

2019 FDOT MITIGATION PLAN

2379 BROAD STREET, BROOKSVILLE, FL 34604-6899



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INTRODUCTION

The Florida Department of Transportation (FDOT) historically conducted mitigation for wetland impacts associated with roadway construction on a project by project basis. Most of these mitigation activities were creation and enhancement of habitats adjacent to the roadway facilities. Existing and future commercial, industrial and residential developments along these roadways subject these constructed mitigation areas to many limitations and risks in achieving the desired ecological benefits needed to compensate for wetland impacts. These developments also reduce mitigation opportunities as well as increase the cost of mitigation projects, primarily a result of the availability of property and the cost of acquisition.

In 1996, the State Legislature determined that mitigation would be more effectively achieved with regional, long range mitigation planning instead of conducting mitigation on a project by project basis and created the FDOT Mitigation Program (see Section 373.4137, Florida Statutes). A copy of the current statutory language is provided in Appendix A. This program is administered by the state's water management districts, which are responsible for annually developing a mitigation plan.

Mitigation planning is based on an inventory of construction projects that is provided by the FDOT. The minimum planning horizon is three years. However, the FDOT may elect to add to their inventory, projects with projected construction dates that extend beyond this planning horizon. This provides additional time for suitable mitigation projects to be developed, which is essential when mitigation options are limited. The project inventory is updated annually to account for changes that occur as the FDOT projects move through planning, design and permitting phases. Inventory updates include: additions and deletions of construction projects; modifications to projected permitting and construction dates as well as adjustments to projected impact habitat type or acreages. The FDOT is also required to perform an evaluation to identify any projects where impacts may be offset using a mitigation bank. These projects are identified on the inventory of projects but are not included in the FDOT Mitigation Program.

Mitigation for wetland impacts associated with FDOT road improvement projects may be provided by a private or public mitigation bank or a mitigation project adopted into the FDOT Mitigation Program. Mitigation projects that are adopted into the FDOT Mitigation Program are to address significant water resource needs and focus on the needs of the Department of Environmental Protection and the water management districts, such as Surface Water Improvement and Management (SWIM) projects, lands identified for acquisition, restoration or enhancement and control of invasive and exotic plants to the extent the impacts of the road improvement project are offset.

Based on the impact information provided by the FDOT, mitigation options are matched to FDOT road improvement projects such that the State and Federal permitting requirements for mitigation offsets are satisfied. Federal and State mitigation requirements specify that habitats with similar value and function as those being impacted are to be created, enhanced, restored or preserved. Additionally, mitigation projects must be in the same regional watershed as the projected wetland impacts. A map of the regional watersheds in the Southwest Florida Water Management District (District) is provided in Appendix B. In addition to these criteria, Florida statutes specify that the purchase of credits from public or private mitigation banks be considered when such purchase would offset the impact of the FDOT project, provide equal benefits to the water resource as other mitigation options and provide the most cost-effective mitigation option.

The statute establishing the FDOT Mitigation Program requires that the FDOT Mitigation Plan be updated every year by March 1st. Approval by the District's Governing Board and the Florida Department of Environmental Protection is required prior to implementation. Before presenting the 2019 FDOT Mitigation Plan for approval, a draft was presented to interested parties for comment at a publicly noticed meeting held on January 24, 2019. The plan will be submitted to FDEP and will need to be approved by correspondence to the District in a formal approval letter. The 2019 FDOT Mitigation Plan contains an updated inventory of all FDOT projects included in the FDOT Mitigation Program, a summary of the evaluation of mitigation bank options performed and a description of the mitigation project or projects that are designated to offset the identified wetland impacts. This Mitigation Plan has been developed by the District in accordance with the statutory requirements for the FDOT Mitigation Program.

REPAYMENT OF ADVANCE FUNDING

Pursuant to Chapter 373.4137, F.S., the FDOT provided \$12 million advance mitigation funding. These funds were distributed statewide to various habitat restoration projects proposed by the Water Management Districts. To the extent these projects offset the wetland impacts identified in the inventory, the FDOT received mitigation credit. Of the \$12 million distributed statewide, the District received \$1.9 million designated toward planning and design activities associated with several SWIM-sponsored projects selected for the mitigation program. The savings from cost-effective mitigation (i.e. mitigation projects costs that were less than the funding provided by FDOT) was credited toward reimbursing FDOT for the advance funding. The District officially reimbursed the FDOT \$4.2 million of the program's advance funding. The other Water Management Districts combined contributed \$4.8 million toward this reimbursement.

An analysis of selected mitigation projects demonstrated the tax savings exceeded \$50 million in the Tampa Bay region and \$100 million District-wide when the cost of the District's mitigation projects was compared to money FDOT anticipated expending to conduct traditional project specific mitigation. Because of the substantial program savings demonstrated by the District, in 2009, Legislation that suspended the requirement to reimburse the remaining \$3 million balance in advance funding was passed. The District was credited with reimbursing \$7.2 million of the \$12 million program's advance funding.

CONTACT INFORMATION

Any questions, comments, requests or recommendations for the FDOT Mitigation Program or any of the designated mitigation projects, may be directed to:

Southwest Florida Water Management District
Brooksville Headquarters
2379 Broad Street
Brooksville, FL 34604-6899

1-800-423-1476 (Florida only) or (352) 796-7211

FDOT ROAD IMPROVEMENT PROJECTS

Since the inception of the FDOT Mitigation Program in 1996, there are various transportation entities within the Southwest Florida Water Management District jurisdictional boundaries that have conducted mitigation through the FDOT Mitigation Program. These include FDOT District 1 (Bartow), District 5 (Deland), District 7 (Tampa), District 8 (Florida's Turnpike, Orlando), Tampa-Hillsborough Expressway Authority, and the Tampa International Airport, collectively referred to as FDOT. From 1996 through 2019, there are 139 construction projects with wetland impacts totaling 577.36 acres mitigated through the FDOT Mitigation Program.

Over the years, many FDOT projects for which mitigation projects were developed have been removed from the FDOT Mitigation Program, including 5 projects having a total of 1.05 acres of wetland impacts previously listed in the 2018 Plan. The FDOT projects being deleted and the reasons for deletion are shown in Table One.

Table One: FDOT Road Improvement Projects that are deleted in the 2019 FDOT Mitigation Program from impacts included in the 2018 Plan, and the reason for deletion.

Delete Reason	Number of Projects	Wetland Impacts (acres)
Permit application date is outside FDOT planning horizon	0	0
Combined with another FDOT project	0	0
Dropped from the FDOT work program	1	0.10
Wetland impacts to be offset at a private mitigation bank	0	0
Permitted without mitigation required	4	0.95
Mitigation is not available	0	0

Currently, there are 39 construction projects that are active (i.e. not yet fully permitted), of which 7 are newly added in 2019, that require mitigation to be provided through the FDOT Mitigation Program. A total of 132.11 acres of wetland impact associated with these active projects are planned to be offset through the FDOT Mitigation Program.

Tables Two through Fourteen list all the FDOT projects that have been permitted with mitigation provided through the FDOT Mitigation Program. State (Environmental Resource Permit) and Federal (Army Corps of Engineers) permit numbers are shown for projects that have been permitted. Also listed are the FDOT projects that remain in, are added to or deleted from the FDOT Mitigation Program. Projects deleted are highlighted in yellow and projects that are added are highlighted in green. Detailed information, including location, projected permitting and construction dates, impact acreage and impact habitat type for all FDOT projects in the FDOT Mitigation Program is provided in the table appended as Appendix C.

Table Two: FDOT Road Improvement Projects in the Alafia River Basin

FM No.	Project Description	FDOT Project Status	Total Impacted Acreage	Mitigation Location
4357502	SR 60 from Dover Rd to SR 39	Active	1.06	SW 82 – Ekker Tract

Table Three: FDOT Road Improvement Projects in the Charlotte Harbor Drainage

FM No.	Project Description	FDOT Project Status	Total Impacted Acreage	Mitigation Location
4130423	I-75 from Tucker's Grade to N. Jones Loop Road	Permitted	1.10	SW 52 - Little Pine Island Mit. Bank

Table Four: FDOT Road Improvement Projects in the Hillsborough River Basin

FM No.	Project Description	FDOT Project Status	Total Impacted Acreage	Mitigation Location
2012081	I-4 County Line to Memorial Blvd – Sec 1	Permitted	19.10	SW 55 - Upper Hillsborough 4&5
2012171	I-4 W of Memorial Blvd to W of US 98 – Sec 2	Permitted	3.09	SW 61 - Jennings Tract
2555361	SR 39, Blackwater Creek Bridge Replacement	Permitted	2.14	SW 61 – Jennings Tract
2555851	SR 39 (Alexander St) I-4 to Knights Griffin Road	Permitted	14.20	SW 84 – Colt Creek State Park
2557092	US 92 (SR 600) From Kingsway Rd to McIntosh	Deleted	0.40	SW 77 – Conner Preserve
2557102	US 92 (SR 600) From McIntosh Rd to SR 566 (Thonotosassa)	Deleted	0.40	SW 77 – Conner Preserve
2558591	SR 678 (Bearss Ave.) Florida Ave to Nebraska	Permitted	0.06	SW 61 – Jennings Tract
2558934	SR 574 (MLK Blvd) from E of Kingsway Rd to E of McIntosh Rd	Active	0.90	SW 77 – Conner Preserve
2562432	SR 52 (Schrader Hwy) from CR 581 (Bellamy Bro) to Old Pasco Rd	Permitted	11.12	SW 77 – Conner Preserve

2563151	US 41 Bell Lake to Tower Rd	Permitted	1.63	SW 34 – Lake Thonotosassa
2563151	US 41 Bell Lake to Tower Rd	Permitted	1.08	SW 77 – Conner Preserve
2563341	SR 52 (Schrader Hwy) US 41 to CR 581	Deleted	7.41	SW 77 – Conner Preserve
2563431	SR 54 US 41 to Cypress Creek	Permitted	16.82	SW 34 – Lake Thonotosassa
2578071	Bruce B Downs Bike Path Amberly Drive to Hunters Green	Permitted	0.50	SW 61 – Jennings Tract
2578072	Bruce B Downs Bike Path Tampa Limits to Amberly Dr	Permitted	0.20	SW 61 – Jennings Tract
2578391	Alexander St US 92 to I4	Permitted	3.16	SW 61 – Jennings Tract
2578622	Park Rd I-4 (SR 400) to Sam Allen Rd	Permitted	0.81	SW 84 – Colt Creek State Park
2578623	Sam Allen Rd from Alexander St to Park Rd	Permitted	15.11	SW 77 – Conner Preserve
2584131	SR 93 (I-275) US 41 to Pasco County Line	Permitted	7.60	SW 61 – Jennings Tract
2584491	I-4 (SR 400) at Alexander St Ramp	Permitted	1.70	SW 61 – Jennings Tract
2587341	SR 56, Cypress Creek to CR 581 (BB Downs)	Permitted	5.30	SW 61 – Jennings Tract
2587362	I-75 (SR93) from N of SR/CR 54 to North of SR 52 (Design-Build)	Permitted	7.63	SW 77 – Conner Preserve
4079441	I-75 Northbound Rest Area	Permitted	2.20	SW 84 – Colt Creek State Park
4079442	I-75 Southbound Rest Area	Permitted	1.00	SW 84 – Colt Creek State Park
4080752	US 301 (SR 39) from S of CR 54/Eiland Blvd to N of Kossik Rd	Active	1.00	SW 77 – Conner Preserve
4084592	I-75 Fowler Ave to CR 581	Permitted	23.79	SW 84 – Colt Creek State Park
4084593	I-75 CR 581 (BB Downs) to SR 56 (Mainline)	Permitted	15.97	SW 84 – Colt Creek State Park and SW 77 - Conner Preserve
4084594	I-75 SR 56 to S of CR 54	Permitted	11.63	SW 84 – Colt Creek State Park
4084602	I-75 Off Ramp at CR 581	Permitted	0.48	SW 61 – Jennings Tract

4089321	SR 39 @ Hillsborough River	Permitted	2.29	SW 84 – Colt Creek State Park
4110142	I-75 (SR 93) from N of SR 52 to Pasco/Hernando C/L (design/build)	Permitted	33.33	SW 77 – Conner Preserve
4113371	US 92 – Eureka Springs to Thonotosassa Rd	Permitted	1.45	SW 84 – Colt Creek State Park
4165612	SR 54 from CR 577/Curley Rd to CR 579/Morris Bridge Rd	Permitted	12.01	SW 77 – Conner Preserve
4218311	I-75/CR 581 (BB Downs) to SR 56	Permitted	31.20	SW 84 – Colt Creek State Park and SW 77 – Conner Preserve
4218314	I75 S of CR 56 to N of CR 54	Permitted	16.88	SW 84 – Colt Creek State Park
4305731	I75/SR 56 Interchange from W of CR 54 to W of Cypress Ridge Blvd	Permitted	10.13	SW 77 – Conner Preserve
4305732	I-75/275 from Co Line Rd to SR 56 (Phase III)	Active	1.50	SW 77 – Conner Preserve
4305733	I-75/275 from S of Co Line Rd to Co Line Road	Active	1.50	SW 77 – Conner Preserve
4317462	I-4 from I-4/Selmon Connector to E of Branch Forbes Road	Active	3.00	SW 77 – Conner Preserve
4338212	I-275 @ I-4 I-275 from Rome to MLK I-4 from I-275 to Connector	Active	0.50	SW 77 – Conner Preserve
4347361	SR 574/W Reynolds St from E of Turkey Ck Rd to Thonotosassa Rd	Deleted	0.23	SW 77 – Conner Preserve
4347651	SR 56 from Meadow Pointe Blvd to US 301	Permitted	186.39	SW 77 – Conner Preserve
4351421	SR 52 Extension from E of McKendree Rd to E of US 301	Permitted	2.99	SW 77 – Conner Preserve
4357501	SR 60 from Valrico Rd to Dover Rd	Active	0.05	SW 77 – Conner Preserve
4376491	US 41/SR 45/Land o Lakes Blvd. from N end of Ehren Cutoff to N of Caliente	Deleted	0.02	Bank
4327342	Overpass Road Interchange from Old Pasco Road to Boyette Rd	NEW	10.50	SW 77 – Conner Preserve

Table Five: FDOT Road Improvement Projects in the Kissimmee Ridge Basin

FM No.	Project Description	FDOT Project Status	Total Impacted Acreage	Mitigation Location
1945101	US 27 Lake Glenada to Hal McRae	Permitted	0.39	SW 49 - Reedy Ck. Mit. Bank
2012041	I-4, East of CR 557 to Osceola County (Sec. 6-7,9)	Permitted	2.35	SW 49 - Reedy Ck. Mit. Bank

Table Six: FDOT Road Improvement Projects in the Little Manatee River Basin

FM No.	Project Description	FDOT Project Status	Total Impacted Acreage	Mitigation Location
4154893	US 301, Sun City Center to Balm Road	Permitted	0.65	SW 83 - Little Manatee River, Lower Tract

Table Seven: FDOT Road Improvement Projects in the Manatee River Basin

FM No.	Project Description	FDOT Project Status	Total Impacted Acreage	Mitigation Location
1960222	SR 64 (Seg. 1) I-75 to Lena Rd.	Permitted	2.81	SW 65 - Rutland Ranch
1960223	SR 64 (Seg. 2) Lena Rd. to Lakewood Ranch Rd.	Permitted	0.84	SW 65 - Rutland Ranch
1960224	SR 64 (Seg. 3) Lakewood Ranch to Lorraine Rd.	Permitted	4.06	SW 80 - Hidden Harbour
1961211	SR 70 (Seg. 1) I-75 to Lakewood Ranch Rd.	Permitted	1.40	SW 65 - Rutland Ranch
4043232	SR 70 (Seg. 2) Lake Ranch Rd. to Lorraine Rd.	Permitted	3.62	SW 65 - Rutland Ranch
4161201	SR 64 Carlton Arms Blvd. to I-75	Permitted	0.78	SW 80 - Hidden Harbour
4226031	US 301 (Seg. B) Erie Road to CR 675	Permitted	2.73	SW 80 - Hidden Harbour

Table Eight: FDOT Road Improvement Projects in the Myakka River Basin

FM No.	Project Description	FDOT Project Status	Total Impacted Acreage	Mitigation Location
1937941	SR 776 CR 771 to Willow Bend Rd.	Permitted	2.08	SW 52 - Little Pine Island Mit. Bank
1937941	SR 776 CR 771 to Willow Bend Rd.	Permitted	8.83	SW 31 - Cattle Dock
1979251	SR 72 Big Slough to DeSoto C/L	Permitted	1.49	SW 51 - Myakka River State Park

1980131	SR 72 Deer Prairie to Big Slough	Permitted	0.86	SW 51 - Myakka River State Park
4138871	SR 72 Myakka River to Big Slough	Permitted	6.93	SW 51 - Myakka River State Park

Table Nine: FDOT Road Improvement Projects in the Ocklawaha River Basin

FM No.	Project Description	FDOT Project Status	Total Impacted Acreage	Mitigation Location
2386411	US 27 Levy Co. Line to SR 326	Permitted	2.37	SW 58 - Ledwith Prairie
2386791	US 27 SR 326 to CR 225a	Permitted	1.09	SW 58 - Ledwith Prairie
2387191	SR 40 CR 328 to SW 80th	Permitted	0.08	SW 58 - Ledwith Prairie
1976791	US 27 SR 544 to Blue Heron Bay	Permitted	0.46	SW 76 - Lake Lowery
2012041	I-4 East of CR 557 to Osceola County (Sec. 6-7,9)	Permitted	4.28	SW 76 - Lake Lowery
4038901	US 27 Blue Heron Bay to CR 547	Permitted	1.89	SW 76 - Lake Lowery

Table Ten: FDOT Road Improvement Projects in the Peace River Basin

FM No.	Project Description	FDOT Project Status	Total Impacted Acreage	Mitigation Location
1937911	US 17 (SR 35) CR 74 to CR 764 North	Permitted	0.27	SW 53 - Boran Ranch Mit. Bank
1937981	US 17 (SR35) CR 764 South to CR 764 North	Permitted	0.27	SW 53 - Boran Ranch Mit. Bank
1938851	SR 72 Sarasota Co. Line to SR 70	Permitted	1.19	SW 53 - Boran Ranch Mit. Bank
1938991	US 17 Livingston to Hardee County Line	Permitted	26.49	SW 66 - Circle B Bar Reserve
1940931	US 17 (SR 35) Peace River to Tropicana Rd.	Permitted	27.29	SW 66 - Circle B Bar Reserve
1941021	US 17 (SR 35) SR 64 to Peace River Bridge	Permitted	2.30	SW 53 - Boran Ranch Mit. Bank
1971681	SR 60A (Van Fleet Dr.) CR 555 to Broadway Ave.	Permitted	0.46	SW 66 - Circle B Bar Reserve
1974711	SR 540 (Cypress Gardens) 9th Street to Overlook	Permitted	0.41	SW 47 - Tenoroc/Saddle Creek
1974751	SR 540 (Cypress Gardens) Thornhill Rd. to Recker Hwy.	Permitted	5.52	SW 47 - Tenoroc/Saddle Creek

1975331	US 27 Towerview Rd. to SR 540	Permitted	5.69	SW 66 - Circle B Bar Reserve
1976381	US 98 - Carpenter's Way to Daugherty Road	Permitted	1.06	SW 66 - Circle B Bar Reserve
1976791	US 27 SR 544 to Blue Heron Bay	Permitted	12.97	SW 66 - Circle B Bar Reserve
1977014	SR 559 Extension SR 655 (Recker Hwy) to Derby Ave.	Permitted	0.61	SW 66 - Circle B Bar Reserve
1977051	US 27 SR 60 to Towerview Blvd.	Permitted	0.23	SW 66 - Circle B Bar Reserve
1977061	US 27 SR 540 to SR 542	Permitted	4.03	SW 66 - Circle B Bar Reserve
1977071	US 27 SR 542 to CR 546	Permitted	1.44	SW 66 - Circle B Bar Reserve
1984711	Trabue Harborwalk Bike Path	Permitted	0.16	SW 52 - Little Pine Island Mit. Bank
1986371	Ft. Green/Ona (Seg. 2) Vandolah to North of Vandolah Rd.	Permitted	4.27	SW 53 - Boran Ranch Mit. Bank
1986381	Ft. Green/Ona (Seg. 3) SR 64 to Vandolah Rd.	Permitted	5.23	SW 53 - Boran Ranch Mit. Bank
1986401	Ft. Green/Ona Road (Seg. 1) Vandolah to SR 62	Permitted	2.08	SW 53 - Boran Ranch Mit. Bank
2012092	I-4, East of US 98 to East of CR 557 (Sec. 3-5)	Permitted	1.36	SW 47 - Tenoroc/Saddle Creek
4046971	I-75 Bridge Widening over Peace River	Permitted	2.75	SW 52 - Little Pine Island Mit. Bank
4046971	I-75 Bridge Widening over Peace River	Permitted	3.31	SW 69 - Peace River Restoration
4082685	US 98 Manor Drive to CR 540A	Permitted	0.50	SW 66 - Circle B Bar Reserve
4110391	US 27 CR 546 to SR 544	Permitted	1.83	SW 66 - Circle B Bar Reserve
4154901	US 17 Charlotte C.L. to SW Collins	Permitted	2.23	SW 85 - Peace River Mit. Bank
4154901	US 17 Charlotte C.L. to SW Collins	Permitted	2.15	SW 53 - Boran Ranch Mit. Bank
4251371	SR 17 @ Mountain Lake Cutoff Intersection Improvements	Permitted	0.15	SW 66 - Circle B Bar Reserve

Table Eleven: FDOT Road Improvement Projects in the South Coastal Drainage Basin

FM No.	Project Description	FDOT Project Status	Total Impacted Acreage	Mitigation Location
1979421	SR 789 Ringling Causeway Blvd.	Permitted	0.27	SW 88 – Curry Creek ROMA
1980051	US 41 Bus. (SR 45) Venice Ave. to US 41 Bypass	Permitted	0.32	SW 88 - Curry Creek ROMA
4063143	I-75 N. River Rd. (CR 577) to SR 681	Permitted	14.55	SW 79 - Fox Creek ROMA
4063143	I-75 N. River Rd. (CR 577) to SR 681	Permitted	0.77	SW 88 - Curry Creek ROMA

Table Twelve: FDOT Road Improvement Projects in the Tampa Bay Drainage Basin

FM No.	Project Description	FDOT Project Status	Total Impacted Acreage	Mitigation Location
1960581	US 301 (Ellenton) 60 th Ave. to Erie Rd	Permitted	1.42	SW 50 – Terra Ceia
2555991	SR 676 (Causeway Blvd.) US 301 to US 41	Permitted	0.27	SW 71 - Boyd Hill Nature Preserve
2555991	SR 676 (Causeway Blvd.) US 301 to US 41	Permitted	1.08	SW 56 - Cockroach Bay (Fresh)
2556301	SR 60 Courtney Campbell to Fish Creek	Permitted	12.20	SW 45 - Gateway Tract
2557031	SR 60 Cypress St. to Fish Creek	Permitted	5.00	SW 75 - Cockroach Bay (Salt)
2557031	SR 60 Cypress St. to Fish Creek	Permitted	0.90	SW 56 - Cockroach Bay (Fresh)
2557031	SR 60 Cypress St. to Fish Creek	Permitted	6.80	SW 67- Apollo Beach
2557031	SR 60 Cypress St. to Fish Creek	Permitted	3.30	SW 62 - Tappan Tract
2557341	SR 676 Maritime Blvd. to SR 60	Permitted	1.50	SW 45 - Gateway Tract
2558881	US 301 Sligh Ave. to Tampa Bypass Canal	Permitted	9.26	SW 71 - Boyd Hill Nature Preserve
2558881	US 301 Sligh Ave. to Tampa Bypass Canal	Permitted	2.77	SW 56 - Cockroach Bay (Fresh)
2558935	SR 574 (MLK) @ I-75	Permitted	0.25	SW 90 - Brooker Ck. Buffer Preserve

