. Crosley at the FIND office. Commissioner Dritenbas noted that he has been contacted by the media regarding this project.

Ms. Trulock stated that originally this project was to dredge IWW Indian River Reaches I and II in Indian River County. She stated that because of the political objections, we scaled the project back to Reach I. She asked if there is interest in moving

forward with dredging Reach II at this time. She noted that Reach II will be a larger project.

Commissioner Sansom asked the project dates for dredging of the IWW Indian River Reach I. Ms. Trulock stated that we plan to begin in May of 2014 and complete the project by December of 2014.

Commissioner Sansom stated that the District could be tasked by the Florida Legislature to remove muck from the Indian River Lagoon (IRL). He suggested that material from these dredging projects could be used for environmental restoration of the IRL. He suggested that we wait to make a decision about dredging IWW Indian River Reach II until we have more information regarding this additional project. Ms. Trulock suggested placing the work as an option to the contract and be up front with the contractor about what may or may not happen.

Ms. Trulock stated that the IWW Bakers Haulover and Jupiter dredging projects will be funded by Hurricane Sandy emergency supplemental funding received by the Corps. She stated that these projects were awarded to Southwind Construction Corporation on September 19, 2013. She stated that the Jupiter Reach of this project will be completed first and then the contractor will move south to the Bakers Haulover Reach of the IWW. She stated that the pre-construction conference has been scheduled for December 4th. She stated that the Jupiter project will start after December 22nd because the FDEP has asked the project be pushed out because of the turtle window. She stated that all material will be placed on the beaches and dredging should be completed by the end of March 2014.

Ms. Trulock stated that we need to re-schedule the dates for the IWW tour. She stated that the Colonel and the Deputy for Project Management will not be available until Spring of 2014. Commissioner Sansom suggested we not schedule the trip during the Florida Legislative session.

Vice-Chair Chappell stated that during the Corps' public workshops for the new dock set-back criteria, there were comments and concerns raised by the public about the new 40-foot shoreline criteria. He asked about the status of the Corps' review of those comments. Ms. Trulock stated that a meeting is scheduled on November 19th at the Corps Jacksonville office. She will report the decision at the December meeting.

Commissioner Sansom asked if the Corps will be considering the economic impact of this new criterion. Ms. Trulock stated that the Corps considered the engineering, dredging and safety perspectives. She stated that she understands the economic impact perspectives and she will present that information at the meeting.

ITEM 9. Staff Report on Martin County Area Projects.

Mr. Crosley stated that Phase I of the Dredged Material Management Plan (DMMP) for the 21 miles of Intracoastal Waterway in Martin County was completed in 1993. He stated that Phase II of the DMMP was also completed in 1993 and all major land acquisition was completed in 2001.

Mr. Crosley stated that the 50-year dredging projection for the IWW is 1.4 million cubic yards and the storage projection is 2.7 million cubic yards. He stated that Maintenance Dredging in Reach II in the Crossroads area is 85% of the dredging volume and dredging occurs every three years. He stated that this section was dredged in the summer of 2013.

Commissioner Sansom asked if there is an Inlet District for this inlet. Mr. Crosley answered no and stated that this inlet is considered a federal shallow-draft, low commercial use inlet that the federal government does not maintain. He noted that Martin County is trying to determine how to manage this inlet.

Secretary Cuozzo noted that Mr. Roach was working with Taylor Engineering last year for a new design for the waterway. Mr. Crosley stated that Taylor Engineering looked at the area and will be making a recommendation. Ms. Brownell stated that the modeling for a settling basin is almost finished.

Commissioner Dritenbas asked if we have looked at moving the channel to a natural deep water location. Mr. Crosley noted that is something that he would like to focus on in the future, where feasible. He stated that is not an option for the Crossroads area because of the location.

Commissioner Isiminger stated that the Town of Jupiter Island has hired a full time Coastal Coordinator. He suggested that staff meet with the Town of Jupiter Island and Martin County regarding the management possibilities in the Town of Jupiter Island's new Management Plan.

Secretary Cuozzo stated that he is a member of the Martin County Inlet Committee and the committee is looking at funding options for inlet dredging.

Mr. Crosley noted that the St. Lucie Inlet is a difficult inlet to manage with a lot of material moving around. He stated that the District will be very involved in the long-term management decisions of that inlet.

Ms. Trulock stated that the inlet dredging project will start November 18th. She stated that 200,000 cubic yards of material will be dredged from the settling basin and will be barged to the beach near Pecks Lake.

Mr. Crosley noted that the District is also the local sponsor for navigation of the 97 miles of the Okeechobee Waterway (OWW) in Martin and Palm Beach Counties. He stated that Phase I of the Dredged Material Management Plan for the Okeechobee Waterway from the Crossroads to the St. Lucie Lock was completed in 1998 and from the St. Lucie Lock to the western Martin County line was completed in 2007. He stated that Phase II of the DMMP from the Crossroads to the St. Lucie Lock was completed in 2001 and the Phase II Plan from the Lock to the Western County Line was completed in 2009.

Mr. Crosley stated that the 50-year dredging projection is 1.5 million cubic yards and the storage projection is three million cubic yards.

Mr. Crosley stated that the acquisition of four Dredged Material Management Areas to serve the section of the OWW from the Crossroads to the St. Lucie Lock was completed in 2006. He stated that the acquisition of two sites to serve the section of the OWW from the St. Lucie Lock to the western Martin County line is ongoing; LT-4A is complete and LT-13 has been appraised.

Mr. Crosley stated that to date, one of the seven upland Dredged Material Management Areas in the county has been fully constructed. He stated that Sites MSA 524B and MSA 504 were cleared in 2010. He stated that Site O-7 has been permitted for construction and a final design was completed. He stated that construction should initiate in 2013 and will likely be undertaken with the assistance of the U. S. Army Corps of

Engineers. He stated that a letter requesting a Contributed Funds Agreement (CFA) was sent to the Jacksonville District Colonel on October 1, 2013.

Mr. Crosley noted that the other DMMA sites are in various phases of pre-construction, environmental permitting, engineering, or design.

Mr. Crosley stated that the partial offloading of M-5 by Lucas Marine for the Ft. Pierce Waterfront Protection Project has been completed. He stated that approximately 110,000 cubic yards of material was offloaded at no expense to the District to assist with the construction of barrier islands offshore of the Fort Pierce Marina. He stated that some minimal damage to the existing gabion mats at M-5 occurred during the offloading and was repaired by the contractors. He stated that a full replacement of these mats will be forthcoming in the next few years.

Mr. Crosley stated that Reach IV of the OWW will be dredged in 2014 following construction of DMMA O-7.

Mr. Crosley stated that the Martin County Waterways Economic Study was completed in 2000 and updated in 2011. He stated that the update found that since the recession, the economic output of waterway-related businesses in the county has decreased by $443.1 million, employment decreased by 2,601 jobs, and $18.8 million in waterway related tax revenue was lost. He stated that the current economic output of waterway related businesses is $639.9 million, with 3,750 jobs, wages of $156.5 million and $28 million in tax revenues. He stated that property values were determined to be increased by $588 million by the presence of the ICW channel. He stated that the study shows that these economic benefits would be reduced by over half if maintenance dredging of the waterways in the county ceased.

Mr. Crosley stated that since 1986, the District has provided $8.2 million in Waterways Assistance Program funding to 69 projects in the County having a total constructed value of $54.6 million. He stated that the County, the County Sheriff's Office, the City of Stuart and the Town of Jupiter Island have participated in the program.

Mr. Crosley stated that the District's Cooperative Assistance Program has provided funding assistance for 26 state and regional agency projects with elements in Martin County:

Chair Kavanagh stated that she attended a St. Lucie/Martin County waterway plan meeting yesterday. She noted that the meeting was extremely interesting and she stated that Ms. DeLaney of Martin County will be contacting the District regarding this subject.

ITEM 9A. Legislative Funding for Indian River Lagoon Muck Removal.

Mr. Crosley stated that the Florida Senate Select Committee has recommended $20 million in funding for muck removal in the Indian River Lagoon (IRL). He stated that the recommendation will need additional Legislative review and approval to be included in the State's final budget. He stated that Commissioner Sansom has requested staff investigate the possibility of positioning the Navigation District as a recipient of the State funding. He stated that the biggest problem with muck removal is where the material will be placed. He stated that the project would likely expand the District's mission in this reach of the waterway, but could result in direct benefits to the District, such as construction of our Dredged Material Management Areas and muck removal in the Intracoastal Waterway.

Mr. Crosley stated that the St. Johns River Water Management District (SJRWMD) has issued a Request for Qualifications (RFQ) for an additional muck identification study.

Mr. Crosley stated that if the Board is supportive of this effort, staff will work with our engineer to develop a scope of work and fee quote for a preliminary muck removal plan for the IRL should the State funding become available to the District.

Commissioner Sansom stated that he is confident that the Legislature will fund this muck removal. He stated that it is part of a $230 million Senate initiative for all aspects of the water release problems from Lake Okeechobee, as well as the effect on the Everglades and the Indian River Lagoon. He noted that the funding will address lessening the discharge from the lake to the lagoon, and also muck removal. He stated that all indications are that the District will be directed to participate in this effort and the Legislature will provide $20 million for muck removal from the Indian River Lagoon. He noted that Senator Garner has suggested creating an Indian River Water Management District which would provide a continuing funding source to maintain and clean up the lagoon. He stated that this special district would not be the entity tasked with performing the initial muck removal dredging of the IRL. He suggested that the District prepare to move forward to be ready for this task.

Commissioner Dritenbas asked about the placement of muck in the District's DMMAs and how that would impact our current storage plan. Commissioner Sansom stated that is what the District should review and plan for at this time, and that anything mandated by the Legislature would be a fee for service. Commissioner Dritenbas asked

how these funds would be managed. Commissioner Sansom stated that the Legislature typically determines that towards the end of this process.

Commissioner Netts stated that this District does not need any un-funded mandates or expansion of authority without a revenue source being attached to it. He stated that the District should ready ourselves in the event that we are asked to take on this task, but the District should not position ourselves to ask for or encourage being given this task. He noted that once this muck is dredged, it has to be placed somewhere, the public does not want this material in their backyard, and therefore, the Legislature needs to make that decision.

Secretary Cuozzo noted that the muck removal and dredging of Manatee Pocket cost $9 million and he noted that $20 million would not be enough to complete this larger project.

Treasurer Blow suggested that the District review our existing Brevard and Indian River County DMMA facilities and those sites that have not been constructed, and to develop a strategy to move forward.

Commissioner McCabe asked how dredging muck from the District's channel would expand the District's mission because the District is currently required to maintain the channel. Commissioner Sansom stated that muck in the channel does not impede navigation and the District is required to maintain the channel for navigation. He stated that the cost sharing is due to the environmental aspect of the project.

Commissioner Isiminger referred to the 2009 muck study completed by NOVA and asked if this study could be used by the District. Ms. Brownell stated that her recommendation is not to have the surveyors include a muck study as part of their current

scope of work. Mr. Crosley stated that staff concurs with that recommendation and he referred to the RFQ for the SJRWMD's current muck study.

Commissioner Netts noted that not all of the District's counties have muck issues and he feels that the counties that do not have muck issues would not want their tax dollars paying for muck issues in another county.

Mr. Crosley suggested that the District move forward to construct DMMA sites in Brevard and Indian River Counties at this time. He stated that he would also like to task Taylor Engineering to review and analyze a scope of work for preliminary evaluations of those sites that are ready for use, including permitting and capacity, and to provide recommendations on how to implement the $20 million in funding for muck removal.

Commissioner Sansom suggested including in the scope how the District would utilize $20 million from the Legislature for muck removal.

Commissioner Netts noted that the District will be spending money for something that might happen, but if we feel confident that is will happen, this work would assure the Legislature that the District can move forward expeditiously.

Chair Kavanagh directed staff to request Taylor Engineering to provide a fee quote and scope of work to perform site capacity evaluations within the Indian River Lagoon Basin, identify which sites are ready to go and their permitting status, and provide a report on how to implement an additional $20 million, if provided by the Legislature.

Commissioner Netts asked that the report include the District's current DMMA capacities for muck and how many additional sites we would need to construct if the $20 million was appropriated.

Ms. Brownell stated that before the next meeting, Taylor Engineering can come up with a summary that could be included in the agenda. She noted that a comprehensive plan for the $20 million would require additional time.

ITEM 10. Approval of a Scope of Work and a Fee Quote for Hydrographic Survey Services for the Atlantic Intracoastal Waterway and the Intracoastal Waterway North.

Mr. Crosley stated that approximately every ten years, the District updates the survey data for the entire Intracoastal Waterway. He stated that this information is utilized by staff and the District Engineer to determine dredging priorities over the next decade, and to calculate volume requirements and construction schedules for our Long-Range, Dredged Material Management Areas. In 2011, consistent with the Consultant's Competitive Negotiation Act (CCNA), the Board formed a selection committee and short-listed and pre-approved hydrographic survey contractors for work within the District. He stated that this action was necessitated by the uncertainty of available federal funding and also allowed the District the flexibility to move forward with required hydrographic surveys for our own projects.

Mr. Crosley stated that the District was divided into two parts, with the north section including the Atlantic Intracoastal Waterway (AIWW) and the Intracoastal Waterway (IWW) south through Brevard County. He stated that the survey consultants who responded to the request for qualifications for each area were evaluated and ranked by the selection committee. He stated that at the May 2011 meeting, the Board approved the hydrographic surveyor consultant rankings in each of the two areas. He stated that consistent with this process, staff received a scope of services and fee quote from the top ranked firm in each of the two waterway areas. He stated that the Board can then

approve the scope and fees, or elect to solicit a scope and fee quote from the next ranked firm.

Mr. Crosley noted that the current agenda item was originally presented to the Board at our last meeting. He stated that the Board generated several questions and requested staff investigate the possibility of adding additional survey work to identify sediments in the Indian River Lagoon portion of the IWW. The item was tabled until the following (November) Board meeting.

Mr. Crosley stated that staff requested a scope of work and fee quotes for a traditional hydrographic survey, as well as the utilization of a more detailed multi-beam survey. He stated that in addition, the consultant was requested to provide an alternate scope and fee quote for a proposed sediment identification study within the Intracoastal Waterway channel from Haulover Canal in north Brevard County, south to the Brevard County line (approximately 60 nautical miles).

Mr. Crosley stated that Sea Diversified provided fee quotes to the District for both types of hydrographic survey work, as well as an optional sediment thickness study. Due to the additional detail and level of information provided for minimal additional costs, staff is recommending that the Board approve the multi-beam survey and the sediment thickness study. He stated that the proposals have been reviewed by the District Engineer and all fees appear reasonable and are within the cost estimate for this work.

Vice-Chair Chappell asked why the surveyors are located is a region different from where the scope of work will be performed. Mr. Crosley stated that both of the surveyors applied to complete the work in both regions. He stated that the selection was

made based on their qualifications. He noted that both of these firms have offices in both regions.

Vice-Chair Chappell asked if the surveyor has the staff to perform the full scope of work in a region where their corporate office is not located.

Mr. Bill Sadler, with Sea Diversified stated that his company does have offices in both locations that support this survey effort. He noted that the actual survey work will be mobilized from our Delray office and he noted that the cost does not change because of where the workers are mobilized.

Mr. John Morgan, for Morgan and Ecklund stated that his company has an office in Wabasso and Deerfield Beach. He noted that his company can cover the entire region from either office.

Commissioner Dritenbas referred to the 2009 muck study completed by NOVA and asked if this study could be used by the District or are we going to perform our own muck deposit study. Mr. Crosley stated that staff does not recommend the additional muck study work. Commissioner Dritenbas asked if the Nova study covered Brevard County south. Treasurer Blow stated that the study went from Brevard County north.

Commissioner Sansom noted that Dr. Trefrey from the Florida Institute of Technology will be completing a muck study of the Indian River Lagoon. He stated that he does feel that the District does not need to perform a muck study at this time.

Commissioner Isiminger stated that he supports the multi-beam survey work. He asked if this is work that should be funded by the Corps. Ms. Trulock stated that the Corps has performed this work when funding was available. She stated that she will

check to see if there is any funding that could be provided to supplement the cost of this study. She stated that this is important data that can be used for many situations.

Vice-Chair Chappell made a motion to approve Option (1) scope of work and fee quote from Sea Diversified, Inc. in the amount of $345,100.00 for a multi-beam survey of the Atlantic Intracoastal Waterway and the Intracoastal Waterway North. The motion was seconded by Commissioner Netts. Chair Kavanagh asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 11. Approval of a Scope of Work and a Fee Quote for Hydrographic Survey Services for the Intracoastal Waterway South.

Mr. Crosley stated that as noted in detail in Agenda Item #10 above, the District is also in need of survey work for the Intracoastal Waterway South, from the Brevard County/Indian River County line south through Miami-Dade County. He stated that this information is utilized by staff and the District Engineer to determine dredging priorities over the next decade, and to calculate volume requirements and construction schedules for our Long-Range, Dredged Material Management Areas.

Mr. Crosley stated that as previously requested by the Board at the October meeting, the surveyor has also provided an optional scope of work and fee quote for a sediment thickness study from the Brevard County line south through Hobe Sound in Martin County, roughly the same distance (60 nautical miles) as the north reach sediment study.

Mr. Crosley stated that Morgan & Ecklund provided fee quotes to the District for both types of hydrographic survey work, as well as an optional sediment thickness study. Due to the additional detail and level of information provided, staff is recommending that the Board approve the multi-beam survey, but not the sediment thickness study. He

stated that the proposals have been reviewed by the Distirct Engineer and all fees appear reasonable and are within the cost estimate for this work.

Vice-Chair Chappell made a motion to approve Option (1) scope of work and fee quote from Morgan & Ecklund, Inc. in the amount of $289,640.00 for a multi-beam survey of the Intracoastal Waterway South. The motion was seconded by Commissioner Sansom. Chair Kavanagh asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 12. Review of the Florida Fish & Wildlife Conservation Commission (FWC) Pilot Anchoring Ordinance Program and Survey Results.

Mr. Crosley stated that in 2009, the Florida Legislature established Florida Statute 327.4105 to direct the FWC to coordinate with the Florida Department of Environmental Protection (FDEP) to establish a pilot program for the anchoring and mooring of non-live aboard vessels. He stated that St. Augustine and the City of Stuart participated in the pilot program.

Treasurer Blow noted that St. Augustine was one of the first participants to have their mooring ordinance approved and to move forward with the pilot program. He referred to a survey that was performed by the Florida Fish and Wildlife Conservation Commission (FWC) and stated that the remarks were mostly positive. He stated that the concerns that the boating community had regarding anchoring regulations were addressed by this model.

Treasurer Blow stated that the program has reached an evaluation point in its existence, whereby it could be sunset, utilized to establish a model ordinance for all Florida communities, or it could continue for an additional two to four years to gather more information and data for further evaluation. He stated that the FWC staff is

recommending completing another public survey in 2015 and extending the pilot anchoring program to January 2017.

Treasurer Blow stated that he would like staff to send a letter from our Chair to the FWC Executive Director Nick Wiley to support continuation of this program until January 1, 2017. He noted that the letter needs to be sent on Monday, November 18, 2013.

Mr. Crosley stated that he attended a FWC Boating Advisory Committee meeting in St. Petersburg on November 13th. He referred to a summary of the Overall Effectiveness of Each Ordinance in the backup material. He stated that this report summarizes six mooring field locations. He noted that St. Augustine has the highest number of positive responses and they were also the area that has had the mooring field in place the longest. He stated that this report suggests that the longer the ordinance is in place and the more people become familiar with it, the more they are actually in favor of it. He stated that this would support continuing this study for another year or more and then re-evaluating the ordinance.

Commissioner Sansom noted that each area has different components to their ordinance. He stated that will help determine which parts of the ordinance that people like the best and which part of the regulations should be put in place.

Commissioner Sansom made a motion to approve a letter from the Chair to the FWC Executive Director supporting the continuation of the Pilot Anchoring Ordinance Program. The motion was seconded by Commissioner Williams. Chair Kavanagh asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 13. Finance and Budget Committee Report.

Treasurer Blow stated that the Finance and Budget Committee met earlier today and the committee reviewed and recommends approval of the September 2013 financial statements, the delegation of authority, and the expenditure and project status report.

Treasurer Blow made a motion to approve the recommendations of the District's Finance and Budget Committee of the September 2013 financial statements. The motion was seconded by Commissioner Netts. Chair Kavanagh asked for discussion. Hearing none, a vote was taken and the motion passed.

Treasurer Blow stated that the committee also reviewed and recommends approval of Resolution No. 2013-05 for Budget Amendment No. 2 to the FY 2012-2013 Budget.

Treasurer Blow made a motion to approve the recommendations of the Finance and Budget Committee, Resolution No. 2013-05 for Budget Amendment No. 2 to the FY 2012-2013 Budget. The motion was seconded by Commissioner Sansom. Chair Kavanagh asked for discussion. Hearing none, a vote was taken and the motion passed.

Treasurer Blow stated that the committee reviewed and recommends approval of accepting the engagement letter from the District's current auditor for the District's FY 2012-2013 financial audit.

Treasurer Blow made a motion to accept the engagement letter from the District's current auditor for the District's FY 2012-2013 financial audit. The motion was seconded by Commissioner McCabe. Chair Kavanagh asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 14. Washington Report.

Mr. Crosley stated that on October 23, 2013, the House of Representatives passed the 2013 Water Resources Reform and Development Act. (WRRDA). He stated that this bill authorizes new projects and programs to be carried out by the U. S. Army Corps of Engineers. He stated that this bill includes a section assessing the needs of the AIWW and adopts several of the concepts offered to the House Transportation and Infrastructure Committee on behalf of FIND and supported by the Atlantic Intracoastal Waterway Association. He stated that the next step is for the House and Senate to appoint conferees to work out and produce a WRRDA conference report.

Treasurer Blow asked if staff has considered dates for the Washington D. C. trip. Mr. Crosley stated that Mr. Davenport will be attending the District's December meeting and we will discuss that item. Mr. Crosley asked commissioners to e-mail him potential dates for the trip.

ITEM 15. Additional Staff Comments and Additional Agenda Items.

Chair Kavanagh asked if there were any additional staff comments or agenda items. There were none.

ITEM 16. Additional Commissioners Comments.

Chair Kavanagh asked if there were any additional Commissioner comments.

Vice-Chair Chappell stated that he and staff have been working on the Fort Lauderdale dredging project and the IWW deepening dredging project. He noted that because of the turbidity violation during the Dania Cut-Off Canal project, Broward County has provided notice that they are going to perform an extensive review on all of

the District's projects including the City of Fort Lauderdale's project that will piggy back onto the District's IWW deepening project.

Mr. Crosley stated that the District is subject to federal and state permitting in every county, but Broward County has an additional layer of local permitting which is making it increasingly difficult for the District to work with Broward County.

Vice-Chair Chappell suggested that future District maintenance dredging projects performed in Broward County should be completed as Corps sponsored projects. He stated that the District should obtain a Department of Environmental Protection exemption for maintenance dredging and request the county pass a resolution exempting the District from county authority and regulations while performing channel maintenance.

Commissioner Isiminger requested that the agenda material be sent electronically.

Secretary Cuozzo stated that he has previously requested a tablet and noted that printing and mailing the agenda is a waste of money.

Commissioner Netts stated that the City of Palm Coast supplies each commissioner with a tablet and noted that it is up to each commissioner to use or not to use that tablet. He stated that the Regional Planning Council has gone electronically, but they have not provided tablets. He stated that he will send information about what Palm Coast has done including programs and applications.

Secretary Cuozzo stated that he would not want to place public information on his personal computer or tablet. He commented that, in the event his tablet was ever included in a subpoena, he would not want client information on that tablet becoming part of that information.

Commissioner Dritenbas asked how a non-profit organization could obtain money for oyster restoration projects. Commissioner Sansom suggested contacting their local Representative about the State of Florida Oyster Mapping Program and request that your organization would like to be involved in the program and become eligible to apply for program funding.

Commissioner Netts asked how often the District has dredged the Matanzas River. Mr. Crosley stated that is scheduled to be dredged every three to five years. Commissioner Netts asked when was the last time the area was dredged. Mr. Crosley answered two years ago. Commissioner Netts stated that right now the waterway is still wide open and not shoaled. He stated that he is wondering if the closing out of the Summerhaven River has an effect on the silting of Matanzas.

Treasurer Blow stated that Taylor Engineering did study that area and reviewed installing sand traps. He noted that Taylor Engineering is working with the St. Augustine Port and Beach District to permit the restoration of the Summerhaven River. He noted that the restoration of this river has huge public support.

Commissioner Netts stated that he is not suggesting that we keep the river blocked, he is asking if it had an effect and prevented shoaling and if it did, could the District investigate what other options we would have to produce the same results.

ITEM 17. Adjournment.

Chair Kavanagh stated that hearing no further business the meeting was adjourned at 11:57 a.m.

US Army Corps of Engineers ®
Jacksonville District

IWW STATUS UPDATE
FIND Board of Commissioners Meeting
December 13, 2013

WORK ACTIVITIES IN FY 14:

1. IWW: Sawpit (Nassau County)

2. IWW: Indian River Reach 1(Indian River County)

3. IWW: Bakers Haulover / Jupiter (O&M Supplemental project)

US Army Corps of Engineers ®
Jacksonville District

IWW STATUS UPDATE
FIND Board of Commissioners Meeting
December 13, 2013

AIWW = Atlantic Intracoastal Waterway Norfolk to St. Johns
IWW = Intracoastal Waterway Jacksonville to Miami (12' and 10' projects)
DMMA = Dredge Material Management Area

1. WORK ACTIVITY: AIWW Sawpit Reach 3(Nassau County)

CONTRACT AMOUNT: $4,288,670.00

DESCRIPTION OF WORK: The AIWW Sawpit Reach 3 project consists of maintenance dredging of approximately 591,000 cubic yards (cy) of material from the AIWW channel and settling basins in Cuts 24-26A, 27, 27A, 27C; and adjoining advance maintenance areas in the waters of Sawpit Creek, the Amelia River, and Nassau Sound. The majority of the excavated material, 578,000 cy, will be placed in the Amelia Island State Park beach disposal site. The pumping distance between dredging areas and beach placement ranges from 4.0 miles to 1.5 miles. The material from Cut-27, totaling 13,000 cy is not beach compatible and will be placed upland in DMMA DU-2. DMMA DU-2 lies adjacent to Cut-26A and Cut-27.

SCHEDULE:

Submit WQC permit application to DEP:	29 June 2011A
Pre Application Meeting	2 Aug 2011A
Date we expect DEP permit:	20 July 2012A
Contract Advertisement Initiated:	8 March 2013A
Bid Opening:	8 April 2013A
Contract Award:	10 May 2013A
NTP Issued:	7 June 2013A
Preconstruction Conference:	19 June 2013A
Mobilization Complete:	14 July 2013A
Begin Dredging:	15 July 2013A
Dredging Complete:	22 Nov 2013A

FIND WORK ORDER: Work order for dredging of AIWW Sawpit Reach 3 was approved by the FIND Board in December 2012.

NAME OF CONTRACTOR: Contract was awarded to Cottrell Contracting Corporation on 10 May 2013 in the amount of $4,288,670.00.

STATUS: This effort is being funded 100% with FIND funding. Dredging was completed on 22 Nov 2013, including dredging of the 13,000 cy of material that was placed upland into DMMA DU2. The remaining portion of work includes tilling and dewatering of DU2. Tilling will be performed the first week of Dec 2013.

US Army Corps of Engineers ®
Jacksonville District

IWW STATUS UPDATE
FIND Board of Commissioners Meeting
December 13, 2013

2. WORK ACTIVITY: IWW Indian River Reach 1 (Indian River County)

CONTRACT AMOUNT: TBD

DESCRIPTION OF WORK: Development of plans and specifications for the IWW Indian River Reach 1. Material from this reach is non beach quality and will be placed upland in the newly constructed DMMA IR-2. Preliminary estimates for shoaling quantities include 100,000 cy of material within Reach 1.

SCHEDULE (Tentative):

Submit Exemption Letters to FDEP:	26 Nov 2013A
Complete Plans &Specification (including all reviews and certifications):	28 April 2014
Contract Advertisement Initiated:	6 May 2014
Bid Opening:	4 June 2014
Contract Award:	2 July 2014
NTP Issued:	31 July 2014
Mobilization Complete:	28 Aug 2014
Begin Dredging:	29 Aug 2014
Dredging Complete:	25 Nov 2014

FIND WORK ORDER: Work order for developing plans and specifications for Indian River Reach 1 was approved at the May 2013 FIND Board Meeting. Wire transfer of funds was completed 25 June 2013. A separate work order will be developed and presented to the FIND Board prior to initiating dredging.

NAME OF CONTRACTOR: TBD

STATUS: The exemption letter to FDEP regarding the presence of seagrass within the pipeline route was sent out on 26 Nov 2013 (a few days behind schedule). FDEP staff has agreed verbally that there is minimal impact and that it should be an exempted action. In addition, the dredging is also exempt since the material will be placed upland into DMMA IR-2. The next order of business will be development of detailed plans and specifications for the dredging. The current schedule shows dredging starting in August 2014. Discussions are still underway as to the level of environmental coordination that would be needed to include reach 2 within the upcoming dredge event. Preliminary investigations show that at a minimum we would have to re notice the draft EA.

US Army Corps of Engineers ®
Jacksonville District

IWW STATUS UPDATE
FIND Board of Commissioners Meeting
December 13, 2013

3. WORK ACTIVITY: IWW Bakers Haulover / Jupiter – O&M Supplemental Project

DESCRIPTION OF WORK: Based on shoaling incurred within these two reaches with the passage of Hurricane Sandy in the Fall of 2012, Emergency Supplemental funding was received by the Corps to proceed with O&M dredging for these two reaches. Approximately 50,000 cy of material will be removed from within the Bakers Haulover reach of the IWW and 125,000 cy of material will be removed from within the Jupiter reach of the IWW. All material is beach quality. There is approximately 3,000 cy of material that is advanced maintenance within cut 4.

SCHEDULE:

Contract Advertisement Initiated:	15 Aug 2013A
Bid Opening:	5 Sept 2013A
Contract Award:	19 Sept 2013A
NTP Issued:	4 Dec 2013
Preconstruction Conference:	4 Dec 2013
Mobilization Complete:	21 Dec 2013
Begin Dredging:	22 Dec 2013
Dredging Complete:	17 Apr 2014

FIND WORK ORDER: N/A: 100% of the plans and specifications and dredging contract is being funded with Hurricane Sandy Supplemental funding.

NAME OF CONTRACTOR: Contract was awarded to Southwind Construction Corporation on 19 Sept 2013 in the amount of $2,601,206.58.

STATUS: Contract was awarded on 19 Sept 2013. FWS provided a letter to the Corps for the Hurricane Sandy emergency projects that changed the dates that work could begin on beaches on the east coast of Florida. The Jupiter reach of this project was impacted in that work on the beach cannot begin until 22 Dec 2013, pushed back from 1 Nov 2013. The order of work is the Jupiter reach first then the contractor will move south to the Bakers Haulover reach of the IWW. The preconstruction conference will be held 4 Dec 2013. It is anticipated that the NTP will occur on the same day, with the contractor beginning mobilization immediately following, and that dredging being completed by the end of March 2014.

VOLUSIA COUNTY
PROJECT STATUS UPDATE

December 2013

Atlantic Intracoastal Waterway Dredged Material Management Plan

Phase I of the Dredged Material Management Plan for the Intracoastal Waterway in Volusia County was completed in 1993. Phase II of the DMMP was completed in 1994 and all major land acquisition was completed in 1997. (Please see the attached maps).

The 50-year dredging projection is 4.2 million cu/yds. The storage projection is 9 million cu/yds.

To date, three of the seven Dredged Material Management Areas (DMMA) in the county have been fully constructed with MSA 434/434C being completed in November of 2006. This effort also included the offloading of 780,000 cu/yds of beach quality material from MSA 434/434C which was placed on the beaches of New Smyrna to repair the beaches from storm impacts.

All DMMA's with the exception of V-6 have been fenced. The future development area of DMMA V-22A has been cleared and grubbed. The presence of a bald eagle's nest on DMMA V-21 has precluded any development of that site beyond the security fence.

Waterway Dredging

In fall of 2012, the USACE hopper dredge "Currituck" conducted operations in the IWW in the vicinity of Ponce Inlet for a period of approximately four 4 days in between assignments on the U.S. east coast. Approximately 3,000 cu/yds. of material was dredged for the temporary relief of shoaling in this vicinity. A full-scale dredging event was initiated in late summer of 2013 and completed in November 2013. Approximately 245,000 cu/yds were removed from Cuts V-22 through V-28 and placed in nearby MSA 434/434C under the District's upland permit exemption. (Please see attached location & project maps)

Waterways Economic Study

The Volusia County Waterways Economic Study Update was completed in 2011 and it found that there were approximately 284 waterway related businesses in the county employing 1,466 people, with salaries of approximately $53.4 million and an economic output of $235.4 million. This economic impact generated $11.2 million in tax revenue. Property values were determined to be increased by $339 to $429 million by the presence of the IWW channel. The study reports that these values would decrease by approximately 20% overall if dredging of the waterways ceased. (Please see attached map).

VOLUSIA COUNTY
PROJECT STATUS UPDATE

December 2013

Waterways Assistance Program
Since 1986, the District has provided $9.32 million in Waterways Assistance Program funding to complete 91 projects in the county having a total constructed value of approximately $24.4 million. The county and nine waterfront municipalities have participated in the program. (Please see attached listing and location map.)

Cooperative Assistance Program
The District's Cooperative Assistance Program has provided funding assistance for the following projects with elements in Volusia County: Florida Clean Marina Program; Florida Clean Vessel Act Program; Deleon Springs State Park Dock Design; Florida Marine Patrol Officer Funding; and the St. Johns River Boating Safety Search and Rescue Program. The District's funding assistance for the Volusia County portion of these projects was approximately $465,000.^00

Public Information Program
The District currently prints and distributes the following brochures with specific information about Volusia County Waterways: Volusia County Manatee and Boating Safety Speed Zones; the Economic Impact of Volusia County Waterways; ICW Channel Conditions; and the ICW Moveable Bridge Guide.

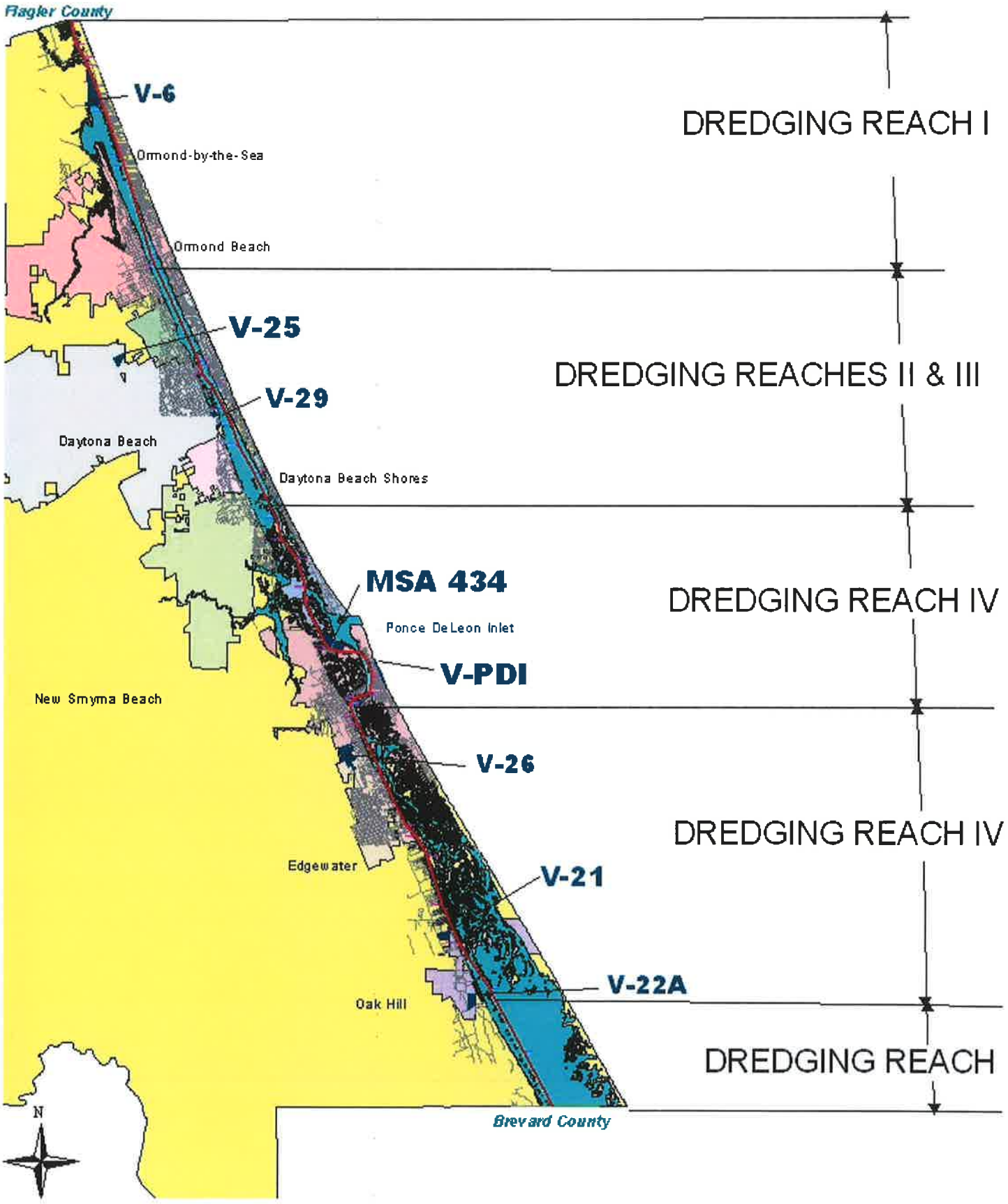
Waterway Clean Up Program
The District has partnered with Volusia County for the past several years to provide funding assistance for the removal of trash and debris from Volusia County's waterways. The District provides up to $10,000.^00 per year for this program.

Small-Scale Derelict Vessel Removal Program
To date, no vessels have been removed in Volusia County through this program.

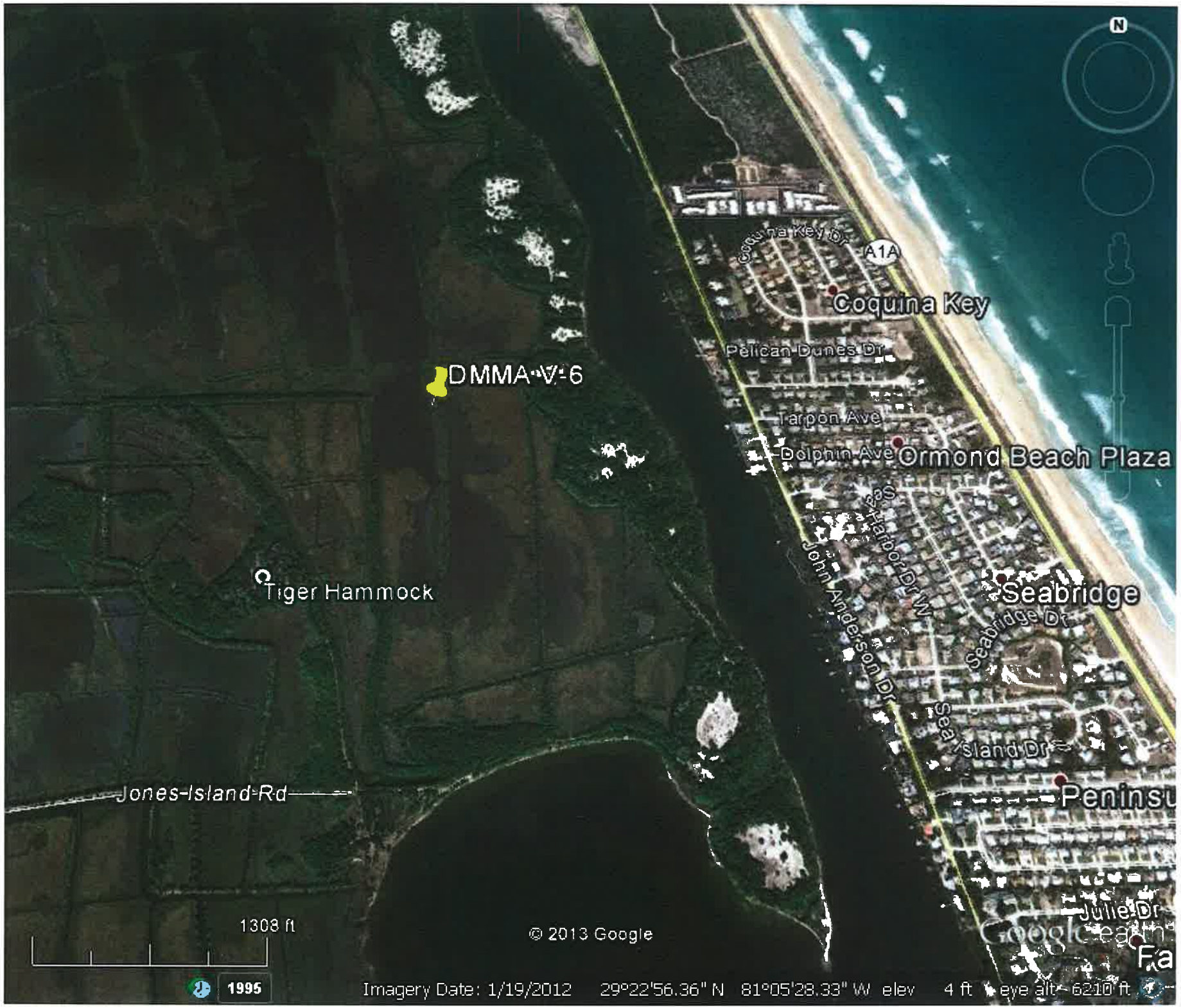
Small-Scale Spoil Island Enhancement and Restoration Program
The District has assisted Volusia County in the development of a Spoil Island Management Plan.

FIND

INTRACOASTAL WATERWAY
DREDGING REACHES AND
DREDGED MATERIAL MANAGEMENT AREAS
IN VOLUSIA COUNTY



DMMA V-6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Pelican Dunes Dr
DMMA V-6
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Seabridge
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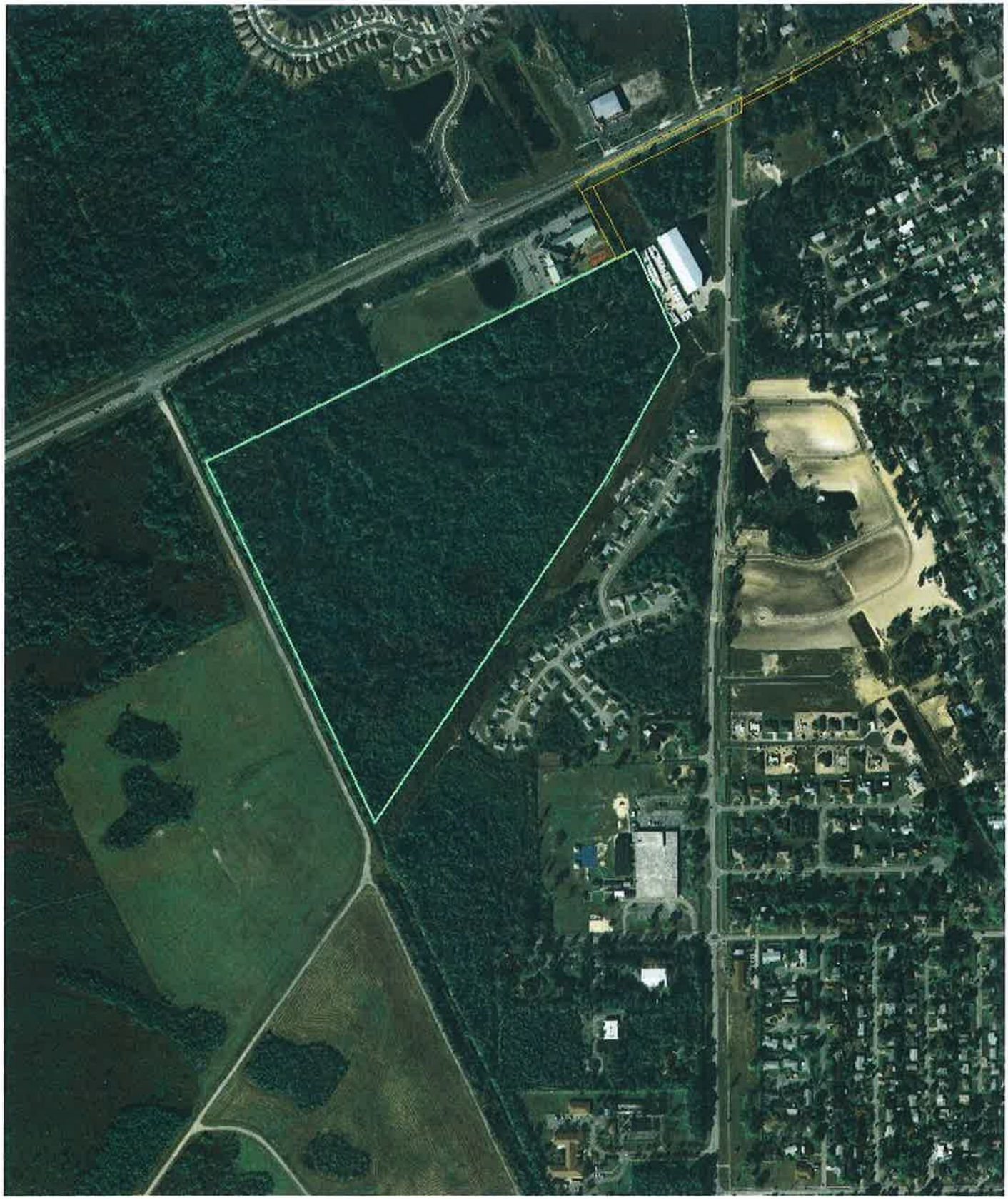

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Channel
IDOT Right-of-Way

DMMA V-25

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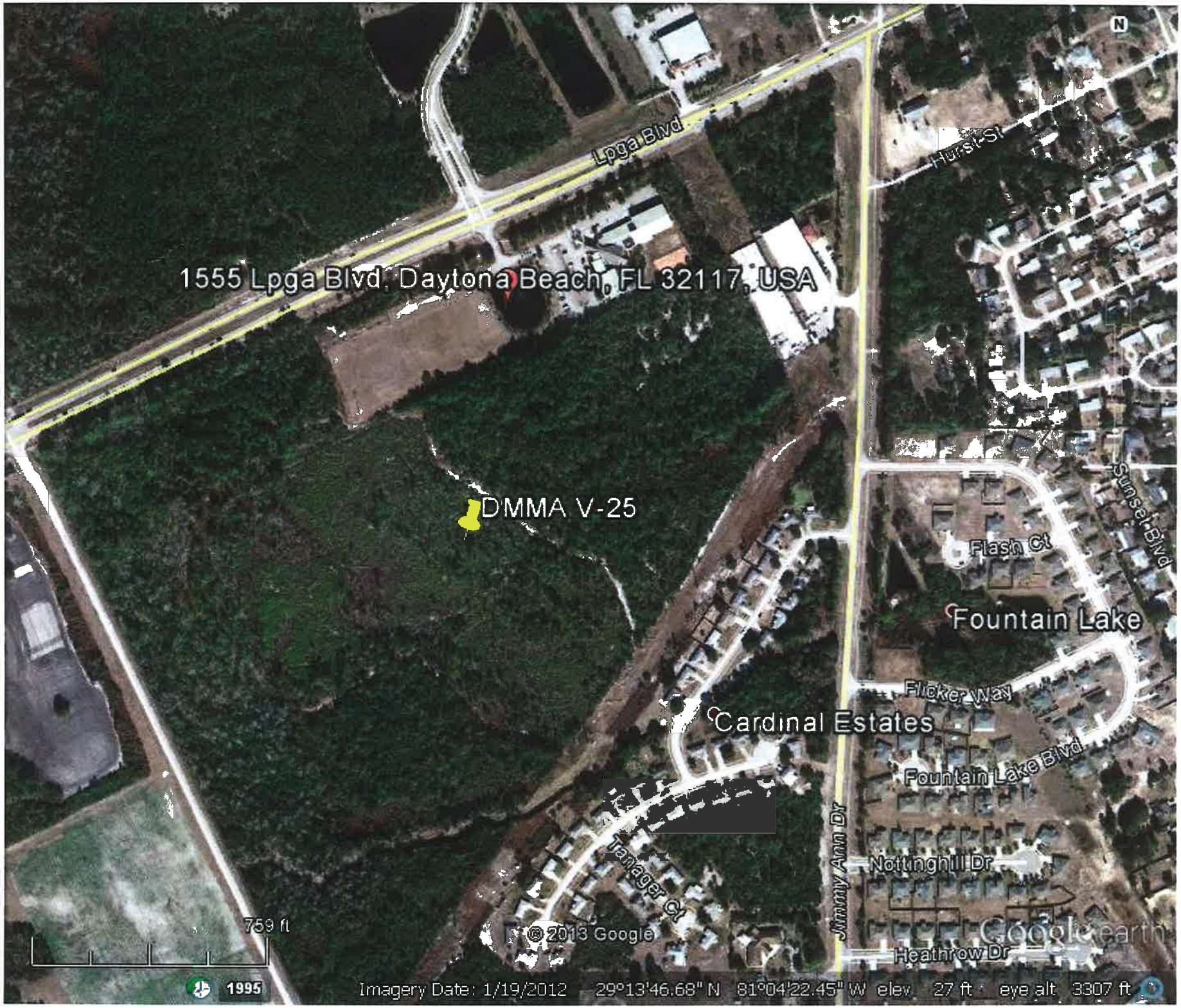
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DMMA V-25
Lpga Blvd
Hurst St
Sunset Blvd
Flash Ct
Fountain Lake
Flicker Way
Cardinal Estates
Fountain Lake Blvd
Tanager Ct
Jimmy Ann Dr
Nottinghill Dr
Heathrow Dr
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FIND Easement
FIND Owned
Channel
ICW Right-of-Way

DMMA V-29

N

N
DMMA V-29
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FIND Easement
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Channel
ICW Right-of-Way

MSA V-434 NORTH

N

MSA 434/434C

MSA 434 North
MSA 434 "Rattlesnake Island"
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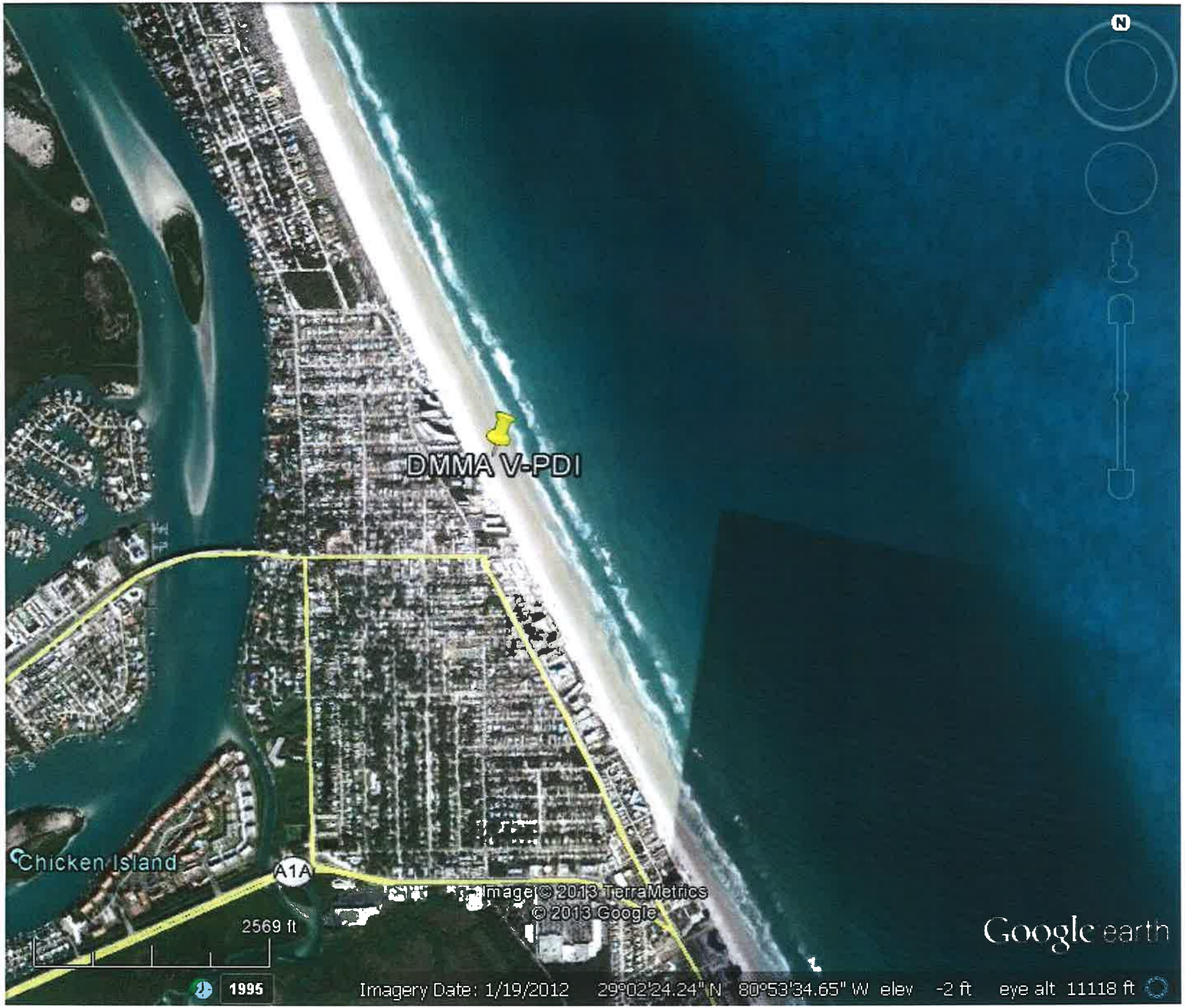
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DMMA V-PDI
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DMMA V-26