2568811	US 19 (SR 55) Whitney Rd. to Seville Dr.	Permitted	4.34	SW 78 – Bahia Beach
2568812	US 19 (SR 55) Seville Dr. to SR 60	Permitted	0.19	SW 56 - Cockroach Bay (Fresh)
2568881	US 19 Coachman Rd. to Sunset Rd.	Permitted	0.52	SW 78 – Bahia Beach
2569051	SR 679 (Bayway) Bunces Pass Bridge # 150	Permitted	0.60	SW 45 - Gateway Tract
2569312	Gandy Blvd. (SR 694) 9th Street to 4th Street North	Permitted	0.33	SW 86 - Mobbly Bayou
2569312	Gandy Blvd. (SR 694) 9th Street to 4th Street North	Permitted	3.01	SW 78 – Bahia Beach
2569571	US 19 SR 60 (Drew St.) to Railroad Crossing	Permitted	1.33	SW 56 - Cockroach Bay (Fresh)
2569941	CR 296 Connector 40th St. to 28th St.	Permitted	1.02	SW 56 - Cockroach Bay (Fresh)
2569942	CR 296 Connector NB I-275 (Ramp P) to WB SR 686	Permitted	4.19	SW 78 – Bahia Beach
2569961	SR 686 AT CR 611 (49TH ST)	Deleted	0.31	Tampa Bay Mitigation Bank
2570701	US 19 (SR 55) 49th St. to 118th Avenue	Permitted	0.02	SW 71 - Boyd Hill Nature Preserve
2570701	US 19 (SR 55) 49th St. to 118th Avenue	Permitted	0.02	SW 56 – Cockroach Bay (Salt)
2570861	SR 694 (Gandy Blvd) from E US 19 (SR55) to E of I-275 (SR 93)	Deleted	12.67	Tampa Bay Mitigation Bank
2571391	SR 688 (Ulmerton Rd.), US 19 to 49th Street	Permitted	0.10	SW 75 - Cockroach Bay (Salt)
4061511	Veteran's Expressway Memorial Hwy. to Gunn Hwy.	Permitted	7.94	SW 78 - Bahia Beach
2583982	I-275 Howard Franklin to Himes Ave.	Permitted	1.50	SW 45 - Gateway Tract
2584151	I-4 (SR 400) @ Selmon Expressway	Permitted	5.46	SW 86 - Mobbly Bayou
2584151	I-4 (SR 400) @ Selmon Expressway	Permitted	0.05	SW 78 – Bahia Beach
2588701	I-275 Roosevelt to Big Island Gap	Permitted	9.10	SW 45 - Gateway Tract
4037701	US 19, CR 816 (Alderman) to SR 582 (Tarpon)	Permitted	0.09	SW 71 - Boyd Hill Nature Preserve

4062531	SR 686 (Roosevelt) at 49th Street	Permitted	0.20	SW 45 - Gateway Tract
4062561	East-West Trail, Coopers Bayou to Bayshore	Permitted	0.10	SW 71 - Boyd Hill Nature Preserve
4082011	Himes Ave. at Hillsborough Ave.	Permitted	0.10	SW 71 - Boyd Hill Nature Preserve
4091551	SR 688 (Ulmerton Rd.) Lake Seminole to Wild Acres	Permitted	0.07	SW 86 - Mobbly Bayou
4113371	US 92 Eureka Springs to Thonotosassa Rd.	Permitted	0.34	SW 82 - Ekker Tract
4125311	SR 60 (Memorial Hwy) from I-275 to Spruce	Active	10.48	SW 78 – Bahia Beach
4125313	I-275 @ I-275 NB Off-Ramp to SR 60 Airport Flyover	Permitted	0.94	SW 86 - Mobbly Bayou
4131361	McMullen Road from Balm Riverview to Boyette Road	Permitted	0.17	SW 82 – Ekker
4143481	36R RPZ (TIA)	Permitted	7.18	SW 90- Brooker Creek Buffer Preserve
4142481	36R RPZ (TIA)	Permitted	0.55	SW 78- Bahia Beach
4143481	Taxiway V&W	Permitted	0.66	SW 78 - Bahia Beach
4143481	Taxiway B rehab, Bridge and N. Terminal Stormwater	Permitted	3.29	SW 78 - Bahia Beach
4143481	North Terminal Phase 1	Deleted	2.48	SW 90 - Brooker Ck. Buffer Preserve
4143481	Airfield Drainage Rehab (fkaTaxiway N Overpass)	Permitted	2.85	SW 78 - Bahia Beach
4143481	Runway 17-35	Active	12.19	SW 78 - Bahia Beach
4143481	Taxiway S West Extension	Deleted	0.43	SW 78 - Bahia Beach
4143481	North Terminal Airside 2	Active	3.64	SW 90 - Brooker Ck. Buffer Preserve
4143481	North Terminal Airside 3	Active	4.74	SW 90 - Brooker Ck. Buffer Preserve
4143481	North Terminal Airside 4	Active	3.66	SW 90 - Brooker Ck. Buffer Preserve

4143481	Taxiway A Extension	Active	0.43	SW 90 - Brooker Ck. Buffer Preserve
4143481	East Development Area (Drew Park Improvements)	Deleted	0.63	SW 78 - Bahia Beach
4143481	South Development Area	Active	5.24	SW 78 - Bahia Beach
4143481	High Speed Txwy for RW18R (fna Taxiway	Permitted	2.20	SW 78 - Bahia Beach
4143481	Cargo/ Ground Support Equip.	Permitted	0.63	SW 78 - Bahia Beach
4154892	US 301, Balm Road to Gibsonton	Permitted	11.85	SW 82 - Ekker Tract
4154892	US 301, Balm Road to Gibsonton	Permitted	2.49	SW 78 – Bahia Beach
4154892	US 301, Balm Road to Gibsonton	Permitted	0.28	SW 82 - Ekker
4154893	US 301, Sun City Center to Balm Road	Permitted	1.99	SW 71 - Boyd Hill Nature Preserve
4154893	US 301, Sun City Center to Balm Road	Permitted	1.99	SW 82 - Ekker Tract
4168381	US 92 (SR 600 / Gandy) Pelican Sound to Gandy Bridge	Permitted	0.90	SW 86 - Mobbly Bayou
4168381	US 92 (SR 600 / Gandy) Pelican Sound to Gandy Bridge	Permitted	1.66	SW 78 – Bahia Beach
4229042	I-275 (Howard Frkl) Fm N of Howard Frankland to S of SR 60	Deleted	4.25	Mitigation Bank
4229044	I-275 (Howard Frkl) Fm N of Howard Frankland to S of SR 60	Deleted	4.08	Other Mitigation Offsite
4245611	SR 60 - Pinellas/Hillsborough C.L. to Rocky Point Dr.	Permitted	0.13	SW 86 - Mobbly Bayou
4230801	I-275/SR 93 Southbound @ Bunces Pass	Active	0.43	SW 70 – Ft DeSoto
4245132	I-75 AT BIG BEND RD SB OFF RAMP	Dropped	0.10	Replaced by 4245133
4271432	SR 579 (PIN Byway S) from N of Yacht Club Ln to S of Madonna Blvd	Permitted	0.11	SW 70 – Ft DeSoto
4290081	SR 597 Dale Mabry from County Line Rd to N of Brinson Rd	Permitted	0.57	SW 87 - Alligator Lake

4305011	9 th St S (MLK Street) from 7 th Ave S to 8 th Ave S	Deleted	0.50	Mitigation Bank
4289541	I-75 (SR93A) NB on Ramp from EB/WB I-4 to South of Bypass Canal	Permitted	0.79	SW 87 - Alligator Lake
4293501	Veteran's Expressway Gunn Hwy. to Van Dyke	Permitted	2.87	SW 78 - Bahia Beach
4303351	I-4 (SR 400) FM I-75 (SR93A) TO EAST OF WILLIAMS ROAD	Deleted	0.28	Mitigation Bank
4305022	BIG BEND RD FROM E OF DICKMAN ROAD TO W OF WYANDOTTE ROAD	Active	0.03	SW 78 - Bahia Beach
4337991	US19 (SR 55) FROM N OF CR 95 TO S OF PINE RIDGE WAY S	Deleted	1.00	Mitigation Bank
4357502	SR 60 from Dover Rd to SR 39	Active	1.06	SW 82 – Ekker Tract
4360561	10th & 11th Ave at Brooker Creek Bridge	Deleted	0.20	SW 90 - Brooker Ck. Buffer Preserve
4370021	MADISON AVE FROM US 41 TO 78TH ST (CR 573)	Active	4.00	SW 78 - Bahia Beach
4373121	I-75/SR 93A from Manatee County Line to N of CR 579	Deleted	0.20	SW 78 - Bahia Beach
4376401	US 301/SR 43 FM FALKNERBURG RD TO SLIGH AVE	Deleted	0.50	SW 90 - Brooker Ck. Buffer Preserve
4394121	S MAYDELL DR AT PALM RIVER BRIDGE REPLACEMENT	Deleted	0.50	Mitigation Bank
4395251	SR 682/PINELLAS BAYWAY FROM SR 699 GULF BLVD TO TOLL PLAZA	Active	0.50	SW 78 - Bahia Beach
N/A	Lee Roy Selmon Crosstown Extension - Temporary Haul Road	Permitted	0.21	SW 82 - Ekker Tract
4245133	I-75 @ BIG BEND ROAD SB OFF RAMP & Big Bend Road Widening Design	New	12.02	SW 78 – Bahia Beach
4413881	US 301/SR 43 FROM N OF LAKE ST CHARLES BLVD TO N OF PROGRESS BLVD	New	0.20	SW 78 – Bahia Beach

Projects highlighted in green are newly added to the Program.

Projects highlighted in yellow have been removed from the Plan and acreages do not count towards totals.

Table Thirteen: FDOT Road Improvement Projects in the Upper Coastal Drainage Basin

FM No.	Project Description	FDOT Project Status	Total Impacted Acreage	Mitigation Location
2563231	SR 52 (Shcrader Hwy) from W of Suncoast Pkwy to E of US 41 (SR 45)	Deleted	18.10	Mitigation Bank
2563161	SR 52 Hicks to Moon Lake Rd.	Permitted	1.57	SW 74 - Serenova - Sites 2,3,4,8
2563221	SR 52 Moon Lake to Suncoast	Permitted	52.19	SW 77 - Conner Preserve
2563242	US 41 (SR 45) From N of Connerton Blvd to S of SR 52	Deleted	7.56	Mitigation Bank
2563241	US 41 (SR 45) Tower Rd. to Ridge Road	Permitted	60.17	SW 77 - Conner Preserve
2563321	SR 54 - Rowan Rd. to Mitchell	Permitted	28.08	SW 77 - Conner Preserve
2563361	SR 54 Mitchell to Gunn	Permitted	6.60	SW 54 - Anclote Parcel
2563371	SR 54 - Gunn Highway to Suncoast Parkway	Permitted	31.93	SW 77 - Conner Preserve
2563391	SR 54 N. Suncoast to US 41	Permitted	7.00	SW 54 - Anclote Parcel
2568151	SR 586 (Curlew Rd.) CR 1 to Fisher Road	Permitted	0.61	SW 77 - Conner Preserve
2569031	SR 682 (Bayway Bridge) SR 679 to W. Toll Plaza	Permitted	0.74	SW 70 - Ft. DeSoto Park
2569314	SR 694 (GANDY BLVD) FROM 40TH ST N TO E OF I- 275	Deleted	1.00	Mitigation Bank
2570501	SR 688 (Ulmerton Rd.) Oakhurst Rd. to 119th	Permitted	0.60	SW 77 - Conner Preserve
2570831	SR 699 (Gulf Blvd.) - 192nd Ave. to Walsingham/Ulmerton	Permitted	0.39	SW 70 - Ft. DeSoto Park
2570931	SR 60, Clearwater Harbor Bridge	Permitted	1.50	SW 45 - Gateway Tract
4058223	US 19 (SR 55) Jump Court to Ft. Island Trail	Permitted	52.17	SW 77 - Conner Preserve
2571741	US 98 Hernando Co. Line to US 19	Permitted	8.18	SW 77 - Conner Preserve
2572982	CR 578 (County Line Rd.) US 19 to East Rd.	Permitted	3.98	SW 77 - Conner Preserve

2572983	CR 578 (CLR) FROM East Rd to Mariner Blvd	Permitted	1.43	SW 77 - Conner Preserve
2572985	CR 578 (County Line Rd.) Suncoast Parkway to US	Permitted	2.89	SW 77 - Conner Preserve
4110142	I-75 (SR 93) from N of SR 52 to Pasco/Hernando C/L (design-build)	Permitted	3.98	SW 77 - Conner Preserve
4037711	US 19 - Republic Drive to CR 816 (Alderman Rd.)	Permitted	0.41	SW 77 - Conner Preserve
4058222	US 19 (SR 55) Green Acres to Jump Ct.	Permitted	3.02	SW 77 - Conner Preserve
4079513	SR 50 US 19 to Mariner Dr.	Permitted	6.13	SW 77 - Conner Preserve
4091541	SR 688 (Ulmerton) - Wild Acres to El Centro/Ranchero Blvd.	Permitted	3.09	SW 77 - Conner Preserve
4107552	SR 679 (Pinellas Bay Structure E) at Intercoastal Waterway	Permitted	1.00	SW 70 - Ft. DeSoto Park
4107552	SR 679 (Pinellas Bay Structure E) at Intercoastal Waterway	Permitted	0.04	SW 70 - Ft. DeSoto Park
4167351	SR 50/SR 50A Bypass from Broad St to	Deleted	1.00	Mitigation Bank
4188602	US 19 (SR 55) Continuous Right	Permitted	2.10	SW 77 - Conner Preserve
4337961	US 19 (SR 55) From N of CR 95 to N of Nebraska Ave	Deleted	0.30	Mitigation Bank
4348071	US 19 (SR 55) From S of Live Oak St to N of Brittany Park Blvd	Active	0.10	SW 77 – Conner Preserve
4357191	Tri-County Trail from Pasco C/L to S Terminus of Starkey Trail	Deleted	2.00	Mitigation Bank
4375141	US 19/US 98/ SR 55/ S Suncoast Blvd from Hernando County Line to W Green Acres	Active	0.24	Mitigation Bank
4375142	US 19/US 98/SR 55/S SUNCOAST BLVD FR HERNANDO CO LN TO W GREEN ACRES	Active	0.40	Mitigation Bank
4376231	Alt US 19/ SR 595 from Mohawk St to N of Tilden St/Skinner Blvd	Active	0.40	Mitigation Bank

4379401	US 19 (SR55) @ JOES CREEK BETWEEN 44TH AVE N AND 46TH AVE N	Deleted	0.24	Mitigation Bank
4394001	US 98/US 19/SR 55/N SUNCOAST BLVD AT INTERSECTION OF SR 44/NE 5TH ST	Deleted	1.98	Mitigation Bank
4375141	US 19/US 98/SR 55/S SUNCOAST BLVD FR HERNANDO CO LN TO W GREEN ACRES	New	0.06	SW 77 – Conner Preserve

Projects highlighted in green are newly added to the Program.

Projects highlighted in yellow have been removed from the Program and acreages do not count towards totals.

Table Fourteen: FDOT Road Improvement Projects in the Withlacoochee River Basin

FM No.	Project Description	FDOT Project Status	Total Impacted Acreage	Mitigation Location
2012041	I-4 East of CR 557 to Osceola County (Seg. 6-7,9)	Permitted	3.86	SW 59 - Hampton Tract
2012092	I-4 East of US 98 to East of CR 557 (Sec. 3-5)	Permitted	18.69	SW 59 - Hampton Tract
2426263	I-75 Hernando Co. Line to Florida Turnpike	Permitted	2.18	SW 84 - Colt Creek State Park
2426263	I-75 Hernando Co. Line to Florida Turnpike	Deleted	4.78	Green Swamp Mitigation Bank
2426263	I-75 Hernando Co. Line to Florida Turnpike	Deleted	0.78	Withlacoochee Mitigation Bank
2571651	US 41 from SR 44 to SR 200	Deleted	0.70	SW 92 -Halpata Tastanki Preserve
2571631	SR 44 US 41 to CR 470	Permitted	7.92	SW 64 - Withlacoochee S.F. - Baird
2571641	SR 44 CR 470 to Withlacoochee River	Permitted	13.23	SW 64 - Withlacoochee S.F. - Baird
2571841	US 41 (SR 45) Watson St. to SR 44 East	Permitted	0.06	SW 64 - Withlacoochee S.F. - Baird
4110113	I-75 (SR 93) from Pasco/Hernando C/L to US98/N SR50/Cortez Blvd	Permitted	7.08	SW 84 – Colt Creek State Park
4110114	I-75 (SR 93) from Pasco/Hernando C/L to US98/N SR50/Cortez Blvd	Permitted	0.34	SW 84 – Colt Creek State Park

4110142	I-75 (SR 93) from N of SR 52 to Pasco/Hernando C/L (design-build)	Permitted	3.05	SW 84 - Colt Creek State Park
4063291	I-75 Lk. Panasoffkee Bridge	Permitted	5.93	SW 57 - Lake Panasoffkee
4092071	CR 470 (Gospel Isle)	Permitted	0.23	SW 64 - Withlacoochee S.F. - Baird
4167324	SR 50 from Windmere Rd/Bronson Bl to US 98/McKethan Rd	Active	0.01	SW 84 - Colt Creek State Park
4167351	SR 50/SR 50A Bypass from Broad St to Jefferson N St	Active	1.00	SW 84 - Colt Creek State Park
4300512	SR 50 from Lockart Rd to E of Remington Rd	Deleted	0.60	No mitigation required
4301321	SR 35 (US 301) from CR 470 to SR 44	Active	7.54	Colt Creek State Park
4326971	SR50/700/US98/Cortez from E of SR50/Cortez BL to W of Live Oak Dr	Active	0.10	SW 84 – Colt Creek State Park
4358941	SR 575 Over Withlacoochee River Bridge #140031	Deleted	0.20	Dropped
4357201	Good Neighbor Trail Connector Fm W of Suncoast Pkwy to Terminus	Deleted	0.05	SW 84 - Colt Creek State Park
4385622	I-75 (SR93) at Sumter Co. NB Rest Area	Active	0.99	SW 84 – Colt Creek State Park
4358592	SR 50 FROM SR 35 (US 301) TO HERNANDO/SUMTER COUNTY LINE	New	69.23	SW 84 - Colt Creek State Park
4358593	SR 50 from Hernando/Sumter County Line to West of CR 757	New	13.5	SW 84 - Colt Creek State Park
4358594	SR 50 from W of CR 757 to the Sumter/Lake CL	New	26.6	SW 84 - Colt Creek State Park

Projects highlighted in green are newly added to the Program.

Projects highlighted in yellow have been removed from the Program and acreages do not count towards totals.

MITIGATION BANK EVALUATION

Chapter 373.4137, F.S., which establishes the FDOT Mitigation Program, requires that the District consider the “purchase of credits from public or private mitigation banks permitted under s. 373.4136 and associated federal authorization and shall include the purchase as a part of the mitigation plan when the purchase would offset the impact of the transportation project, provide equal benefits to the water resources than other mitigation options being considered, and provide the most cost-effective mitigation option.” Very few mitigation banks were available for use for approximately the first ten years of the FDOT Mitigation Program. As mitigation banks became available, the purchase of mitigation bank credits was considered in accordance with the statute. To date, mitigation for 18 FDOT road improvement projects is provided at one or more mitigation banks with funding that has passed through the District. The road improvement projects and the mitigation banks that have been used are listed in Table Fifteen. Descriptions of the mitigation banks used are included in the FDOT Mitigation Project Details section.

Table Fifteen: FDOT Road Improvement Projects for which mitigation is provided by mitigation bank credit purchased through the FDOT Mitigation Program.

FM No.	Project Description	Mitigation Location	Total Impacted Acreage
1937911	US 17 (SR 35) CR 74 to CR 764 North	SW 53 - Boran Ranch Mit. Bank	0.27
1937941	SR 776 CR 771 to Willow Bend Road	SW 52 - Little Pine Island Mit. Bank	2.08
1937981	US 17 (SR35) CR 764 South to CR 764 North	SW 53 - Boran Ranch Mit. Bank	0.27
1938851	SR 72 Sarasota Co. Line to SR 70	SW 53 - Boran Ranch Mit. Bank	1.19
1941021	US 17 (SR 35) SR 64 to Peace River Bridge	SW 53 - Boran Ranch Mit. Bank	2.30
1945101	US 27 Lake Glenada to Hal McRae	SW 49 - Reedy Ck. Mit. Bank	0.39
1980051	US 41 Bus. (SR 45) Venice Ave. to US 41 Bypass	SW 88 - Curry Creek ROMA	0.32
1984711	Trabue Harborwalk Bike Path	SW 52 - Little Pine Island Mit. Bank	0.16
1986371	Ft. Green/Ona (Seg. 2) Vandola to North of Vandolah	SW 53 - Boran Ranch Mit. Bank	4.27
1986381	Ft. Green/Ona (Seg. 3) SR 64 to Vandolah Rd.	SW 53 - Boran Ranch Mit. Bank	5.23
1986401	Ft. Green/Ona Road (Seg. 1) Vandolah to SR 62	SW 53 - Boran Ranch Mit. Bank	2.08
2012041	I-4, East of CR 557 to Osceola County (Sec. 6-7,9)	SW 49 - Reedy Ck. Mit. Bank	2.35
4046971	I-75 Bridge Widening over Peace River	SW 52 - Little Pine Island Mit. Bank	2.75

4063143	I-75 N. River Rd. (CR 577) to SR 681	SW 79 - Fox Creek ROMA	14.55
4063143	I-75 N. River Rd. (CR 577) to SR 681	SW 88 - Curry Creek ROMA	0.77
4130423	I-75 from Tucker's Grade to N. Jones Loop Road	SW 52 - Little Pine Island Mit. Bank	1.10
4154901	US 17 Charlotte C.L. to SW Collins	SW 85 - Peace River Mit. Bank	2.23
4154901	US 17 Charlotte C.L. to SW Collins	SW 53 - Boran Ranch Mit. Bank	2.15

The largest difficulty in performing a mitigation bank analysis when the FDOT Mitigation Plan is developed is determining whether mitigation bank credit will be available at the time the FDOT project is submitted for permitting. With mitigation bank options and FDOT mitigation needs constantly changing, this mitigation bank analysis becomes quickly outdated.

This situation is best remedied by performing an evaluation as to whether a mitigation bank may be used at the time the permit application is being prepared. This concept was included in the 2012 Mitigation Plan. Also, in 2012, revisions to the statute that directs how the FDOT Mitigation Program is to be implemented require that the FDOT perform a mitigation bank analysis when determining which projects are submitted for inclusion in the FDOT Mitigation Program. The initial inventory is developed in July of each year and finalized in December of that year for the Plan to be finalized by March 1st of the following year. These factors, combined with the federal permitting requirement that a mitigation bank evaluation be conducted during evaluating a permit application, resulted in multiple mitigation banks being used or proposed to be used for 29 FDOT projects that have not been fully permitted as of December 2018. These projects are listed in Table Sixteen. Since mitigation for these projects is provided outside the FDOT Mitigation Program, project descriptions for these mitigation banks are not included in the FDOT Mitigation Project Details section.

Table Sixteen: FDOT Road Improvement Projects for which mitigation is proposed to be provided by mitigation bank credit purchased directly by the FDOT¹.

FM No.	Project Description	Proposed Impact Acres
2426263	I-75 Hernando Co. Line to Florida Turnpike	4.78
2426263	I-75 Hernando Co. Line to Florida Turnpike	0.78
2563231	SR 52 (SCHRADER HWY) FROM W OF SUNCOAST PKWY TO E OF US 41 (SR 45)	18.10
2563242	US 41 from Ridge Rd to N of SR 52	7.56
2563341	SR 52 (SCHRADER HWY) US 41 to CR 581	7.41
2569314	SR 694 (GANDY BLVD) FROM 40TH ST N TO E OF I-275	1.00

2569314	SR 694 (GANDY BLVD) FROM 40TH ST N TO E OF I-275	1.00
2569961	SR 686 AT CR 611 (49TH ST)	0.31
2570861	SR 694 (GANDY BLVD) FROM EAST US19 (SR55) TO E OF I-275 (SR93)	12.67
4167351	SR 50/SR 50A BYPASS FROM BROAD ST TO JEFFERSON N ST	1.00
4229042	I275 (HOWARD FRKL) FM N OF HOWARD FRANKLAND TO S OR SR 60	4.25
4289551	I-75 (SR93A)& SR 60 FM S OF SR60 @ SLIP RMP TO N OF SR 60 AT CSX	2.54
4337961	US 19 (SR 55) FROM N OF CR 95 TO N OF NEBRASKA AVE	0.30
4360561	10TH & 11TH AVE S AT BOOKER CREEK BRIDGE #157235	0.20
4373121	I-75/SR 93A FROM MANATEE COUNTY LINE TO N OF CR 579	0.40
4337991	US19 (SR 55) FROM N OF CR 95 TO S OF PINE RIDGE WAY S	1.00
4357191	TRI-COUNTY TRAIL FROM PASCO CO/L TO S TERMINUS OF STARKEY TRAIL	2.00
4376401	US 301/SR 43 FM FALKNERBURG RD TO SLIGH AVE	1.00
4375141	US 19/US 98/ SR 55/ S Suncoast Blvd from Hernando County Line to W Green Acres	0.24
4376231	Alt US 19/ SR 595 from Mohawk St to N of Tilden St/Skinner Blvd	0.40
4376491	US 41/SR45/LAND O LAKES BLVD FR N OF EHREN CUTOFF TO N OF CALIENTE	0.02
4379401	US 19 (SR55) @ JOES CREEK BETWEEN 44TH AVE N AND 46TH AVE N	0.24
4394001	US 98/US 19/SR 55/N SUNCOAST BLVD AT INTERSECTION OF SR 44/NE 5TH ST	1.98
4394121	S MAYDELL DR AT PALM RIVER BRIDGE REPLACEMENT	0.50
4413871	US 41/SR 45 FROM N O F 15TH AVE TO S OF BULLFROG CREEK	0.55
4375142	US 19/US 98/SR 55/S SUNCOAST BLVD FR HERNANDO CO LN TO W GREEN ACRES	0.40
4413881	US 301/SR 43 FROM N OF LAKE ST CHARLES BLVD TO N OF PROGRESS BLVD	0.75
4395321	MORRIS BRIDGE ROAD FROM FOWLER AVE TO FLETCHER AVE	0.20
4351421	SR 52 EXTENSION FROM E OF MCKENDREE RD TO E O F US 301 (MIRADA PORTION)	2.03

4245133	I-75 @ BIG BEND ROAD SB OFF RAMP & Big Bend Road Widening Design Build	1.77
4327342	OVERPASS ROAD INTERCHANGE FROM OLD PASCO ROAD TO BOYETTE RD	3.40
4318212	I-275 (SR 93) FROM N OF MLK TO N OF BUSCH BLVD (TBN Seg 7)	0.10

Projects highlighted in green are newly added.

Projects highlighted in yellow have been.

¹This a partial list of all mitigation bank credits purchased by the FDOT since not all FDOT Districts report this information with the inventories submitted for inclusion in the 2019 FDOT Mitigation Plan.

Mitigation bank names are not given here as the bank name was not provided in most cases.

As mentioned previously, statutory changes made in 2012 direct the FDOT to determine which projects to include or exclude from the mitigation plan by investigating the use of credits from a permitted mitigation bank before those projects are submitted for inclusion in the Plan. The FDOT is required to evaluate public and private mitigation banks that have both state and federal permits as of December 2018 and have a service area in which the wetland impact is located. The cost analysis performed is a comparison of the cost per impact acre established by statute with the cost per credit based on information provided by the mitigation banker. Also, the FDOT's ongoing due diligence includes review of the type and amount of mitigation credits available to determine whether wetland impacts could be offset with a public or private mitigation bank. These road improvement projects will remain in or are added to the District's 2019 FDOT Mitigation Plan, until the time permit applications are prepared for these projects and an updated mitigation analysis will be conducted by the FDOT to determine whether changes to the road improvement project or the available mitigation bank options now make it feasible to offset impacts at the mitigation bank instead of through the FDOT Mitigation Program.

FDOT MITIGATION PROJECTS

There are a total 38 mitigation projects that have been established through the FDOT Mitigation Program contributing to the habitat protection and restoration priorities of various resource agencies. The distribution of projects among resource agencies and the number of FDOT Mitigation projects sponsored are listed in Table Seventeen.

Table Seventeen: Resource Agencies sponsoring FDOT Mitigation projects.

Project Resource Agency	Number of Projects
Southwest Florida Water Management District	11
Florida Department of Environmental Protection	4
Florida Division of Forestry	1
Florida Fish and Wildlife Conservation Commission	1
Alachua County	1
Hillsborough County	9
Manatee County	1
Pinellas County	4
Polk County	2
Sarasota County	2 (Regional Offsite Mitigation Areas)
City of Tampa	1
City of St. Petersburg	1

Two notable mitigation projects are Ft. DeSoto Park (SW 70), a Pinellas County project, and Circle B Bar Reserve (SW 66), a Polk County project. The seagrass restoration at Ft. DeSoto is recognized by the National Oceanic and Atmospheric Administration with a Coastal America Partnership Award and Circle B Bar Reserve is recognized by both the Audubon of Florida and USA Today for the wildlife use of the habitats that have been restored. The four mitigation banks used by the FDOT Program are not included above.

The statute establishing the FDOT Mitigation Program specifies that mitigation projects focus on activities of the Water Management Districts and the Department of Environmental Protection such as Surface Water Improvement and Management (SWIM) projects, land acquisition and control of invasive and exotic plants to the extent these projects meet mitigation requirements for the FDOT road improvement projects. Mitigation projects that include these specified elements are tallied in the following Table.

Table Eighteen: FDOT Mitigation Projects that include elements specified by Chapter 373.4137, F.S.

Project Type	Number of Projects
SWIM Projects	15
Land Acquisition	6
Aquatic/ Exotic Plant Control	15

The number of proposed FDOT projects having substantial wetland impacts for the FDOT Mitigation Program have declined, especially in recent years. With mitigation available through a private mitigation bank or a mitigation project already adopted into the FDOT Mitigation Program, there has been a need to add only one new mitigation project to the Program since 2008. The three projects that

were added in 2009 were removed the following year when the FDOT mitigation needs changed and these projects were no longer needed. All mitigation projects that remain in the Program will be evaluated to identify which have available mitigation that exceeds the projected need by the FDOT. For these projects, options to reduce excess mitigation will be explored. Furthermore, the ecological benefit projected to be achieved by the active mitigation projects (currently being used for mitigation) is being verified by the Army Corps of Engineers when permitting FDOT road improvement projects. Nearly 75% of all the existing mitigation projects have been completed and are in the perpetual management phase. Table Nineteen summarizes the status of all mitigation projects.

Table Nineteen: Status of FDOT Mitigation Projects¹

Project Status	Number of Projects
Perpetual Management	21
Monitoring and Perpetual Management	13
Maintenance and Monitoring	1
Construction and Maintenance	0
Design and Permitting	0

¹Excludes Mitigation Banks, Regional Off-site Mitigation Areas (ROMAs) and projects implemented by DEP; some projects are in more than one status because they are being implemented in phases.

Tables Twenty through Twenty-Eight summarize information for all active District mitigation projects. Detailed site descriptions for each active Mitigation Project are included in the following FDOT Mitigation Project Details report section. Additional project sites such as ROMAs and Private Mitigation Banks where credit was historically purchased through the FDOT Mitigation Program and are not currently considered active projects for this year's Annual Plan and are included in Table Twenty-Nine. Project details for these ROMAs and Private Mitigation Banks can be found in previous annual mitigation Plans.

Table Twenty: FDOT Mitigation Projects in the Hillsborough River Basin

Project ID	Project Name	SWIM Project?	Mitigation Bank?	ROMA?	Landowner	Status
SW 34	Lake Thonotosassa Shoreline Restoration	Yes	No	No	SWFWMD	Perpetual Management
SW 55	Upper Hillsborough 4&5	No	No	No	SWFWMD	Perpetual Management
SW 61	Cypress Creek Preserve, West-Jennings Tract	No	No	No	Hillsborough County	Perpetual Management

SW 77	Conner Preserve	No	No	No	SWFWMD	Perpetual Management
SW 84	Colt Creek State Park, Phase 2	no	No	No	SWFWMD and Trustees of Internal Improvement Trust Fund	Perpetual Management

Table Twenty-One: FDOT Mitigation Projects in the Little Manatee River Basin

Project ID	Project Name	SWIM Project?	Mitigation Bank?	ROMA?	Landowner	Status
SW 83	Little Manatee River-Lower Tract	No	No	No	Hillsborough County	Maintenance and Monitoring

Table Twenty-Two: FDOT Mitigation Projects in the Lower Coastal Basin

Project ID	Project Name	SWIM Project?	Mitigation Bank?	ROMA?	Landowner	Status
SW 38	Quick Point Nature Preserve	No	No	No	Town of Longboat Key	Monitoring and Perpetual Maintenance

Table Twenty-Three: FDOT Mitigation Projects in the Manatee River Basin

Project ID	Project Name	SWIM Project?	Mitigation Bank?	ROMA?	Landowner	Status
SW 50	Terra Ceia Restoration	Yes	No	No	Trustees of Internal Improvement Trust Fund	Monitoring and Perpetual Management
SW 65	Rutland Ranch-South Tract	No	No	No	SWFWMD	Monitoring and Perpetual Management
SW 80	Hidden Harbour	No	No	No	Manatee County	Monitoring and Perpetual Management

Table Twenty-Four: FDOT Mitigation Projects in the Myakka River Basin

Project ID	Project Name	SWIM Project?	Mitigation Bank?	ROMA?	Landowner	Status
SW 31	Cattle Dock Point, Phase II	Yes	No	No	Trustees of Internal Improvement Trust Fund	Perpetual Management

Table Twenty-Five: FDOT Mitigation Projects in the Peace River Basin

Project ID	Project Name	SWIM Project?	Mitigation Bank?	ROMA?	Landowner	Status
SW 66	Circle B Bar Preserve	No	No	No	Polk County and SWFWMD	Perpetual Management

Table Twenty-Six: FDOT Mitigation Projects in the Tampa Bay Drainage

Project ID	Project Name	SWIM Project?	Mitigation Bank?	ROMA?	Landowner	Status
SW 45	Gateway Restoration	Yes	No	No	Pinellas County	Perpetual Management
SW 56	Cockroach Bay Restoration -Freshwater	Yes	No	No	Hillsborough County	Monitoring and Perpetual Management
SW 62	Tappan Tract	Yes	No	No	City of Tampa	Perpetual Management
SW 67	Apollo Beach Nature Preserve	Yes	No	No	Hillsborough County	Perpetual Management
SW 71	Boyd Hill Nature Preserve	No	No	No	City of St. Petersburg	Monitoring and Perpetual Management
SW 75	Cockroach Bay Restoration - Saltwater	Yes	No	No	Hillsborough County	Monitoring and Perpetual Management
SW 78	Bahia Beach	Yes	No	No	Hillsborough County	Monitoring and Perpetual Management

SW 82	Ekker Tract	Yes	No	No	SWFWMD	Monitoring and Perpetual Management
SW 86	Mobbly Bayou Wilderness Preserve, Phase 1	Yes	No	No	Pinellas County and City of Oldsmar	Monitoring and Perpetual Management
SW 87	Alligator Lake Mgmt. Area	Yes	No	No	Pinellas County	Monitoring and Perpetual Management
SW 90	Brooker Creek Buffer Preserve	No	No	No	Hillsborough County	Perpetual Management

Table Twenty-Seven: FDOT Mitigation Projects in the Upper Coastal Drainage

Project ID	Project Name	SWIM Project?	Mitigation Bank?	ROMA?	Landowner	Status
SW 54	Anclote Parcel	No	No	No	SWFWMD	Monitoring and Perpetual Management
SW 70	Ft. DeSoto Park	Yes	No	No	Pinellas County	Perpetual Management
SW 74	Serenova Preserve-Sites 2, 3, 4, 8	No	No	No	SWFWMD	Perpetual Management
SW 77	Conner Preserve	No	No	No	SWFWMD	Perpetual Management

Table Twenty-Eight: FDOT Mitigation Projects in the Withlacoochee River Basin

Project ID	Project Name	SWIM Project?	Mitigation Bank?	ROMA?	Landowner	Status
SW 59	Hampton Tract	No	No	No	SWFWMD	Perpetual Management

SW 84	Colt Creek State Park, Phase 2	No	No	No	SWFWMD and Trustees of Internal Improvement Trust Fund	Perpetual Management
SW 84	Colt Creek State Park, Phase 3	No	No	No	SWFWMD and Trustees of Internal Improvement Trust Fund	Monitoring and Perpetual Management
SW 92	Halpata Tasthanaki Preserve	No	No	No	SWFWMD	Perpetual Management

Table Twenty-Nine: Additional FDOT Mitigation Projects currently Inactive

Project ID	Project Name	SWIM Project?	Mitigation Bank?	ROMA?	Landowner	Status
SW 47	Tenoroc-Bridgewater Tract	No	No	No	Florida Fish & Wildlife	N/A (Implemented by the FDEP)
SW 49	Reedy Creek Mitigation Bank	No	Yes	No	Private	N/A
SW 51	Myakka River State Park	No	No	No	Trustees of Internal Improvement Trust Fund	N/A (Implemented by the FDEP)
SW 52	Little Pine Island Mitigation Bank	No	Yes	No	Private	N/A
SW 53	Boran Ranch Mitigation Bank	No	Yes	No	Private	N/A
SW 57	Lake Panasoffkee Restoration	Yes	No	No	SWFWMD	Perpetual Management

SW 58	Barr Hammock-Ledwith Prairie	No	No	No	Alachua County	Perpetual Management
SW 64	Withlacoochee State Forest-Baird Tract	No	No	No	Trustees of the Internal Improvement Trust Fund /Division of Forestry	N/A (Implemented by the FDEP)
SW 69	I-75 Peace River Bridge Restoration	No	No	No	FDOT	Perpetual Management
SW 76	Lake Lowery Tract	No	No	No	Polk County and SWFWMD	Perpetual Management
SW 79	Fox Creek ROMA	No	No	Yes	Sarasota County	N/A
SW 85	Peace River Mitigation Bank	No	Yes	No	Private	N/A
SW 88	Curry Creek ROMA	No	No	Yes	Sarasota County	N/A

FDOT MITIGATION PROJECT DETAILS

SW-87 ALLIGATOR LAKE MANAGEMENT AREA MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Alligator Lake Management Area	Project Number	SW-87/D053
Project Type	Creation and enhancement		
Landowner	Pinellas County	Management Entity	Pinellas County
County	Pinellas	Watershed	Tampa Bay Drainage
Water bodies	Alligator Lake, Tampa Bay	Water body Designations	SWIM Water Body
Project implementation status: (As of December 2018):	Monitoring and Perpetual Management		
Project utilization: (As of December 2018)	Permitted FDOT projects: 2		
	Planned, not yet permitted, FDOT projects: None		
S/T/R:	9/29S/16E		

IMPACT INFORMATION (As of December 2018):

Watershed	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Tampa Bay Drainage	4290081	SR 597 Dale Mabry from County Line Rd to N of Brinson Rd	0.57	44007155.014	2013-00588
Tampa Bay Drainage	4289541	I-75 (SR93A) NB on Ramp from EB/WB I-4 to South of Bypass Canal	0.79	43042183.000	2015-02605
		Total:	1.36		

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Marsh	Creation	Tampa Bay Drainage	3.54
Marsh	Enhancement	Tampa Bay Drainage	2.67
Stream	Creation	Tampa Bay Drainage	1.31
Mixed wetland hardwoods	Enhancement	Tampa Bay Drainage	2.46
Mixed wetland hardwoods (forested shelf)	Creation	Tampa Bay Drainage	1.31
		Total:	11.29

PROJECT DESCRIPTION

A. Overall project goals: The Alligator Lake Management Area is a 53-acre preserve owned and managed by Pinellas County located adjacent to the City of Safety Harbor in northeastern Pinellas County. The preserve includes two parcels bordering the 70-acre Alligator Lake, a man-made freshwater lake. Alligator Lake outfalls into Tampa Bay, a state-designated SWIM priority waterbody. The project goal includes the substantial enhancement, restoration and creation of appropriate wetland and upland habitats within a 34-acre portion of the preserve.

B. Brief description of pre-construction habitat conditions: The project includes proposed improvements to habitats within the eastern half (22.7 acres) of the "North Parcel" and the entire "South Parcel" (8.7 acres) that border Alligator Lake. Habitats include upland shrub, live oak hammock, mixed wetland hardwoods, willow shrub wetlands, cabbage palm, exotic wetland forest and marsh habitat.

C. Brief description of construction activities and current habitat conditions: Pinellas County has completed a the habitat restoration that focuses on improving the existing upland and wetland habitats that provide some ecological value, while replacing most of the low-quality upland ruderal, wetland shrub and exotic hardwood habitat by creating additional mixed forested wetlands. Since there are three documented rookeries adjacent to the project area, establishing additional marsh habitat provides foraging opportunities for wading birds. By enhancing and creating forested wetland that buffers the marshes, there are also more roosting and nesting opportunities. For the low-quality willow marsh in the North Parcel, floating tussock and underlying sediments were dredged and removed, followed by planting of appropriate herbaceous species. To provide additional rookery and nesting opportunities for wading birds, clean fill obtained from constructing Wetland #3 was used to create four small temperate hardwood islands in the constructed marsh. Additional temperate hardwoods were created on both parcels to displace the remaining upland shrub and to buffer the adjacent constructed wetlands. To provide additional habitat diversity, the cabbage palm habitat in the south parcel and pine-mesic oak habitat in the north parcel were enhanced to provide appropriate pine flatwood habitat.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): Since Alligator Lake habitat activities included a high percentage of wetland creation constructed in 2011, the project was originally selected to the FDOT program to primarily provide appropriate mitigation credits for long-range, low-quality FDOT wetland impacts that will occur in the Tampa Bay Drainage basin.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: At the time the FDOT projects were submitted for inclusion in the FDOT Mitigation Program, the Tampa Bay Mitigation Bank had insufficient credit to offset the identified wetland impacts. Consideration of the Tampa Bay Mitigation Bank as a mitigation option will be given as the FDOT develops its inventory of road improvement projects for future updates to this Plan.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: The proposed habitat improvements associated with this project are within a designated SWIM project.

PROJECT IMPLEMENTATION

- Project Development: 2008
- Design and Permitting: 2008
- Construction: 2011
- Monitoring: 2012, 2013, 2014, 2015, 2016, 2017
- Maintenance: 2011-Present
- Perpetual Management: Ongoing

Entity responsible for construction: Private Contractor selected by Pinellas County

Entity responsible for monitoring and maintenance: SWFWMD

Entity responsible for perpetual management: Pinellas County is responsible for county land and/or private contractor selected by SWFWMD for FDOT site.

Cost for 2018 Monitoring: \$20,856.31

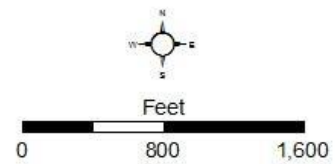
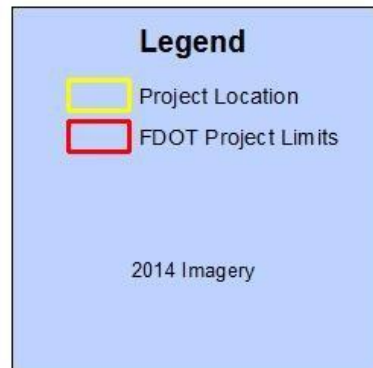
Cost for 2018 Maintenance: \$37,248.00

Total Cost for FDOT Mitigation Including 2018 M&M: \$1,027,958.75

ATTACHMENTS

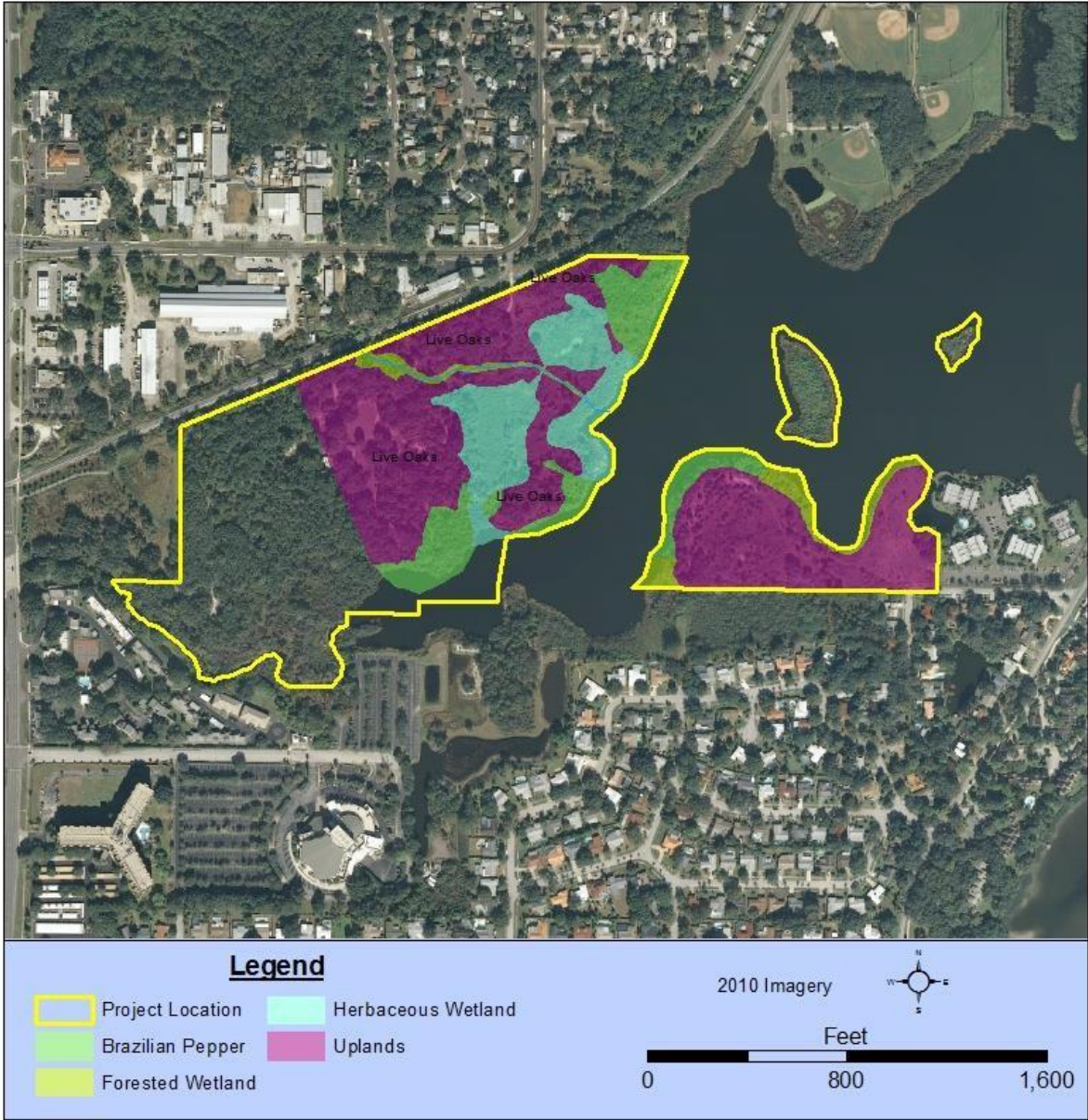
1. Figure A-Location
2. Figure B-Pre-Construction (2010)
3. Figure C-Post-Construction (2014)
4. Photographs (2014 & 2016)

**SW 87 - Alligator Lake Management Area
Figure A - Location (9/29S/16E)**



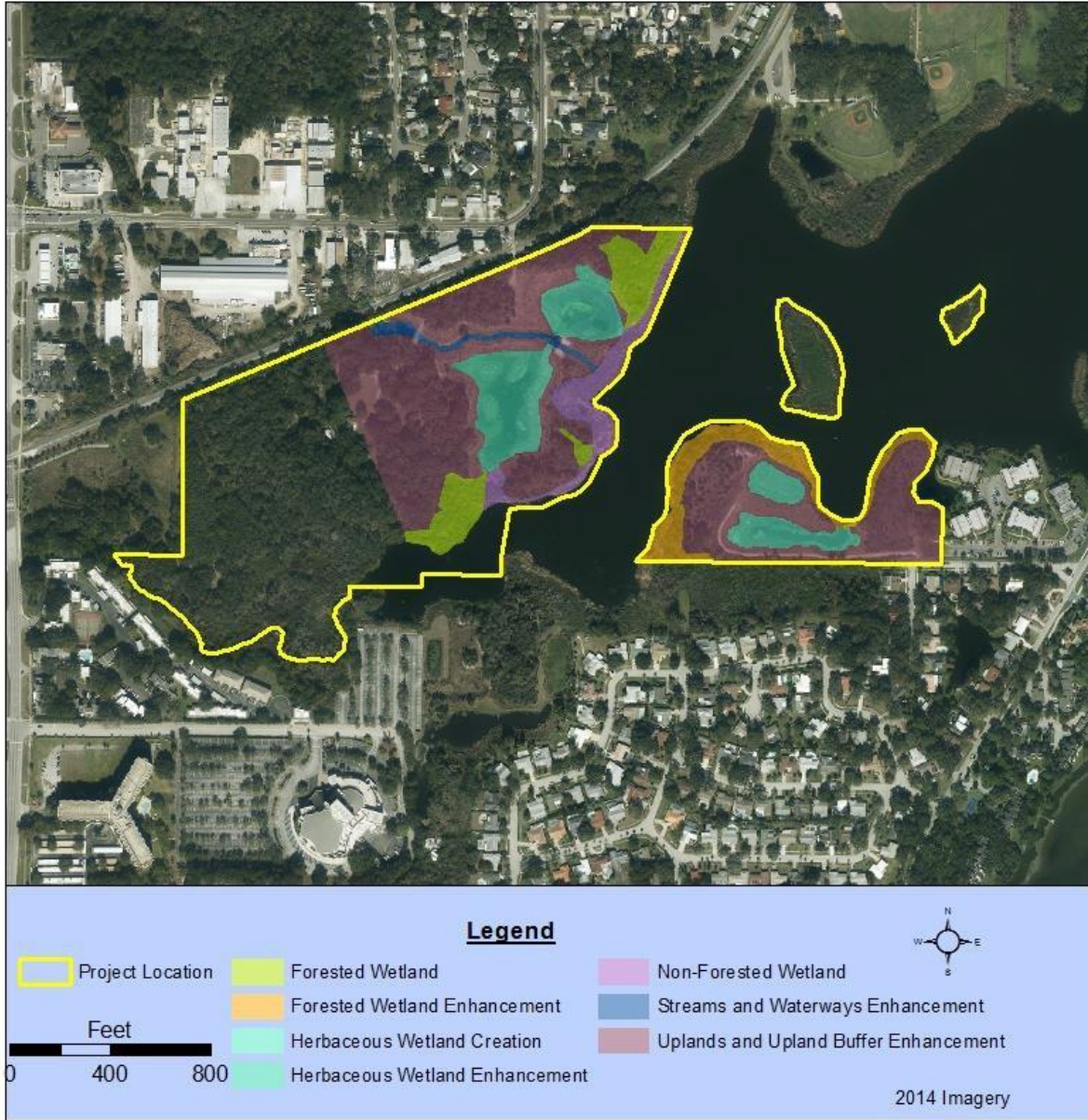
FDOT Mitigation Plan

SW 87 - Alligator Lake Management Area
Figure B - Pre-Construction (9/29S/16E)