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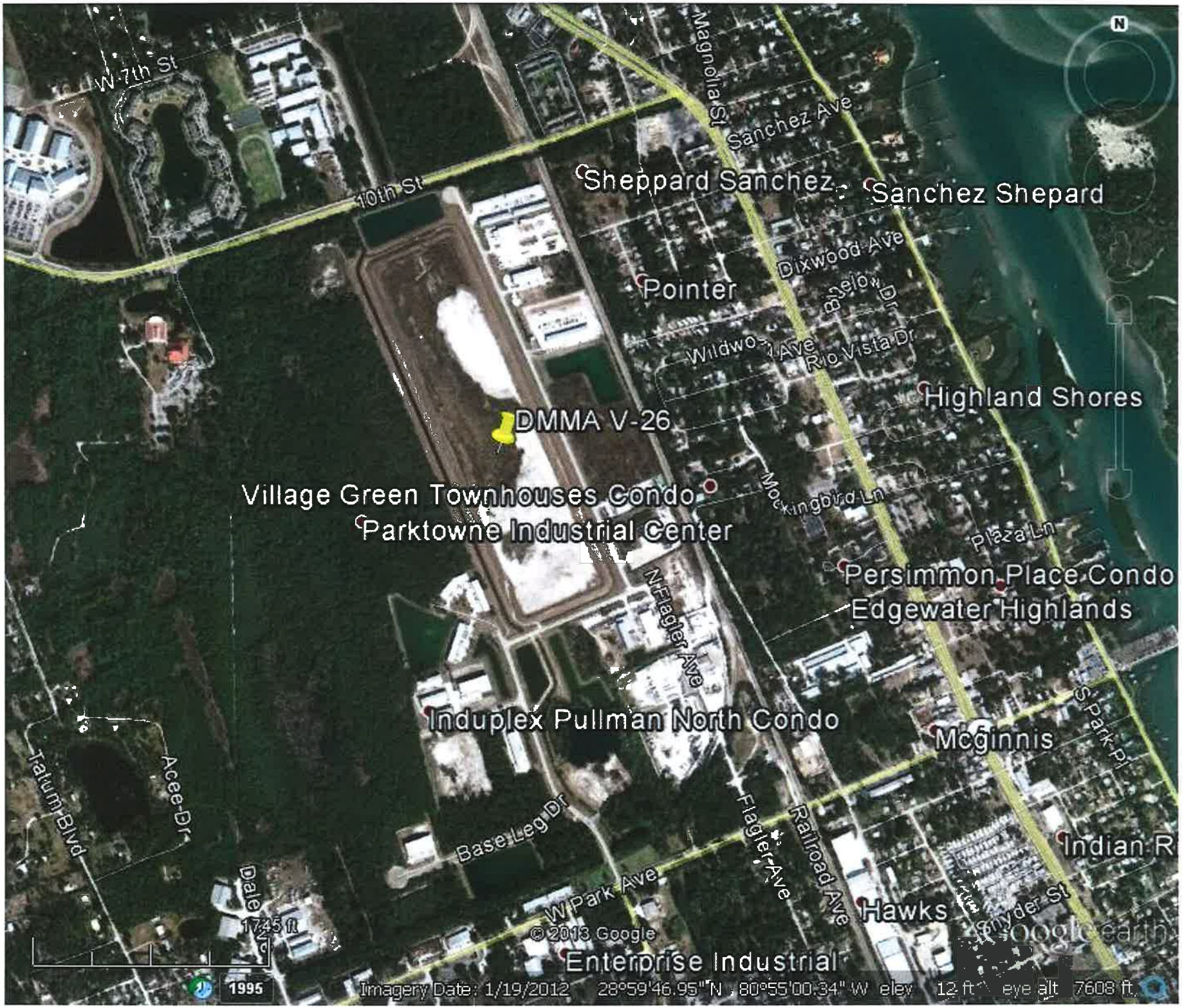
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10th St
Sheppard Sanchez
Sanchez Shepard
Dixwood Ave
Pointer
Wildwood Ave
Rio Vista Dr
Highland Shores
DMMA V-26
Village Green Townhouses Condo
Parktowne Industrial Center
Mockingbird Ln
Plaza Ln
Persimmon Place Condo
Edgewater Highlands
N Flagler Ave
Induplex Pullman North Condo
Mcginnis
S Park Pl
Tatum Blvd
Acee Dr
Base Leg Dr
Flagler Ave
Railroad Ave
Indian R
Dale Ave
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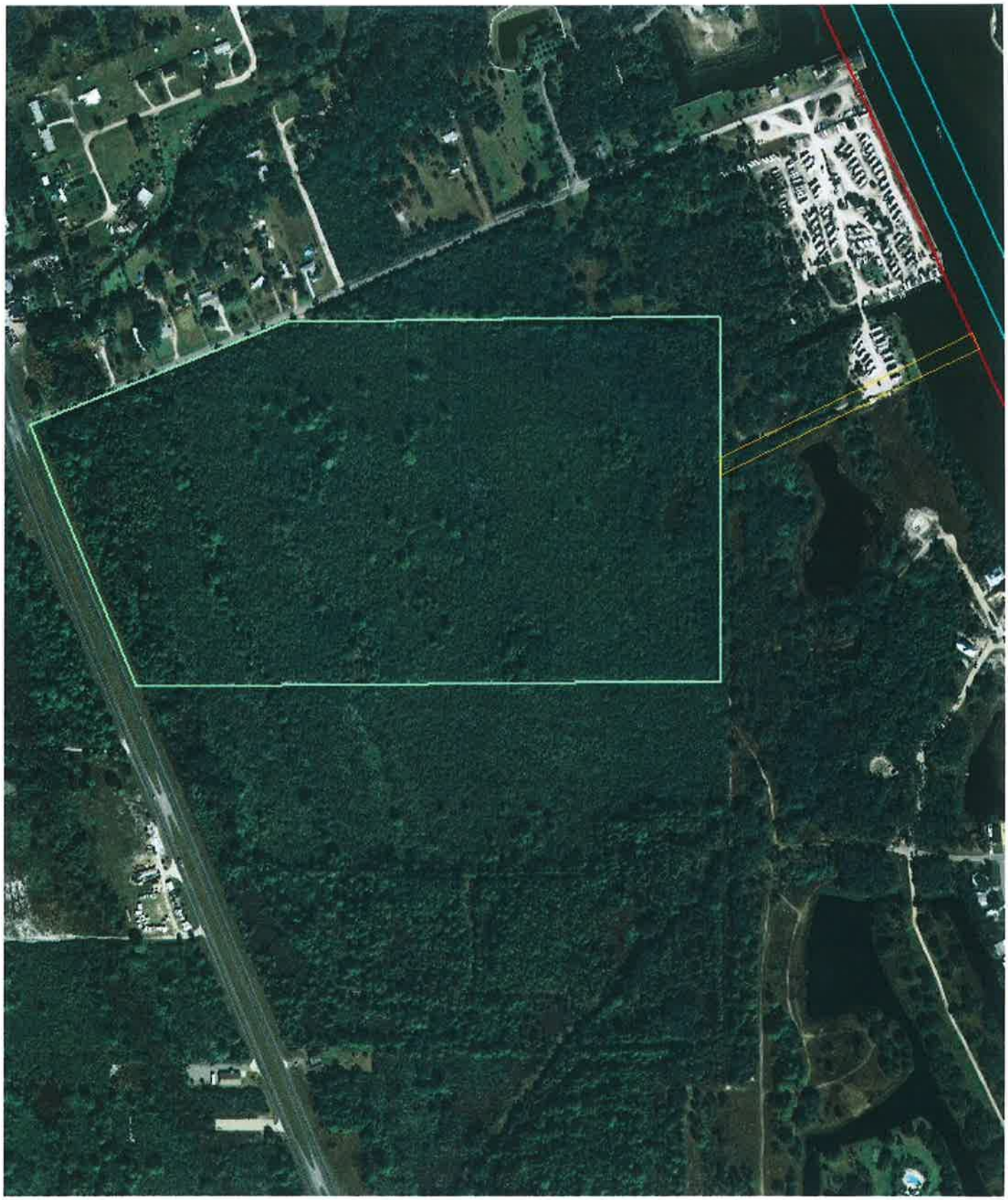
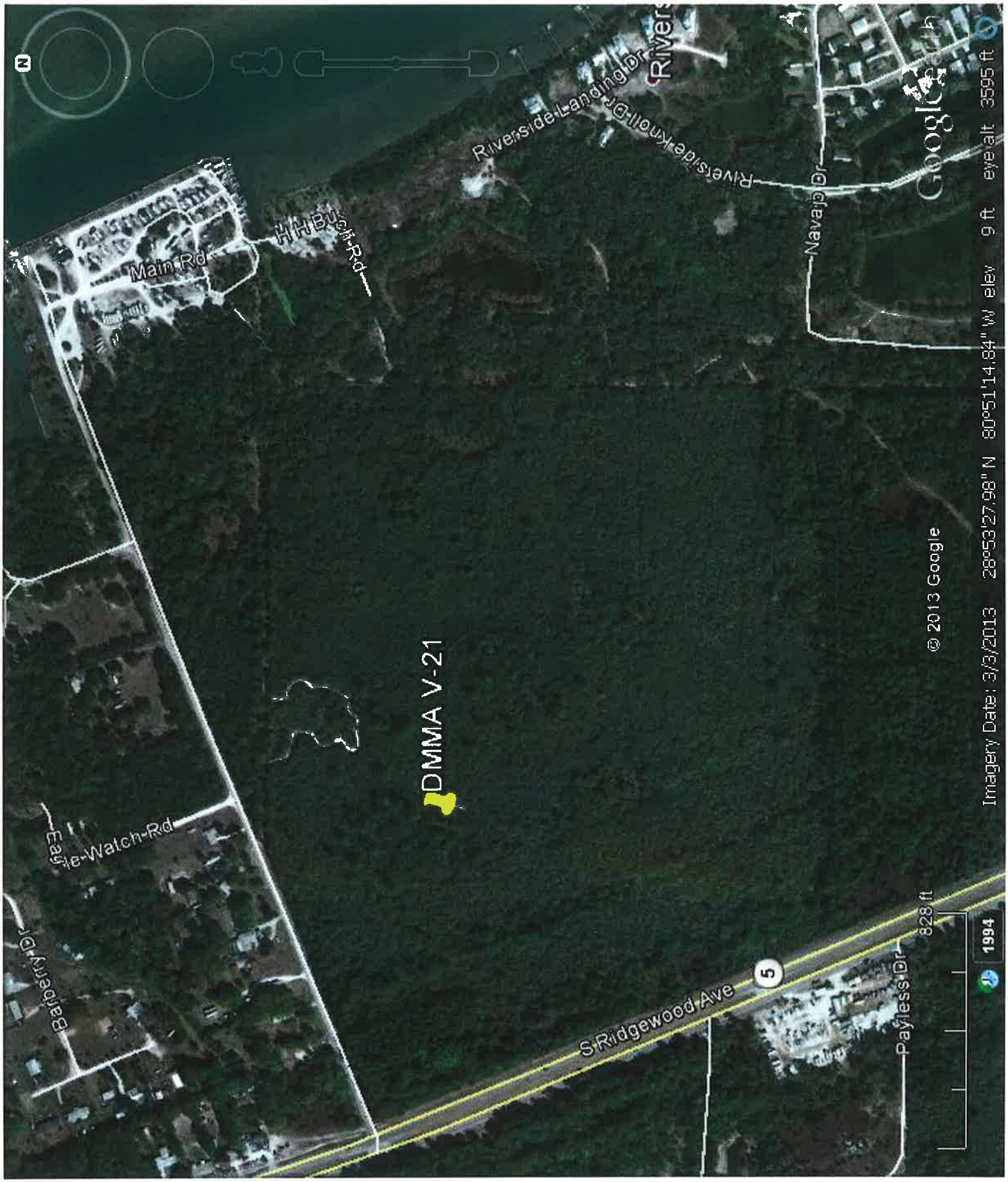


FIND Easement
FIND Owned
Channel
ICW Right-of-Way

DMMA V-21

N


DMMA V-21
Riverside Landing Dr
Riverside Knoll Dr
Navajo Dr
Main Rd
Eagle Watch Rd
Barberry Dr
S Ridgewood Ave
Payless Dr
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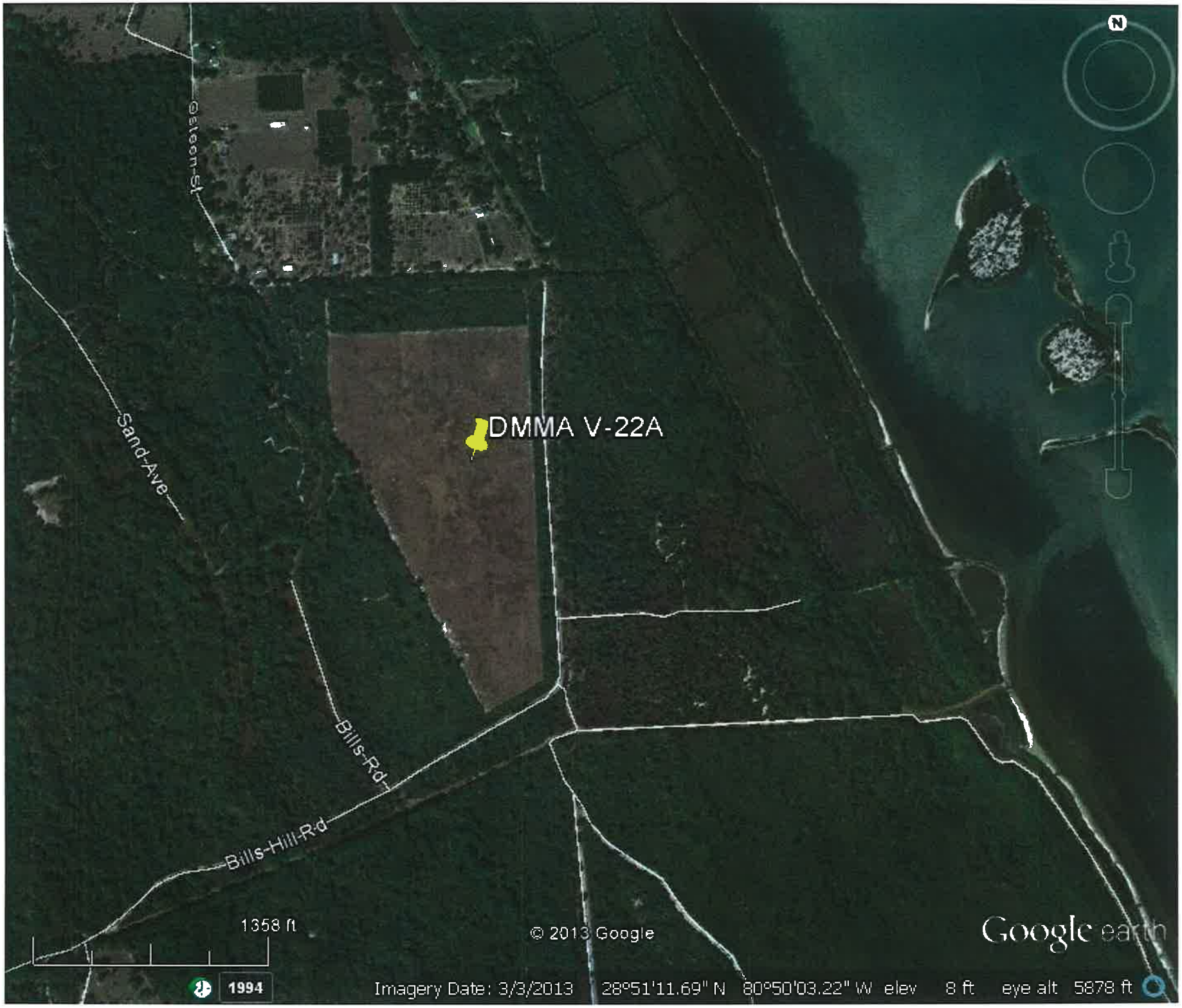
DMMA V-22A


DMMA V-22A
Gleason St
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Bills Rd
Bills Hill Rd
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© 2013 Google
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ECONOMIC BENEFITS OF THE DISTRICT'S WATERWAYS

VOLUSIA COUNTY

Purpose

To update economic benefits in Volusia County of marine-related activities on the District Waterways, as previously estimated in *An Economic Analysis of the District's Waterways in Volusia County*, February 2003, and to provide the general public and Federal, State, and local officials with a clear understanding of the importance of maintaining the waterways.

Scenarios Evaluated

1. Current Existing Conditions
2. Cessation of Waterways Maintenance
3. Increase in Waterways Maintenance
4. Estimated impact of the 2007-2009 U.S. economic recession

ECONOMIC IMPACTS

Current Existing Impacts

- $235.4 million in business volume
- $53.4 million in personal income
- 1,466 jobs
- $11.2 million in tax revenue

Impacts of Cessation of Waterways Maintenance

- Decrease of $49.97 million in business volume
- Decrease of $9.2 million in personal income
- Decrease of 307 jobs
- Decrease of $2.2 million in tax revenue

Impacts of an Increase in Waterways Maintenance

- Increase of $7.1 million in business volume
- Increase of $1.53 million in personal income
- Increase of 55 jobs
- Increase of $0.3 million in tax revenue

Impact of the 2007-2009 U.S. Economic Recession

- Decrease of $115.4 million in business volume
- Decrease of $26.2 million in personal income
- Decrease of 720 jobs
- Decrease of $5.6 million in tax revenue

Economic Benefits as of April 2011

ECONOMIC BENEFITS OF THE DISTRICT'S WATERWAYS

VOLUSIA COUNTY

The Intracoastal Waterway

The Atlantic Intracoastal Waterway (AICW) is a 1,391-mile channel between Trenton, New Jersey, and Miami, Florida. The Waterway along Florida's eastern seaboard is 406 miles long and follows coastal rivers and lagoons past numerous tourism-oriented communities. The channel is authorized to a depth of 12 feet from Nassau County to Fort Pierce, and a 10 foot depth south through Miami-Dade County. Boating activities on the waterways contribute to the existence of numerous marine-related businesses such as marinas and boatyards and have stimulated development of residential properties on the Waterways.

The Navigation District

The Florida Inland Navigation District, created in 1927, is the local sponsor for the AICW in Florida. In cooperation with the Jacksonville District of the U.S. Army Corps of Engineers, the Navigation District is responsible for maintenance of the AICW in Florida. To maintain navigation, the waterways need to be periodically dredged due to shoaling from currents, upland soil erosion, and the movement of offshore sands through the ocean inlets. Maintenance dredging is projected to cost approximately $12 to $16 million annually during the next 50 years, of which 50 percent of the costs are expected to be borne by property owners within the Navigation District's jurisdiction.

The Navigation District also partners with other governments to provide waterway access and improvement facilities for our mutual constituents. These projects include public boat ramps, marinas, side channels, parks, fishing piers, boardwalks, navigation aids, derelict vessel removal, shoreline stabilization, and waterway cleanups.

Source of Data Used in This Analysis

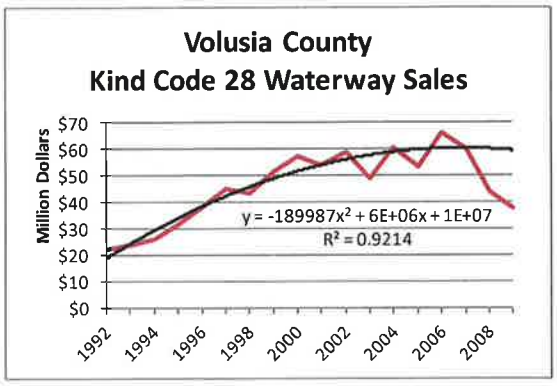
The economic benefits of the Waterways were estimated in February 2003 in *An Economic Analysis of the District's Waterways in Volusia County.*

Updating of Previously Estimated Benefits

The benefits presented in this analysis were estimated by updating the direct marine-business impacts in the original analysis to current values using the change in gross sales reported by boat dealers to the Florida Department of Revenue (FDOR). The updated direct impacts were used in conjunction with an IMPLAN input/output model to estimate total economic benefits.

Estimating the Impact of the Recession

The impact of the recession was estimated by determining the trend in gross sales of boat dealers over the 20-year period prior to the onset of the recession. This trend was used to estimate the theoretical gross sales if sales had continued to increase at the rates previously experienced. The red line in the figure below illustrates reported actual gross sales of boat dealers and the black line illustrates the trend of those sales. From 2007 to 2009 gross boat dealer sales in Volusia County decreased by 37 percent; if the recession had not occurred, it is estimated that gross sales from 2007 to 2009 would have decreased by only six percent.

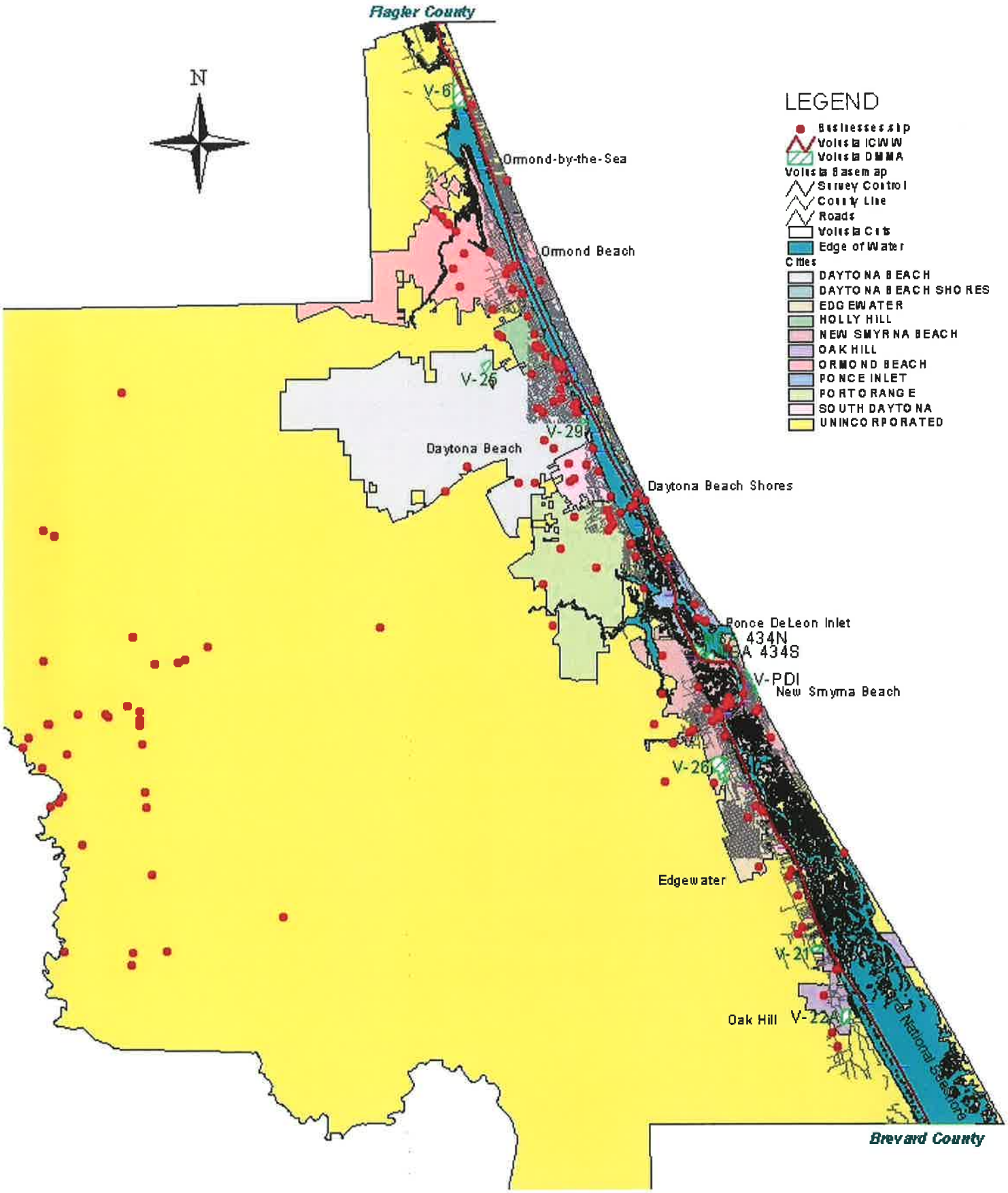


Annual Boater Spending on Gas, Food, and Drinks at Non-Marine-Related Establishments

- Current existing conditions: $24.6 million
- Cessation of maintenance: $21.7 million
- Increased maintenance: $24.6 million
- Assuming no recession: $37.4 million

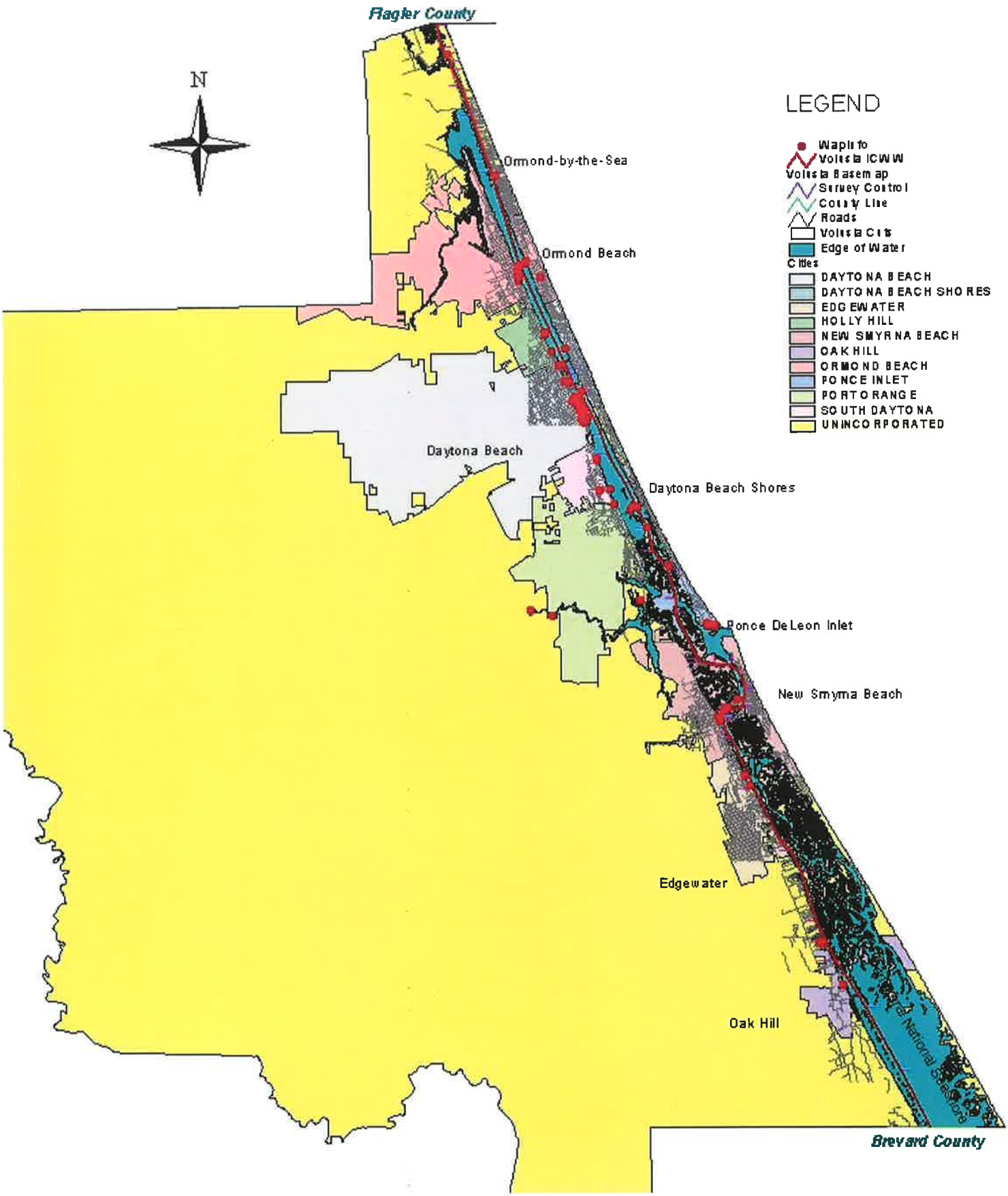
Vessel Draft Restrictions Assumed for Each Scenario