FDOT Mitigation Plan

SW 87 - Alligator Lake Management Area
Figure C - Post-Construction (9/29S/16E)



FDOT Mitigation Plan



Photo of a Limpkin observed foraging near qualitative station i. (October 2016)



Photo taken from qualitative monitoring marsh 1. Transect 2, facing southwest. (October 2016)

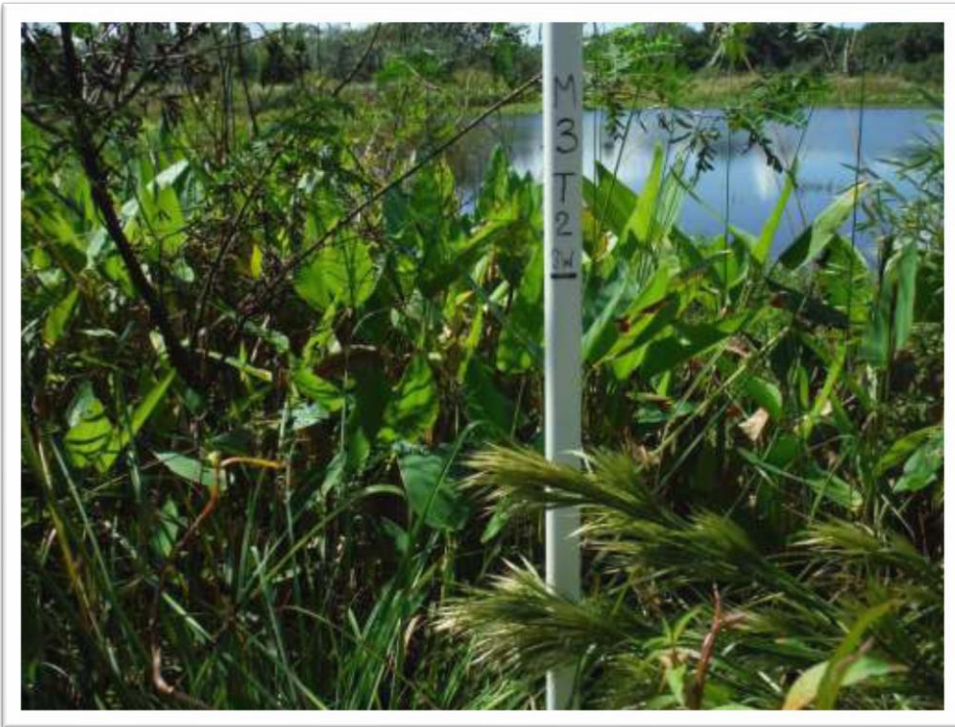


Photo taken from qualitative monitoring marsh 3. Transect 2, facing southwest. (October 2016)



Photo taken from qualitative station E, facing west. (October 2016)



Alligator Lake South Tract. (2014)

SW-54 ANCLOTE PARCEL MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Anclote Parcel	Project Number	SW-54/D017
Project Type	Wetland enhancement, preservation; Upland Enhancement		
Landowner	Southwest Florida Water Management District	Management Entity	Southwest Florida Water Management District
County	Pasco	Watershed	Upper Coastal
Water bodies	Anclote River	Water body Designations	None
Project implementation status: (As of December 2018):	Monitoring and Perpetual Management		
Project utilization: (As of December 2018)	Permitted FDOT projects: 2		
	Planned, not yet permitted, FDOT projects: None		
S/T/R:	7,18/26S/17E		

IMPACT INFORMATION (As of December 2017):

Watershed	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Anclote River	2563361	SR 54 Mitchell to Gunn	6.60	43016251.002	1999-05202
Anclote River	2563391	SR 54 Suncoast to US 41	7.00	43016251.000	1995-04576
		Total Impact Acreage:	13.60		

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
River, mixed hardwood floodplain forest, mixed forested wetland, pine flatwoods, oak hammocks	Enhancement and Preservation	Anclote River	179
Freshwater marsh	Creation	Anclote River	6
		Total:	185

PROJECT DESCRIPTION

A. Overall project goals: Public agency (SWFWMD) acquisition, enhancement, and long-term management of 179 acres of high quality habitat including a portion of the Anclote River and associated mixed hardwood floodplain forest, mixed forested wetland (cypress dominant), buffers of pine flatwoods, and oak hammocks. Mitigation also includes creation of 6-acres of freshwater marsh (Figure B) in a borrow pit that existed on the property. Perpetual management primarily includes prescribed burns.

B. Brief description of pre-construction habitat conditions: Prior to public acquisition, the tract's habitats were in relatively high-quality condition except for the borrow pit and the lack of prescribed

burn management in the uplands. Wetland and upland conditions adjacent to the Anclote River includes high quality habitat characteristics that form wildlife habitat corridors connecting to adjacent public lands associated with over 18,000 acres of property owned and managed by the SWFWMD (Figure A - J.B. Starkey Wilderness Preserve and Serenova Tract). The mixed forested wetland habitat includes a diversity of tree species such as bald cypress, water oak, laurel oak, swamp tupelo and red maple. The wetlands are bordered by pine flatwoods and live oak hammocks.

C. Brief description of construction activities and current habitat conditions: For preservation mitigation credit, the FDOT mitigation program reimbursed the WMD for the 185-acre acquisition. A 10-acre borrow pit was filled to provide 6 acres of marsh habitat for FDOT mitigation, surrounded by a 4-acre perimeter of planted cypress used as County mitigation for Starkey Blvd.

As of 2016, the project continues to be maintained through the District's Land Management Program. The created marsh includes a large area of cattails that will be treated in the winter of 2016-17.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): The mitigation creates and preserves wetlands providing functions like those lost due to the expansion of two SR 54 roadway segments located two miles south of the mitigation area. The preserved wetlands are buffered by the preservation and enhancement of upland habitat. There are no additional wetland impacts associated with other roadway projects proposed for mitigation at the Anclote Parcel. The acquisition, preservation, and enhancement of this 185-acre tract appropriately and adequately mitigates for the 13.60 acres of wetland impact at a cumulative ratio of approximately 14 to 1.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: No mitigation banks were proposed in the Upper Coastal drainage basin during mitigation selection.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: No SWIM projects were proposed in the Upper Coastal basin during the mitigation selection process.

PROJECT IMPLEMENTATION

- Project commencement: 1999
- Parcel acquired: 2000
- Monitor: 2014, 2015, 2016, 2017
- Maintenance: 2015-Present
- Perpetual Management: Ongoing

Entity responsible for construction: SWFWMD

Entity responsible for monitoring and maintenance: SWFWMD

Entity responsible for perpetual management: SWFWMD

Cost for 2018 monitoring: \$7,920.87

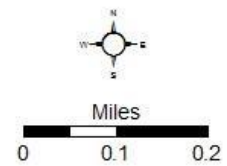
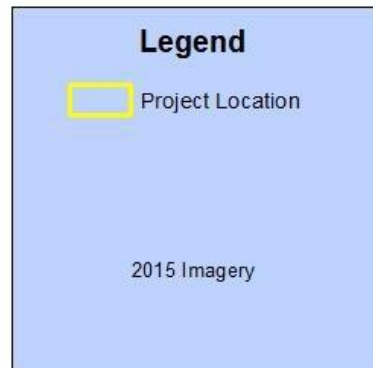
Cost for 2018 maintenance: \$4,000.00

Total Cost for FDOT Mitigation Including 2018 M&M: \$763,102.80

ATTACHMENTS

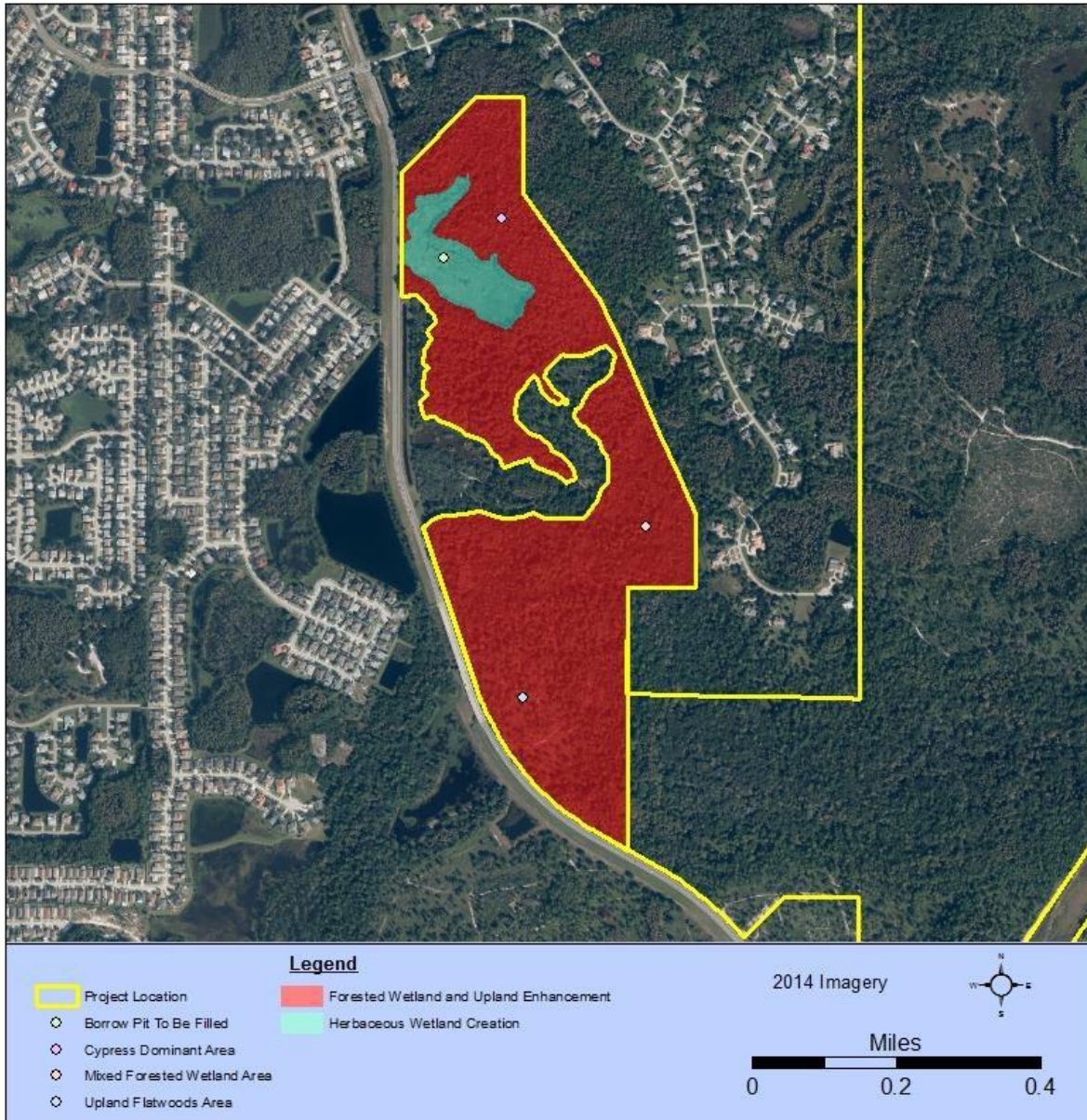
1. Figure A-Location
2. Figure B-Pre-Construction (2014)
3. Figure C-Post-Construction (2014)
3. Photographs (undated, 2014)

**SW 54 - Ancloste Parcel
Figure A - Location (7,18/26S/17E)**



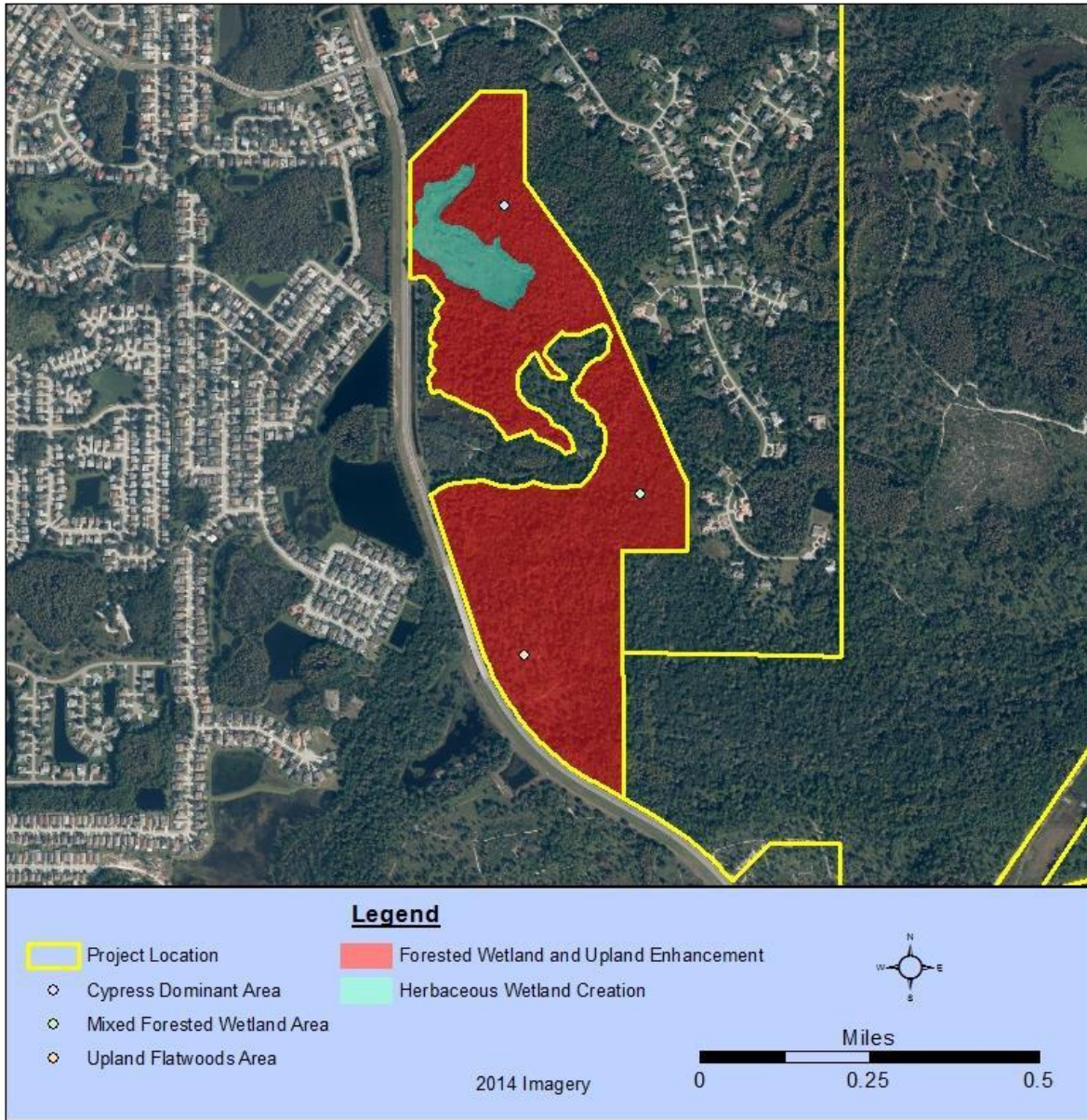
FDOT Mitigation Plan

SW 54 - Ancloste Parcel
Figure B - Pre-Construction (7,18/26S/17E)



FDOT Mitigation Plan

SW 54 - Anclole Parcel
Figure C - Post-Construction (7,18/26S/17E)



FDOT Mitigation Plan



The mixed forested wetland within the northern portion of the tract is dominated by bald cypress, with additional dense canopy coverage provided by red maple, tupelo, dahoon holly, and a perimeter of water and laurel oaks.



The Anclote River meanders through the southern portion of the site. The river has an incised channel predominantly bordered with forested wetlands dominated by laurel oak, red maple and cabbage palm.



One of the flatwood communities at the site. These areas have not received prescribed burns for several years, allowing the overgrowth of palmetto and generation of wax myrtle and oak species.



One of several small oak hammocks located along the perimeter of some wetlands and sand deposits formed due to periodic overflow of the Anclote River.



Cypress at Anclote Parcel. (2014)

SW-67 APOLLO BEACH NATURE PRESERVE MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Apollo Beach Nature Preserve	Project Number	SW-67/D024
Project Type	Wetland creation		
Landowner	Hillsborough County	Management Entity	Hillsborough County/Southwest Florida Water Management District
County	Hillsborough	Watershed	Tampa Bay Drainage
Water bodies	Tampa Bay	Water body Designations	SWIM Water Body
Project implementation status: (As of December 2018):		Perpetual Management	
Project utilization: (As of December 2018)		Permitted FDOT projects: 1	
		Planned, not yet permitted, FDOT projects: None	
S/T/R:		16,17/31S/19E	

IMPACT INFORMATION (As of December 2018):

	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Tampa Bay Drainage	2557031	SR 60 Cypress St. to Fish Creek ¹	6.80	43002958.003	2002-05816
		Total Impact Acreage:	6.80		

¹ Additional mitigation for other impacts associated with this project are provided at Cockroach Bay (Freshwater - SW-56), the Tappan Tract (SW-62) and Cockroach Bay (Saltwater - SW-75).

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Intertidal low marsh and mangroves	Creation	Tampa Bay Drainage	13.8
		Total:	13.8

PROJECT DESCRIPTION

A. Overall project goals: This project involved the creation of various coastal habitats to replace an extensive spoil disposal area constructed in 1955 from adjacent dredged material from Tampa Bay. The total project area is 38 acres, on a site purchased through Hillsborough County's Environmental Lands Acquisition and Protection Program (ELAPP). The tract is owned and managed by Hillsborough County, with the habitat creation constructed in collaboration with the SWFWMD SWIM section. The constructed habitats and associated acreage include intertidal low marsh and mangroves (13.8 acres), intertidal high marsh (7.2 acres), intertidal open water (10.8 acres), dunes (1.2 acres), and upland enhancement (5.0 acres). The designated area mitigating for the FDOT wetland impacts include only the 13.8 acres of created low marsh, with mangrove species naturally recruiting in the low marsh.

B. Brief description of pre-construction habitat conditions: Prior to construction in 2004, most of the pre-construction site was low-quality upland habitat from numerous plant species that colonized the site in the 47 years since construction of the filled Apollo Beach peninsula. With sterile dredged soils creating a spoil "plateau" and minimal seed sources of desirable upland species, the "plateau" (average elev. 9-10 ft.) offered little opportunity for desirable species to colonize.

C. Brief description of construction activities and current habitat conditions: In 2004, most of the spoil material was hauled off-site and the project site was graded to create low and high marsh habitat. The construction emphasized an interconnected network of open water channels and deeper pools, a myriad of planted marsh platforms at various elevations, saltern habitat, sinuous edge communities, and areas of upland enhancement and restoration. The open water component is particularly important in the design to provide feeding and resting habitat for the Florida manatee that frequent the area due to the neighboring warm-water discharge from the Tampa Electric Company's (TECO) Big Bend Power Station.

The intertidal low marsh and mangrove wetland zone (13.8 acres) is designated to mitigate for the FDOT wetland impacts. This zone (elevations 0.5 to +2.0 ft.) was planted with *Spartina alterniflora*, and mangrove species have naturally recruited during the initial growing seasons (photographs). The existing eastern shoreline is dominated by mangroves and was preserved to inhibit erosion and provide a seed source for mangrove seedling recruitment.

Monitoring was conducted semi-annually through 2008, at which time success criteria were met with minimal need for maintenance. The success criteria included a total 85% cover of planted and recruited desirable species. The habitat conditions attract substantial diversity of wildlife and vegetation species. Additional maintenance work is planned for this site in 2017 but is expected to be minimal.

B. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): The 6.80 acres of the saltwater marsh impacts associated with the above referenced FDOT project are mitigated by the creation of 13.8 acres of intertidal low marsh and mangrove habitat. The FDOT mitigation area is buffered with the creation of other estuarine habitats, increasing the ecological value and wildlife benefits of the designated mitigation. No additional FDOT wetland impacts are proposed for mitigation at the project site.

C. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: During the selection of the mitigation, the Tampa Bay Mitigation Bank (TBMB) was the only proposed mitigation bank within the Tampa Bay Drainage Basin; however, the bank was not under construction nor did it have any credits available to sell.

D. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: The Apollo Beach restoration project is a SWIM project. Constructed through the SWFWMD SWIM section, the site is owned and managed by Hillsborough County.

PROJECT IMPLEMENTATION

- Planning and design: Completed 2002
- Construction: Completed 2003-2004
- Monitor: 2007, 2008, 2014, 2015, 2016, 2017
- Maintenance: 2005-Present
- USACE release letter submitted: May 19, 2017
- Perpetual Management: Ongoing

Entity responsible for construction: SWFWMD SWIM section

Entity responsible for monitoring and maintenance: SWFWMD is responsible for FDOT site; however, quantitative monitoring will no longer be performed, and site will go into perpetual maintenance.

Entity responsible for perpetual management: Hillsborough County-Regional Parks & Conservation Land Management is responsible for county lands and/or private contractor selected by SWFWMD for FDOT site.

Cost for 2018 monitoring: \$6,323.72

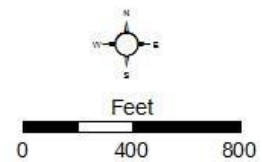
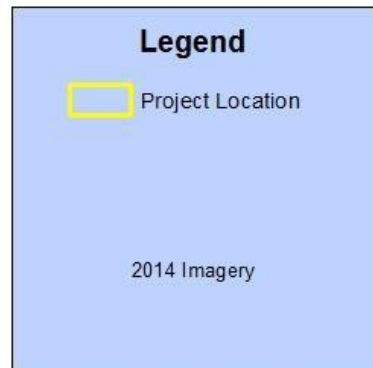
Cost for 2018-19 maintenance: \$38,000.00

Total Cost for FDOT Mitigation Including O&M: \$555,874.84

ATTACHMENTS

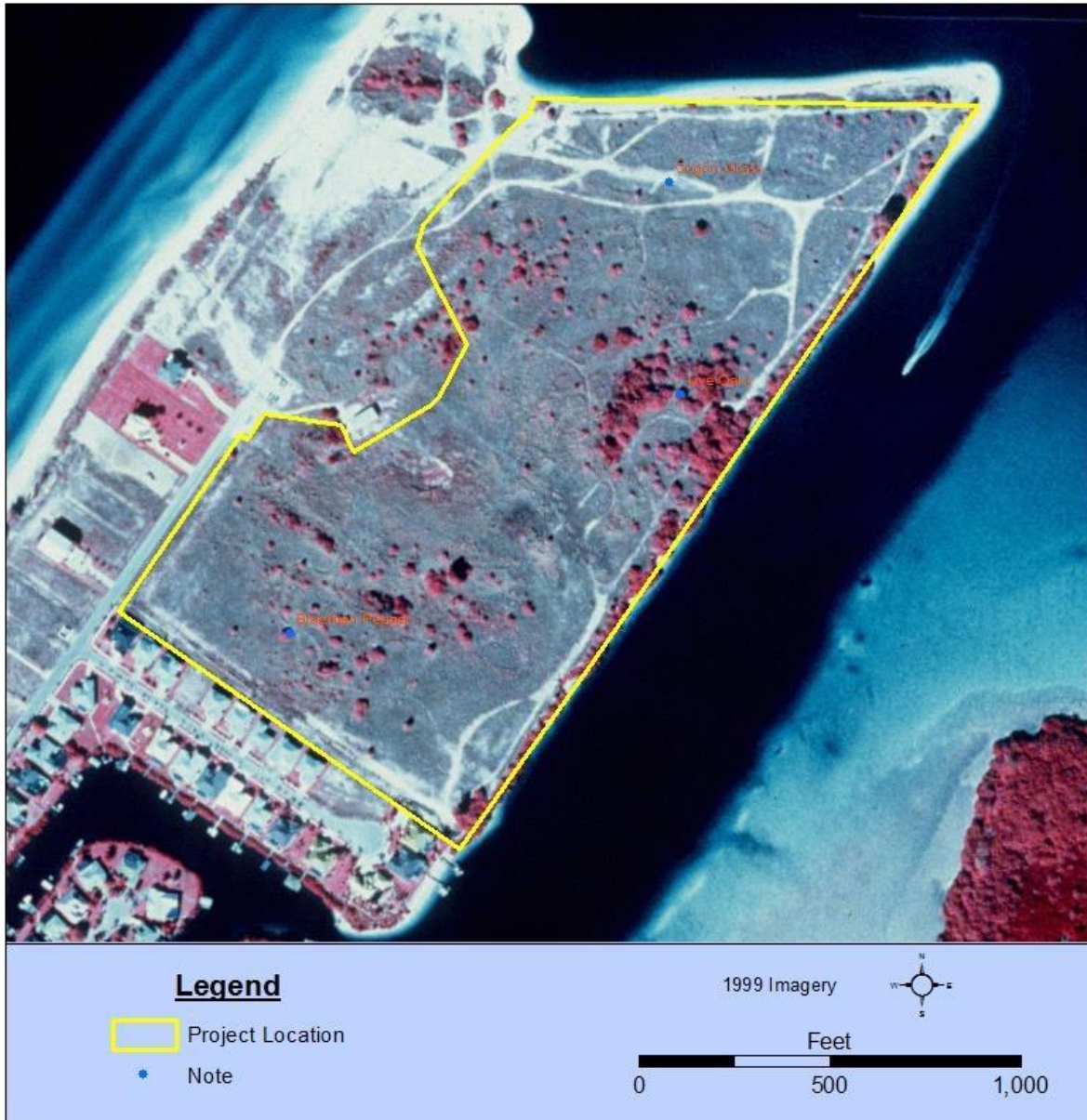
1. Figure A-Location
2. Figure B-Pre-Construction (1999)
3. Figure C-Post-Construction (2014)
4. Photographs (2016)

**SW 67 - Apollo Beach Nature Preserve
Figure A - Location (16,17/31S/19E)**



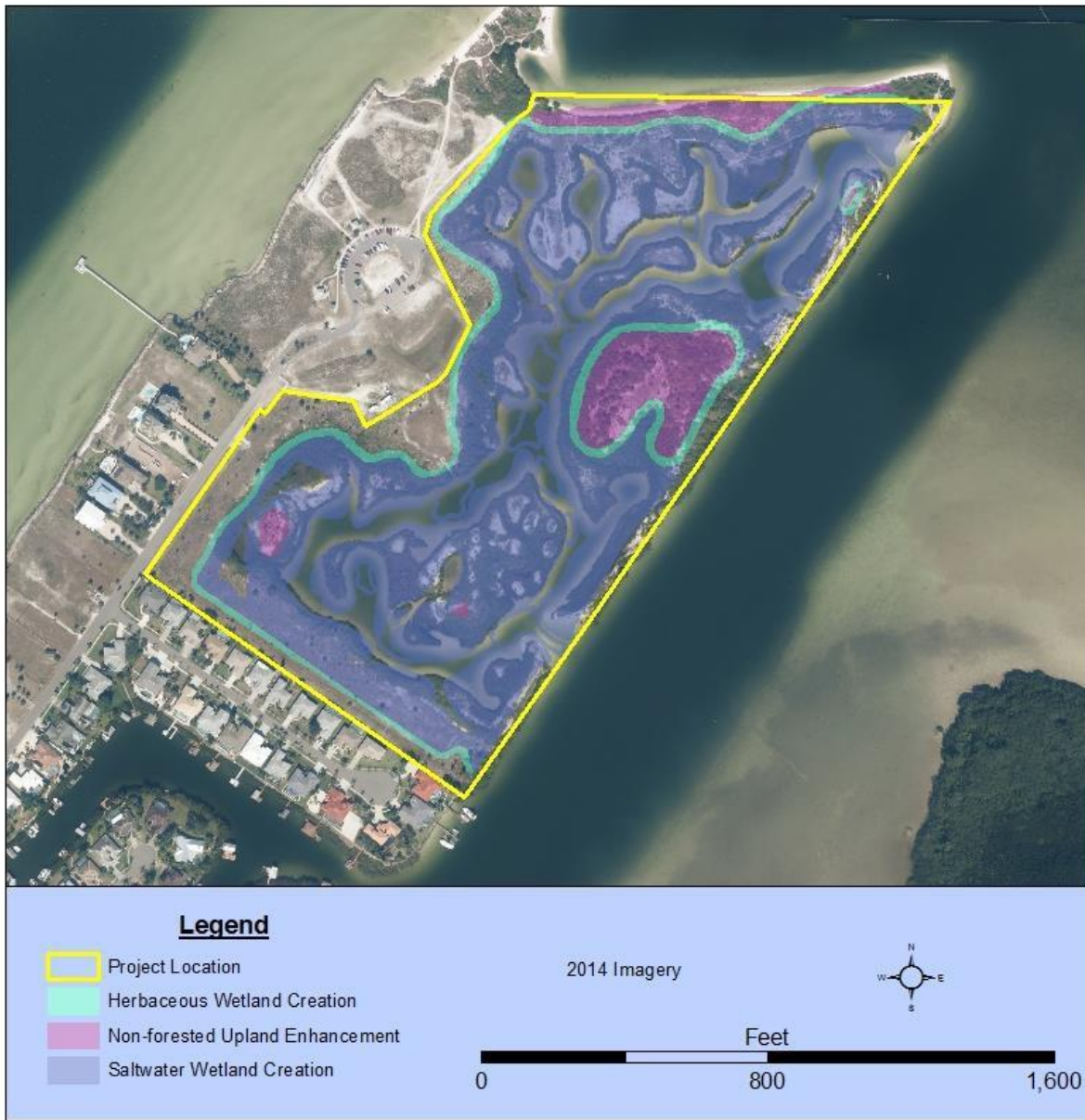
FDOT Mitigation Plan

**SW 67 - Apollo Beach Nature Preserve
Figure B - Pre-Construction (16,17/31S/19E)**



FDOT Mitigation Plan

SW 67 - Apollo Beach Nature Preserve
Figure C - Post-Construction (16,17/31S/19E)



FDOT Mitigation Plan



View of intertidal channel and lagoon in the northeast corner. (2016)



Picture taken on southeast section of site. (2016)



View of salt marsh enhancement north section. (2016)



Low marsh tidal creek. (2016)

SW-78 BAHIA BEACH MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Bahia Beach	Project Number	SW-78/D034
Project Type	Wetland Creation, enhancement; Upland Enhancement		
Landowner	Hillsborough County	Management Entity	Hillsborough County/ Southwest Florida Water Management District
County	Hillsborough	Watershed	Tampa Bay Drainage
Water bodies	Tampa Bay	Water body Designations	SWIM Water Body
Project implementation status: (As of December 2018):	Monitoring and Perpetual Management		
Project utilization: (As of December 2018)	Permitted FDOT projects: 21		
	Planned, not yet permitted, FDOT projects: 3		
S/T/R:	1/32S/18E		

IMPACT INFORMATION (As of December 2018):

	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Tampa Bay Drainage	2568811	US 19 (SR 55) Whitney Rd to Seville Dr.	4.34	44025287.003	2006-02199
Tampa Bay Drainage	2568881	US 19 Coachman Rd to Sunset Rd	0.52	44011760.011	2001-04383
Tampa Bay Drainage	2569942	CR 296 Connector NB I-275 (Ramp P) to WB SR 686	4.19	43018980.001	2004-09454
Tampa Bay Drainage	2584151	I-4 (SR 400)@ Selmon Expressway	0.05	43020690.009	2008-01855
Tampa Bay Drainage	4061511	Veteran's Expressway Memorial Hwy. to Gunn Hwy.	7.94	43007864.023	2009-03478
Tampa Bay Drainage	4125311	I275 (SR 93) from W of SR 60/Memorial to N of Spruce St	10.48	Not Submitted	Not Submitted
Tampa Bay Drainage	4143481	36R RPZ	0.63	49008387.026	2004-12399

Tampa Bay Drainage	4143481	Taxiway V&W	2.84	49008387.037	2002-01521*
Tampa Bay Drainage	4143481	Taxiway B rehab, Bridge and N. Terminal Stormwater	8.55	43008387.054	2002-01521*
Tampa Bay Drainage	4143481	Runway 17-35	9.83	49008387.043	2002-01521*
Tampa Bay Drainage	4143481	Runway 17-35	2.36	Not Issued	2002-01521*
Tampa Bay Drainage	4143481	Airfield Drainage Rehab (fka Taxiway N Overpass)	1.38	49008387.062	2002-01521*
Tampa Bay Drainage	4143481	High Speed Txwy for RW18R (fna Taxiway "W3")	1.77	49008387.028	2002-01521*
Tampa Bay Drainage	4143481	Cargo/ Ground Support Equip. Facility	0.21	49008387.045	2002-01521*
Tampa Bay Drainage	4143481	Airfield Drainage	2.07	49008387.026	2002-05121*
Tampa Bay Drainage	4143481	South Development Area – Includes CONRAC Car Rental Facility	8.34	49008387.067	2002-01521*
Tampa Bay Drainage	4154892	US 301 Balm Rd to Gibsonton Dr	2.49	43031128.000	2006-04230
Tampa Bay Drainage	4293501	Veteran's Expressway Gunn Hwy. to Van Dyke	6.87	43007864.027	1990-03369
Tampa Bay Drainage	4305022	Big Bend Rd From E of Dickman Road to W of Wyandotte Rd	0.03	Pending	Pending
Tampa Bay Drainage	2569312	Gandy Blvd. (SR 694) 9th Street to 4th Street North	3.01	43011339.007	2010-00652
Tampa Bay Drainage	4168381	US 92 (SR 600 / Gandy) Pelican Sound to Gandy Bridge	1.66	43011339.006	2009-03493
Tampa Bay Drainage	4373121	I-75 / SR 93A from Manatee County Line to N of CR 579	0.20	No mitigation required	No mitigation required

Tampa Bay Drainage	4245133	I-75 @ BIG BEND ROAD SB OFF RAMP & Big Bend Road Widening Design Build	12.02	Not Submitted	Not Submitted
Tampa Bay Drainage	4413881	US 301/SR 43 FROM N OF LAKE ST CHARLES BLVD TO N OF PROGRESS BLVD	0.20	Pending	Pending
		Total:	91.78		

Projects highlighted in green are newly added to the Program.

Projects highlighted in yellow have been removed from the Program and acreages do not count towards totals.

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Freshwater wetlands	Creation	Tampa Bay Drainage	36.33
Oligohaline wetlands	Creation	Tampa Bay Drainage	12.70
Mixed forested wetland	Creation	Tampa Bay Drainage	6.63
Forested Wetland	Enhancement	Tampa Bay Drainage	35.62
Saltmarsh	Enhancement	Tampa Bay Drainage	16.13
Mangrove	Enhancement	Tampa Bay Drainage	31.00
		Total:	138.41

PROJECT DESCRIPTION

A. Overall project goals: The Bahia Beach tract was acquired in 2001 by Hillsborough County through their Environmental Lands Acquisition and Protection Program (ELAPP), one of several contiguous habitat tracts owned and managed by the County west of Ruskin. The project is being co-sponsored and managed by the Hillsborough County Conservation Section and SWFWMD to conduct a variety of habitat improvements including freshwater and oligohaline wetland creation within an existing upland fallow field, enhancement of forested wetland hammock habitat, and enhancement of saltmarsh/mangrove habitat.

B. Brief description of pre-construction habitat conditions: As part of the acquisition agreement, the previous landowner removed the citrus trees from the upland area, historically pine flatwoods, which subsequently became vegetated with Bahia grass (*Paspalum notatum*), natalgrass (*Rhynchelytrum repens*), dog fennel (*Eupatorium capillifolium*) having moderate cover and with Brazilian pepper (*Schinus terebinthifolus*) having extensive coverage. This field was bordered to the west by two large parallel upland-cut drainage ditches dredged to convey contributing storm and surface water when the grove was present. The steeply sloped ditches are tidally connected, allowing the generation of white and black mangrove species in the lower elevations and Brazilian pepper along the slopes and top-of-bank. These deep ditches connected with the mosquito ditches and swales dredged through the salt-marsh and mangroves, allowing saltwater intrusion to move further inland than historic conditions. The deep ditches and spoil ridges substantially hindered wildlife movement from the hammock to the created marsh habitats.

A forested wetland of coastal hydric hammock is located west of the ditches. The coastal hammock had a dominant canopy coverage of cabbage palm, with scattered slash pine, red cedar (*Juniperus virginiana*), and oaks (*Quercus virginiana*, *Q. laurifolia*). Brazilian pepper provided minor to moderate canopy and sub-canopy cover within the hammock in less dense canopy areas. Other sub-canopy species included cabbage palm, salt-bush (*Baccharis halmifolia*), wax myrtle (*Myrica cerifera*), and saw palmetto (*Serenova repens*). Ground cover varies depending on the shade coverage, but included sawgrass (*Caladium jamaicense*), broomsedge (*Andropogon glomeratus*), swamp fern (*Blechnum serrulatum*), fleabane (*Pluchea odorata*), and various sedges. Where the canopy was slightly opened, there were also a few pockets of sawgrass, black needle rush (*Juncus roemerianus*), and cordgrass (*Spartina patens*) within the hammock.

A temperate hardwood habitat is in the northeast corner of the tract. The minor canopy coverage was comprised of cabbage palm, slash pine, and laurel oak. Groundcover included saw palmetto, sawgrass, and swamp fern. Exotic species coverage included Brazilian pepper, lead tree (*Leucaena leucocephala*) and cogon grass (*Imperata cylindrica*).

A large mosaic of salt-marsh and mangrove habitat is located west of the coastal hardwood hammock. The mangrove habitat includes red, black and white mangrove species. The marsh habitat had saltwort (*Batis maritima*), glasswort (*Salicornia bigelovii*) and salt grass (*Distichlis spicata*). Shrub-size mangroves transition into the marsh component. This saltwater habitat had interconnecting mosquito ditches with adjacent spoil piles covered with Brazilian pepper. In part due to the altered hydrology from the ditching, the transition between the hammock and saltwater habitat had generated a dense stand of Brazilian pepper.

C. Brief description of construction activities and current and proposed habitat conditions: In 2003, twelve (12) piezometers were installed in the fallow field to measure groundwater elevations and salinity with a total of 41 sampling events between August 2003, and June 2008. The groundwater data was collected over the extended period to identify seasonal and annual fluctuations and was used to establish the hydroperiods and final grades within the wetland creation areas. The salinity data was used to determine plant species composition. The fallow field was graded to create a dominance of freshwater marshes transitioning to oligohaline marsh habitat closer to the forested wetland hammock, and buffered from Mira Lago by creating mixed forested wetland habitat along the eastern perimeter of the created marsh habitat. Treated stormwater that discharged from Mira Lago and flowed via the ditches to Tampa Bay will receive additional treatment and attenuation and will increase groundwater recharge by the construction of the created wetlands. The hammock, salt-marsh, mangrove habitat, and temperate hardwood areas were enhanced with the eradication of Brazilian pepper.

Hydrologic modeling resulted in the design of oligohaline marsh creation that will displace the twin ditches along the hammock perimeter and freshwater marsh creation. The freshwater marsh has grade elevations of -0.5 to 3.0 feet NAVD88, with ten separate freshwater marsh basins constructed at various elevations to provide a range of hydroperiods within the marsh.

The creation of mixed forested wetland occurred along the southeastern project boundary, graded to elevations of 3.0 to 4.0 feet NAVD88. This forested wetland provides a buffer from the Mira Lago development and the constructed marsh, as well as roosting and nesting opportunities for wading birds.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): Most of the anticipated wetland impacts proposed for mitigation at the Bahia Beach project include

wetlands associated with long-range future expansion activities at Tampa International Airport (TIA). Due to proximity to Tampa Bay and the high quantity of ditched wetlands, most of the proposed wetland impact areas at TIA are low quality systems.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: The FDOT projects that remain in the program are either permitted or appropriate credit is unavailable at a mitigation bank.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: The Bahia Beach project is a SWIM-sponsored project adjacent to a SWIM water body (Tampa Bay), to be constructed on property owned and managed by Hillsborough County.

PROJECT IMPLEMENTATION

- Design and Permitting: 2003-2010
- Construction: 2012-2013
- Monitoring: 2014 (time zero), 2015, 2016, 2017
- Maintenance: 2014-Present
- Perpetual Management: 2018

Entity responsible for construction: SWFWMD

Entity responsible for monitoring and maintenance: SWFWMD

Entity responsible for perpetual management: Hillsborough County-Regional Parks & Conservation Land Management is responsible for county lands and/or private contractor selected by SWFWMD for FDOT site.

Cost for 2018 monitoring: \$23,395.00

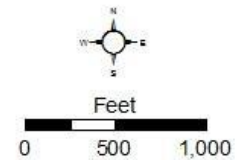
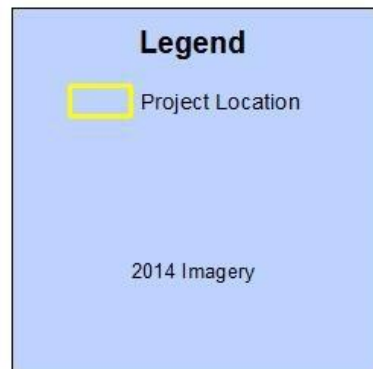
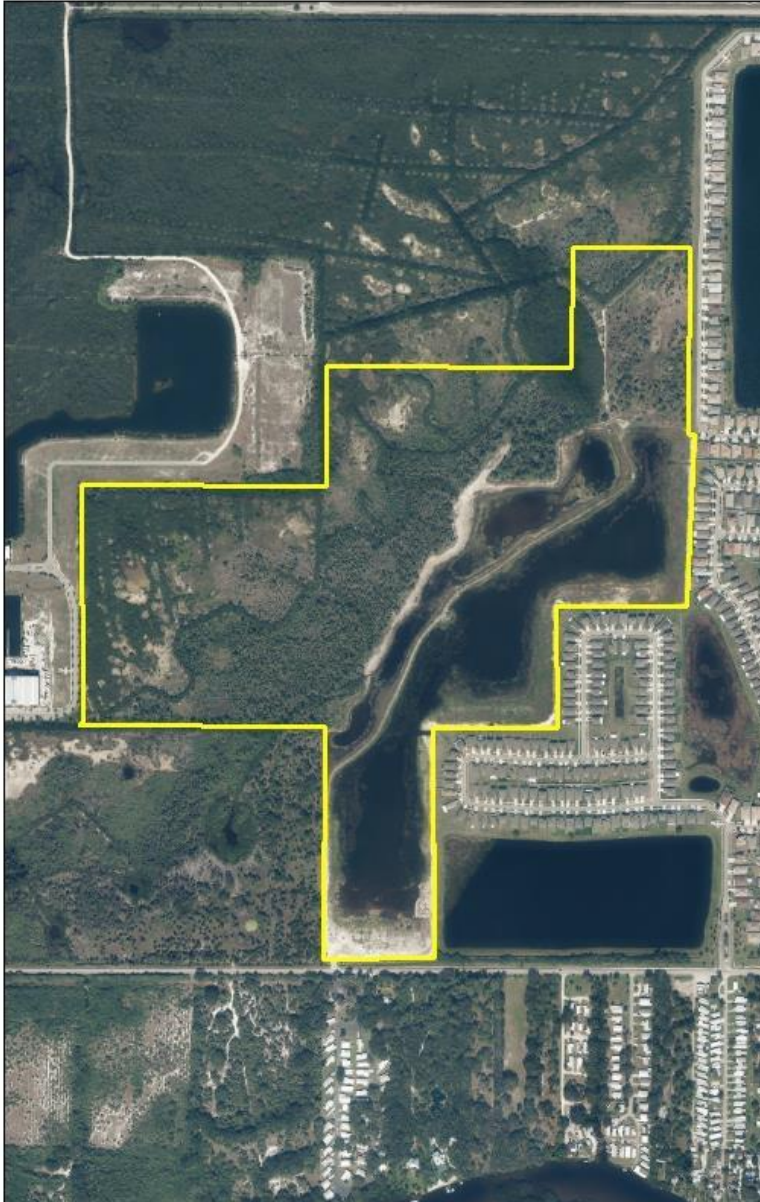
Cost for 2018-19 maintenance: \$68,280.00

Total Cost for FDOT Mitigation Including O&M: \$1,802,184.97

ATTACHMENTS

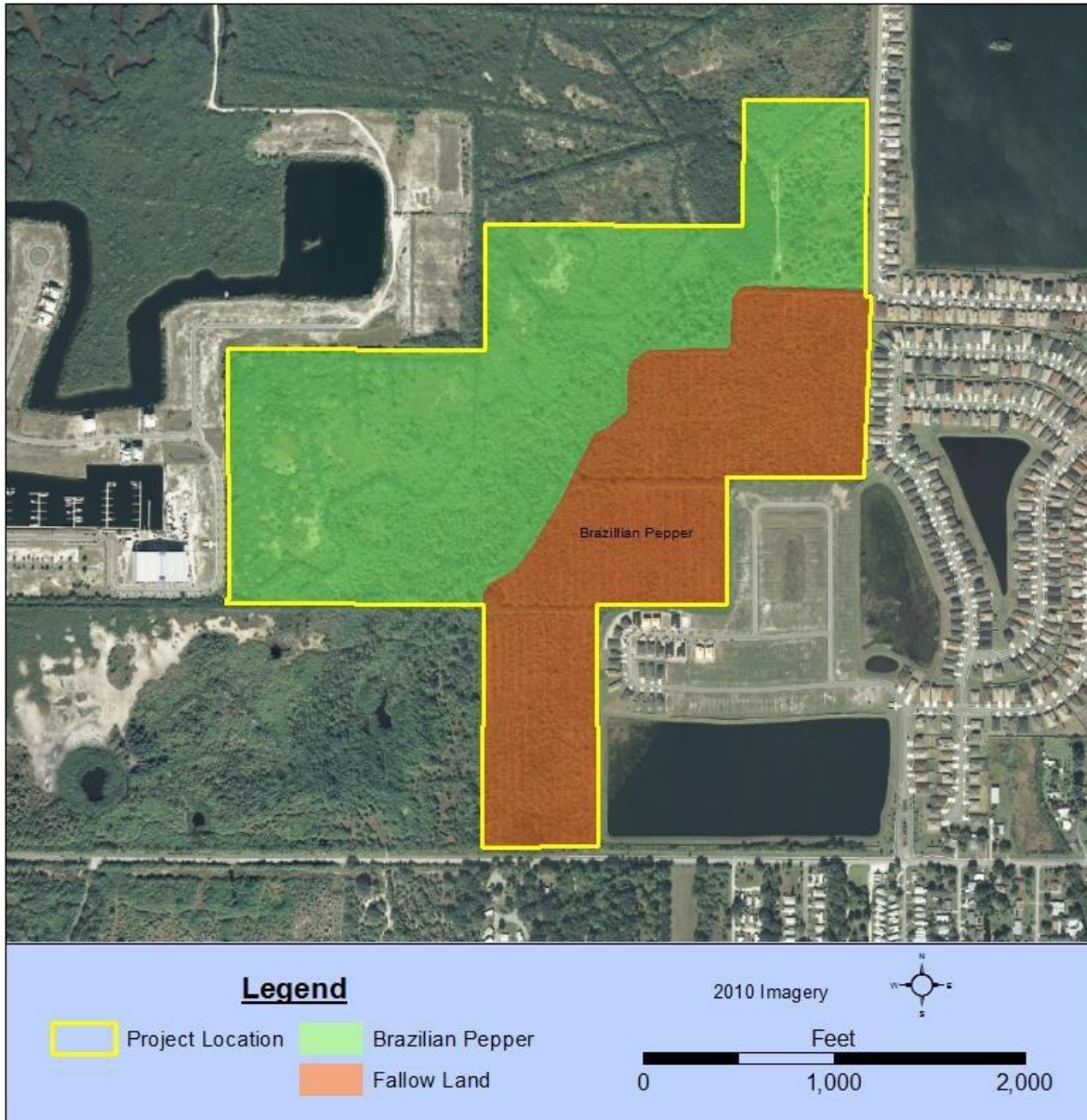
1. Figure A-Location
2. Figure B-Pre-Construction (2010)
3. Figure C-Post-Construction (2014)
3. Photographs (2016)