- Current existing conditions: 6.5 feet MLW
- Cessation of maintenance: 3 feet MLW
- Increased maintenance: 12 feet MLW
- Assuming no recession: 6.5 feet MLW



Location Map

Waterway Related Businesses
in Volusia County



Location Map

Waterway Assistance Program Projects
in Volusia County

FLORIDA INLAND NAVIGATION DISTRICT - WATERWAYS ASSISTANCE PROGRAM PROJECTS IN VOLUSIA COUNTY 1986-2013

ProjectName	ProjectNumber	ProjectSponser	GrantAmount	TotalCost
River Breeze Park	VO-02-55	Volusia County	$44,000.00	$88,000.00
Ed Stone Boat Ramp Park Restoration	VO-08-80	Volusia County	$100,000.00	$200,000.00
Ed Stone Boat Ramp Park Seawall - Phase I	VO-08-81	Volusia County	$30,000.00	$60,000.00
Ed Stone Boat Ramp Park - Seawall Construction- Ph I I	VO-10-90	Volusia County	$100,000.00	$200,000.00
Mariner's Cove Boat Ramp Expansion - Phase I	VO-11-93	Volusia County	$15,000.00	$30,000.00
Mariner's Cove Boat Ramp Expansion - Phase I I	VO-12-95	Volusia County	$40,000.00	$80,000.00
Highbridge Park - Phase I I	VO-89-3	Volusia County	$40,000.00	$92,050.00
Spruce Creek Preserve	VO-90-7	Volusia County	$37,500.00	$75,000.00
Bicentennial Park Pier And Boardwalk	VO-91-10	County of Volusia	$28,790.00	$57,581.00
Spruce Creek Preserve - Phase I I I	VO-91-9	County of Volusia	$37,500.00	$75,000.00
River Breeze Park - Phase I	VO-93-17	County Of Volusia	$73,850.00	$147,700.00
River Breeze Park - Phase I I	VO-94-20	Volusia County	$300,000.00	$755,480.00
Lighthouse Boat Ramp Facility	VO-95-22	Ponce De Leon Port Authority	$100,000.00	$315,720.00
Volusia Waterway Env. Education - Phase I	VO-96-28	Volusia County	$87,500.00	$120,000.00
Waterway Env. Education Center - Phase I I	VO-97-32	County Of Volusia	$313,461.00	$368,000.00
Waterways Environmental Education - Phase I I I	VO-98-35	Volusia County	$363,000.00	$532,000.00
Volusia Waterways Environmental Education - Phase I V	VO-99-41	Volusia County	$161,592.00	$720,000.00
Environmental Learning Center- Manatee Island	VO-DB-00-44	City Of Daytona Beach	$107,000.00	$300,000.00
Police Marine Unit	VO-DB-00-45	City Of Daytona Beach	$58,938.00	$80,764.00
Seabreeze Bridge/ Ballough Park	VO-DB-00-46	City Of Daytona Beach	$86,920.00	$225,000.00
Sickler Drive - Public Waterfront Park	VO-DB-01-50	City Of Daytona Beach	$95,000.00	$190,000.00
Halifax Harbor Marina Dredging Project	VO-DB-02-54	City Of Daytona Beach	$200,000.00	$400,000.00
Halifax Harbor South Basin Dredging	VO-DB-04-64	City Of Daytona Beach	$200,000.00	$400,000.00
Sickler Road Shoreline Stabilization	VO-DB-05-69	City Of Daytona Beach	$69,000.00	$138,000.00
Halifax Harbor North Basin Dredging - Phase I I	VO-DB-06-73	City Of Daytona Beach	$200,000.00	$400,000.00
Halifax Harbor North & South Basin Retention Dredging	VO-DB-08-79	City Of Daytona Beach	$28,810.00	$68,750.00
Halifax Harbor In- River Retention Repair	VO-DB-09-83	City Of Daytona Beach	$263,750.00	$527,500.00
Halifax Harbor Marina South Entrance Channel Dredging	VO-DB-10-87	City Of Daytona Beach	$150,000.00	$300,000.00
Bethune Point Park Boat Launch Facility	VO-DB-91-11	City of Daytona Beach	$75,000.00	$243,000.00
City Island	VO-DB-93-16	City Of Daytona Beach	$430,000.00	$1,500,000.00
Halifax River Dredging, Nav. & Env. Improvements	VO-DB-94-18	City Of Daytona Beach	$24,080.12	$80,707.12
Riverfront Park Public Waterfront Boardwalk	VO-DB-95-24	City Of Daytona Beach	$145,000.00	$355,648.00
Colin's Park Public Fishing & Viewing Piers	VO-DB-96-30	City Of Daytona Beach	$87,000.00	$174,000.00

FLORIDA INLAND NAVIGATION DISTRICT - WATERWAYS ASSISTANCE PROGRAM PROJECTS IN VOLUSIA COUNTY 1986-2013

Riverfront Park Public Waterfront Boardwalk	VO-DB-96-31	City Of Daytona Beach	$55,000.00	$411,548.00
Manatee Island Environmental Learning Center - Phase I	VO-DB-98-37	City Of Daytona Beach	$50,000.00	$81,000.00
Shoreline Stabilization & Boardwalk Repairs	VO-DB-98-38	City Of Daytona Beach	$50,145.00	$104,289.00
Halifax Harbor Marina Boat Ramp	VO-DB-99-42	City Of Daytona Beach	$50,000.00	$110,000.00
Kennedy Park Pier	VO-EW-03-57	City Of Edgewater	$60,885.00	$127,300.00
Riverwalk	VO-EW-91-12	City of Edgewater	$65,000.00	$214,080.00
Sunrise Park Dredging	VO-HH-05-70	City Of Holly Hill	$45,000.00	$90,000.00
Sunrise Park	VO-HH-2	City of Holly Hill	$100,000.00	$430,000.00
Sunrise Park Improvements	VO-HH-90-8	City of Holly Hill	$40,000.00	$80,000.00
Ross Point Park - Phase I I I	VO-HH-94-21	City Of Holly Hill	$47,500.00	$175,000.00
Marine Discovery Center	VO-NSB-00-47	City Of New Smyrna Beach	$118,560.00	$160,000.00
City Marina Reconstruction Project - Phase I	VO-NSB-01-51	City Of New Smyrna Beach	$65,000.00	$130,000.00
Riverside Park Shoreline Stabilization	VO-NSB-01-52	City Of New Smyrna Beach	$62,500.00	$125,000.00
City Marina Reconstruction Project - Year 1	VO-NSB-03-58	City Of New Smyrna Beach	$140,000.00	$1,172,000.00
City Marina Reconstruction Project - Year 2	VO-NSB-04-65	City Of New Smyrna Beach	$140,000.00	$1,075,000.00
City Marina Reconstruction	VO-NSB-05-71	City Of New Smyrna Beach	$140,000.00	$1,472,767.00
North Causeway Boat Ramps Reconstruction	VO-NSB-07-76	City Of New Smyrna Beach	$200,000.00	$400,000.00
Riverside Park Seawall - Phase I	VO-NSB-09-84	City Of New Smyrna Beach	$85,880.00	$171,760.00
Canal Calorie Dredging - Phase I	VO-NSB-10-88	City Of New Smyrna Beach	$15,000.00	$30,000.00
Riverside Park Bulkhead Repair - Phase I I	VO-NSB-11-91	City Of New Smyrna Beach	$325,000.00	$650,000.00
Swoop Public Boat Ramp, Kayak & Parking - Phase I	VO-NSB-11-92	City Of New Smyrna Beach	$82,800.00	$165,600.00
Swoope Site Boat Ramp, Parking, Dredge - Phase I I	VO-NSB-12-94	City Of New Smyrna Beach	$494,000.00	$988,000.00
Buena Vista Park	VO-NSB-99-40	City Of New Smyrna Beach	$140,000.00	$725,000.00
Granada Bridge Pedestrian Underpass	VO-OB-00-48	City Of Ormond Beach	$73,584.00	$147,169.00
South Beach Street Riverwalk - Stage I	VO-OB-01-53	City Of Ormond Beach	$76,917.00	$153,835.00
Granada Riverfront Park Improvements	VO-OB-89-4	City of Ormond Beach	$20,000.00	$230,000.00
Granada Riverfront Park Improvements - Phase I I	VO-OB-90-6	City of Ormond Beach	$150,000.00	$300,000.00
Ames Park	VO-OB-92-14	City of Ormond Beach	$48,000.00	$91,000.00
Ormond Hotel Riverfront Park - Phase I	VO-OB-94-19	City Of Ormond Beach	$20,000.00	$60,000.00
Hotel Ormond Riverfront Park - Phase I I	VO-OB-95-23	City Of Ormond Beach	$42,000.00	$84,000.00
Fortunato Park - Phase I I I	VO-OB-96-29	City Of Ormond Beach	$80,000.00	$160,000.00
S.R. 40 Halifax River Walkway	VO-OB-97-33	City Of Ormond Beach	$71,000.00	$142,000.00
Halifax River Public Outreach Program	VO-OB-98-39	City Of Ormond Beach	$4,700.00	$9,400.00
Waterfront Public Fishing & Viewing Pier	VO-OH-03-59	City Of Oak Hill	$50,000.00	$100,000.00
Ponce Preserve River Facilities	VO-PI-05-72	Town Of Ponce Inlet	$150,000.00	$400,000.00
Ponce Inlet Lighthouse Rehabilitation - Phase I	VO-PI-98-36	Town Of Ponce Inlet	$29,500.00	$59,000.00

FLORIDA INLAND NAVIGATION DISTRICT - WATERWAYS ASSISTANCE PROGRAM PROJECTS IN VOLUSIA COUNTY 1986-2013

Ponce Inlet Lighthouse Rehabilitation - Phase I I	VO-PI-99-43	Town Of Ponce Inlet	$150,000.00	$563,000.00
Gamble Place Launching Facility Design - Phase I	VO-PO-03-60	City Of Port Orange	$20,000.00	$40,000.00
Marine Unit	VO-PO-03-61	City Of Port Orange	$28,000.00	$56,000.00
Gamble Place Canoe Launch Construction - Phase I I	VO-PO-06-74	City Of Port Orange	$100,000.00	$200,000.00
Causeway Park Boat Ramp Facilities	VO-PO-07-77	City Of Port Orange	$40,000.00	$80,000.00
Russell Park Launch Design - Phase I	VO-PO-07-78	City Of Port Orange	$22,000.00	$44,000.00
Russell Park Landing Construction - Phase I I	VO-PO-09-85	City Of Port Orange	$100,000.00	$200,000.00
Port Orange Causeway Park	VO-PO-91-13	City of Port Orange	$65,000.00	$194,575.00
Riverfront Park	VO-PO-92-15	City of Port Orange	$100,000.00	$200,000.00
Causeway Park Expansion	VO-PO-95-25	City Of Port Orange	$125,000.00	$241,316.50
Causeway Park Expansion - Phase I I	VO-PO-96-27	City Of Port Orange	$50,000.00	$100,000.00
Riverfront Park Fishing Pier & Boat Ramp Renovations	VO-SD-00-49	City Of South Daytona	$52,871.00	$165,048.00
Veterans Memorial Park Channel Access Improvements	VO-SD-03-62	City Of South Daytona	$13,230.00	$14,700.00
Reed Canal Outfall Dredging And Spoil Site	VO-SD-04-66	City Of South Daytona	$25,000.00	$50,000.00
Riverfront Veterans Memorial Park Kayak & Canoe Launch	VO-SD-04-67	City Of South Daytona	$15,000.00	$30,000.00
Veteran's Memorial Riverfront Park Parking Expansion	VO-SD-09-86	City Of South Daytona	$42,500.00	$85,000.00
Riverfront Veteran's Memorial Park- Boat Pier Extension	VO-SD-10-89	City Of South Daytona	$30,000.00	$60,000.00
Riverfront Park Expansion	VO-SD-89-5	City of South Daytona	$150,000.00	$323,400.00
Highbridge Park - Phase I	VO-TR-1	Ponce DeLeon Port Authority	$80,000.00	$160,000.00
North Causeway Boat Launch Facility Improvements	VO-NSB-13-96	City of New Smyrna Beach	$407,400.00	$815,000.00
Swoop Site boat ramp parking & restroom Ph IIB	VO-NSB-13-97	City of New Smyrna Beach	$171,002.50	$342,005.00
Riverwalk Launch & Boardwalk Ph I	VO-PO-13-98	City of Port Orange	$40,000.00	$80,000.00
Highbridge Park Expansion Ph I	VO-13-99	Volusia County	$15,000.00	$30,000.00
		Project Totals	**$9,322,665.62**	**$24,398,692.62**

TAYLOR ENGINEERING, INC.
Delivering Leading-Edge Solutions

December 4, 2013

Mr. Mark Crosley
Executive Director
Florida Inland Navigation District
1314 Marcinski Road
Jupiter, FL 33477

Re: Indian River Lagoon Intracoastal Waterway Dredging Needs Assessment

Dear Mr. Crosley:

The Florida Inland Navigation District (FIND) has requested that Taylor Engineering quantify and prioritize the Indian River Lagoon (IRL) Intracoastal Waterway (ICWW) and IRL dredging needs. For this evaluation the IRL ICWW includes Brevard County Reach I – VI, Indian River County Reach I – III and St. Lucie County Reach I. (Figures 1 and 2).

To accomplish the requested tasks, while keeping the cost of this effort to a minimum, Taylor Engineering developed generalized permitting, design, and construction related costs. Taylor Engineering based these costs on our recent dredging feasibility efforts for the St. Johns River Water Management District (SJRWMD) for the dredging of 625,000 cy of muck from the Eau Gallie River and Elbow Creek near Melbourne in Brevard County.

Taylor Engineering's review includes an estimation of the dredging requirement for the evaluation area, based mainly on the Survey 2004 results and the estimated shoaling rate of each ICWW reach to project a dredging requirement for 2014, except in the rare case where more recent survey data was available. In addition, Taylor Engineering accessed the status of each dredged material management area (DMMA), the majority of which remain unconstructed, that will receive materials dredged from the referenced county reaches. Taylor Engineering's review also includes a general discussion on muck quantities within the evaluation area, based on readily available current data for Brevard County.

Brevard County, Indian River County, and St. Lucie County ICWW Dredging Needs

The proposed evaluation area is composed of ten ICWW channel reaches, which contain 76 channel cuts, stretching approximately 100.12 miles, from the Volusia/Brevard County line (Brevard County Reach I) south to the confluence of the ICWW and Fort Pierce Inlet (St. Lucie County Reach I) (Table 1).

As noted above, Taylor Engineering based the current minimum storage capacity requirement for each ICWW reach on a projection of the shoaling rate for each and the Survey 2004 results, with the exception of two sections of the ICWW where more recent dredging data is available. These two reaches are Indian River County Reach I, which the U.S. Army Corps of Engineers (USACE) surveyed in January 2013, and St. Lucie County Reach I, which the USACE surveyed in May 2008. The updated data is included in Table 1 as indicated.

Table 1 Intracoastal Waterway Evaluation Area Data

County	Reach	Cuts	Distance (miles)	Survey 2004 (cy)	Shoaling Rate (cy/yr)	Projected 2014 Dredging Need (cy)	DMMA	Status
Brevard	**I**	1 — 6	7.74	12,319	22,583	215,566	BV-2C	Built
	II	7 — 14	11.94	327,551	16,232	473,639	BV-4B	Not Built
							BV-NASA	Built
	III	15 — 19	11.07	224,400	5,962	278,058	BV-11	Not Built
	IV	20 — 22	11.10	222,778	5,098	268,660	BV-R	Not Built
	V	23 — 26	12.68	272,584	6,238	328,726	BV-40	Not Built
							BV-52	Built
	VI	27 — 37	13.47	373,770	8,554	450,756	BV-24	Not Built
Indian River	**I**	1 — 6	8.09	223,414*	4,619	223,414*	IR-2	Built
	II	7 — 24	6.95	17,259	428	21,111	IR-7A	Not Built
	III	25 — 35	8.27	65,593	1,626	80,227	IR-14	Not Built
St. Lucie	**I**	1 — 4	8.81	116,152*	703	119,667*	SL-2	Built
TOTAL		76	100.12	1,855,819	72,403	2,459,823	12	

*Adjusted dredging requirement volumes from USACE Surveys

As shown in Table 1, the projected 2014 ICWW dredging requirement for these ten reaches ranges from a low of approximately 21,100 cubic yards (cy) for Indian River County Reach II to a high of roughly 473,600 cy for Brevard County Reach II. The total dredging requirement for the ICWW within the entire evaluation area is nearly 2,460,000 cy. Notably, the precise sediment physical characteristic of the in-situ dredged material within the ICWW in the evaluation area is unknown.

The FIND and the USACE have built five of the twelve DMMA sites designated to receive materials dredged from the referenced county reaches. The five sites are BV-2C, BV-NASA, BV-52, IR-2, and SL-2.

The 50-year storage capacity projection for the 68.00 miles of ICWW channel in Brevard County is roughly 7,600,000 cy, the third highest of the District's 12 counties. There is no ICWW dredging currently scheduled in Brevard County. The most recent Brevard County ICWW dredging occurred in 2000 when the USACE dredged approximately 1,200,000 cy of material from Brevard County Reach 1 of the ICWW in northern Brevard County and placed the material in BV-2C. While, the majority of the dredged material in BV-2C is mostly inorganic muck, almost a quarter of the material in the site, appears to be fine sand. The FIND constructed BV-NASA in 2009 and BV-52 in 1999.

The FIND constructed SL-2 in 2009, while the USACE constructed IR-2 early this year. Neither site has received dredged material. The 50-year storage capacity projection for the 23.31 miles of ICWW channel in Indian River County is roughly 717,000 cy, the third lowest of the District's 12 counties. No ICWW dredging has occurred in the Indian River County. The 50-year storage capacity projection for the 8.81 miles of ICWW channel in St. Lucie County Reach I is roughly 76,000 cy. St. Lucie County has the second lowest 50-year storage capacity projection of the District's 12 counties.

To date, the FIND has not scheduled the permitting, design, and construction of the remaining seven DMMA sites. Nor is any dredging scheduled for any of the reaches that these twelve sites serve, with the exception of Indian River County Reach I and site IR-2, which the USACE is scheduled to dredge in 2014.

In an effort to prioritize the dredging needs of each reach, Taylor Engineering reviewed the results of the 2004 hydrographic survey and the two USACE surveys mention earlier (Indian River County Reach I and St. Lucie County Reach I). Review of these surveys indicates the presence of 335 shoals or individual soundings with an elevation of less -10 ft mean low water (MLW) for the ICWW evaluation area (Table 2).

Table 2 Shoals and Soundings above Project Depth within the ICWW Evaluation Area Data

County	Reach	Shoals (-10 ft MLW)	Dredging Need per mile (cy)
Brevard	**I**	1	27,851
	II	56	39,668
	III	67	25,118
	IV	25	24,204
	V	0	25,925
	VI	31	33,464
Indian River	**I**	47	27,616
	II	5	3,038
	III	12	9,701
St. Lucie	**I**	91	13,583
TOTAL		335	230,167

The vast majority of these shoals and individual soundings are located, in rank order, within St. Lucie Reach I, Brevard County Reach III, Brevard County Reach II, and Brevard County Reach VI. When ranked by dredging need per mile of ICWW channel the majority of the required dredging is located in Brevard County Reach II, Brevard County Reach VI, Brevard County Reach I, Indian River County Reach I, and Brevard County Reach V.

As noted earlier, five of the twelve DMMA sites designated to receive materials dredged from the referenced county reaches are already constructed. As shown in Table 3, the projected 2014 ICWW

channel dredging requirement exceeds the planned storage capacity of the DMMA designated to serve each reach for Brevard County Reach III, Brevard County Reach IV, and St. Lucie County Reach I.

Table 3 DMMA Status and Storage Capacity

County	Reach	DMMA	Status	Projected 2014 Dredging Need (cy)	Planned DMMA Storage Capacity (cy)
Brevard	**I**	BV-2C	Built	215,566	3,241,188
	II	BV-4B	Not Built	473,639	771,031
		BV-NASA	Built		390,605
	III	BV-11	Not Built	278,058	196,340
	IV	BV-R	Not Built	268,660	221,971
	V	BV-40	Not Built	328,726	228,538
		BV-52	Built		216,096
	VI	BV-24	Not Built	450,756	1,084,094
Indian River	**I**	IR-2	Built	223,414*	460,284
	II	IR-7A	Not Built	21,111	68,742
	III	IR-14	Not Built	80,227	178,051
St. Lucie	**I**	SL-2	Built	119,667*	84,083
TOTAL		12		2,459,823	7,141,023

*Adjusted dredging requirement volumes from USACE Surveys

When ranked by amount of shoaling within each ICWW channel reach; the dredging need per mile of ICWW channel; and the projected 2014 dredging volume versus the capacity of the DMMA(s) designated to serve each reach; Taylor Engineering suggests dredging the ICWW channel, in rank order, Brevard County Reach III, St. Lucie Reach I, and Brevard County Reach II.

As noted previously, the precise sediment physical characteristics of the in-situ dredged material within the ICWW in the evaluation area is unknown. Ancillary evidence including a review of the already constructed DMMA sites that have received dredged material indicates that the majority of the material dredged from the ICWW within the project area is muck sediments. However, to verify muck thickness data, Taylor Engineering recommends that prior to permitting a preliminary dredging design and before preparing final design drawings and construction plans, that the FIND authorizes collection of additional geotechnical and hydrographic data within the proposed dredging template.

Brevard County, Indian River County, and St. Lucie County Indian River Lagoon Dredging Needs

Sources of sediments and nutrients within the IRL are numerous natural streams, rivers, creeks, drainage canals, storm water outfalls, overland runoff, ground water seepage, septic tank leachate, and infrequent wet-weather wastewater discharges. The IRL is impacted by urban and construction runoff,

various marina pollutant inputs and, possibly, internal pollutant loading from the IRL's sediments (Steward et al., 2003 *IRL Surface Water Improvement and Management Plan, 2002 Update* St. Johns River and South Florida Water Management Districts).

The IRL Comprehensive Conservation and Management Plan and the IRL Surface Water Improvement and Management Plan both recommend muck removal within the IRL. The Florida Department of Environmental Protection also endorses the removal of muck sediments under its Total Maximum Daily Loads program to remove the legacy loads of nutrients and pollutants associated with re-suspended muck sediments into the water column and the transport of muck into the IRL, negatively affecting seagrasses.

Due to both hydrology and physiography, deeper portions of the IRL and areas near tributaries or estuaries often collect significant quantities of nutrient-rich, fine-grained, organic muck sediments. A 2007 SJRWMD report, *The IRL: An Introduction to a National Treasure* estimates that muck sediments cover as much as 10% of the IRL bottom.

At the request of the FIND, John Trefry Ph.D., Professor of Marine and Environmental Systems at Florida Institute of Technology provided a copy of an April 2009 SJRWMD report by Riegl et al. entitled *Mapping the Distribution and Vertical Extent of Muck in the IRL.* The report documents investigations undertaken by Bernhard Riegl Ph.D., an Associate Professor at the Oceanographic Center of Nova Southeastern University (NSU) and two of his Ph.D. candidates. The data provided to Taylor Engineering in the report, is a preliminary tabulation of the quantity and location of muck in the IRL with Brevard County from the Titusville area to the Sebastian Inlet. In addition, NSU mapped the Banana River was surveyed from the Federal Manatee Zone near Cape Canaveral to the Banana Rivers convergence with the Indian River near Indian Harbour Beach.

However, the primary objective of the 2008 large-scale hydroacoustic survey undertaken by NSU was to map the distribution and biomass of seasonal drift macroalgae, which NSU documented in another report (Riegl et al. April 2009 *Mapping the Distribution and Abundance of Macroalgae in the IRL*) not to map and quantify the volume of muck within the IRL. Notably, calibration and quality control procedures indicate that NSU only took twenty-three verification probes within the mapped area. Therefore, the data should be used with some caution.

Table 4 Brevard County Indian River Lagoon Muck Dredging Needs

County	Reach	Projected Muck Dredging Need (cy)
Brevard	**I**	25,782
	II	466,617
	III	342,205
	IV	253,495
	V	1,574,332
	VI	14,714
TOTAL		2,677,146

As shown in Table 4, the vast majority (98%) of the muck sediments lies between Brevard County Reach II and V, with Brevard County Reach V accounting for nearly 60% of the muck dredging needs within Brevard County. Please note that the muck dredging volume includes muck sediments located within the ICWW channel and outside the channel.

Order of Magnitude Project Cost Estimate

The first project phase is the preparation of preliminary design documents and permits for the proposed dredging template and DMMA, as necessary. The second phase of the project is the completion of the final project design, preparation of construction documentation, and assisting the FIND with the bidding process. The subsequent construction observation tasks will coincide with the actual construction and dredging of the project. These tasks include installation of the pipeline route, road crossings, DMMA construction, hydraulic dredging of sediments, offloading and final disposal of dredged material (if necessary), site restoration (if necessary), and project closeout

The third phase of the project is construction, which will coincide with construction observation tasks. These tasks include site acquisition, mobilization/demobilization, site or DMMA construction, mitigation and monitoring of any wetland impacts, the, hydraulic dredging of sediments, offloading and final disposal of dredged material (as necessary), site restoration (again as necessary), and project closeout. The cost to dredge and dispose of the dredged sediments depends on several factors. Primarily the cost depends on the total dredged volume, the project schedule, and the dewatering and final disposal options available to the FIND.

Conclusions and Recommendations

The priority areas for navigation dredging the ICWW are Brevard Reach III, St. Lucie Reach I and Brevard Reach II. Both Brevard Reaches require the construction of a DMMA. The priority areas along the ICWW for muck dredging are Brevard Reach V, Brevard Reach II, and Brevard Reach III. All three of these reaches require the construction of a DMMA.