**SW 78 - Bahia Beach
Figure A - Location (1/32S/18E)**



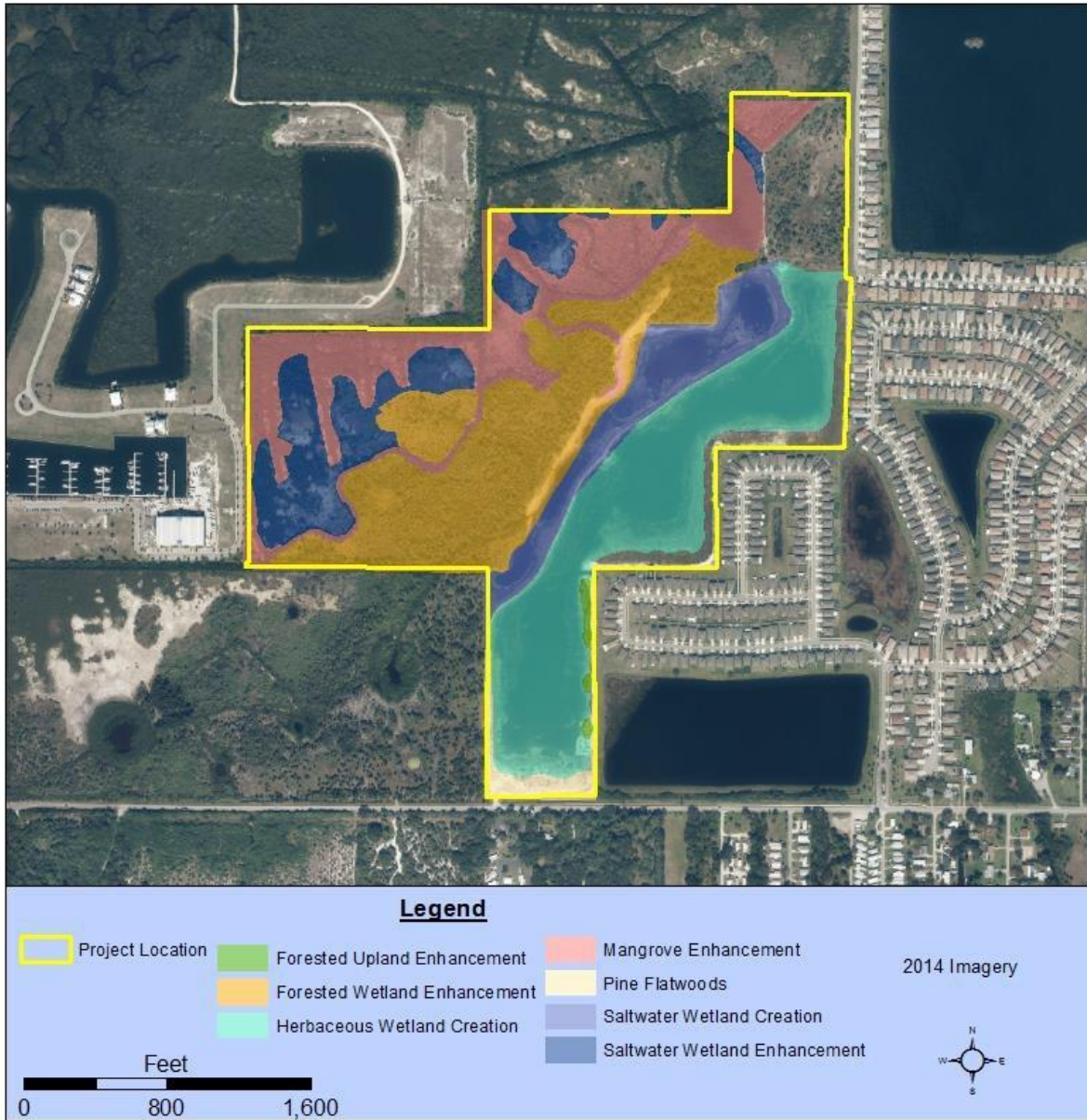
FDOT Mitigation Plan

SW 78 - Bahia Beach
Figure B - Pre-Construction (1/32S/18E)



FDOT Mitigation Plan

SW 78 - Bahia Beach
Figure C - Post-Construction (1/32S/18E)



FDOT Mitigation Plan



View within the salt marsh enhancement area. (2016)



View within the salt marsh enhancement area. (2016)



View within the oligohaline marsh creation area. (2016)



View within the freshwater marsh creation area. (2016)

SW-71 BOYD HILL NATURE PRESERVE MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Boyd Hill Nature Preserve	Project Number	SW-71/D028
Project Type	Wetland enhancement; upland enhancement; open water enhancement		
Landowner	City of St. Petersburg	Management Entity	City of St. Petersburg/ Southwest Florida Water Management District
County	Pinellas	Watershed	Tampa Bay Drainage
Water bodies	Lake Maggiore	Water body Designations	SWIM Water Body
Project implementation status: (As of December 2017):		Monitoring and Perpetual Management	
Project utilization: (As of December 2017)		Permitted FDOT projects: 7	
		Planned, not yet permitted, FDOT projects: None	
S/T/R:		35,36/31S/16E;1/32S/16E;6/32S/17E	

IMPACT INFORMATION (As of December 2018):

	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Tampa Bay Drainage	2555991	SR 676 (Causeway Blvd.) US 301 to US 41	0.27	43027063.000	2004-05583
Tampa Bay Drainage	2558881	US 301 Sligh Ave. to Tampa Bypass Canal ¹	9.26	43024246.001	2002-06711
Tampa Bay Drainage	2570701	US 19 (SR 55) 49th St. to 118th Avenue	0.02	44000188.002	2002-06325
Tampa Bay Drainage	4037701	US 19, CR 816 (Alderman) to SR 582 (Tarpon)	0.09	44022085.001	NW-14
Tampa Bay Drainage	4062561	East-West Trail, Coopers Bayou to Bayshore	0.10	44022718.000	2001-05298
Tampa Bay Drainage	4082011	Himes Ave. at Hillsborough Ave.	0.10	44002448.002	2002-08419
Tampa Bay Drainage	4154893	US 301, Sun City Center to Balm Road ²	1.99	43034464.000	2008-03613
		Total Impact Acreage:	11.83		

¹ The freshwater marsh and ditch impacts associated with these projects are being mitigated with habitat activities conducted at Cockroach Bay – Freshwater (SW 56).

² Additional wetland impacts are being mitigated on-site by FDOT, the Ekker Tract (SW 82), and the Little Manatee River – Lower Tract (SW 83).

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Freshwater forested hardwood wetlands	Enhancement	Tampa Bay Drainage	96.6
Upland	Enhancement	Tampa Bay Drainage	21.4
Open water	Enhancement	Tampa Bay Drainage	1.0
		Total:	119

PROJECT DESCRIPTION

A. Overall project goals: The enhancement of freshwater forested hardwood wetlands (96.6 acres) and adjacent buffers of upland forested habitat (21.4 acres), and pond (1 acre) by eradication of the extensive cover of exotic and nuisance species was followed by supplemental planting of appropriate tree species. Enhancement activities are part of an overall plan of eradication and maintenance to control undesirable vegetation within the 245-acre Preserve owned and managed by the City of St. Petersburg.

B. Brief description of pre-construction habitat conditions: The enhancement areas include two designated portions of the Preserve (Figure B). The northwest area includes hardwood hammock wetlands, dominated by laurel oak with additional coverage of Brazilian pepper, water oak, live oak, red maple, cabbage palm and a sparse understory dominated by ferns. The area also includes upland hardwood hammock that buffers the adjacent forested wetlands. These hammocks are dominated by live oak, scattered longleaf pine, Brazilian pepper, extensive vines, and where the Brazilian pepper was not dense, an understory of scattered saw palmetto. The density of Brazilian pepper varied with an average sub-canopy cover of 30%. The pepper was much larger and provided more coverage within the wetland portion.

C. Brief description of construction activities and current habitat conditions: The City contracted with private environmental consultants and contractors to eradicate the extensive cover of nuisance and exotic vegetation beginning in 2004. The dominant species eradicated from all areas was Brazilian pepper, which had moderate to very dense cover within the wetland as well as upland habitats. Secondary species eradication included herbicide control and long-term maintenance of primrose willow, elderberry, guinea grass and grapevine. Pepper eradication included a phased approach of herbicide treatment for initial mortality, hand tools and mechanical removal, and transport to the on-site mulching facility. Areas of eradication have exhibited good vegetative coverage of planted and regenerated desirable tree, shrub and herb species. An extensive schedule of herbicide applications continues to minimize recruitment and regeneration of exotic & nuisance species.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): The FDOT impacts designated for mitigation at the Preserve include a dominance of freshwater forested and shrub wetlands. The wetland enhancement areas at the Preserve include portions of some of the largest forested freshwater wetlands remaining within peninsular Pinellas County. With the other habitat enhancements conducted at the Preserve, Boyd Hill provides adequate and appropriate mitigation for the wetland impacts with large-scale, regionally significant and extensive habitat improvements. Boyd Hill is one of the few areas of remnant, large native habitats surrounded by an urban landscape. As a result, the exotics eradication and planting were critical toward attracting and maintaining important wildlife habitat in Pinellas County.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: The Tampa Bay Mitigation Bank (TBMB) is the only mitigation bank within the Tampa Bay basin. However, at the time of mitigation selection, bank construction had not commenced, and credit sales were not available.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: Several SWIM projects have been selected to provide FDOT mitigation for saltwater wetland and freshwater marsh impacts in this basin. At the time of mitigation nomination, none of the SWIM projects in the basin had the opportunity to provide appropriate mitigation for forested freshwater wetland impacts. However, the adjacent Lake Maggiore sediment dredging activity was a SWFWMD- SWIM and City of St. Petersburg sponsored habitat improvement project and the Boyd Hill Nature Preserve project was selected due to the opportunity to appropriately mitigate the proposed wetland impacts with ecologically beneficial habitat improvements.

PROJECT IMPLEMENTATION

- | | |
|-------------------------|------------------------------|
| • Exotics eradication: | 2004-2005 |
| • Monitoring: | 2011, 2014, 2015, 2016, 2017 |
| • Maintenance: | 2005-2009 |
| • Perpetual Management: | Ongoing |

Entity responsible for construction: The City of St. Petersburg is responsible for overall site management and/or private contractors selected by SWFWMD for the FDOT site.

Entity responsible for monitoring and maintenance: SWFWMD

Entity responsible for perpetual management: City of St. Petersburg is responsible for city lands and/or private contractors selected by SWFWMD for FDOT site.

Cost for 2018 monitoring: \$14,672.62

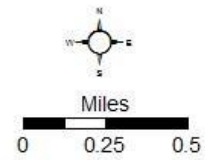
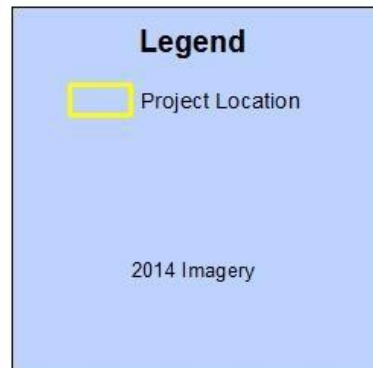
Cost for 2018 maintenance: \$73,800.00

Total Cost for FDOT Mitigation Including O&M: \$762,761.02

ATTACHMENTS

1. Figure A-Location
2. Figure B-Pre-Construction (2004)
3. Figure C-Post-Construction (2014)
3. Photographs (2014, 2016)

SW 71 - Boyd Hill Nature Preserve
Figure A - Location (35,36/31S/16E;1/32S/16E;6/32S/17E)



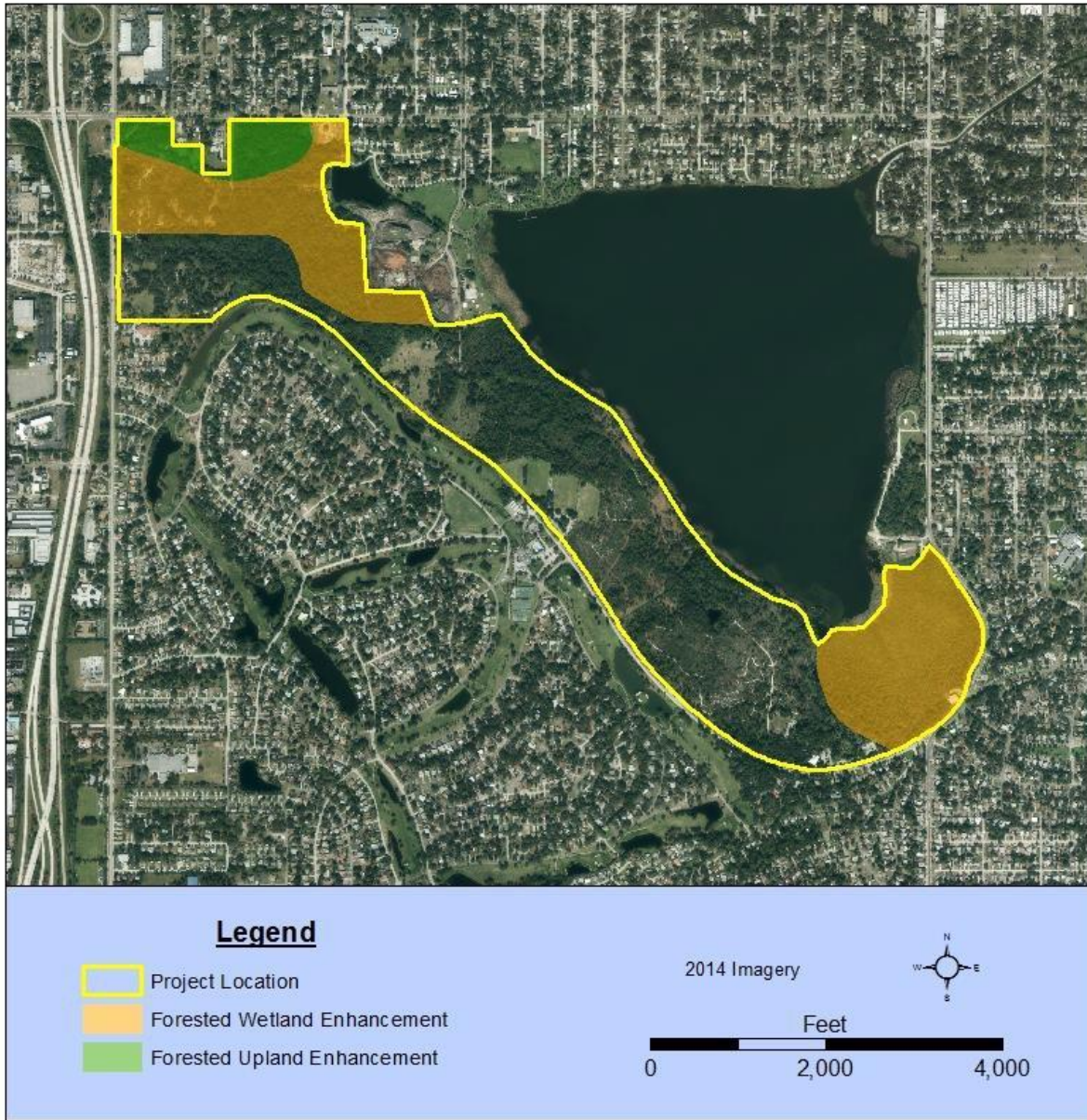
FDOT Mitigation Plan

SW 71 - Boyd Hill Nature Preserve
Figure B - Pre-Construction (35,36/31S/16E;1/32S/16E;6/32S/17E)



FDOT Mitigation Plan

SW 71 - Boyd Hill Nature Preserve
Figure C - Post-Construction (35,36/31S/16E;1/32S/16E;6/32S/17E)



FDOT Mitigation Plan



Open water adjacent to northwest mitigation area. (2014)



Facing south in Northwest Mitigation Area of forested wetland enhancement. (2016)



Facing south in Northwest Mitigation area of forested wetland enhancement. (2016)



In southwest mitigation area facing east of forested upland enhancement. (2016)



Facing east in southwest forested upland enhancement area. (2016)

SW-90 BROOKER CREEK BUFFER PRESERVE MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Brooker Creek Buffer Preserve	Project Number	SW-90/D056
Project Type	Wetland and upland preservation and enhancement		
Landowner	Hillsborough County	Management Entity	Hillsborough County/Southwest Florida Water Management District
County	Hillsborough	Watershed	Tampa Bay Drainage
Water bodies	Brooker Creek	Water body Designations	None
Project implementation status: (As of December 2018):	Perpetual Management		
Project utilization: (As of December 2018)	Permitted FDOT projects: 6		
	Planned, not yet permitted, FDOT projects: None		
S/T/R:	18,19/27S/17E		

IMPACT INFORMATION (As of December 2018):

Watershed	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Tampa Bay Drainage	2558935	SR 574 (MLK) @ I-75	0.25	44033776.000	No permit required
Tampa Bay Drainage	4143481	North Terminal Airside 2	10.25	49008387.043	2002-01521
Tampa Bay Drainage	4143481	North Terminal Airside 3	10.41	49008387.043	2002-01521
Tampa Bay Drainage	4143481	North Terminal Airside 4	8	49008387.043	2002-01521
Tampa Bay Drainage	4143481	Taxiway A Extension	0.94	49008387.043	2002-01521
Tampa Bay Drainage	4143481	36R-RPZ	15.72	49008387.026	2002-05121
Tampa Bay Drainage	4360561	10 th and 11 th Ave at Brooker Creek Bridge #157235	0.20	No mitigation required	No mitigation required
Tampa Bay Drainage	4376401	US 301/SR 43 FM FALKNERBURG RD TO SLIGH AVE	0.50	No mitigation required	No mitigation required
		Total:	45.57		

Projects highlighted in yellow are deleted from the Plan.

Projects highlighted in green are added to the Plan.

¹ FM 4143481 is used to designate all Tampa International Airport projects. The 49008387.043 ERP is the revised conceptual permit.

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Non-forested wetlands	Preservation and Enhancement	Tampa Bay Drainage	36.5
Forested wetlands	Preservation and Enhancement	Tampa Bay Drainage	145.2
Upland Buffer	Preservation and Enhancement	Tampa Bay Drainage	30.1
		Total:	211.8

PROJECT DESCRIPTION

A. Overall project goals: The Brooker Creek Buffer Preserve (Preserve) is a 489-acre tract located in northwest Hillsborough County along the boundary with Pinellas County. The Preserve was acquired through Hillsborough County's Environmental Lands Acquisition and Protection Program (ELAPP) to preserve, restore, connect and "buffer" the on-site habitat resources with the adjacent 7,500-acre Brooker Creek Preserve in Pinellas County. Approximately half of the Preserve is comprised of wetland habitat, with much of this habitat altered by a combination of large upland-cut rim ditches constructed around the perimeter of the wetlands, and the construction of an elevated driveway berm across one of the wetlands. Proposed construction activities include minor earthwork grading of spoil material deposited adjacent to the ditches to construct strategically placed ditch blocks and the replacement of a crushed culvert under the driveway to restore drainage patterns and hydrologic connections for the on- site wetlands.

B. Brief description of pre-construction habitat conditions: In addition to the wetland habitat, most of the remaining portion of the Preserve is comprised of upland fallow fields and ruderal pasture. The soil characteristics and topography indicate the upland fields adjacent to the wetlands were historically flatwood habitat, transitioning into higher grade elevations historically comprised of sandhill and scrub ecosystems. A remnant scrub oak community is present within the eastern portion of the tract. Most historic upland habitats were converted to citrus grove, with all but one small grove area removed prior to acquisition by the County. These fallow fields were dominated by bahia grass, however ruderal and nuisance herb species were common (e.g. dog fennel, ragweed, goldenrod, lantana).

C. Brief description of construction activities and current habitat conditions: The construction activities included constructing 100-ft. wide ditch blocks (21) at appropriate locations by grading the adjacent upland spoil material and replacing the crushed culvert. This will result in hydrologic restoration, resulting in enhancement of over 145 acres of existing forested wetland habitat and over 36 acres of non-forested wetland habitat. Specific hydrologic and topographic data of the wetlands were incorporated into a surface water model conducted for the Brooker Creek watershed. Ditch blocks were constructed at 21 strategic locations to restore drainage flow patterns through the wetland cores. Quick temporary vegetative cover of the blocks was provided by seeding with winter rye or brown-top millet. Compared to total backfill of the ditches, the ditch block method allows some surface water to be retained in ditch segments for wildlife drinking and foraging during dry season conditions when water levels are typically below grade elevations. The minimum top-of-block widths of 20 ft. provide crossings

for wildlife using the wetland and upland areas and encourage more use and easier access for wildlife that use the habitats associated with public lands in the vicinity.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s):

The mitigation activities at the Preserve will primarily provide compensation for proposed wetland impacts associated with the long-term expansion at Tampa International Airport (TIA). The proposed TIA wetland impacts areas are low-quality habitats located within 10 miles of the proposed mitigation activities. Since the acquisition was conducted in 2009 and ditch block construction occurred in 2015, the habitat acquisition and improvements will occur many years in advance of the majority of proposed TIA wetland impacts. Freshwater wetland impacts associated with other future roadway projects in the Tampa Bay watershed will be evaluated for possible mitigation at the Preserve.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: During the mitigation selection for the proposed wetland impacts in 2008, the Tampa Bay Mitigation Bank (TBMB) was the only existing or proposed mitigation bank within the Tampa Bay Drainage Basin; however, freshwater mitigation credits at the TBMB were not approved for sale.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: The Brooker Creek Buffer Preserve is a SWIM / County co-sponsored project since Brooker Creek flows into Lake Tarpon and Tampa Bay, both designated SWIM water bodies.

PROJECT IMPLEMENTATION

- Land Acquisition: 2009
- Design: 2011
- Permitting: 2013
- Construction: 2015
- Monitoring: 2015, 2016, 2017
- Maintenance: 2015-2018
- USACE release letter submitted: May 2, 2017
- Perpetual Management: Ongoing

Entity responsible for construction: SWFWMD

Entity responsible for monitoring and maintenance: SWFWMD is responsible for FDOT site; however, quantitative monitoring will no longer be performed, and site will go into perpetual maintenance.

Entity responsible for perpetual management: Hillsborough County is responsible for county lands and or private contractor selected by SWFWMD for FDOT site.

Cost for 2018 monitoring: \$19,720.10

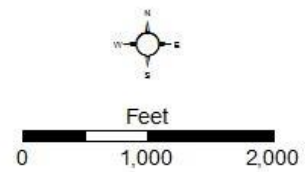
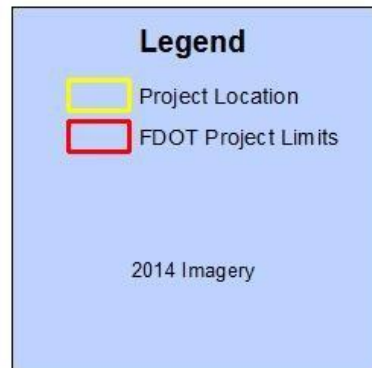
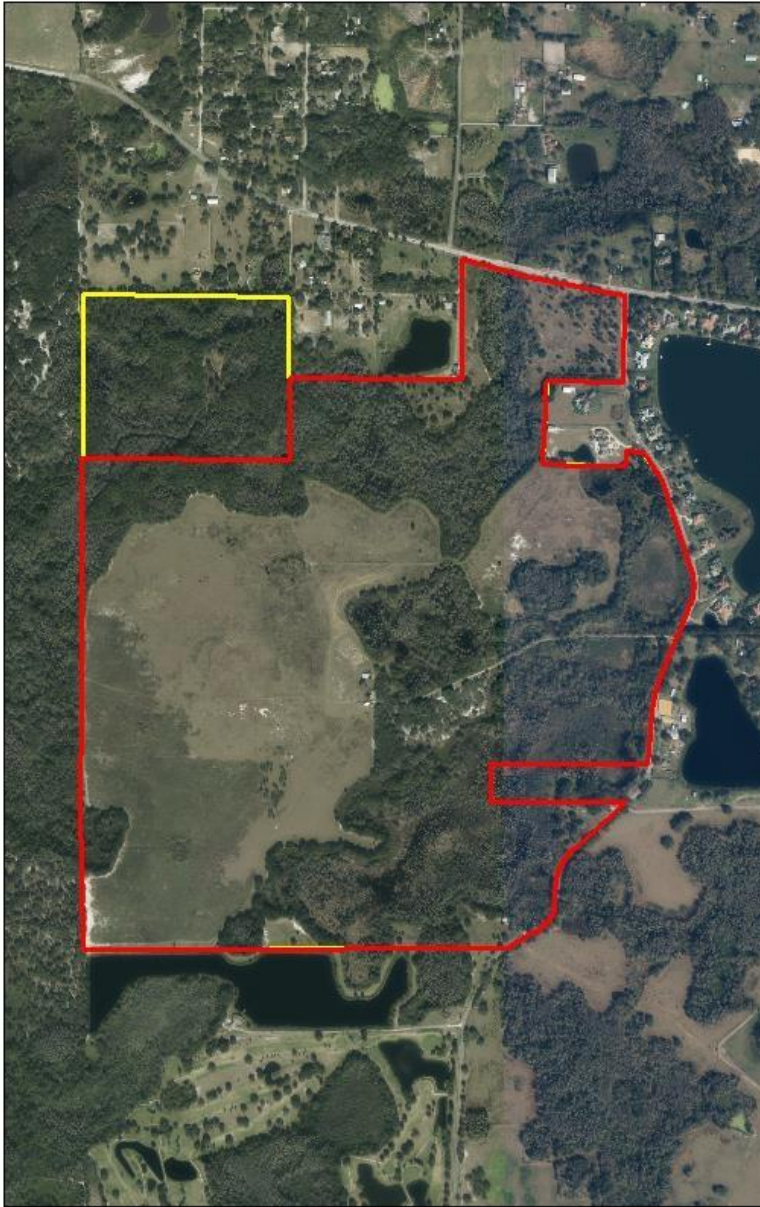
Cost for 2018 maintenance: \$74,900.00

Total Cost for FDOT Mitigation Including O&M: \$1,747,504.72

ATTACHMENTS

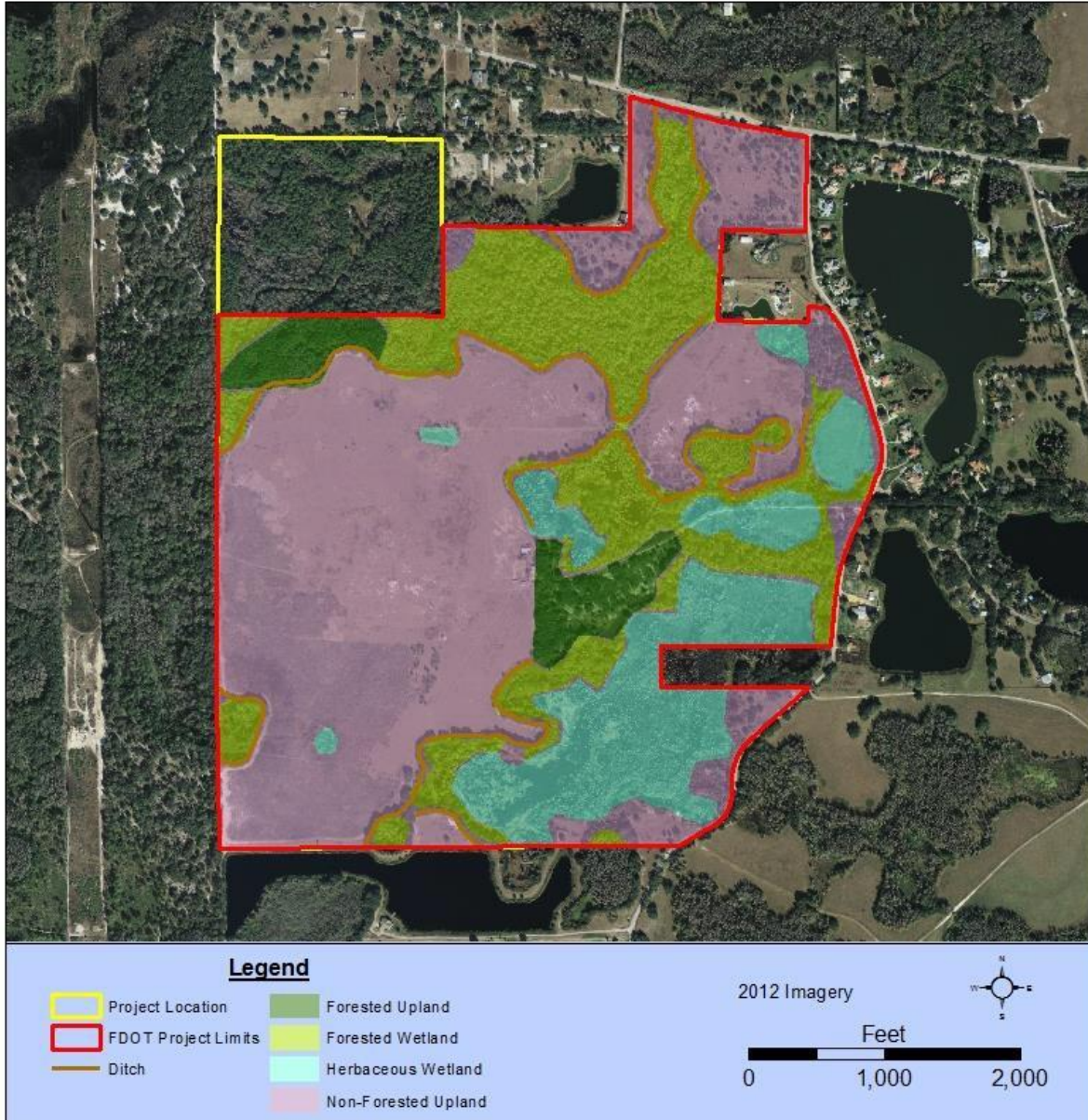
1. Figure A-Location
2. Figure B—Pre-Construction (2012)
3. Figure C-Post-Construction (2014)
4. Photographs (2007)

SW 90 - Brooker Creek Buffer Preserve
Figure A - Location (18,19/27S/17E)



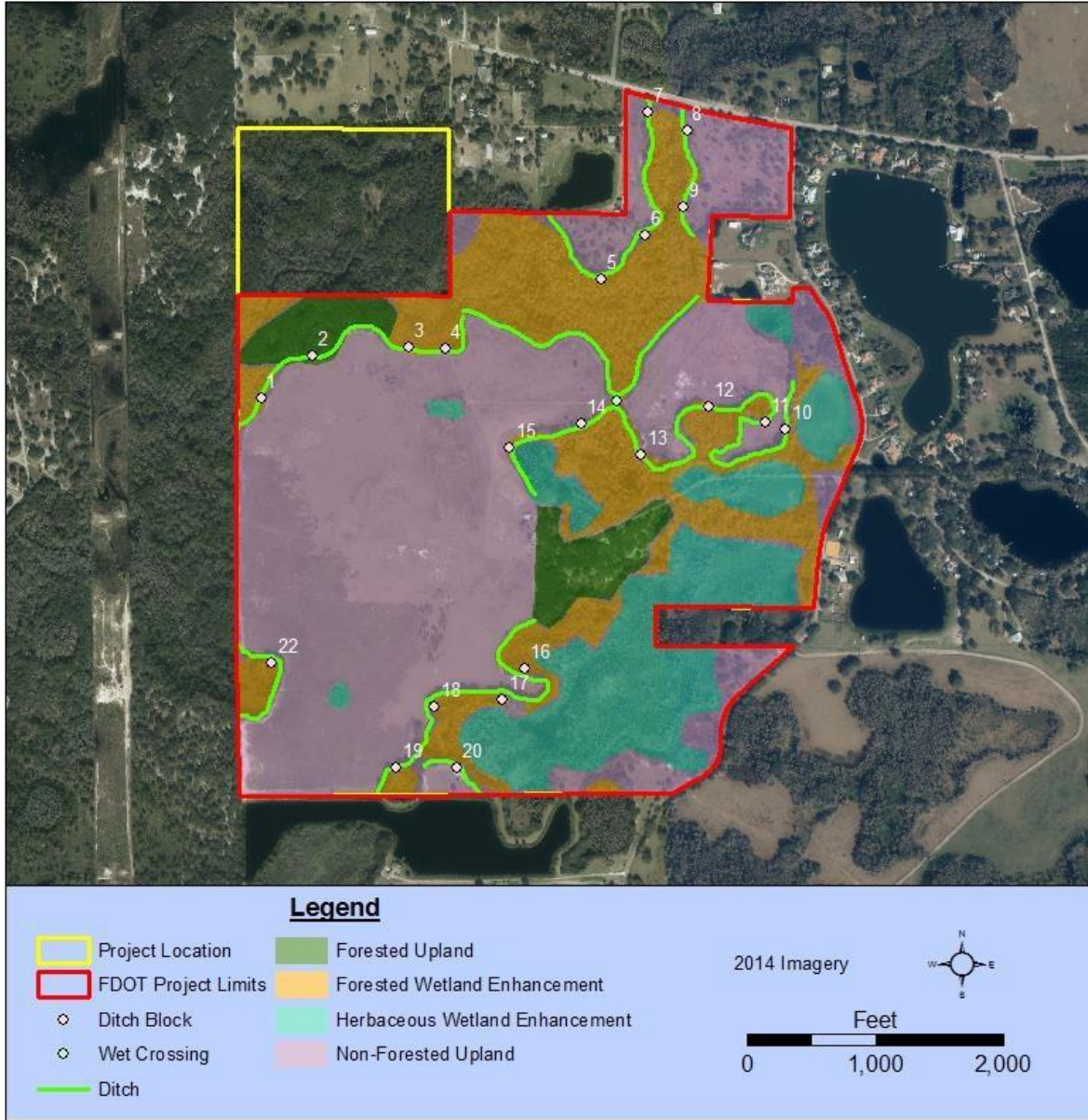
FDOT Mitigation Plan

**SW 90 - Brooker Creek Buffer Preserve
Figure B - Pre-Construction (18,19/27S/17E)**



FDOT Mitigation Plan

SW 90 - Brooker Creek Buffer Preserve
Figure C - Post-Construction (18,19/27S/17E)



FDOT Mitigation Plan



Brooker Creek Flow Channel



Brooker Creek Forested Wetland



Brooker Creek Ditch Block

SW-31 CATTLE DOCK POINT, PHASE II MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Cattle Dock Point, Phase II	Project Number	SW-31/D005
Project Type	Wetland restoration and enhancement; upland creation		
Landowner	Board of Trustees of the Internal Improvement Trust Fund; Southwest Florida Water Management District	Management Entity	Florida Department of Environmental Protection/Southwest Florida Water Management District
County	Charlotte	Watershed	Myakka River
Water bodies	Myakka River, Charlotte Harbor	Water body Designations	SWIM water body
Project implementation status: (As of December 2018):	Phase I: Perpetual Management		
	Phase II: Perpetual Management		
Project utilization: (As of December 2018)	Permitted FDOT projects: 1		
	Planned, not yet permitted, FDOT projects: None		
S/T/R:	3/41S/21E		

IMPACT INFORMATION (As of December 2018):

Watershed	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Myakka River	1937941	SR 776 CR 771 to Willow Bend Road ¹	8.83	43016676.000	1996-01986

¹ This project has an additional 2.08 acres of open water impact mitigated through the purchase of 2.08 credits from the Little Pine Island Mitigation Bank (SW 52). Impact acres from ERP.

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Intertidal marsh	Creation	Myakka River	6.0
Upland habitat islands	Creation	Myakka River	1.5
Salt marsh 'platforms'	Creation	Myakka River	8.0
Mangrove littoral zone	Enhancement	Myakka River	1.2
		Total:	16.7

PROJECT DESCRIPTION

A. Overall project goals: The primary goal of the project was to create intertidal and salt-marsh wetland habitat within heavily disturbed property co-owned by the SWFWMD and FDEP. Prior to construction, this tract was predominately a dredged boat basin that connected to the Myakka River (Figures A and B). Constructed in 2004-2005 (Figure C), Phase II removed extensive exotic vegetation (predominantly Brazilian pepper) that dominated the site, followed by grading the historically filled area to create a mosaic of upland and wetland habitat (Figures C and D). The Phase I project (18 acres) was constructed in 2001 to provide appropriate mitigation for wetland impacts associated with an adjacent segment of SR 776 (Willow Bend Rd. to Collingswood Blvd.). The Phase I habitat improvements were selected to provide SR 776 mitigation a year prior to

commencement of the FDOT Mitigation Program in 1996 and are therefore not included in this document except as supplemental information.

B. Brief description of pre-construction habitat conditions: Historically, the filled upland areas (six acres within Phase I, eight acres within Phase II) were formed because of disposal and spreading of material dredged because of constructing the boat basin during the early 1900's (Figure B). The basin was used to load cattle on barges for transport on the Myakka River and downstream to Charlotte Harbor. The uplands were almost completely covered with dense coverage of nuisance/exotic vegetation, particularly Brazilian pepper within Phase II and Australian pine for the peninsula associated with Phase I. A narrow littoral zone of 40-50 ft. (1.2 acres) of mangrove habitat was present along the border between the dredged basin and the filled upland (Figures B-D). Overall, except for the minor mangrove fringe habitat, the project area for Phases I and II areas provided extremely limited and poor habitat conditions to support wildlife activities.

C. Brief description of construction activities and current habitat conditions: The Phase II project included initial eradication of nuisance and exotic vegetation, followed by grading and removing the filled upland to create appropriate intertidal marsh elevations (6.0 acres) and three upland habitat islands (1.5 acres) in the marsh. The dredged material was deposited to fill a portion of the boat basin to create salt-marsh "platforms" (8.0 acres).

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): The wetland and other surface water impacts associated with SR 776 included 2.15 acres of borrow pit, 2.1 acres of open water, 3.1 acres of mangroves, 1.38 acres of exotic shrub habitat, and 2.2 acres of ditches for a total of 10.93 acres of impacts that represented a dominance of low-quality habitat. The only high-quality habitat impacted was the mangrove area. The mitigation project includes a mosaic of saltwater wetland habitat creation (14 acres) and upland habitat creation (1.5 acres). The mangrove impacts are appropriately compensated with the enhancement of the existing mangrove habitat (1.2 acres), as well as the mangrove habitat within Phase I and the salt-marsh habitat. The open water impacts were appropriately mitigated with purchasing non-forested wetland credits from the Little Pine Island Mitigation Bank (refer to SW 52). The permitted wetland impacts associated with this SR 776 segment are the only impacts that were designated and permitted for mitigation at Cattle Dock Point, Phase II.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: Cattle Dock, Phase II provides appropriate wetland mitigation for the predominantly low-quality SR 776 wetland impacts, as well as for the high-quality impacts associated with the mangrove habitat. The mitigation includes creation of similar habitat within proximity to the wetland impacts on publicly-owned land that needed major restoration, and adjacent to other constructed mitigation compensating for wetland impacts associated with the adjacent SR 776 segment (Phase I). Due to the low-quality habitat associated with the open water impacts, the associated mitigation was compensated with purchasing non-forested mitigation bank credits at the adjacent Little Pine Island Mitigation Bank. The mitigation bank could not be nominated to provide mitigation for the mangrove wetland impacts since the bank is in the adjacent Charlotte Harbor Drainage Basin and the wetland impacts occurred in the Myakka River basin.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: Cattle Dock, Phases I and II were SWIM sponsored projects constructed on property co-owned and managed

by the SWFWMD and FDEP.

PROJECT IMPLEMENTATION

- Planning and Design: 1999
- Construction of Phase I: 2001
- Phase I achieved success criteria: 2004
- Phase II construction and planting: 2005
- Monitoring: 2007, 2008, 2009, 2014, 2015, 2016, 2017
- Maintenance: 2005-2009
- Perpetual Management: Ongoing

Entity responsible for construction: SWFWMD

Entity responsible for monitoring and maintenance: SWFWMD

Entity Responsible for perpetual management: FDEP is responsible for state lands and or private contractors selected by SWFWMD for FDOT site.

Cost for 2018 monitoring: \$15,945.00

Cost for 2017 maintenance: \$19,520.00

Total Cost for FDOT Mitigation Including Estimated O&M: \$917,358.05




ATTACHMENTS

1. Figure A-Location
2. Figure B-Pre-construction (1999)
- A. Figure C-Post-Construction (2014)
- B. Photographs (2012, 2016)

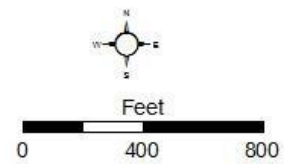
SW 31 - Cattle Dock Point
Figure A - Location (3/41S/21E)



Legend

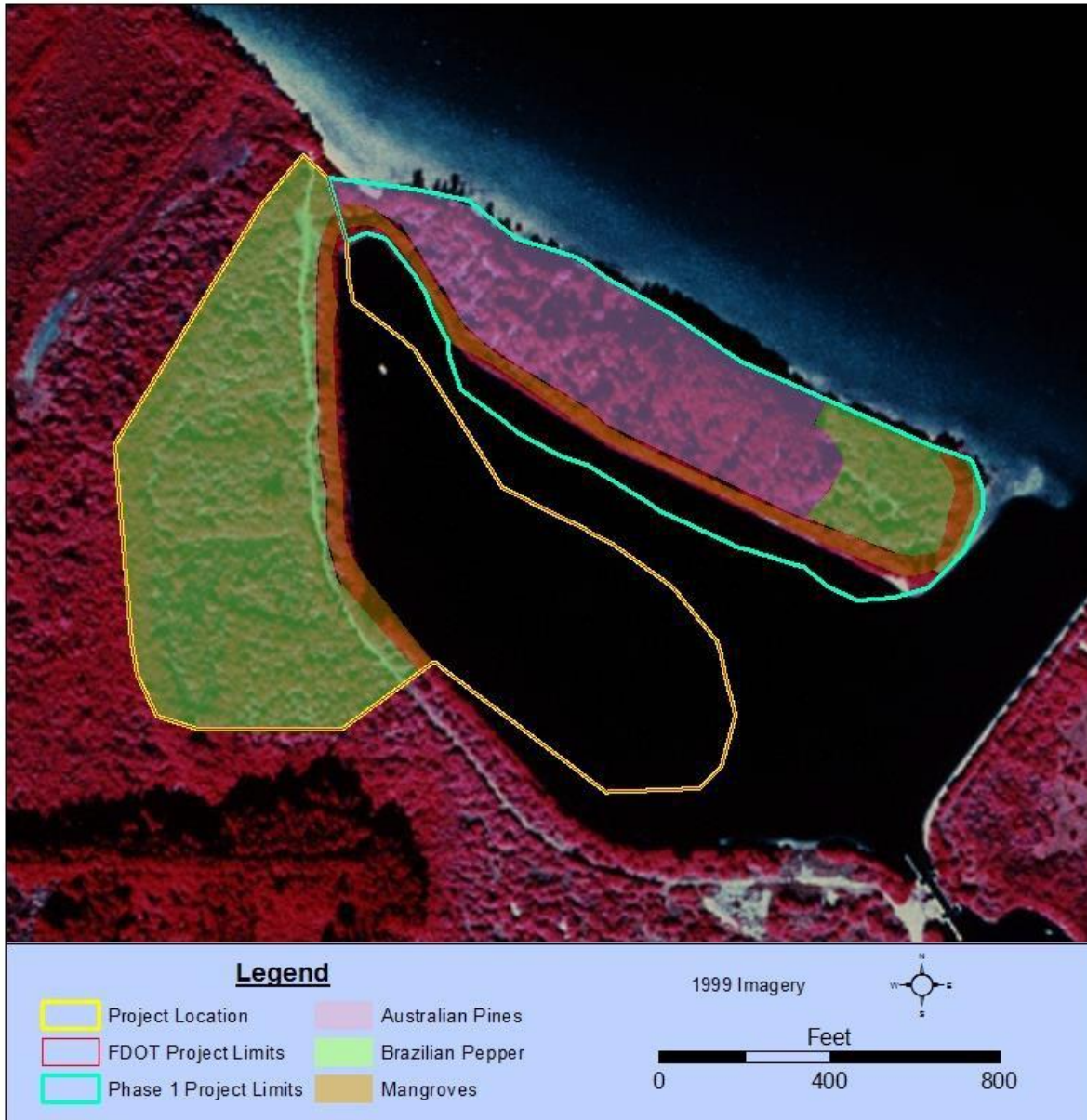
-  Project Location
-  FDOT Project Limits
-  Phase 1 Project Limits

2014 Imagery



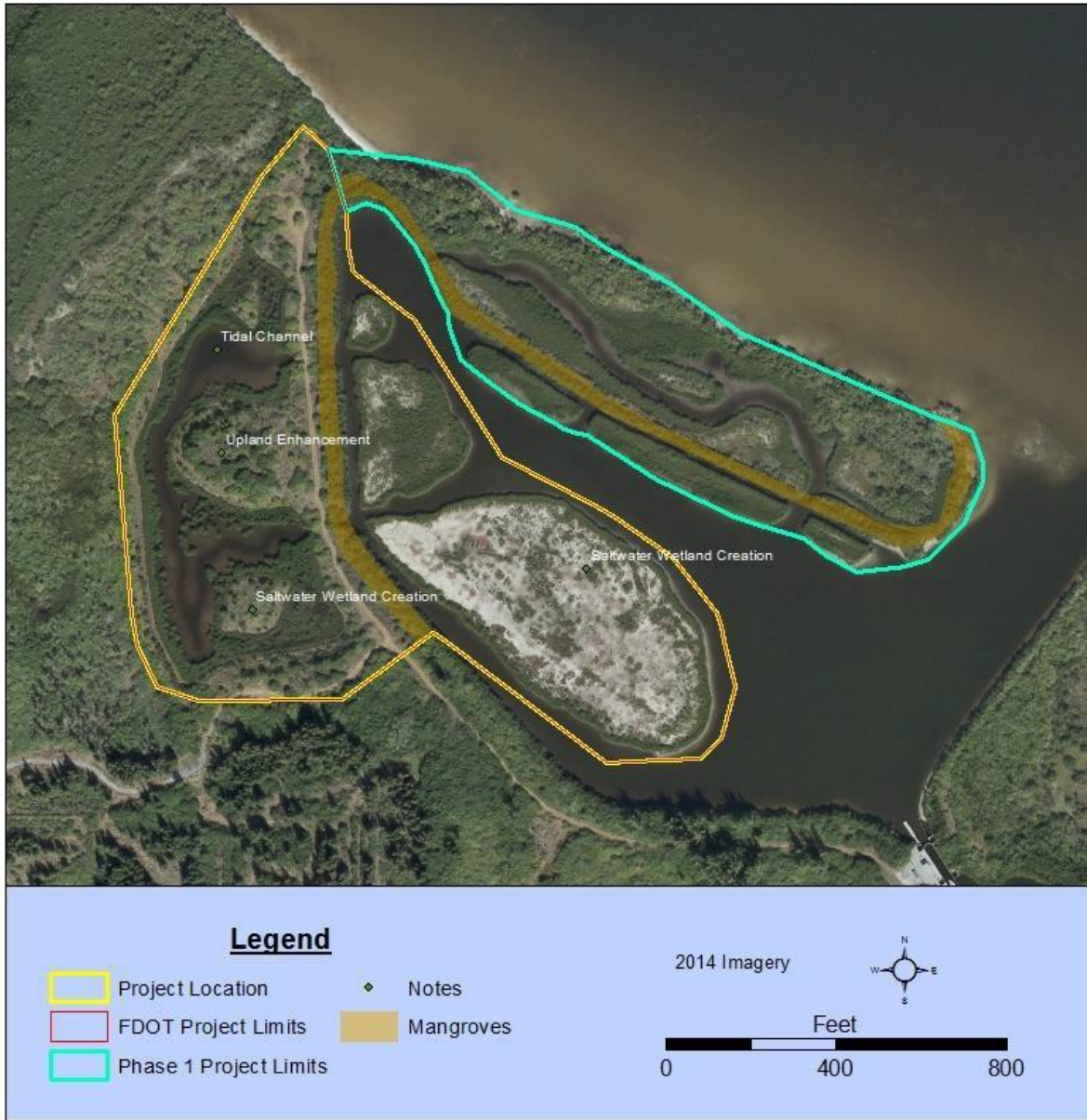
FDOT Mitigation Plan

SW 31 - Cattle Dock Point
Figure B - Pre-Construction (3/41S/21E)



FDOT Mitigation Plan

SW 31 - Cattle Dock Point
Figure C - Post-Construction (3/41S/21E)



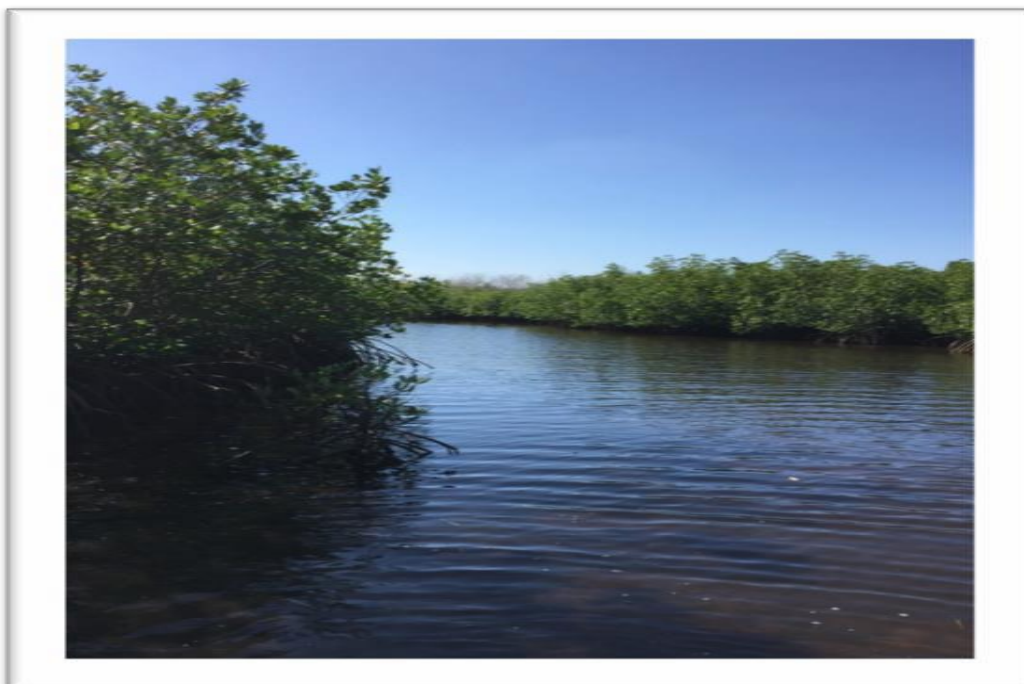
FDOT Mitigation Plan



Cattle Dock showing established mangroves along tidal creek (2012).