The FIND can select any order of the above reaches they desire to pursue. Therefore, we have developed cost associated with each reach starting with navigation dredging followed by muck dredging. The navigation dredging costs are based on ICWW channel dredging only. The muck dredging costs consider dredging outside of the channel. The estimated for muck dredging outside the channel are very preliminary.

Table 5 Order of Magnitude Cost Estimate – ICWW Dredging

Project Area	Cost
Dredging Brevard County Reach III and Construction of BV-11	$10,125,000
Dredging St. Lucie County Reach I using SL-2	$4,500,000
Dredging Brevard County Reach II and Construction of BV-4B	$12,600,000
TOTAL COST	$27,225,000

Table 6 Order of Magnitude Cost Estimate – IRL Dredging

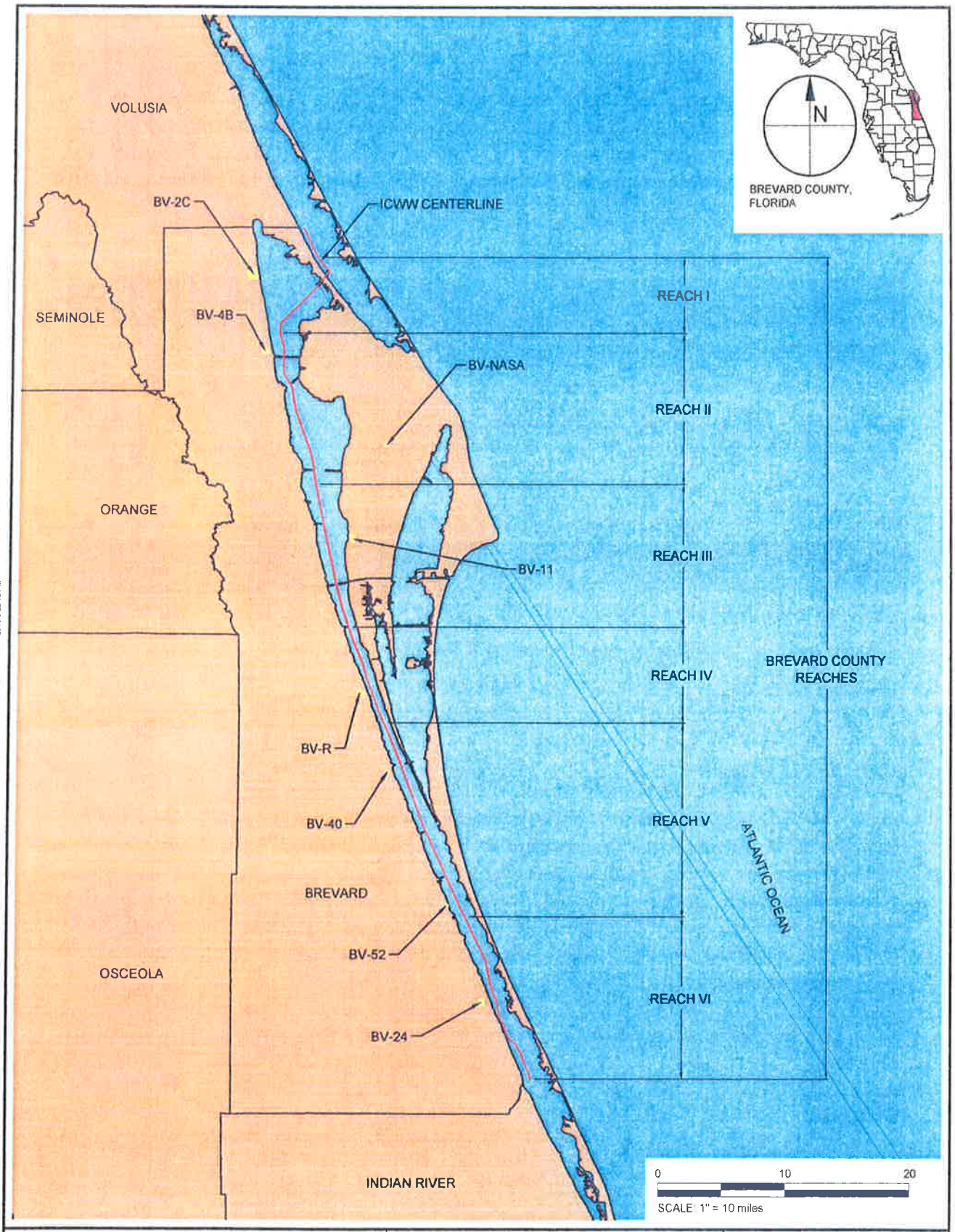
Project Area	Cost
Dredging Brevard County Reach V and Construction of BV-40	$26,500,000
Dredging Brevard County Reach II and Construction of BV-4B	$15,900,000
Dredging Brevard County Reach III and Construction of BV-11	$9,600,000
TOTAL COST	$52,000,000

These cost estimates represent Taylor Engineering's best judgment as a professional design firm familiar with the type of construction contemplated in this design. However, Taylor Engineering has no control over the cost of labor, materials, or equipment. Nor can Taylor Engineering account for a selected contractor's methods of determining bid prices, including the selected contractor's response to competitive bidding, market fluctuations, or negotiated contract conditions. Accordingly, Taylor Engineering cannot and does not warrant or represent that the actual bids or negotiated prices will not vary from our estimates.

We appreciate this opportunity to serve the FIND. Please contact me if you have questions or comments.

Sincerely,

John Adams, P.E.
Senior Advisor, Waterfront Engineering



REBECCA JOHNSON X:\SYS\PROJECTS\C2002.016 FIND GENERAL SERVICES\BREVARD-INDIAN RIVER-STLUCIE-REACH I DREDGING ASSESSMENT\OVERVIEW INFORMATION\BREVARD.DWG 12/2/2013 5:22:13 PM

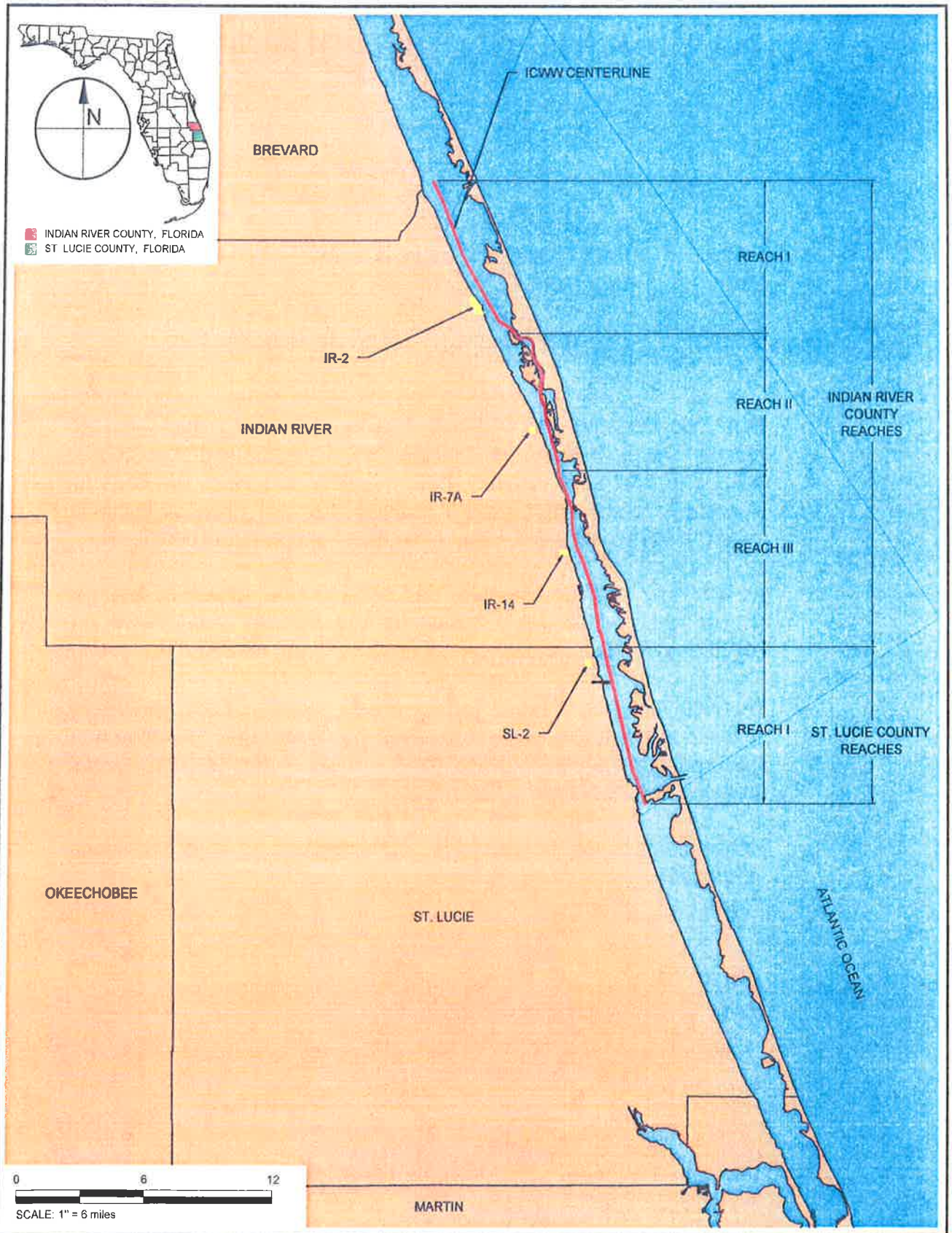
TAYLOR ENGINEERING INC.
10151 DEERWOOD PARK BLVD.
BLDG. 300, SUITE 300
JACKSONVILLE, FL 32256
CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 1
PROJECT OVERVIEW
DREDGING ASSESSMENT
BREVARD COUNTY, FLORIDA

PROJECT	DRAWN BY	SHEET	DATE
C2002-016	RLJ	1 of 2	DEC 2013

SEAL
DRAFT
ROBERT J. WAGNER P.E. # 63026 DATE

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.



TAYLOR ENGINEERING INC.
10151 DEERWOOD PARK BLVD.
BLDG. 300, SUITE 300
JACKSONVILLE, FL 32256
CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 2
PROJECT OVERVIEW
DREDGING ASSESSMENT
INDIAN RIVER & ST. LUCIE COUNTIES, FLORIDA

PROJECT	DRAWN BY	SHEET	DATE
C2002-016	RLJ	2 of 2	DEC 2013

SEAL
DRAFT
ROBERT J. WAGNER P.E. # 63028 DATE

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

FLORIDA INLAND NAVIGATION DISTRICT

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GAIL KAVANAGH
CHAIR
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EXECUTIVE DIRECTOR

JANET ZIMMERMAN
ASSISTANT EXECUTIVE DIRECTOR

To: Commissioners
From: Mark Crosley, Executive Director
Date: December 4, 2013

Subject: Five-Year Dredging & DMMA Development Plan

Staff has updated the District's Five-Year Dredging and Dredged Material Development Area (DMMA) Plan. This planning document is utilized to give staff guidance over the next five years for foreseen significant capital improvement projects that will need to occur to keep the Intracoastal Waterway maintained at optimum conditions.

As with any plan or schedule, this document is subject to change; change that would likely result from waterway and DMMA site conditions, funding availability, opportunities, and priorities.

This five-year plan is presented for review and discussion. In support of this document is an inventory of our public facilities, as required by law, and our engineer's preliminary analysis of the District's overall dredging and site construction needs.

Please contact me if you have any questions or need additional information.

ADMINISTRATIVE OFFICE ON THE INTRACOASTAL WATERWAY IN PALM BEACH COUNTY
1314 MARCINSKI ROAD, JUPITER, FLORIDA 33477-9427 TELEPHONE 561-627-3386 FAX No. 561-624-6480
www.aicw.org

Intracoastal and Okeechobee Waterway
Dredging and Dredged Material Management Area Development
5 Year Schedule

Fiscal Year	Project	Phase	Estimated Cost	Notes:
2013-2014	??	??	??	Potential project scheduled by opportunity
	NASSAU REACH I - FIND	Plans & Specifications	$ 150,000	Follows DMMA comp
	NASSAU REACH I - FIND	Permitting	$ 75,000	Concurrent
	MATANZAS - FIND	Plans & Specifications	$ 150,000	Forthcoming
	DMMA SJ-20A - ??	P&S/ Permitting	$ 300,000	??
	DMMA FL-3 - FIND	E/D	$ 320,000	Ongoing
	DMMA BV-4B - FIND	E/D	$ 365,000	Forthcoming
	DMMA BV-40 -FIND/SJRWMD	E/D & permitting	$ 300,000	On hold
	INDIAN RIVER REACH 1 - USACE	Plans & Specifications	$ 250,000	Underway
	ST. LUCIE REACH 1 - FIND	Dredging	$ 200,000	Pending
	CROSSROADS SETTLING BASIN - FIND	Plans & Specifications	$ 75,000	Ongoing
	DMMA O-7 - USACE	E/D Phase II	$ 188,000	Contributed Funds Agreement Pending
	LT-13 - FIND	Acquisition	$ 1,300,000	Ongoing
	PALM BEACH REACH 3 DEEPENING - FIND	Construction	$ 3,500,000	Awaiting permits
	MSA 726 (Exchange Club Park) - FIND	P & S	$ 150,000	Forthcoming
	BROWARD REACH I - USACE	Plans & Specifications	$ 150,000	Initiating
	BROWARD REACH 3 DEEPENING - FIND	Permitting	$ 100,000	Ongoing
	DMMP UPDATES (2) - FIND	Study	$ 110,000	Underway
		SUBTOTAL	**$ 7,683,000**	
2014-2015	NASSAU REACH I - FIND	Dredging	$ 1,500,000	Follows P/S & Permitting
	NASSAU REACH I - FIND	S/A	$ 70,000	
	DMMA FL-3 - FIND	Construction	$ 3,000,000	
	MATANZAS - FIND	Dredging	$ 3,200,000	Follows permitting & P/S
	DMMA BV-4B - FIND	Permitting	$ 65,000	Forthcoming
	DMMA BV-40 -FIND/SJRWMD	Construction ?	$ 3,000,000	Pending need
	INDIAN RIVER REACH 1 - USACE	Dredging	$ 1,500,000	Exemption/RGP
	INDIAN RIVER REACH 1 - USACE	S/A	$ 100,000	
	DMMA O-7 - USACE	Construction	$ 2,300,000	Follows E/D Phase II
	DMMA O-7 - USACE	S/A	$ 140,000	
	OWW REACH 3 - FIND/USACE?	Permitting	$ 200,000	Based on O-7 progress
	BROWARD REACH I - USACE	P & S	$ 325,000	Resource Issues
	BROWARD REACH 3 DEEPENING - FIND	Dredging	$ 19,000,000	Permitting ongoing
	BROWARD REACH 3 DEEPENING	S/A	$ 425,000	
	MSA 726 (Exchange Club Park) - FIND	Construction & Landscape buffer	$ 625,000	
	NEARSHORE DISPOSAL - USACE	Permitting	$ 250,000	Forthcoming
	DMMP UPDATES (2) - FIND	Study	$ 110,000	Ongoing
		SUBTOTAL	**$ 35,810,000**	

Intracoastal and Okeechobee Waterway
Dredging and Dredged Material Management Area Development
5 Year Schedule

Fiscal Year	Activity	Phase	Estimated Cost	Notes:
2015-2016				
	NASSAU REACH I	Dredging	$ 1,000,000	
	DMMA BV-4B - FIND	Construction	$ 3,200,000	
	DMMA BV-11	Permitting, P & S	$ 325,000	
	CROSSROADS - FIND	Permitting, P & S	$ 130,000	Every 3 years
	DMMA M-8	Permitting, P & S	$ 275,000	Could be accelerated pending other site construction
	OWW REACH IV	E/D	$ 80,000	Follows O-7 DMMA completion
	OWW REACH IV	S/A	$ 80,000	
	OWW ROUTE 1 AND 2	E/D	$ 80,000	
	DMMA HD-1	E/D	$ 150,000	OWW DMMA
	DMMA LT-4A	E/D	$ 150,000	OWW DMMA
	PALM BEACH REACH 4	E/D & Permitting	$ 120,000	
	BROWARD REACH I	Dredging	$ 1,000,000	
	BROWARD REACH I	S/A	$ 80,000	
	BAKERS HAULOVER - FIND	Permitting, P & S	$ 110,000	Every 2-3 years
		SUBTOTAL	**$ 6,780,000**	
2016-2017				
	DMMA BV-11	Construction	$ 3,250,000	
	DMMA M-8	Construction	$ 2,750,000	
	CROSSROADS- FIND	Dredging	$ 1,500,000	3 year cycle
	OWW REACH IV	Dredging	$ 1,500,000	Exemption/RGP
	JUPITER - FIND	Permitting, P & S	$ 160,000	
	DMMA HD-1	S/A	$ 150,000	
	DMMA HD-1	Construction of DMMA	$ 3,000,000	
	DMMA LT-4A	S/A	$ 150,000	
	DMMA LT-4A	Construction of DMMA	$ 2,500,000	
	PALM BEACH REACH 3 DEEPENING	Permitting E/D	$ 200,000	
	BAKERS HAULOVER - FIND	Dredging	$ 1,000,000	
		SUBTOTAL	**$ 16,160,000**	
2017-2018				
	DMMA FL-12	Permitting, P & S	$ 275,000	
	DMMA BV-R	Permitting, P & S	$ 260,000	
	DMMA V-22A	Permitting, P & S	$ 280,000	
	OWW ROUTE 1 AND 2	Dredging	$ 2,000,000	
	OWW ROUTE 1 AND 2	S/A	$ 80,000	
	JUPITER	Dredging	$ 1,600,000	3 year cycle
	PALM BEACH REACH 4	Dredging	$ 1,200,000	
	PALM BEACH REACH 4	S/A	$ 60,000	
		SUBTOTAL	**$ 5,755,000**	

DREDGE MATERIAL MANAGEMENT AREAS (DMMA) TO BE CONSTRUCTED ON FIND LANDS

COUNTY	PUBLIC FACILITY	LOCATION	SEC/TWP/RGE	CURRENT CAPACITY CU. YDS.	ANTICIPATED DEMAND (CU. YDS./50YRS.)	CONTTRUCTION ACTIVITY NEXT 7 YRS	DATE OF CONSTRUCTION ACTIVITY
Nassau	DMMA NA-1	Crane Island	19, 46, 8 & 49/2N/28E	??	434,295	Diking	2013
Nassau	DMMA NA-NS	Amelia Island Beach		UNLIMITED	2,000,000	Placement of Dredged Material	2013 (approximately every 5 yrs)
Duval	DMMA DU-2	Northeast Black Hammock Island	38/IN/28E	394,972	394,972	Offloading & Placement of Dredged Material	2013
Duval	DMMA DU-3 & 4	West Central Black Hammock Island	35/1N/28E	0	617596	Diking	2016
Duval	DMMA DU-20	Black Hammock Island	35/1N/28E	164284	544284	Diking	2016
Duval	DMMA DU-6A	Fanning Island	25/1S/28E	730,219	730,219		
Duval	DMMA DU-7	Greenfield Site	37/2S/28E	0	96,753		
Duval	DMMA DU-8	Atlantic Blvd.	19/2S/29E	150,000	208,236		
Duval	DMMA DU-9	Pablo Creek	19/3S/29E	800,000	1,855,937		
St. Johns	SJ-14	S.R. 210 Palm Valley	29, 32 55, 57 &61/4E/29S	786,431	1,986,431	Restoration & Offloading	2013
St. Johns	SJ-29	Guana River	34 &45/5E/29S & 3 & 48/5E/29S	0	146,751		
St. Johns	SJ-20A	Moses Creek	42 & 20/8E/30S	0	55,743		
St. Johns	SJ-1	Matanzas River	38/9E/31S	0	759,712		
St. Johns	SJ-MB	Matanzas Beach	38/9E/31S	UNLIMITED	7,034,370	Beach fill	2016
Flagler	DMMA FL-3	Palm Coast North	13/I0S/30E	0	756,630	Diking	2014
Flagler	DMMA FL-8	Fox Cut	9,38,47,48,49/11S/31E	0	1,756,192		
Flagler	DMMA FL-12	Palm Coast South	34/Govt. Lots 11 & 12/31E 35/11S/31E	0	11,849		
Volusia	DMMA V-25	Northwest Daytona Beach/LPGA Blvd.	2/15S/32E	344,050	344,050		
Volusia	DMMA V-29	Daytona Beach WTP	16/15S/33E	350000	431400		
Volusia	MSA 434A	Rattlesnake Island	2,3,11,14,13,23,24/16S/3 3E	100,000	100,000		
Volusia	MSA 434B		25,36/16S/33E	0	0		
Volusia	MSA 434AR		20/17S/34E	0	0		
Volusia	MSA 434/434C No.		6&31/16&17S/34E	0	0		
Volusia	MSA 434/434C So.	Rattlesnake Island	6/17S/34E	1860000	1890300	Material Placement	2013
Volusia	DMMA V-26	Edgewater	29/17S/34E	20000	70000		
Volusia	MSA V-9	??	16,17/17S/34E	0	0		
Volusia	DMMA-V-21	S. Ridgewood Ave/Burch Road	31/18S/36E	425,600	425,600		
Volusia	DMMA V-22A	Oak Hill	9&16/19S/35E	0	529,800		

DREDGE MATERIAL MANAGEMENT AREAS (DMMA) TO BE CONSTRUCTED ON FIND LANDS

COUNTY	PUBLIC FACILITY	LOCATION	SEC/TWP/RGE	CURRENT CAPACITY CU. YDS.	ANTICIPATED DEMAND (CU. YDS./50YRS.)	CONTTRUCTION ACTIVITY NEXT 7 YRS	DATE OF CONSTRUCTION ACTIVITY
Brevard	BV-2C	Mims	18/20S/35E	3400000	3659623	Offloading of Sand	2013
Brevard	BV-4B	Mims	16,20 &21/21S/35E	0	700609		
Brevard	BV-NASA	Kennedy Space Center		707610	707610		
Brevard	BV-11	N. Merritt Island	27/23S/36E	0	496618		
Brevard	BV-R	Rockledge	26/25S/36E	0	547237		
Brevard	BV-40	Palm Shores	30/26S/37E	0	208709		
Brevard	BV-52	Palm Bay	13&14/28S/37E	208708	208708		
Brevard	BV-24	Valkaria	20 &21/29S/38E	0	1053044		
Indian River	DMMA IR-2	Sebastian	3/34S/31E	460,000	496,000	Placement of Sand	2014
Indian River	DMMA IR-7A	Wabasso	34/31S/39E	0	68,742		
Indian River	DMMA IR-14B	Vero Beach	7/33E/40S	0	178,051		
St. Lucie	MSA SL-2	N. SLC, on Old Dixie Hgwy	4,5,9,10,15,22,27 & 34/34S/40 & 3/35S/40E	85,000	85,000		
St. Lucie	DMMA M-8		29/36S/41E	0	84,268		
St. Lucie	DMMA M-12	St. Lucie/Martin Line S. Indina River Dr.	9&10/37S/41E	0	174,600		
Martin	DMMA M-5	St. Lucie Inlet	18/38S/42E	151,000	251,200	Unloading & Placement of Sand	2013
Martin	DMMA M-SLI	Gomez Grant	Hobe Sound NWR	UNLIMITED	2,391,058		
Martin	MSA-524B		12/40S/42E	0	77,700		
Martin	MSA 504B & E	Gomez Grant	38S/42E	0	104,700		
Martin	DMMA O-7		1/38&39S/40E	0	555,000	Diking	2014
Martin	DMMA O-23		27&28/37S/41E	0	243,984		
Martin	DMMA O-35A		4/38S/40E	0	1,006,000	Plant Restoration	2013
Palm Beach	MSA PB-JB	Jupiter Beach	6 &31/40S/43E	UNLIMITED	5,000,000	Sand Placement	2016
Palm Beach	MSA 610 & 611A		17/41S/43E	0	65,000		
Palm Beach	MSA 617C		29/41S/43E	0	75,000	none	
Palm Beach	MSA PB-PI		34/41S/43E	0	203,000	Sand Placement	2014
Palm Beach	MSA PB-BB			UNLIMITED		Sand Placement	2013
Palm Beach	MSA 640 & 640A		4/46S/43E	0	53,000		
Palm Beach	MSA 641A		4/46S/43E	0	53,000		
Palm Beach	MSA 684A			0	52,000	Mitigation & Shoreline Stabilization	2014
Broward	DMMA B-HI	Hillsboro Inlet South Beach		UNLIMITED	58092	Sand Placement	2015
Broward	MSA 726	Pompano	30/48S/43E	0	58092		
Broward	MSA 727B	Pompano	30/48S/43E	0	12262		
Broward	MSA 783	Port Everglades	25/50S/42E	0	1,980		
Dade	DMMA BH			UNLIMITED	933,835		
Dade	DMMA D-45			0	190,000		

12-03-14

Engineer's Preliminary Priority Analysis of FIND Dredging Areas and DMMA Sites – FOR PLANNING PURPOSES ONLY!

County	Dredging Reach	DMMA	Surrounding Area Development	Built	Fenced	Cleared	2004 Survey Dredging Quantities	Comments	Priority
NASSAU	I	NA-1		X			166,258	Constructed in 2013	Built
	II	DU-2 & Beach		X			64.072	Amelia Island Beach Sawpit dredging completed 2013	Built & BCH
DUVAL	III	DU-3/4	LIMITED		?		25,161	Previously used.	18
	IV	DU-6		X			126,231	No major shoals.	Built
	V	DU-7	LIMITED		X	X	5,059	North side of Wonderwood Drive.	25
	VI	DU-8		X			10,832		Built
	VII	DU-9		X			45,333	Last dredged 2009.	Built
ST. JOHNS	I	SJ-14		X			796,782	Last dredged ~2005.	Built
	II	SJ-14		X			248,541	This reach also uses SJ-29.	Built
	III	SJ-29	MODERATE		X	X	63,731	Palencia development on west side.	17
		Beach						St. Augustine Beach	BCH
	IV	SJ-20A	EXTENSIVE		X	X	39,617	USACE applied for permit in 2007.	8
	V	SJ-1 & Beach		X			147,391	Matanzas/ Summer Haven Beach. Lasted dredged 2007, material placed on beach.	Built & BCH

Engineer's Preliminary Priority Analysis of FIND Dredging Areas and DMMA Sites – FOR PLANNING PURPOSES ONLY!

County	Dredging Reach	DMMA	Surrounding Area Development	Built	Fenced	Cleared	2004 Survey Dredging Quantities	Comments	Priority
FLAGLER	I	FL-3		X			58,102	Under Design 2013. Scheduled to be built 2014.	Built
	II	FL-8	MODERATE		X	X	7,498	Has been used w/o new diked DMMA. City Park along ICWW.	23
	III	FL-12	MODERATE		?		33,308	Some distance from ICWW. Used for Reach IV also. No recent survey data.	11
	IV	FL-12	MODERATE		?		101,800	Some distance from ICWW. Used for Reach III also. No recent survey data.	11
VOLUSIA	I	V-6					478,913	Spoil Islands, NOT Useable. No recent survey data	**4**
	II	V-25	LIMITED		X		50,693	Long distance from ICWW.	22
	III	V-29		X			92,920	Last dredged 2008.	Built
	IV	MSA 434 & Beach		X			334,485	New Smyrna Beach. Dredging 2013.	Built & BCH
	V	V-26		X			210,578	Last dredged 2005	Built
		V-21	MODERATE		X			EAGLE'S NEST Could use V-26	8
	VI	V-22A	LIMITED		X	X	296,648	Next to ICWW. No recent survey data. Large quantity of material in Cut 46.	6

Engineer's Preliminary Priority Analysis of FIND Dredging Areas and DMMA Sites – FOR PLANNING PURPOSES ONLY!

County	Dredging Reach	DMMA	Surrounding Area Development	Built	Fenced	Cleared	2004 Survey Dredging Quantities	Comments	Priority
BREVARD	I	BV-2C		X			12,319		Built
	II	BV-4B	MODERATE		X	X	327,551	Close to ICWW. No recent survey data	12
		BV-NASA		X					Built
	III	BV-11	MODERATE		X	X	224,400	No recent survey data	**3**
	IV	BV-R	EXTENSIVE		X	X	222,778	Have to cross US 1. No recent survey data	**5**
	V	BV-40	MODERATE				272,584	Have to cross US 1 No recent survey data	16
		BV-52	MODERATE	X					Built
	VI	BV-24	LIMITED				373,770	Scrub Jays, possible County Land Exchange	10
INDIAN RIVER	I	IR-2		X			186,302	Dredging scheduled 2014.	Built
	II	IR-7	MODERATE			X	17,259	Old Orange Grove next to ICWW. Long Reach, low shoaling.	24
	III	IR-14	MODERATE			X	65,593	Next to ICWW.	18
ST. LUCIE	I	SL-2		X			25,579		Built
	II	M-8	MODERATE				43,021	Adjacent to ICWW, Homes north & south. South reach needs dredging (Including Martin Reach I).	**2**

Engineer's Preliminary Priority Analysis of FIND Dredging Areas and DMMA Sites – FOR PLANNING PURPOSES ONLY!

County	Dredging Reach	DMMA	Surrounding Area Development	Built	Fenced	Cleared	2004 Survey Dredging Quantities	Comments	Priority
MARTIN	I	M-12	EXTENSIVE		X		37,339	Scrub Jays; DMMA size reduced; requires sleeve under RR & US 1.Northern reach appears to need dredging.	26
	II	M-5		X			46,842	Last dredged 2013.	Built
	III	MSA-504B/E	MODERATE				48,492	Lots of wetlands, next to ICWW.	15
	IV	MSA-524A	LIMITED			X	22,872	Size less than 50-yr capacity.	20
OWW	I	M-5		X			9,058 Survey 2000	Last dredged 2013.	Built
	II	O-23	EXTENSIVE				7,234 Survey 2000		21
	III	O-35A	MODERATE				29,127 Survey 2000	No development to the south.	14
	IV	O-7	LIMITED				15,594 Survey 2000	Adjacent to St Lucie Lock and farm fields.	**1**
LAKE OKEECHOBEE	LAKE	LT-4A & LT-13	SEE BELOW						
	RIM CANAL East/North	LT-4A	LIMITED					Dredging appears needed.	7
	RIM CANAL West/South	LT-13	LIMITED					Dredging appears needed.	10

Engineer's Preliminary Priority Analysis of FIND Dredging Areas and DMMA Sites – FOR PLANNING PURPOSES ONLY!

County	Dredging Reach	DMMA	Surrounding Area Development	Built	Fenced	Cleared	2004 Survey Dredging Quantities	Comments	Priority
PALM BEACH	I	Beach					10,826	Jupiter Beach. Dredging scheduled 2014.	BCH
	II	MSA-610/611	EXTENSIVE				19,176	COUNTY PARK.	X
		MSA-617C	EXTENSIVE			X		Used for minor offloading.	X
	III	Peanut Island		X			34,981		Built
	IV	MSA 640	EXTENSIVE		X?	X?	120,699	Next to ICWW.	19*
		MSA 641A	EXTENSIVE	X					Built
		MSA 684A	EXTENSIVE		?			Next to ICWW.	19*
BROWARD	I	MSA 726	EXTENSIVE				20,062	Use as offload area.	X
		Beach	EXTENSIVE					Beach south of Hillsboro Inlet	BCH
	II	MSA 727	EXTENSIVE				354	Boat Ramp Facility.	X
	III	Port Everglades	EXTENSIVE				626	Port Facility, maybe temporary.	X

Engineer's Preliminary Priority Analysis of FIND Dredging Areas and DMMA Sites – FOR PLANNING PURPOSES ONLY!

County	Dredging Reach	DMMA	Surrounding Area Development	Built	Fenced	Cleared	2004 Survey Dredging Quantities	Comments	Priority
DADE	I	D-29	MODERATE				504	Next to sewage plant. Only needed with dredging required.	X
	II	Beach					16,035	Bakers Haulover Dredging scheduled 2014.	BCH
	III	D-29	MODERATE				1,321	Next to sewage plant. Only needed with dredging required.	X
	IV	D-45	LIMITED				467	Upland containment area for double handling final disposal. Only needed when area dredging required.	X
	V	D-45	LIMITED				96,619	Upland containment area for double handling final disposal. Only needed when area dredging required.	X

LEASE AGREEMENT

This LEASE AGREEMENT ("LEASE") is made and entered into this ____ day of _____, 20___, between "the Parties, the Florida Inland Navigation District ("DISTRICT"), an independent special district existing under the laws of the State of Florida, and Brance Diversified, Inc., ("LESSEE").

WITNESSETH:

WHEREAS, the DISTRICT is the owner in fee simple of a parcel of land in Duval County, Florida, designated as Dredged Material Management Area DU-8 which will be used by DISTRICT and the United States for the improvement and maintenance of the Atlantic Intracoastal Waterway from St. Marys River, Florida to the Miami Harbor, Florida and holds title for such use; and

WHEREAS, LESSEE desires to lease from the DISTRICT Dredged Material Management Area DU-8, a description of which is attached hereto as Exhibit A and made a part hereof, for dredged material management purposes subject to said rights of DISTRICT and the United States of America and to the terms and conditions of this Lease, and

WHEREAS, DISTRICT desires to collaborate with the LESSEE in the proper management of DISTRICT's property, and

WHEREAS, DISTRICT is of the opinion that such use by the LESSEE pursuant to the provisions of this agreement is in the public interest, and

WHEREAS, DISTRICT is agreeable that a lease should be executed for a limited term at a nominal rental subject to the terms and conditions stated herein.

NOW THEREFORE, in consideration of the promises and mutual covenants and agreements contained herein, the receipt and sufficiency of which is hereby acknowledged, it is agreed by the parties hereto:

1. RECITALS: The recitals contained herein above are true and correct and incorporated herein by reference.

2. LEASE: DISTRICT hereby leases to LESSEE the property hereinafter known as the "Leased Premises" as described in paragraph 4 below, subject to the terms and conditions set forth herein.

3. PROJECT MANAGEMENT: The Project Manager for the DISTRICT is its Executive Director and all correspondence and communications from the LESSEE shall be directed to him/her. The Project Manager shall be responsible for overall coordination and oversight related to the performance of this lease.

4. DESCRIPTION OF THE LEASED PREMISES: The Leased Premises which is subject to this lease, is situated in Duval County, State of Florida, as described in Exhibit A, attached hereto and made a part of this agreement.

5. EXISTING CONDITIONS: LESSEE agrees to accept the Leased Premises in as is condition subject to existing easements and deed restriction.

6. TERM: The term of this LEASE shall be for one six (6) month period. Rent shall be the total of $200.00 per month plus 0.20 cents per cubic yard of dredged material placed into the Leased Premises by LESSEE. Prepayment of the rent shall not affect in any way the DISTRICT's rights under paragraph 24 below. The LEASE period shall commence on the date of execution, and continue for a period of one (1) year. The LEASE may be extended upon written agreement by the parties and any extensions must be requested in writing at least ninety (90) days in advance.

7. PURPOSE: LESSEE shall manage the Leased Premises to provide a temporary dewatering area for approximately 7,000 cyds. of material from the dredging of the Queen's Harbor Yacht & Country Club (QHYCC).

8. QUIET ENJOYMENT AND RIGHT OF USE: LESSEE shall have the right of ingress and egress to, from, and upon the Leased Premises for all purposes that do not conflict with the DISTRICT's and the United States of America's Dredge Material Management Program.

9. UNAUTHORIZED USE: LESSEE shall, through its agents and employees, prevent the unauthorized use of the Leased Premises or any use thereof not in conformance with this LEASE.

10. ASSIGNMENT: This LEASE shall not be assigned in whole or in part without the prior written consent of DISTRICT. Any assignment made either in whole or in part without the prior written consent of DISTRICT shall be void and without legal effect; provided, however, the District acknowledges and agrees that LESSEE may utilize the services of third party LESSEE's, engineers, etc., in performance of the dredging project, and any such third party contracts for such purpose shall require the LESSEE's to abide by the terms and conditions of this Lease Agreement.

11. PLANS: The following plans will guide the development, use and management of the Leased Premises. These plans, if not already developed, will be developed in accordance with the schedule and methodology stipulated below. The LESSEE shall seek and receive written approval from the DISTRICT prior to deviating from these approved plans and shall advise the DISTRICT in writing upon discovery that it has deviated from any of the criteria or standards of this LEASE.

A. DREDGING PLAN: LESSEE shall submit a dredging plan to the DISTRICT for its approval prior to placing dredged material in the Leased Premises. This plan will include the following information: a copy of all permits issued for the dredging project; a timeline for the dredging project; an estimate of the dredging volume; a pre-dredging topographic survey of the site containment basin, pre-dredging certification performed in accordance with Exhibit C by a recognized and qualified independent third party satisfactory to the DISTRICT that no "Hazardous Substances", "Hazardous Waste", or other contaminants are present in the Leased Premises above levels which would exceed allowable levels set forth in the Environmental Laws referenced in Paragraph 26D of this LEASE or the Soil Cleanup Target Levels (Direct Exposure-residential) set forth in Chapter 62-777, F.A.C., and laboratory results of the testing of the proposed dredged material for metals, petroleum products, pesticides, and polychlorinated biphenols (PCBs)(commonly measured with chlorinated pesticides). The plan will also include the "double sleeving" of the inflow pipeline adjacent to the condominium along the pipeline route. LESSEE will also provide a bond to the DISTRICT sufficient to cover the cost of the removal of the dredged material to be

placed into the Leased Premises. The placement of dredged material into the Leased Premises shall not commence until the DISTRICT approves the dredging plan.

B. DREDGED MATERIAL DEWATERING PLAN: LESSEE shall follow the DISTRICT's Site Operational and Management Plan ("OMP"), attached hereto as Exhibit C, with respect to its use of the dredged material management area constructed by the DISTRICT. This plan shall also include a provision for post-dredging testing of the dredged material prior to its removal that will be performed in accordance with Exhibit B by a recognized and qualified independent third party satisfactory to the DISTRICT that no "Hazardous Substances", "Hazardous Waste", or other contaminants are present in the Leased Premises above levels which would exceed allowable levels set forth in the Environmental Laws referenced in Paragraph 26D of this LEASE, the pre-dredging Leased Premises testing, or the Soil Cleanup Target Levels (Direct Exposure-residential) set forth in Chapter 62-777, F.A.C.

C. DREDGED MATERIAL REMOVAL PLAN: LESSEE shall develop a dredged material removal plan within ninety (90) days of the execution of this LEASE. This plan will be submitted to the DISTRICT for, and subject to its, approval. This plan shall include provisions for a post removal topographic survey of the site containment basin. This survey along with the pre-dredging topographic survey required in the Dredging Plan will provide the basis for the final determination of the completion of dredged material removal. This plan shall also include a provision for a pre-dredging and post-removal certification performed in accordance with Exhibit B by a recognized and qualified independent third party satisfactory to the DISTRICT that no "Hazardous Substances", "Hazardous Waste", or other contaminants are present in the Leased Premises above levels which would exceed allowable levels set forth in the Environmental Laws referenced in Paragraph 26D of this LEASE, the pre-dredging Leased Premises testing, or the Soil Cleanup Target Levels (Direct Exposure-residential) set forth in Chapter 62-777, F.A.C.

12. EASEMENTS: All easements to be granted by LESSEE including, but not limited to, utility easements are expressly prohibited without the prior written

approval of DISTRICT. Any easement not approved in writing by DISTRICT shall be void and without legal effect.

13. SUBLEASES: This LEASE is for the purposes specified herein, and subleases of any nature are prohibited without the prior written approval of DISTRICT. Any sublease not approved in writing by DISTRICT shall be void and without legal effect.

14. RIGHT OF INSPECTION: DISTRICT or its duly authorized agents, representatives or employees shall have the right at any and all times to inspect the Leased Premises and the works and operations of LESSEE in any matter pertaining to this LEASE.

15. PLACEMENT AND REMOVAL OF IMPROVEMENTS: Any structures, improvements or signs constructed by LESSEE in accordance with a plan approved by the DISTRICT shall be removed by LESSEE at the termination of this LEASE. No trees, other than non-native species, shall be removed or major land alterations done without the prior written approval of DISTRICT. Removable equipment and removable improvements placed on the Leased Premises by LESSEE which do not become a permanent part of the Leased Premises will remain the property of LESSEE and may be removed by LESSEE upon termination of this LEASE, pursuant to Paragraph 26 below.

16. INSURANCE BY LESSEE: In consideration for the privilege herein granted, LESSEE shall not claim any damages from the DISTRICT in connection with or on account of, and as between the parties shall be solely responsible for, any injuries or damages arising in or on the Leased Premises while being used by LESSEE and its agents, representatives, and employees. The DISTRICT does not warrant or represent that the Lease Premises are safe or suitable for the purpose for which LESSEE is permitted to use it, and LESSEE assumes all risks in its use. LESSEE, and any contractors and sub-contractors utilized by LESSEE pursuant to this LEASE, shall have commercial general liability insurance in the amount of not less than two million dollars ($2,000,000.00) per occurrence and in aggregate and shall name DISTRICT and the U.S.

Army Corps of Engineers as additional insureds on such policy or policies. Workers' Compensation and Employer's Liability Insurance shall be provided as required by law or regulation (statutory requirements). Employer's Liability insurance shall be provided in amounts not less than $1,000,000 per accident for bodily injury by accident; $1,000,000 policy limit by disease; and $1,000,000 per employee for bodily injury by disease. LESSEE shall also provide for not less than thirty (30) days' prior written notice to DISTRICT in the event of cancellation thereof. LESSEE, prior to entering upon the subject Premises, shall provide to DISTRICT copies of said insurance policies or certificates of insurance showing conformity with this provision. LESSEE shall provide and keep in force such other insurance and in such amount as may from time to time be required by DISTRICT against such other insurable hazards as at the time are commonly insured against in the case of other premises similarly situated or similarly utilized.

It is specifically understood and agreed that in no event shall DISTRICT or any interest of DISTRICT in the Subject Premises or any portion thereof be liable for or subject to any construction lien or liens for improvements or work made by or for LESSEE; and this Agreement specifically prohibits the subjecting of DISTRICT's interest in the Subject Premises or any portion to any construction lien or liens for improvements made by LESSEE which LESSEE is responsible for payment under the terms of this Agreement. All persons dealing with LESSEE are hereby placed upon notice of this provision. All memoranda and short forms of this agreement which shall be recorded among any public records shall contain the provisions set forth above in this paragraph; provided, however, nothing contained in this sentence shall permit or authorize the recording of and memorandum or short form of this Agreement other than by DISTRICT.

17. ADDITIONAL INSURANCE: LESSEE shall require any third party contractors, engineers, consultants, etc., to maintain insurance in the amounts and types indicated above and shall furnish the DISTRICT copies of the Certificates of Insurance.

18. PAYMENT OF TAXES AND ASSESSMENTS: LESSEE shall assume full responsibility for and shall pay all liabilities that accrue to the Leased

Premises and/or to the improvements thereon, including any and all ad-valorem taxes and drainage and special assessments or taxes of every kind and all construction liens which may be hereafter lawfully assessed and levied against the Leased Premises, resulting from LESSEE use of the Lease Premises for the purposes provided for herein.

19. NO WAIVER OF BREACH: The failure of DISTRICT to insist in any one or more instances upon strict performance of any one or more of the convenants, terms and conditions of this LEASE shall not be construed as a waiver of such covenants, terms or conditions, but the same shall continue in full force and effect, and no waiver of DISTRICT of any of the provisions hereof shall in any event be deemed to have been made unless the waiver is set forth in writing and signed by DISTRICT.

20. NON-DISCRIMINATION: LESSEE shall assure and certify that it will comply with Title IV of the Civil Rights ACT of 1964 (PL 88-352) as amended and, in accordance with that Act, shall not discriminate against any individual's race, color, creed, sex, national origin, age, handicap, or marital status with respect to any activity occurring within the Leased Premises or upon lands adjacent to and used as an adjunct of the Leased Premises.

21. UTILITY FEES: LESSEE shall be responsible for payment of all charges for the furnishing of gas, electricity, water and other public utilities to the Leased Premises, if needed by LESSEE, and for having the utilities turned off when the Leased Premises are surrendered.

22. COMPLIANCE WITH LAWS: LESSEE agrees that this LEASE is contingent upon and subject to LESSEE obtaining all applicable permits and complying with all applicable permits, regulations, ordinances, rules and laws of the State of Florida or the United States or of any political subdivision or agency of either.

23. NOTICE: All notices given under this LEASE shall be in writing and shall be served by certified mail to the last address of the party to whom notice is to be given, as designated by such party in writing. DISTRICT and LESSEE hereby designate their address as follows:

TO DISTRICT: Florida Inland Navigation District
1314 Marcinski Road
Jupiter, Florida 33477
Attn: Executive Director

TO LESSEE: Brance Diversified, Inc.
14664 Diamond Ranch Lane
Jacksonville, Fl. 32234
Attn: President

Copies of all Notices shall also be delivered to the DISTRICT'S Project Manager.

24. BREACH OF COVENANTS, TERMS OR CONDITIONS: Should LESSEE breach any of the convenants, terms, or conditions of this LEASE, DISTRICT shall give written notice to LESSEE to remedy such breach within thirty (30) days of such notice. In the event LESSEE fails to remedy the breach to the satisfaction of DISTRICT within thirty (30) days of receipt of written notice, or longer period if it is not capable of being cured within 30 days but LESSEE has commenced the cure, DISTRICT may either terminate this LEASE and recover from LESSEE all damages DISTRICT may incur by reason of the breach including, but not limited to, the cost of recovering the Leased Premises and attorney's fees; or maintain this LEASE in full force and effect and exercise all rights and remedies herein conferred upon DISTRICT.

25. DAMAGE TO THE PREMISES: LESSEE agrees that it will not do, or cause to be done, in, on, or upon the Leased Premises or as affecting said Leased Premises, any act which may result in damage or depreciation of value to the Leased Premises, or any part thereof.

26. HAZARDOUS MATERIALS: LESSEE agrees that, during the term of this lease, it:

A. Shall keep or cause the Leased Premises to be kept free of hazardous wastes or substances.

B. Shall not cause or permit, as a result of any intentional or unintentional act or omission on the part of LESSEE or any assignees, a release of hazardous wastes or substances onto the Leased Premises.

C. Shall comply with and ensure compliance by its employees and all others under its direction with all applicable federal, state, and local laws, ordinances, rules, and regulations.

D. The terms "hazardous waste", "hazardous substance", "disposal", "release", and "threatened release", if used in this lease, shall have the same meaning as set forth in the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended, 42 U.S.C. Section 9601, et seq. (CERCLA"), the Superfund Amendments and Reauthorization Act of 1986, Pub. L. No. 99-499 ("SARA"), the Hazardous Materials Transportation Act, 49 U.S.C. Section 1801, et seq., the Resource Conservation and recovery Act, 49 U.S.C. Section 6901 et seq., the Florida Resource and Management Act, Chapter 403, Florida Statutes, the Pollution, Spill, Prevention, and Control Act, Chapter 376, Florida Statutes, or any other applicable state or federal laws, rules, or regulations adopted pursuant to any of the foregoing.

E. Shall immediately provide DISTRICT with notice of any release or threatened release of hazardous waste within the Leased Premise, and shall immediately provide DISTRICT with notice of any injury or action taken by any local, state, or federal governmental body with respect to hazardous waste within the Leased Premises.

F. Shall remove any hazardous waste or hazardous substances which exceed allowable levels in the ground or the groundwater within the Leased Premises, arising from LESSEE' use of the Leased Premises.

27. BOND. LESSEE shall, simultaneously with the execution of this LEASE, provide to the DISTRICT a performance bond in the amount of $300,000.00, written through a reputable and responsible surety bond agency licensed to do business in the State of Florida and reasonably acceptable to the DISTRICT. Said performance bond shall secure all obligations of LESSEE under this LEASE, including but not limited to the requirements of Section 28, and shall be in form and content reasonably acceptable to the DISTRICT.

28. SURRENDER OF PREMISES: Upon termination or expiration of this LEASE, LESSEE, shall surrender the Leased Premises to DISTRICT. If the LESSEE

has not completed the removal of all of the dredged material that it placed into the site, the DISTRICT at its sole determination can decide to extend the LEASE so that the LESSEE can complete the dredged material removal or require the LESSEE to make payment to the DISTRICT in the amount of twenty dollars ($20.00) per cubic yard for the dredged material to be left in the Leased Premises. The amount of dredged material left in the site shall be determined by the survey required in paragraph 11C. The DISTRICT will then remove the material itself at a later date.

Upon termination or expiration of this LEASE, all structures permanently affixed to the land and all improvements made will become the property of the DISTRICT, provided, however, that if any structures are such, in the DISTRICT'S determination, that they can be moved without harm to the area where situated then the LESSEE may, within thirty (30) days following termination of the LEASE, remove the same. Upon final termination, the property must be left in essentially the same condition as when it was first leased to the LESSEE, save for ordinary wear and tear, unless otherwise approved in writing by the DISTRICT. The parties agree that LESSEE shall be solely responsible for removal of any dredged material it places on the Leased premises and such obligation shall continue after the termination of this LEASE, for whatever reason. Anytime after termination of this LEASE, if LESSEE has not removed any dredged material that is placed on the Leased Premises, the DISTRICT shall have the right, but not the obligation, to remove such dredged material at the sole cost and expense of LESSEE and, in that event, LESSEE shall, within thirty (3) days of receipt of an invoice for such removal cost, pay such cost to DISTRICT or the District will seek to use the bond for payment.

29. PROHIBITIONS AGAINST LIENS OR OTHER ENCUMBRANCES:

Fee title to the Leased Premises is held by DISTRICT. LESSEE shall not do or permit anything to be done which purports to create a lien or encumbrance of any nature against the real property contained in the Leased Premises including, but not limited to, mortgages or construction liens against the Leased Premises or against any interest of DISTRICT therein.

30. PARTIAL INVALIDITY: If any term, covenant, condition or provision of this LEASE shall be ruled by a court of competent jurisdiction to be invalid, void, or unenforceable, the remainder of the provisions shall remain in full force and effect and shall in no way be affected, impaired or invalidated.

31. DUPLICATE ORIGINALS: This LEASE is executed in duplicate originals, each of which shall be considered an original for all purposes.

32. ENTIRE UNDERSTANDING: This LEASE sets forth the entire understanding between the Parties and shall only be amended with the prior written approval of the Parties.

33. MAINTENANCE OF IMPROVEMENTS: LESSEE shall maintain the real property contained within the Leased Premises and the improvements located thereon in a state of good condition, working order and repair including, but not limited to, keeping the Leased Premises free of trash or litter, meeting all building and safety codes in the location situated, and maintaining the planned improvements as set forth in the District's Operational Management Plan. As may be mutually agreed to by the Parties, any removal, closure, etc., of the above improvements shall be acceptable when the proposed activity is consistent with the goals of conservation, protection, and enhancement of the natural and historical resources within the Leased Premises and with the approved plans.

34. GOVERNING LAW: This LEASE shall be governed by and interpreted according to the laws of the State of Florida.

35. SECTION CAPTIONS: Articles, subsection and other captioned contained in this LEASE are for reference purposes only and are in no way intended to describe, interpret, define or limit the scope or extent of intent of this LEASE or any provisions thereof.

36. ATTORNEY'S FEES: In the event of any litigation arising out of or resulting from this LEASE, the venue of such litigation shall be had only in the state courts in Palm Beach County, Florida. The prevailing party in such litigation shall be

entitled to its costs and reasonable attorney's fees (at trial, appellate, and post-judgment proceeding levels).

IN WITNESS WHEREOF, the parties have caused this LEASE to be executed on the day and year first written above.

LESSEE

BY: _____ BY: _____
Its _____

APPROVED:

BY: _____

ATTEST:

BOARD OF COMMISSIONERS OF THE
FLORIDA INLAND NAVIGATION DISTRICT

BY: _____ BY: _____
Chairman

LEGAL FORM APPROVED
DISTRICT COUNSEL

BY: _____

Florida Department of Environmental Protection
Northeast District
7777 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

October 2, 2012

Queen's Harbour Yacht and Country Club
c/o Gary Howalt
Environmental Services, Inc.
7220 Financial Way, Suite 100
Jacksonville, Florida 32256

DEP File No.: 16-128175-010-EE

Dear Mr. Howalt:

On September 18, 2012, we received your application to perform the following activities:

To perform maintenance dredging on a manmade channel and an access channel totaling approximately 6,158 cubic yards of material to be removed from a tributary of Pablo Creek (Intracoastal Waterway), a Class III waterbody, not within an Outstanding Florida Waterbody, not within an aquatic preserve, located adjacent to Queens Harbor Boulevard, Section 37, Township 2 South, Range 28 East, Duval County. The severed dredge material shall be deposited on Bartram Island.

Your application has been reviewed to determine whether it qualifies for (1) regulatory authorization, (2) any required authorization to use state-owned (sovereign) submerged lands owned by the State of Florida, and (3) the State Programmatic General Permit (SPGP).

1. Regulatory Review – EXEMPTION VERIFIED

Based on the information submitted, the Department has determined that the maintenance dredging is exempt, under Section 403.813(1)(f), Florida Statutes, from the need to obtain a regulatory permit under Part IV of Chapter 373 of the Florida Statutes. This determination is made because the activity, in consideration of its type, size, nature, location, use, and operation, is expected to have only minimal or insignificant individual or cumulative adverse impacts on the water resources.

This exemption verification is based on the information you provided the Department and the statutes and rules in effect when the information was submitted. This verification will expire after one year, and will not be valid at any other time if site conditions materially change, the project design is modified, or the statutes or rules governing the exempt activity are amended. However, the activity may still be conducted without further notification to or verification from the Department after the one-year expiration of this verification, provided: 1) the project design does not change; 2) site conditions do not materially change; and 3) there are no changes to the statutes or rules governing the exempt activity. In the event you need to re-verify the exempt status for the activity after the one-year expiration of this verification, a new application and verification fee will be required. Any substantial modifications to the project design should be submitted to the Department for review, as changes may result in a permit being required. Conditions of compliance with the regulatory exemption are contained in Attachment A.

2. Authorization to use state-owned (sovereign) submerged lands – Granted

The Department acts as staff to the Board of Trustees of the Internal Improvement Trust Fund (Board of Trustees) and issues certain authorizations for the use of sovereign submerged lands. The Department has the authority to review activities on sovereign submerged lands under Chapters 253 and 258 of the Florida Statutes, and Chapters 18-20 and 18-21 of the Florida Administrative Code.

The activity appears to be located on sovereign submerged lands owned by the Board of Trustees. The activity is not exempt from the need to obtain the applicable proprietary authorization. As staff to the Board of Trustees, the Department has reviewed the activity described above, and has determined that the activity qualifies for an automatic consent of use by rule under Rule 18-21.005(1)(b) and Section 253.77 of the Florida Statutes to construct and use the activity on the specified sovereign submerged lands, as long as the work performed is located within the boundaries as described herein, as described in Sovereignty Submerged Land Easement No. 0025(3837-16) and is consistent with the terms and conditions herein. No further application is required for this consent of use.

3. SPGP Review – Granted

Your project has been reviewed for compliance with a State Programmatic General Permit (SPGP). Your proposed activity as outlined on the attached drawings is in compliance with the SPGP program. U.S. Army Corps of Engineers (Corps) specific conditions apply to your project, attached. **No further permitting for this activity is required by the Corps.** The authority granted under this SPGP expires July 25, 2016. Your project must be completed prior to this expiration date.

In the event of the transfer of ownership of the property by sale or by any other means, when the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. Although the construction period for works authorized by Department of the Army permits is finite, the permit itself, with its limitations, does not expire. To validate the transfer of this permit and the associated responsibilities associated with compliance with its terms and conditions, the attached transfer of permit request must be completed and submitted to the Department at the time of transfer of ownership.

Authority for review - an agreement with the U.S. Army Corps of Engineers entitled Coordination Agreement between the U. S. Army Corps of Engineers (Jacksonville District) and the Florida Department of Environmental Protection State Programmatic General Permit, Section 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act".

General Conditions for State-Owned Submerged Land Authorizations:

(a) Authorizations are valid only for the specified activity or use. Any unauthorized deviation from the specified activity or use and the conditions for undertaking that activity or use shall constitute a violation. Violation of the authorization shall result in suspension or revocation of the grantee's use of the sovereignty submerged land unless cured to the satisfaction of the Board.

(b) Authorizations convey no title to sovereignty submerged land or water column, nor do they constitute recognition or acknowledgment of any other person's title to such land or water.

(c) Authorizations may be modified, suspended or revoked in accordance with their terms or the remedies provided in Sections 253.04 and 258.46, F.S., or Chapter 18-14, F.A.C.

(d) Structures or activities shall be constructed and used to avoid or minimize adverse impacts to sovereignty submerged lands and resources.

(e) Construction, use, or operation of the structure or activity shall not adversely affect any species which is endangered, threatened or of special concern, as listed in Rules 68A-27.003, 68A-27.004, and 68A-27.005, F.A.C.

(f) Structures or activities shall not unreasonably interfere with riparian rights. When a court of competent jurisdiction determines that riparian rights have been unlawfully affected, the structure or activity shall be modified in accordance with the court's decision.

(g) Structures or activities shall not create a navigational hazard.

(h) Structures shall be maintained in a functional condition and shall be repaired or removed if they become dilapidated to such an extent that they are no longer functional. This shall not be construed to prohibit the repair or replacement subject to the provisions of Rule 18-21.005, F.A.C., within one year, of a structure damaged in a discrete event such as a storm, flood, accident, or fire.

(i) Structures or activities shall be constructed, operated, and maintained solely for water dependent purposes, or for non-water dependent activities authorized under Paragraph 18-21.004(1)(f), F.A.C., or any other applicable law.

Additional Information

This letter does not relieve you from the responsibility of obtaining other federal, state, or local authorizations that may be required for the activity.

Please retain this letter. The activities may be inspected by authorized state personnel in the future to ensure compliance with appropriate statutes and administrative codes. If the activities are not in compliance, you may be subject to penalties under Chapter 373, F.S. and Chapter 18-14, F.A.C.

NOTICE OF RIGHTS

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice.

Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rule 28-106.201, F.A.C., a petition for an administrative hearing must contain the following information:

(a) The name and address of each agency affected and each agency's file or identification number, if known;
(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests are or will be affected by the agency determination;
(c) A statement of when and how the petitioner received notice of the agency decision;
(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
(e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
(f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
(g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant must be filed within 14 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the notice or within 14 days of receipt of the written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who has asked the Department for notice of agency action may file a petition within 14 days of receipt of such notice, regardless of the date of publication. The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, before the applicable deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation

Mediation is not available in this proceeding.

Judicial Review

Any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, M.S. 35, Tallahassee, Florida 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this action is filed with the Clerk of the Department.

Thank you for applying to the Submerged Lands and Environmental Resource Permit Program. If you have any questions regarding this matter, please contact Kristen Bell at (904) 256-1656 or at her e-mail address at Kristen.Bell@dep.state.fl.us.

Executed in Duval County, Florida.

Sincerely,

James R Maher

for
Connie Webel
Environmental Manager

KB/lb

Enclosures: Attachment A Section 403.813(1)(f), F.S.
Project Drawings, 1 page
General Conditions for Federal Authorization for SPGP IV-R1
Standard Manatee Conditions & Awareness Signs

Attachment A

403.813 Permits issued at district centers; exceptions.—

(1) A permit is not required under this chapter, chapter 373, chapter 61-691, Laws of Florida, or chapter 25214 or chapter 25270, 1949, Laws of Florida, for activities associated with the following types of projects; however, except as otherwise provided in this subsection, nothing in this subsection relieves an applicant from any requirement to obtain permission to use or occupy lands owned by the Board of Trustees of the Internal Improvement Trust Fund or any water management district in its governmental or proprietary capacity or from complying with applicable local pollution control programs authorized under this chapter or other requirements of county and municipal governments:

(f) The performance of maintenance dredging of existing manmade canals, channels, intake and discharge structures, and previously dredged portions of natural water bodies within drainage rights-of-way or drainage easements which have been recorded in the public records of the county, where the spoil material is to be removed and deposited on a self-contained, upland spoil site which will prevent the escape of the spoil material into the waters of the state, provided that no more dredging is to be performed than is necessary to restore the canals, channels, and intake and discharge structures, and previously dredged portions of natural water bodies, to original design specifications or configurations, provided that the work is conducted in compliance with s. 379.2431(2)(d), provided that no significant impacts occur to previously undisturbed natural areas, and provided that control devices for return flow and best management practices for erosion and sediment control are utilized to prevent bank erosion and scouring and to prevent turbidity, dredged material, and toxic or deleterious substances from discharging into adjacent waters during maintenance dredging. Further, for maintenance dredging of previously dredged portions of natural water bodies within recorded drainage rights-of-way or drainage easements, an entity that seeks an exemption must notify the department or water management district, as applicable, at least 30 days prior to dredging and provide documentation of original design specifications or configurations where such exist. This exemption applies to all canals and previously dredged portions of natural water bodies within recorded drainage rights-of-way or drainage easements constructed prior to April 3, 1970, and to those canals and previously dredged portions of natural water bodies constructed on or after April 3, 1970, pursuant to all necessary state permits. This exemption does not apply to the removal of a natural or manmade barrier separating a canal or canal system from adjacent waters. When no previous permit has been issued by the Board of Trustees of the Internal Improvement Trust Fund or the United States Army Corps of Engineers for construction or maintenance dredging of the existing manmade canal or intake or discharge structure, such maintenance dredging shall be limited to a depth of no more than 5 feet below mean low water. The Board of Trustees of the Internal Improvement Trust Fund may fix and recover from the permittee an amount equal to the difference between the fair market value and the actual cost of the maintenance dredging for material removed during such maintenance dredging. However, no charge shall be exacted by the state for material removed during such maintenance dredging by a public port authority. The removing party may subsequently sell such material; however, proceeds from such sale that exceed the costs of maintenance dredging shall be remitted to the state and deposited in the Internal Improvement Trust Fund.

GENERAL CONDITIONS FOR FEDERAL AUTHORIZATION FOR SPGP IV-R1

1. The time limit for completing the work authorized ends on July 25, 2016.

2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature and mailing address of the new owner in the space provided below and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit.

6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Further Information:

1. Limits of this authorization.

   a. This permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.

   b. This permit does not grant any property rights or exclusive privileges.

   c. This permit does not authorize any injury to the property or rights of others.

   d. This permit does not authorize interference with any existing or proposed Federal projects.

2. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

   a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

   b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

   c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

d. Design or Construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

3. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

4. Reevaluation of Permit Decision: This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (see 3 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

5. Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CER 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

_____ _____

(TRANSFEREE-SIGNATURE) (DATE)

_____

(NAME-PRINTED)

_____

(ADDRESS)

STANDARD MANATEE CONDITIONS FOR IN-WATER WORK
2011

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.

b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.

c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.

d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.

e. Any collision with or injury to a manatee shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or Vero Beach (1-772-562-3909) for south Florida, and to FWC at ImperiledSpecies@myFWC.com

f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Temporary signs that have already been approved for this use by the FWC must be used. One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 8 ½" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. These signs can be viewed at MyFWC.com/manatee. Questions concerning these signs can be sent to the email address listed above.

CAUTION: MANATEE HABITAT

All project vessels

IDLE SPEED / NO WAKE

When a manatee is within 50 feet of work all in-water activities must

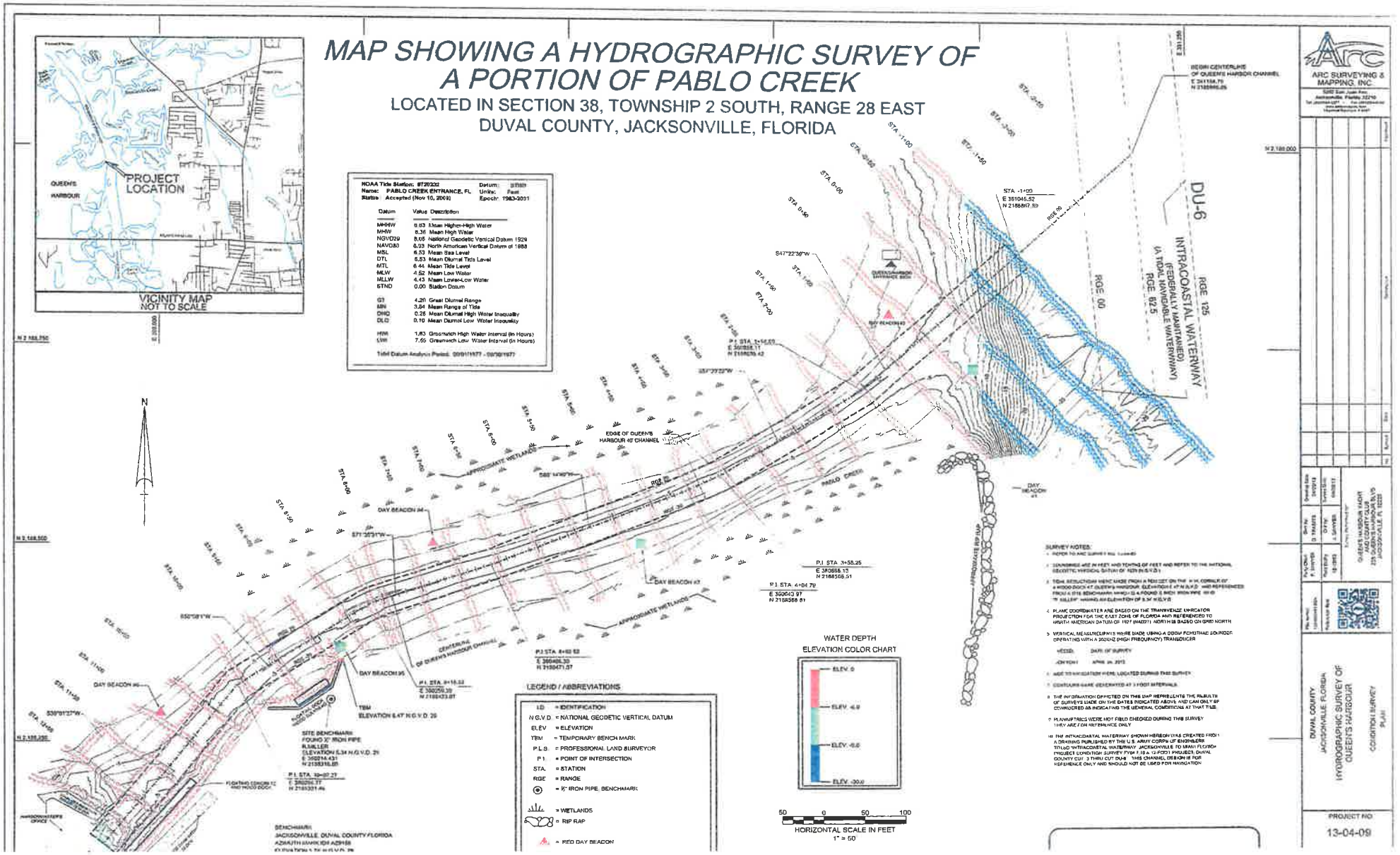
SHUT DOWN

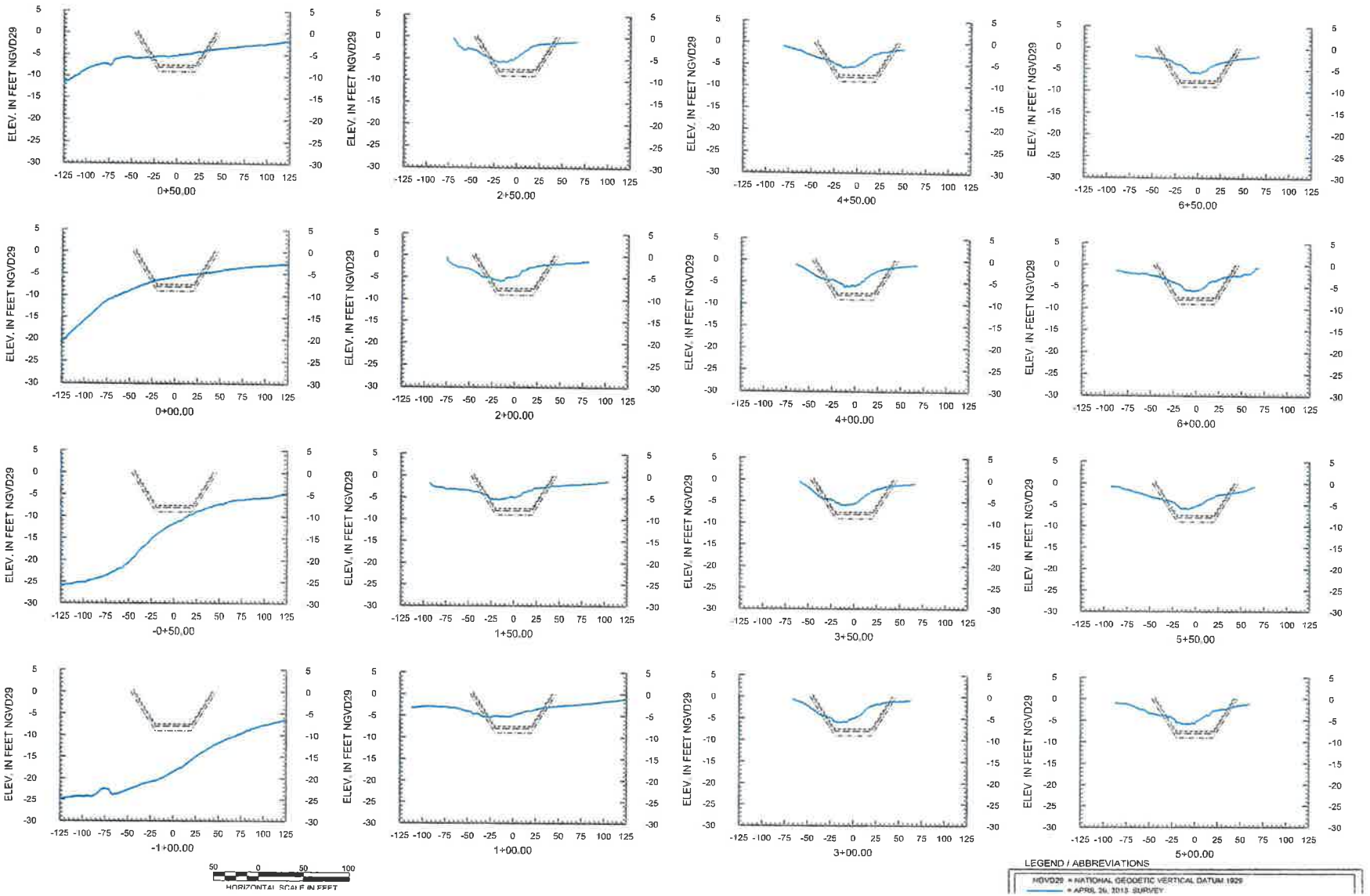
Report any collision with or injury to a manatee:

Wildlife Alert:

1-888-404-FWCC(3922)

cell *FWC or #FWC


MAP SHOWING A HYDROGRAPHIC SURVEY OF A PORTION OF PABLO CREEK
LOCATED IN SECTION 38, TOWNSHIP 2 SOUTH, RANGE 28 EAST
DUVAL COUNTY, JACKSONVILLE, FLORIDA
VICINITY MAP
NOT TO SCALE
PROJECT LOCATION
QUEENS HARBOUR
NOAA Tide Station: 8720202
Name: PABLO CREEK ENTRANCE, FL
Status: Accepted (Nov 10, 2009)
Datum: STND
Units: Feet
Epoch: 1983-2001
Datum Value Description
MHHW 6.83 Mean Higher-High Water
MHW 6.36 Mean High Water
NGVD29 5.05 National Geodetic Vertical Datum 1929
NAVD88 5.03 North American Vertical Datum of 1988
MSL 5.53 Mean Sea Level
DTL 5.53 Mean Diurnal Tide Level
MTL 5.44 Mean Tide Level
MLW 4.52 Mean Low Water
MLLW 4.43 Mean Lower-Low Water
STND 0.00 Station Datum
GT 4.20 Great Diurnal Range
MN 3.84 Mean Range of Tide
DHQ 0.26 Mean Diurnal High Water Inequality
DLQ 0.10 Mean Diurnal Low Water Inequality
HWI 1.83 Greenwich High Water Interval (in Hours)
LWI 7.55 Greenwich Low Water Interval (in Hours)
Tidal Datum Analysis Period: 09/01/1977 - 09/30/1977
DU-6
INTRACOASTAL WATERWAY
(FEDERALLY MAINTAINED)
(A TIDAL NAVIGABLE WATERWAY)
RGE 125
RGE 82.5
RGE 80
RGE 90
BEGIN CENTERLINE OF QUEENS HARBOUR CHANNEL
E 361154.79
N 2188980.85
STA -1+00
E 361045.52
N 2188887.89
EDGE OF QUEENS HARBOUR 40' CHANNEL
APPROXIMATE WETLANDS
PABLO CREEK
DAY BEACON #4
DAY BEACON #5
DAY BEACON #6
DAY BEACON #7
DAY BEACON #8
APPROXIMATE RIP RAP
P.I. STA. 3+58.25
E 360858.13
N 2188568.51
P.I. STA. 4+04.79
E 360642.97
N 2188568.81
P.I. STA. 8+62.52
E 360406.30
N 2188471.57
P.I. STA. 10+18.53
E 360258.39
N 2188433.87
P.I. STA. 10+87.27
E 360206.57
N 2188331.46
TBM
ELEVATION 6.47 N.G.V.D. 29
SITE BENCHMARK
FOUND 3" IRON PIPE
R.MILLER
ELEVATION 6.34 N.G.V.D. 29
E 360214.431
N 2188316.881
BENCHMARK
JACKSONVILLE, DUVAL COUNTY FLORIDA
AZIMUTH MARK (DF ADHS8
LEGEND / ABBREVIATIONS
I.D. = IDENTIFICATION
N.G.V.D. = NATIONAL GEODETIC VERTICAL DATUM
ELEV. = ELEVATION
TBM = TEMPORARY BENCH MARK
P.L.S. = PROFESSIONAL LAND SURVEYOR
P.I. = POINT OF INTERSECTION
STA. = STATION
RGE = RANGE
= ½" IRON PIPE, BENCHMARK
= WETLANDS
= RIP RAP
= RED DAY BEACON
WATER DEPTH
ELEVATION COLOR CHART
ELEV. 0
ELEV. -6.0
ELEV. -10.0
ELEV. -30.0
50 0 50 100
HORIZONTAL SCALE IN FEET
1" = 50
SURVEY NOTES:
1. REFER TO ARC SURVEY NO. 13-04-09
2. SOUNDINGS ARE IN FEET AND TENTHS OF FEET AND REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (N.G.V.D.)
3. TIDAL REDUCTIONS WERE MADE FROM A BENCH MARK ON THE S.W. CORNER OF A WOOD DOCK AT QUEENS HARBOUR. ELEVATIONS ARE IN N.G.V.D. AND REFERENCED FROM A STD. BENCHMARK WHICH IS A FOUND 3 INCH IRON PIPE STAMPED "R MILLER" HAVING AN ELEVATION OF 6.34' N.G.V.D.
4. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1927 (NAD27). NORTH IS BASED ON GRID NORTH
5. VERTICAL MEASUREMENTS WERE MADE USING A 200KHZ ECHOTHAC SOUNDER OPERATING WITH A 200KHZ (HIGH FREQUENCY) TRANSDUCER
VESSEL: DATE OF SURVEY
CONTROL: APRIL 24, 2013
6. ARC TO NAVIGATION WERE LOCATED DURING THIS SURVEY
7. CONTOURS WERE GENERATED AT 1.0 FOOT INTERVALS
8. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME.
9. PLANIMETRICS WERE NOT FIELD CHECKED DURING THIS SURVEY THEY ARE FOR REFERENCE ONLY
10. THE INTRACOASTAL WATERWAY SHOWN HEREON WAS CREATED FROM A DRAWING PUBLISHED BY THE U.S. ARMY CORPS OF ENGINEERS TITLED INTRACOASTAL WATERWAY JACKSONVILLE TO MIAMI FLORIDA PROJECT CONDITION SURVEY PUM 1 10 & 12 FOOT PROJECT, DUVAL COUNTY CUT 3 THRU CUT DU-6. THIS CHANNEL DESIGN IS FOR REFERENCE ONLY AND SHOULD NOT BE USED FOR NAVIGATION
ARC SURVEYING & MAPPING, INC.
DUVAL COUNTY
JACKSONVILLE, FLORIDA
HYDROGRAPHIC SURVEY OF
QUEEN'S HARBOUR
CONDITION SURVEY
PLAN
PROJECT NO
13-04-09

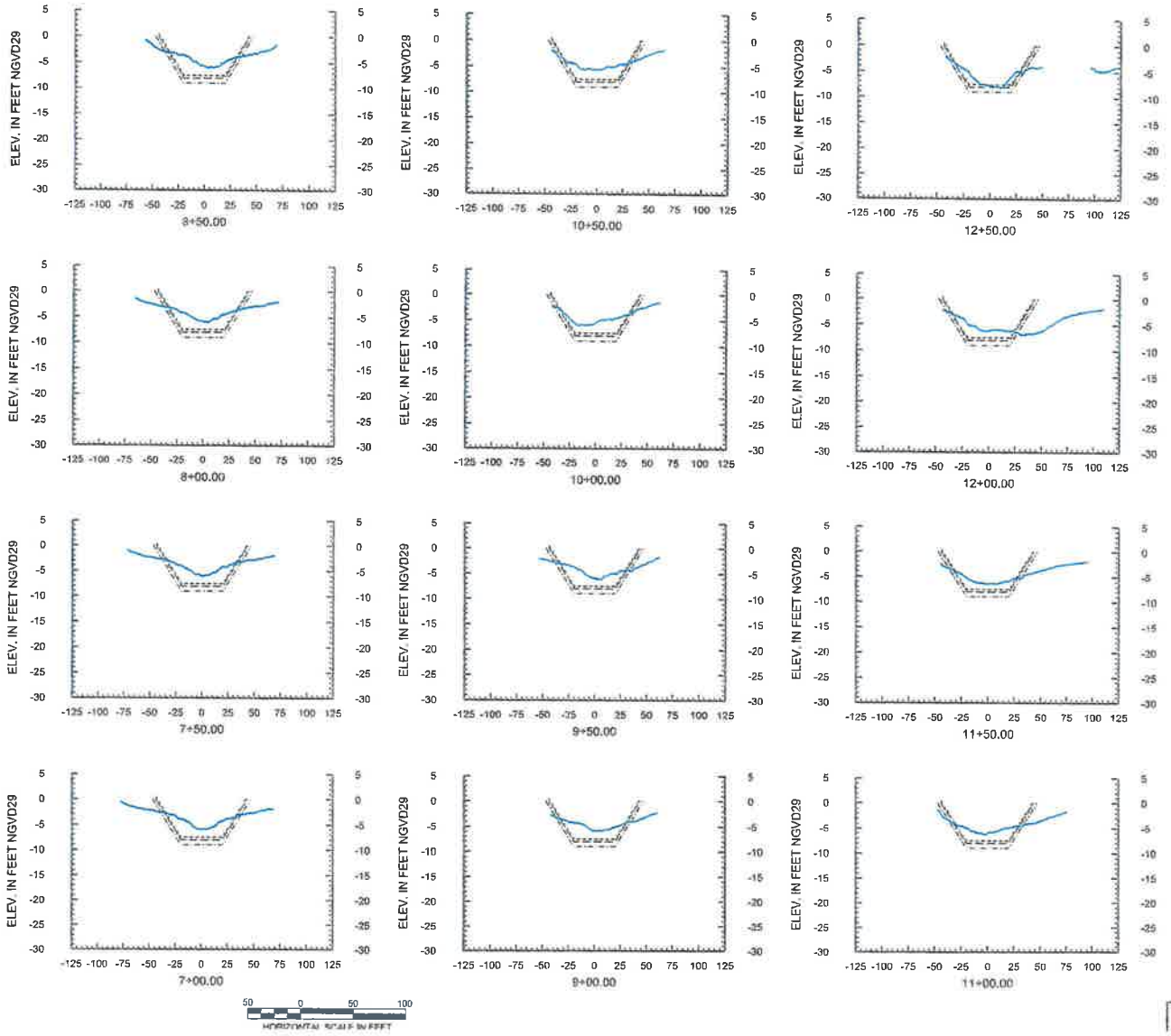


ARC SURVEYING & MAPPING, INC.

DUVAL COUNTY
JACKSONVILLE, FLORIDA
HYDROGRAPHIC SURVEY OF
QUEEN'S HARBOUR

CONDITION SURVEY
CROSS-SECTIONS

PROJECT NO.
13-04-09



LEGEND / ABBREVIATIONS

NGVD29 = NATIONAL GEODETIC VERTICAL DATUM 1929

= APRIL 26, 2013 SURVEY

ARC SURVEYING & MAPPING, INC.

DUVAL COUNTY
JACKSONVILLE, FLORIDA
HYDROGRAPHIC SURVEY OF
QUEENS HARBOUR

CONDITION SURVEY
CROSS-SECTIONS

PROJECT NO
13-04-09

ENVIRONMENTAL SERVICES, INC.
7220 Financial Way
Suite 100
Jacksonville, Florida 32256
904-470-2200 / Facsimile 904-470-2112
www.environmentalservicesinc.com

MEMORANDUM

TO: David Cawton, QHYCC

FROM: Gary Howalt

DATE: 26 October 2012

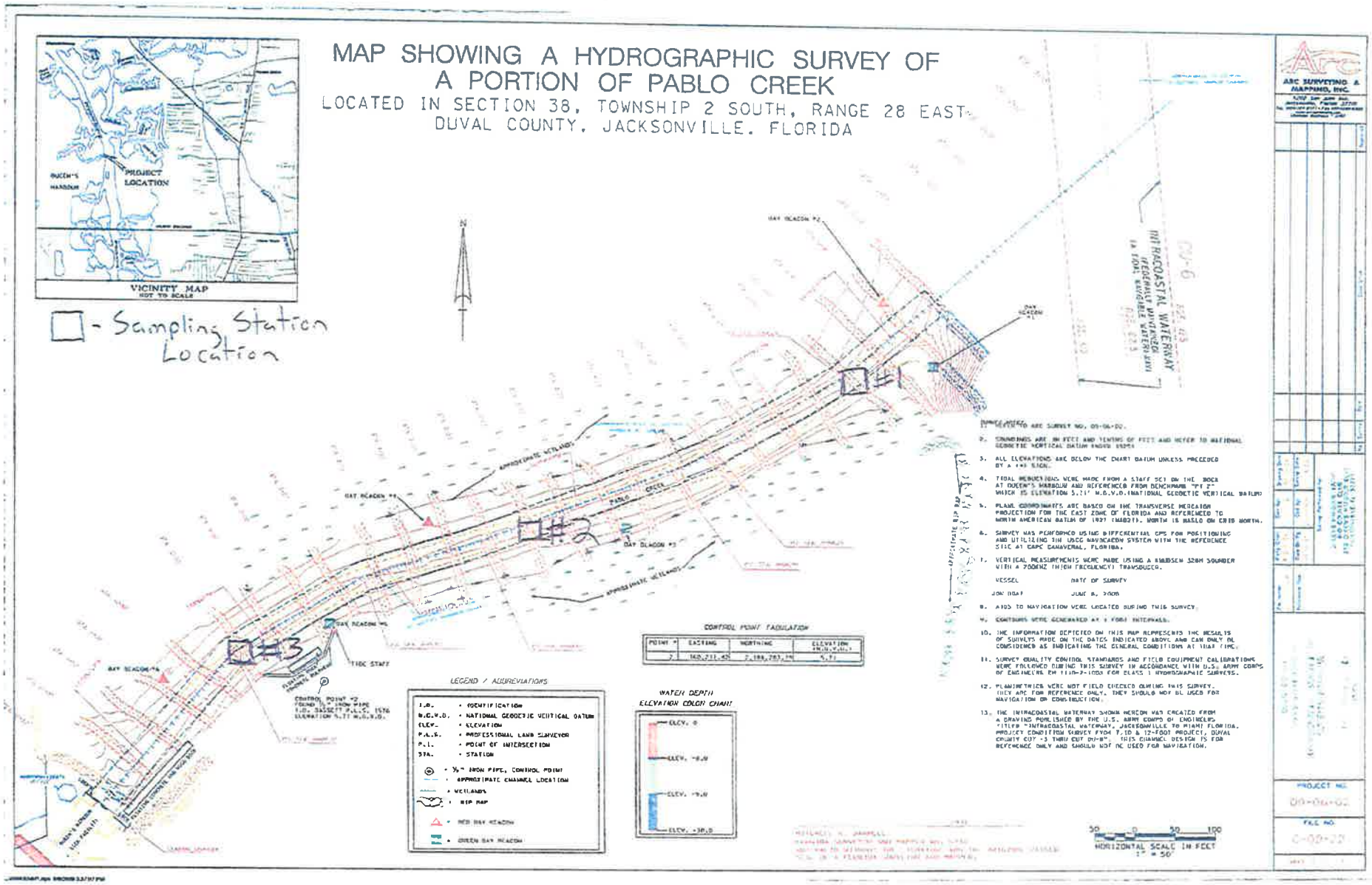
RE: **Sediment Analysis for QHYCC proposed dredge site**

Per your request, Environmental Services, Inc. (ESI) has performed the sediment analysis for the proposed dredge area at Queen's Harbour Yacht and Country Club (QHYCC). More specifically, the proposed dredge sediments were analyzed for the potential presence of Priority Pollutant Metals and Polyaromatic Hydrocarbons. This analysis was performed to assess the potential contamination of the soil and its leachability potential to adversely affect the surface waters of the Intracoastal Waterway (ICW) during the proposed conventional dredging and disposal practices. Environmental Services, Inc. contracted TestAmerica Laboratories, Inc., a fully certified sub-contract laboratory, to perform the necessary chemical analyses, utilizing the approved US-EPA methodology. All samples were collected and analyzed within the necessary hold times recommended by Florida Department of Environmental Protection's (FDEP) Standard Operating Procedures.

The following analytical reports provide the information you requested, indicating that all parameters tested were below the FDEP Commercial/Industrial regulatory limits, and therefore, the potential for contaminant leaching into surrounding surface waters (or groundwater) is very low. Since no concentrations were above the direct exposure limits, no leachability analysis was performed.

Based on these results, it is our opinion that any contaminated sediments will not affect the surrounding surface waters during conventional dredging techniques. In addition, the potential for the contaminants to infiltrate into the groundwater at the disposal site is also very low. Therefore, we are respectfully submitting this data to you as justification that the proposed conventional dredge techniques will not cause any adverse effects to the waters of the ICW.

If you have any questions regarding this memorandum or the following reports, please feel free to contact me regarding this matter.


MAP SHOWING A HYDROGRAPHIC SURVEY OF
A PORTION OF PABLO CREEK
LOCATED IN SECTION 38, TOWNSHIP 2 SOUTH, RANGE 28 EAST
DUVAL COUNTY, JACKSONVILLE, FLORIDA
VICINITY MAP
NOT TO SCALE
PROJECT LOCATION
QUEEN'S HARBOUR
- Sampling Station Location
#1
#2
#3
BAY BEACON #1
BAY BEACON #2
BAY BEACON #3
BAY BEACON #4
BAY BEACON #5
APPROXIMATE WETLANDS
PABLO CREEK
TIDE STAFF
INTRACOASTAL WATERWAY
LEGEND / ABBREVIATIONS
I.D. - IDENTIFICATION
N.G.V.D. - NATIONAL GEODETIC VERTICAL DATUM
ELEV. - ELEVATION
P.L.S. - PROFESSIONAL LAND SURVEYOR
P.I. - POINT OF INTERSECTION
STA. - STATION
½" IRON PIPE, CONTROL POINT
APPROXIMATE CHANNEL LOCATION
WETLANDS
RIP RAP
RED BAY BEACON
GREEN BAY BEACON
WATER DEPTH
ELEVATION COLOR CHART
ELEV. 0
ELEV. -8.0
ELEV. -9.0
ELEV. -30.0
CONTROL POINT TABULATION
POINT # | EASTING | NORTHING | ELEVATION (N.G.V.D.)
2 | 140,211.45 | 2,184,283.19 | 5.71
NOTES:
1. REFER TO ARC SURVEY NO. 09-06-02.
2. SOUNDINGS ARE IN FEET AND TENTHS OF FEET AND REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929).
3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
4. TIDAL REDUCTIONS WERE MADE FROM A STAFF SET ON THE DOCK AT QUEEN'S HARBOUR AND REFERENCED FROM BENCHMARK "PT 2" WHICH IS ELEVATION 5.71' N.G.V.D.(NATIONAL GEODETIC VERTICAL DATUM)
5. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1927 (NAD27). NORTH IS BASED ON GRID NORTH.
6. SURVEY WAS PERFORMED USING DIFFERENTIAL GPS FOR POSITIONING AND UTILIZING THE USCG NAVBEACON SYSTEM WITH THE REFERENCE SITE AT CAPE CANAVERAL, FLORIDA.
7. VERTICAL MEASUREMENTS WERE MADE USING A KNUDSEN 320M SOUNDER WITH A 200KHZ (HIGH FREQUENCY) TRANSDUCER.
VESSEL DATE OF SURVEY
JON DOAT JUNE 8, 2008
8. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
9. CONTOURS WERE GENERATED AT 1 FOOT INTERVALS.
10. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME.
11. SURVEY QUALITY CONTROL STANDARDS AND FIELD EQUIPMENT CALIBRATIONS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH U.S. ARMY CORPS OF ENGINEERS EM 1110-2-1003 FOR CLASS 1 HYDROGRAPHIC SURVEYS.
12. PLANIMETRICS WERE NOT FIELD CHECKED DURING THIS SURVEY. THEY ARE FOR REFERENCE ONLY. THEY SHOULD NOT BE USED FOR NAVIGATION OR CONSTRUCTION.
13. THE INTRACOASTAL WATERWAY SHOWN HEREON WAS CREATED FROM A DRAWING PUBLISHED BY THE U.S. ARMY CORPS OF ENGINEERS TITLED "INTRACOASTAL WATERWAY, JACKSONVILLE TO MIAMI FLORIDA, PROJECT CONDITION SURVEY FY04 7.10 & 12-FOOT PROJECT, DUVAL COUNTY CUT -3 THRU CUT DU-8". THIS CHANNEL DESIGN IS FOR REFERENCE ONLY AND SHOULD NOT BE USED FOR NAVIGATION.
HORIZONTAL SCALE IN FEET
1" = 50'
ARC SURVEYING & MAPPING, INC.
PROJECT NO.
FILE NO.

Analyte	EPA Method	MDL[a]	RL[b]	Results	Qualifer[c]	FDEP Regulation for Direct Exposure-Commercial and Soil Leachability: Marine Waters
Total Organics and Percent Solids						
				%		
Percent Solids	ASTM D2974	NA	NA	50.9		NA
Polyaromatic HydroCarbons						
		(µg/kg)	(µg/kg)	(µg/kg)		(µg/kg)
1-Methylnaphthalene	EPA 8270C					1,800,000 / 10,000
2-Methylnaphthalene	EPA 8270C					2,100,000 / 9,100
Acenaphthene	EPA 8270C	48	640	48.0	U	20,000,000 / 300
Acenaphthylene	EPA 8270C	83	640	83	U	20,000,000 / NA
Anthracene	EPA 8270C	42	640	42	U	300,000,000 / 400
Benzo[a]anthracene	EPA 8270C	23	640	23	U	700 / NA
Benzo[a]pyrene	EPA 8270C	18	640	18	U	700 / NA
Benzo[b]fluoranthene	EPA 8270C	11	640	31	I	700 / NA
Benzo[k]fluoranthene	EPA 8270C	40	640	40	U	700 / NA
Chrysene	EPA 8270C	40	640	61	I	700/ NA
Dibenz(a,h)anthracene	EPA 8270C	23	640	23	U	700/ NA
Indeno[1,2,3-cd]pyrene	EPA 8270C	27	640	27	U	700/ NA
Benzo[g,h,i]perylene	EPA 8270C	31	640	31	U	52,000,000 / NA
Fluoranthene	EPA 8270C	37	640	140	I	59,000,000 / 1,300
Fluorene	EPA 8270C	92	640	92.0	U	33,000,000 / 17,000
Naphthalene	EPA 8270C	40	640	40	U	300,000 / 2,200
Phenanthrene	EPA 8270C	44	640	44	U	3,600,000 / NA
Pyrene	EPA 8270C	31	640	49	I	45,000,000 / 1,300
Metals						
		(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)
Antimony	EPA 6010 B	1.8	9.2	1.8	U	370/3900
Arsenic	EPA 6010 B	0.74	0.92	4.5		12 / SPLP or TCLP results
Beryllium	EPA 6010 B	0.18	0.55	0.42	I	1,400/2.1
Cadmium	EPA 6010 B	0.180	0.92	0.2	I	1700 / 14
Chromium	EPA 6010 B	0.37	0.92	14		470 / 19
Copper	EPA 6010 B	0.37	1.8	6		89,000 / SPLP or TCLP results
Lead	EPA 6010 B	0.37	0.92	7.8		1400 / SPLP or TCLP results

Nickel	EPA 6010 B	0.55	0.9	3.8		35,000 / 11
Selenium	EPA 6010 B	0.74	1.8	0.7	U	11,000/7.4
Silver	EPA 6010 B	0.37	0.9	0.37	U	8,200/0.06
Thallium	EPA 6010 B	0.74	1.8	0.74	U	150/9
Zinc	EPA 6010 B	1.5	3.7	24		630,000 / SPLP or TCLP results
Mercury	EPA 7471A	0.037	0.025	0.05	I	17/ 0.03

Values highlighted this color indicate reported values below Both Regulatory Limits
Values highlighted this color indicate reported values above Direct Exposure (Commercial) Regulatory Limits but below Leachability criteria
Values highlighted this color indicate reported values above both Direct Exposure (Commercial) Regulatory Limits and Leachability Regulatory limits

* Please refer to the Benzo[a]pyrene Equivalents Table, using the 2005 Final Technical Report: Development of Cleanup Target Levels (CTLs)

[a] MDL is the method detection limit, which is defined as the lowest capable detection limit of an analyte based on the methoded utilized
[b] RL is the reporting limit
[c] Qualifers are additional notes from the analysts regarding the reported results. The following Qualifers may be applied to the results above.
[J] The Laboratory Control Sample (LCS) recovery for Tributyltin exceeded control limits. Compound not detected in sample.
[U] Indicates the compound was analyzed for but not detected; reported as MDL.
[V] Indicates the analyte was detected in both the sample and the associated method blank.
[I] The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Site Name:	QHYCC
Location:	Duval County, FL
Facility ID No.:	
Soil Sample No.	Station1
Sample Date	8-Oct-2012
Location:	Station 1
Depth (ft):	0-1'

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.009	1.0	0.009
Benzo(a)anthracene	0.011	0.1	0.001
Benzo(b)fluoranthene	0.031	0.1	0.003
Benzo(k)fluoranthene	0.020	0.01	0.000
Chrysene	0.061	0.001	0.000
Dibenz(a,h)anthracene	0.023	1.0	0.023
Indeno(1,2,3-cd)pyrene	0.013	0.1	0.001
DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg		**Total Benzo(a)pyrene Equivalents =**	**0.038**

The concentration shown does not exceed the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	**Concentration Reported**	**Data Qualifier**	**Enter**
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
≥ MDL but < PQL	Estimated	I	reported (estimated) value
≥ MDL but < PQL	PQL	M	1/2 reported value

Analyte	EPA Method	MDL[a]	RL[b]	Results	Qualifer[c]	FDEP Regulation for Direct Exposure- Commercial/Industrial and Soil Leachability: Marine Waters
Total Organics and Percent Solids						
				%		
Percent Solids	ASTM D2974	NA	NA	45.6		NA
Polyaromatic HydroCarbons						
		(µg/kg)	(µg/kg)	(µg/kg)		(µg/kg)
1-Methylnaphthalene	EPA 8270C					1,800,000 / 10,000
2-Methylnaphthalene	EPA 8270C					2,100,000 / 9,100
Acenaphthene	EPA 8270C	54	710	54	U	20,000,000 / 300
Acenaphthylene	EPA 8270C	92	710	92	U	20,000,000 / NA
Anthracene	EPA 8270C	47	710	47	U	300,000,000 / 400
Benzo[a]anthracene	EPA 8270C	26	710	26	U	700 / NA
Benzo[a]pyrene	EPA 8270C	21	710	30	I	700 / NA
Benzo[b]fluoranthene	EPA 8270C	12	710	33	I	700 / NA
Benzo[k]fluoranthene	EPA 8270C	45	710	45	U	700 / NA
Chrysene	EPA 8270C	45	710	66	I	700/ NA
Dibenz(a,h)anthracene	EPA 8270C	26	710	26	U	700/ NA
Indeno[1,2,3-cd]pyrene	EPA 8270C	30	710	30	U	700/ NA
Benzo[g,h,i]perylene	EPA 8270C	36	710	36	U	52,000,000 / NA
Fluoranthene	EPA 8270C	41	710	150	I	59,000,000 / 1,300
Fluorene	EPA 8270C	100	710	100	U	33,000,000 / 17,000
Naphthalene	EPA 8270C	45	710	45	U	300,000 / 2,200
Phenanthrene	EPA 8270C	49	710	49	U	36,000,000 / NA
Pyrene	EPA 8270C	34	710	60	I	45,000,000 / 1,300
Metals						
		(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)
Antimony	EPA 6010 B	2.20	11.0	2.20	U	370 / 3,900
Arsenic	EPA 6010 B	0.88	1.1	4.3		12/ SPLP or TCLP results
Beryllium	EPA 6010 B	0.066	0.66	0.45	I	1,400 / 2.1

Analyte	EPA Method	MDL[a]	RL[b]	Results	Qualifer[c]	FDEP Regulation for Direct Exposure-Commercial/Industrial and Soil Leachability: Marine Waters
Cadmium	EPA 6010 B	0.220	1.10	0.23	I	1,700 / 14
Chromium	EPA 6010 B	0.44	1.1	15		470 / 19
Copper	EPA 6010 B	0.44	2.2	7.5		89,000 / SPLP or TCLP results
Lead	EPA 6010 B	0.44	1.1	8.9		1,400 / SPLP or TCLP results
Nickel	EPA 6010 B	0.66	1.1	4.2		35,000 / 11
Selenium	EPA 6010 B	0.88	2.2	0.88	U	11,000 / 7.4
Silver	EPA 6010 B	0.44	1.1	0.44	U	8,200 / 0.06
Thallium	EPA 6010 B	0.88	2.2	0.88	U	150 / 9
Zinc	EPA 6010 B	1.80	4.4	28		630,000 / SPLP or TCLP results
Mercury	EPA 7471A	0.017	0.028	0.043	I	17 / 0.03

Values highlighted this color indicate reported values are below Both Regulatory Limits
Values highlighted this color indicate reported values above Direct Exposure (Commercial) Regulatory Limits but below Leachability criteria
Values highlighted this color indicate reported values above both Direct Exposure (Commercial) and Leachability Regulatory Limits

* Please refer to the Benzo[a]pyrene Equivalents Table, using the 2005 Final Technical Report: Development of Cleanup Target Levels (CTLs)

[a] MDL is the method detection limit, which is defined as the lowest capable detection limit of an analyte based on the methoded utilized

[b] RL is the reporting limit

[c] Qualifers are additional notes from the analysts regarding the reported results. The following Qualifers may be applied to the results above.

[J] The Laboratory Control Sample (LCS) recovery for Tributyltin exceeded control limits. Compound not detected in sample.

[U] Indicates the compound was analyzed for but not detected; reported as MDL.

[V] Indicates the analyte was detected in both the sample and the associated method blank.

[I] The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

10/26/2012

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Site Name:	Queen's Harbour Yacht and Country Club
Location:	Duval County, FL
Facility ID No.:	
Soil Sample No.	Station 2
Sample Date	8-Oct-2012
Location:	Station 2
Depth (ft):	0-1'

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.030	1.0	0.030
Benzo(a)anthracene	0.013	0.1	0.001
Benzo(b)fluoranthene	0.033	0.1	0.003
Benzo(k)fluoranthene	0.023	0.01	0.000
Chrysene	0.066	0.001	0.000
Dibenz(a,h)anthracene	0.013	1.0	0.013
Indeno(1,2,3-cd)pyrene	0.015	0.1	0.002

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = **0.049**

The concentration shown does not exceed the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	**Concentration Reported**	**Data Qualifier**	**Enter**
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
≥ MDL but < PQL	Estimated	I	reported (estimated) value
≥ MDL but < PQL	PQL	M	1/2 reported value

Analyte	EPA Method	MDL[a]	RL[b]	Results	Qualifer[c]	FDEP Regulation for Direct Exposure-Commercial/Industrial and Soil Leachability: Marine Waters
Total Organics and Percent Solids						
Percent Solids	ASTM D2974	NA	NA	% 58.1		NA
Polyaromatic HydroCarbons		(µg/kg)	(µg/kg)	(µg/kg)		(µg/kg)
1-Methylnaphthalene	EPA 8270C					1,800,000 / 10,000
2-Methylnaphthalene	EPA 8270C					2,100,000 / 9,100
Acenaphthene	EPA 8270C	42	560	42	U	20,000,000 / 300
Acenaphthylene	EPA 8270C	72	560	72	U	20,000,000 / NA
Anthracene	EPA 8270C	37	560	37	U	300,000,000 / 400
Benzo[a]anthracene	EPA 8270C	20	560	20	U	700 / NA
Benzo[a]pyrene	EPA 8270C	16	560	16	I	700 / NA
Benzo[b]fluoranthene	EPA 8270C	9.6	560	17	I	700 / NA
Benzo[k]fluoranthene	EPA 8270C	35	560	35	U	700 / NA
Chrysene	EPA 8270C	35	560	51	I	700/ NA
Dibenz(a,h)anthracene	EPA 8270C	20	560	20	U	700/ NA
Indeno[1,2,3-cd]pyrene	EPA 8270C	24	560	24	U	700/ NA
Benzo[g,h,i]perylene	EPA 8270C	29	560	29	U	52,000,000 / NA
Fluoranthene	EPA 8270C	32	560	100	I	59,000,000 / 1,300
Fluorene	EPA 8270C	81	560	81	U	33,000,000 / 17,000
Naphthalene	EPA 8270C	35	560	35	U	300,000 / 2,200
Phenanthrene	EPA 8270C	39	560	39	U	36,000,000 / NA
Pyrene	EPA 8270C	27	560	29	I	45,000,000 / 1,300
Metals						
		(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)
Antimony	EPA 6010 B	1.70	8.4	1.70	U	370 / 3,900
Arsenic	EPA 6010 B	0.67	0.8	3.4		12/ SPLP or TCLP results
Beryllium	EPA 6010 B	0.170	0.50	0.35	I	1,400 / 2.1

Analyte	EPA Method	MDL[a]	RL[b]	Results	Qualifer[c]	FDEP Regulation for Direct Exposure-Commercial/Industrial and Soil Leachability: Marine Waters
Cadmium	EPA 6010 B	0.170	0.84	0.18	I	1,700 / 14
Chromium	EPA 6010 B	0.34	0.84	13		470 / 19
Copper	EPA 6010 B	0.34	1.70	6.3		89,000 / SPLP or TCLP results
Lead	EPA 6010 B	0.34	0.84	7.7		1,400 / SPLP or TCLP results
Nickel	EPA 6010 B	0.34	0.84	3.4		35,000 / 11
Selenium	EPA 6010 B	0.67	1.70	0.67	U	11,000 / 7.4
Silver	EPA 6010 B	0.34	0.84	0.34	U	8,200 / 0.06
Thallium	EPA 6010 B	0.67	1.70	0.67	U	150 / 9
Zinc	EPA 6010 B	1.30	3.40	23		630,000 / SPLP or TCLP results
Mercury	EPA 7471A	0.013	0.022	0.028	I	17 / 0.03

Values highlighted this color indicate reported values are below Both Regulatory Limits
Values highlighted this color indicate reported values above Direct Exposure (Commercial) Regulatory Limits but below Leachability criteria
Values highlighted this color indicate reported values above both Direct Exposure (Commercial) and Leachability Regulatory Limits

* Please refer to the Benzo[a]pyrene Equivalents Table, using the 2005 Final Technical Report: Development of Cleanup Target Levels (CTLs)

[a] MDL is the method detection limit, which is defined as the lowest capable detection limit of an analyte based on the methoded utilized

[b] RL is the reporting limit

[c] Qualifers are additional notes from the analysts regarding the reported results. The following Qualifers may be applied to the results above.

[J] The Laboratory Control Sample (LCS) recovery for Tributyltin exceeded control limits. Compound not detected in sample.

[U] Indicates the compound was analyzed for but not detected; reported as MDL.

[V] Indicates the analyte was detected in both the sample and the associated method blank.

[I] The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

10/26/2012

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Site Name:	Queen's Harbour Yacht and Country Club
Location:	Duval County, FL
Facility ID No.:	
Soil Sample No.	Station 3
Sample Date	8-Oct-2012
Location:	Station 3
Depth (ft):	0-1'

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.016	1.0	0.016
Benzo(a)anthracene	0.010	0.1	0.001
Benzo(b)fluoranthene	0.017	0.1	0.002
Benzo(k)fluoranthene	0.018	0.01	0.000
Chrysene	0.051	0.001	0.000
Dibenz(a,h)anthracene	0.010	1.0	0.010
Indeno(1,2,3-cd)pyrene	0.012	0.1	0.001

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = **0.030**

The concentration shown does not exceed the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
≥ MDL but < PQL	Estimated	I	reported (estimated) value
≥ MDL but < PQL	PQL	M	1/2 reported value

ALCALDE & FAY

GOVERNMENT & PUBLIC AFFAIRS CONSULTANTS

November 27, 2013

MEMORANDUM

TO: Mark Crosley, Executive Director

FROM: Jim Davenport

SUBJECT: Federal Legislative Report

WATER RESOURCES AND REFORM DEVELOPMENT ACT

The House and Senate have begun conference committee discussions to work out the differences between the House and Senate Water Resources Development Acts (WRDAs) (H.R. 3080 & S. 601). As a result, we have contacted the Senate Environment and Public Works (EPW) Committee and prepared letters on behalf of FIND in support of House WRDA Section 218, which authorizes the U.S. Army Corps of Engineers (USACE) to perform an assessment of the needs of the Atlantic Intracoastal Waterway.

As you know, the FIND letters were sent to the following Senate EPW Committee conferees: Chairman Barbara Boxer (D-CA), Senator Max Baucus (D-MT), Senator John Barasso (R-WY) and Senator David Vitter (R-LA). We have also asked Senator Bill Nelson to support Section 218, and were told by his staff that he would.

It is our understanding that the WRDA conferees hope to have a final WRDA conference report prepared by mid-December, with passage shortly thereafter, and we will continue working with the conferees to obtain the Sec. 218 language.

FISCAL YEAR 2014 APPROPRIATIONS

As members of a House-Senate budget conference committee continue to discuss a budget blueprint for fiscal year (FY) 2014, which would hopefully include some sequester relief and lead to the passage of FY 2014 appropriations legislation, we have contacted FIND's congressional delegation to seek their continued support of an Energy and Water Appropriations Bill that would include funding for inland waterways.

Several members of your delegation, including House appropriator Ander Crenshaw (R-FL), have expressed support for an omnibus appropriations bill that would include funding for inland waterways in FY 2014.

The Federal government is operating under a continuing resolution (CR) until January 15, 2014, so budget conferees and congressional appropriators have a limited amount of time to work out an agreement. If they are unable to finish FY 14 appropriations legislation by January 15, they will have the option of passing another short-term CR so that they can buy additional time to pass the appropriations bills.

Please contact us with any questions.

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