Cattle Dock showing culverts installed to reconnect tidal flows (2012)



Established mangroves along tidal creek (2016).



High marsh facing northwest on north end of the property. (2016)

SW-66 CIRCLE B BAR RESERVE MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Circle B Bar Reserve	Project Number	SW-66/D023
Project Type	Wetland creation, restoration and enhancement		
Landowner	Polk County, Southwest Florida Water Management District	Management Entity	Polk County/Southwest Florida Water Management District
County	Polk	Watershed	Peace River
Water bodies	Banana Creek Canal, Lake Hancock	Water body Designations	SWIM Water Body
Project implementation status: (As of December 2018):	Perpetual Management		
Project utilization: (As of December 2018)	Permitted FDOT projects: 13		
	Planned, not yet permitted, FDOT projects: None		
S/T/R:	1,2/29S/24E;6/29S/25E		

IMPACT INFORMATION (As of December 2018):

	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Peace River	1938991	US 17 Livingston to Hardee County Line	26.49	43022736.000	2001-05669
Peace River	1940931	US 17 (SR 35) Peace River to Tropicana Rd.	27.29	43016955.001	2001-02990
Peace River	1971681	SR 60A (Van Fleet Dr.) CR 555 to Broadway Ave.	0.46	44023032.000	2002-00069
Peace River	1975331	US 27 Towerview Rd. to SR 540	5.69	43023834.002	2002-05668
Peace River	1976381	US 98 - Carpenter's Way to Daugherty Road	1.06	44013552.003	2002-06904
Peace River	1976791	US 27 SR 544 to Blue Heron Bay ¹	12.97	43023431.000	2002-02574
Peace River	1977014	SR 559 Extension SR 655 (Recker Hwy) to Derby Ave.	0.61	44035330.000	2009-04277
Peace River	1977051	US 27 SR 60 to Towerview Blvd.	0.23	44023431.003	2004-02920
Peace River	1977061	US 27 SR 540 to SR 542	4.03	43023431.000	2008-02283
Peace River	1977071	US 27 SR 542 to CR 546	1.44	44021373.000	2006-00538
Peace River	4082685	US 98 Manor Drive to CR 540A	0.50	44029183.004	2009-04276
Peace River	4110391	US 27 CR 546 to SR 544	1.83	43033368.000	2008-01942

Peace River	4251371	SR 17 @ Mountain Lake Cutoff Intersection Improvements	0.15	44023020.001	No permit required
		Total Impact Acreage:	82.75		

¹ Additional impacts for this project are within the Ocklawaha Basin and associated mitigation conducted at SW-76 Lake Lowery.

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Forested wetland	Enhancement	Peace River	91
Forested wetland	Restoration	Peace River	64
Marsh	Restoration	Peace River	362
Marsh	Creation	Peace River	4
Marsh (obligate)	Restoration	Peace River	83
		Total:	604

PROJECT DESCRIPTION

A. Overall project goals: In late 2000, Polk County and SWFWMD co-purchased approximately 1,256 acres (formerly Circle B Bar Ranch) to convert the property into a wildlife and passive recreational preserve with a long-term objective to restore and enhance upland and wetland habitat throughout the property. The core of the tract had the historic hydrology substantially altered by the construction of the Banana Creek Canal and contributing ditches, converting most historic wetlands into improved pasture. Desired restoration and enhancement of wetlands were added to the FDOT mitigation program in 2001. Following site evaluation, design and permitting from 2001-2004, earthwork construction was conducted in 2005-2006 to remove levees along the western property boundary that blocked and diverted contributing flow from Banana Lake, backfill the majority of the Banana Creek Canal and conveyance ditches to restore sheet flow hydrology, reinforce and elevate two access roads and install culverts to aid in restoring sheet flow hydrology, eradicate pasture grasses, conduct extensive planting and conduct perpetual herbicide maintenance activities.

B. Brief description of pre-construction habitat conditions: Historically, surface water from Banana Lake maintained a sheet flow hydrology connectivity east through forested and marsh wetland habitat, ultimately flowing into Lake Hancock. During the 1940's, the construction of the Banana Creek Canal between the two lakes, along with connecting tributary ditches, substantially drained the area to convert wetlands into improved pasture. In addition, a large levee was constructed along the western property boundary (Figure B). This impounded water in the forested wetland west of the project area, diverted the ground and surface water away from the wetlands in the Reserve, and forced water to flow directly into the canal. Spoil material rimmed each side of the canal, resulting in water in contributing conveyance ditches being pumped over the berms into the canal to flow directly into Lake Hancock. Several decades of extensive drainage and dewatering converted most of the historic wetland acreage to improved pastures for intensive cattle grazing (refer to site photos). Prior to restoration construction, most of the remnant wetlands were associated with a few forested wetlands bordering the pastures and scattered small ephemeral marsh pockets within the improved pastures. Historically, there were additional forested wetlands that were lost because of the altered drainage and subsequent muck oxidation resulting in tree fall.

C. Brief description of construction activities and current habitat conditions: After the cattle lease was discontinued in 2001, the dewatering pump system was removed, and all pumped drainage ceased being conveyed into the canal to commence partial hydrologic restoration necessary to achieve the desired Bahia grass mortality and regeneration of hydrophytic vegetation. Two pre-existing north-south berms were substantially regraded to provide necessary structural stability and culverts were installed at appropriate locations and elevations to restore the natural sheet-flow wetland hydrology and appropriate hydroperiods. Fill material for the road berm construction was obtained from widening the existing borrow pit within the north side of the property and creating the 2-acre "Gator Pond" marsh within an adjacent upland area. The western access road is a wet crossing constructed with crushed concrete to match adjacent surface grade elevations. After the two access road berms and culverts were constructed, the spoil rim material was used to backfill the Banana Creek Canal segment west of the Center Road and the western boundary levee was removed to restore sheet flow patterns throughout the wetland floodplain.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): Most of the wetland impacts are associated with disturbed marsh and mixed forested wetland fringes along FDOT right of way within the Peace River watershed, particularly along US Highway 27 and US Highway 17. The roadway wetland impacts have been appropriately and adequately compensated with the restoration and enhancement of large-scale, diverse and regionally-significant wetland ecosystems that benefit the Peace River watershed. The FDOT permits include Uniform Mitigation Assessment Method (UMAM) assessments of the wetland impacts. This information is used to appropriately debit from the available UMAM credits associated with the mitigation habitats associated with this project.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: The permitted mitigation banks currently selling credits in the Peace River watershed basin include the Boran Ranch Mitigation Bank in DeSoto County and the Peace River Mitigation Bank in Hardee County (SW 53 and SW 85 in the FDOT plan). These banks have been selected to provide appropriate mitigation for wetland impacts associated with many roadway projects within the basin. Prior to the establishment of the Peace River Mitigation Bank and after all the available forested wetland mitigation credits were purchased from the Boran Ranch Mitigation Bank, it was necessary to add an additional mitigation project to the FDOT program that had forested wetland credits. This resulted in accepting Polk County's request to include the Circle B Bar Reserve in the FDOT mitigation program. At the time mitigation options were selected, it was estimated that the cost per credit was \$30,000, making the Reserve the more cost-effective option.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: Even though enhancement and restoration of the wetland floodplain is not considered a specific SWIM sponsored project, the site is located between two SWIM-sponsored projects, Banana Lake Restoration (conducted in the late 1980's) and the ongoing improvements for Lake Hancock. By restoring and enhancing the wetland functions and values at the Reserve, additional water quality treatment and attenuation reduce the nutrients previously allowed to flow directly into Lake Hancock via the Banana Creek Canal. The enhancement of the entire Peace River watershed has required substantial emphasis on the hydrologic improvements to water quality and quantity within these headwater areas in the basin. In turn, these improvements result in improved water quality and quantity flowing into Charlotte Harbor, another designated SWIM water body.

PROJECT IMPLEMENTATION

- Planning and design: January 2001-Fall 2005
- Construction and planting: 2005-2006
- Monitoring: 2007, 2008, 2009, 2014, 2015, 2016, 2017
- Maintenance: 2006-2015
- Perpetual Management: Ongoing

Entity responsible for construction: SWFWMD Operations Department performed construction in 2005 and 2006.

Entity responsible for monitoring and maintenance: SWFWMD

Entity responsible for perpetual management: Polk County is responsible for county lands and or private contractors selected by SWFWMD for FDOT site.

Cost for 2018 monitoring: \$19,496.00

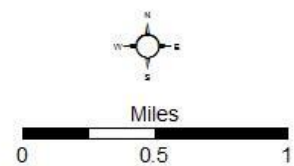
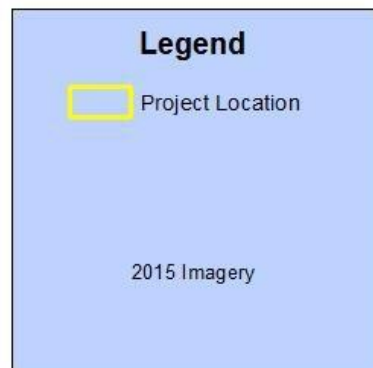
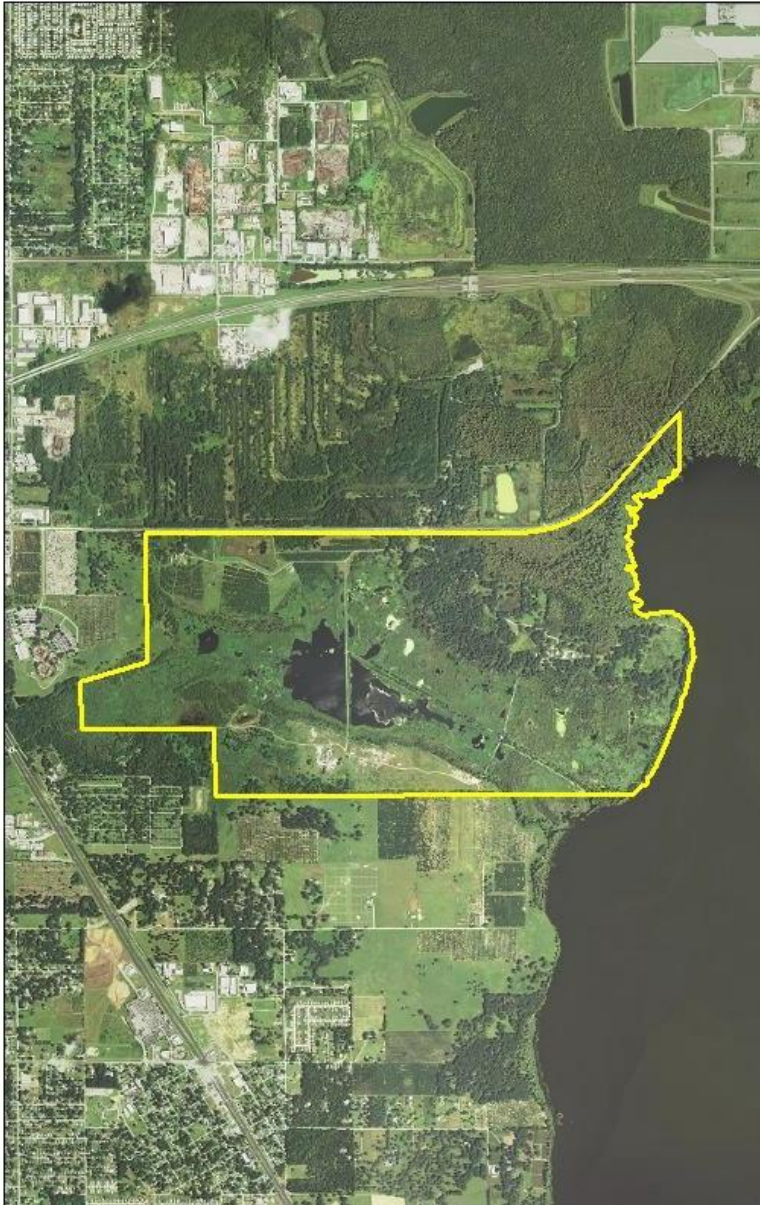
Cost for 2018 maintenance: \$79,360.00

Total Cost for FDOT Mitigation Including O&M: \$2,398,856.00

ATTACHMENTS

1. Figure A-Location
2. Figure B-Pre-construction (2014)
3. Figure C-Post-construction (2014)
4. Photographs (2001, 2005, 2006, 2009, 2013, 2014)

SW 66 - Circle B Bar Reserve
Figure A - Location (1,2/29S/24E;6/29S/25E)



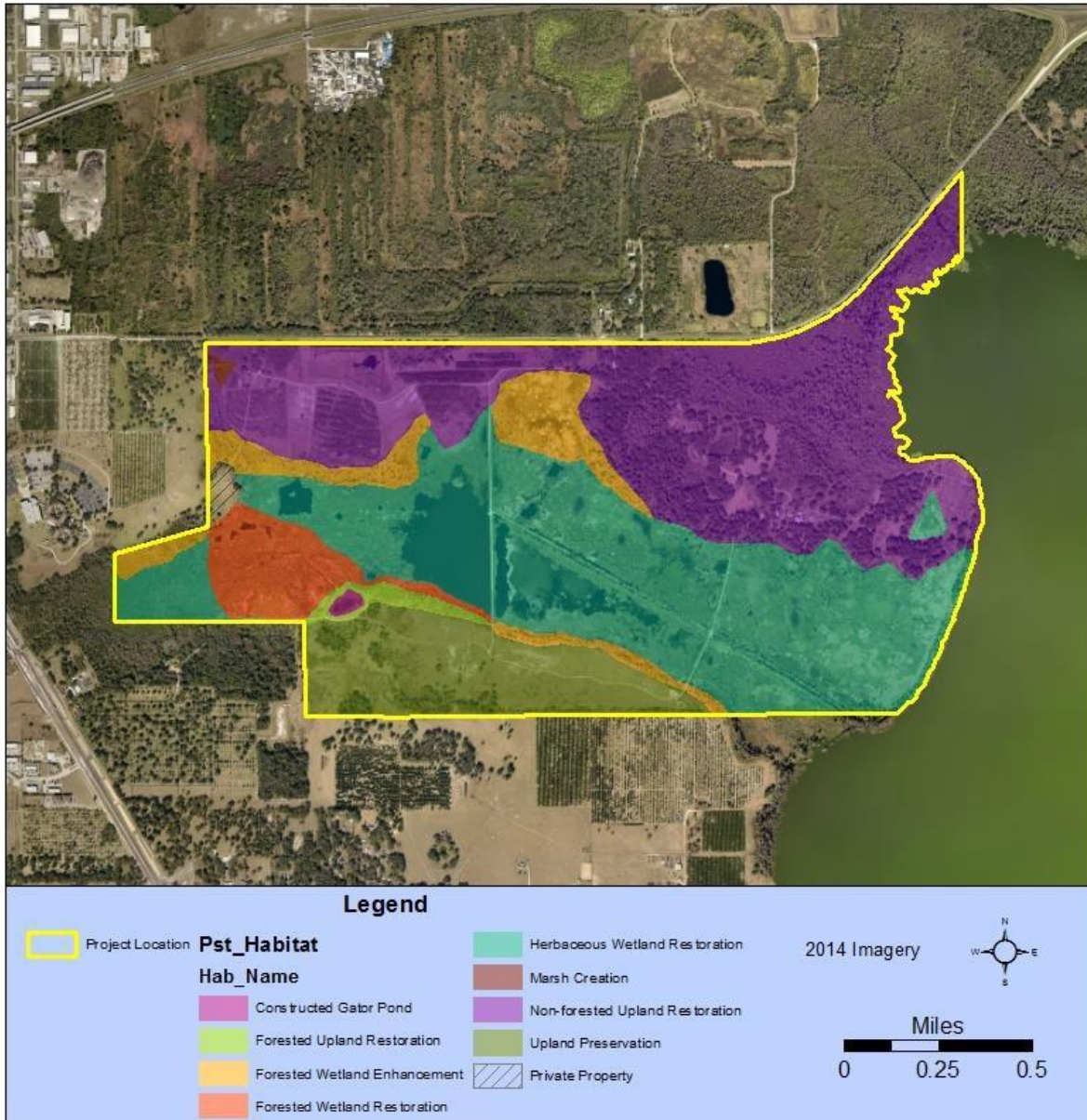
FDOT Mitigation Plan

SW 66 - Circle B Bar Reserve
Figure B - Pre-Construction (1,2/29S/24E;6/29S/25E)



FDOT Mitigation Plan

SW 66 - Circle B Bar Reserve
Figure C - Post-Construction (1,2/29S/24E;6/29S/25E)



FDOT Mitigation Plan

Center Wetland Restoration – Construction of the 2-acre “Gator Pond” in the adjacent southwestern upland pasture provided the fill material necessary to construct the Center Road and Eastern Road. (2005)



Center Wetland Restoration – Obligate marsh zones were planted with small islands of pickerelweed and arrowhead. Fish and other food resources are concentrated as water depth decreases during the dry season. (2009)



Northwest Marsh – The plantings have matured and recruited to provide dense coverage. The marsh provides wildlife habitat as well as water quality benefits. (2009)



Obligate marsh zones created in the Center Wetland restoration area. (2013)



Control structures installed where the center road and the eastern road cross the remnant Banana Creek canal. (2013)



View from main berm road. (2014)



View from main berm road north of education center on Marsh Rabbit Run. (2014)

SW-56 COCKROACH BAY (FRESHWATER) MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Cockroach Bay-Freshwater	Project Number	SW-56/D010
Project Type	Wetland creation and Upland enhancement		
Landowner	Hillsborough County	Management Entity	Hillsborough County/Southwest Florida Water Management District
County	Hillsborough	Watershed	Tampa Bay Drainage
Water bodies	Tampa Bay, Cockroach Bay	Water body Designations	SWIM water body
Project implementation status: (As of December 2018):		Monitoring and Perpetual Management	
Project utilization: (As of December 2018)		Permitted FDOT projects: 6	
		Planned, not yet permitted, FDOT projects: None	
S/T/R:		21,22/32S/18E	

IMPACT INFORMATION (As of December 2018):

Watershed	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Tampa Bay Drainage	2555991	SR 676 (Causeway)-US 301 to US 41 ¹	1.08	43027063.000	2004-05583
Tampa Bay Drainage	2557031	SR 60 Cypress St. to Fish Creek ²	0.90	43002958.004	2002-05816
Tampa Bay Drainage	2558881	US 301- Sligh to Tampa Canal ¹	2.77	43024246.001	2002-06711
Tampa Bay Drainage	2568812	US 19 (SR 55) – Seville Dr. to SR 60	0.19	44025287.002	2006-02199
Tampa Bay Drainage	2569571	US 19 SR 60 (Drew) to Railroad Crossing	1.33	44011760.000	1994-00606
Tampa Bay Drainage	2569941	CR 296 Connector, 40 th St. to 28 th St	1.02	43008898.009	2003-01070
		Total Impact Acreage:	7.29		

¹ Wetland impacts are also offset at SW-71 Boyd Hill Nature Preserve.

² Wetland impacts are also offset at SW-62 Tappan Tract, SW-75 Cockroach Bay (Saltwater) and SW-67 Apollo Beach.

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Freshwater marsh/wet prairie	Creation	Tampa Bay Drainage	23
Coastal Hammock	Restoration	Tampa Bay Drainage	9
		Total:	32

PROJECT DESCRIPTION

A. Overall project goals: Cockroach Bay includes a multi-agency (USACOE, SWFWMD, FDEP, AND Hillsborough County) effort of habitat creation and restoration on property acquired by Hillsborough County (total 651 acres, Figure A). The SWFWMD primarily assisted the County with managing the design, construction and creation of the wetland habitats. This designated mitigation area includes freshwater marsh/wet prairie habitat creation (23 acres) that is buffered by the restoration of coastal hammock habitat buffer (9 acres).

B. Brief description of pre-construction habitat conditions: The project site was historically converted from flatwood habitat to row crops. After public acquisition, agricultural activities discontinued, and the area could go fallow, resulting in a dominance of nuisance and exotic species such as Brazilian pepper, elderberry, ragweed, fennel, and various nuisance grass species.

C. Brief description of construction activities and current habitat conditions: The wetland creation and buffer enhancement activities were constructed in two areas separated from each other by a 20-acre upland area. The initial activity included site clearing to remove nuisance and exotic species. Groundwater monitoring conducted at the sites for a couple years prior to construction aided in determining the appropriate wetland grade elevations necessary to achieve variable hydroperiods within the marshes. Planting of appropriate species within the marsh/wet prairie wetlands was conducted after construction, as well as planting of coastal hammock habitat to provide improved buffers for the wetlands.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): Most of the roadway wetland impacts included low quality marsh habitat. The creation of freshwater marsh/wet prairie habitat (26 acres) and restoration of coastal hammock buffer (7 acres) appropriately and adequately mitigate for the wetland impacts at a cumulative ratio of 4.3 to 1. Other than the wetland impacts associated with the six roadway projects listed above, no additional wetland impacts will be proposed for mitigation within this project.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: The only mitigation bank in the basin at the time of mitigation selection was the Tampa Bay Mitigation Bank, which is also within the Cockroach Bay area. However, the mitigation bank was not constructed and did not have available mitigation credits during the period of mitigation selection for the wetland impacts.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: This habitat project is part of a large County and SWFWMD SWIM Program effort to create and restore habitat within the Cockroach Bay property. The Cockroach Bay restoration effort is guided by the Cockroach Bay Restoration Alliance, made up of stakeholders including agencies, landowners, and the Tampa Bay Mitigation Bank. Even though there are various restoration phases throughout the

Cockroach Bay Habitat Restoration area, they are all inter-related based on-site conditions. Ecosystems transition from upland to wetland habitat, followed by salinity gradients of freshwater to estuarine wetlands. A braided tidal wetland creation project was also selected north of this project area and constructed in 2005 for the FDOT mitigation program (SW 75 - Cockroach Bay Restoration – Saltwater).

PROJECT IMPLEMENTATION

- Design and Permitting: 2002-2003
- Construction and Planting: 2003-2005
- Monitoring: 2007, 2008, 2014, 2015, 2016, 2017
- Maintenance: 2015-2017
- Perpetual Management: Ongoing

Entity responsible for construction: SWFWMD-SWIM

Entity responsible for monitoring and maintenance: SWFWMD

Entity responsible for perpetual management: Hillsborough County-Regional Parks & Conservation Land Management is responsible for county lands and/or private contractor selected by SWFWMD for FDOT site.

Cost for 2018 monitoring: \$22,269.00

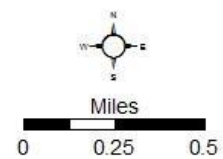
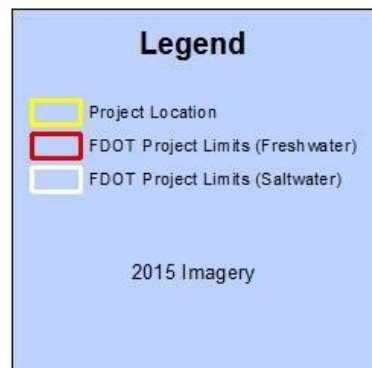
Cost for 201 maintenance: \$45,800.00

Total Cost for FDOT Mitigation Including O&M: \$742,247.03

ATTACHMENTS

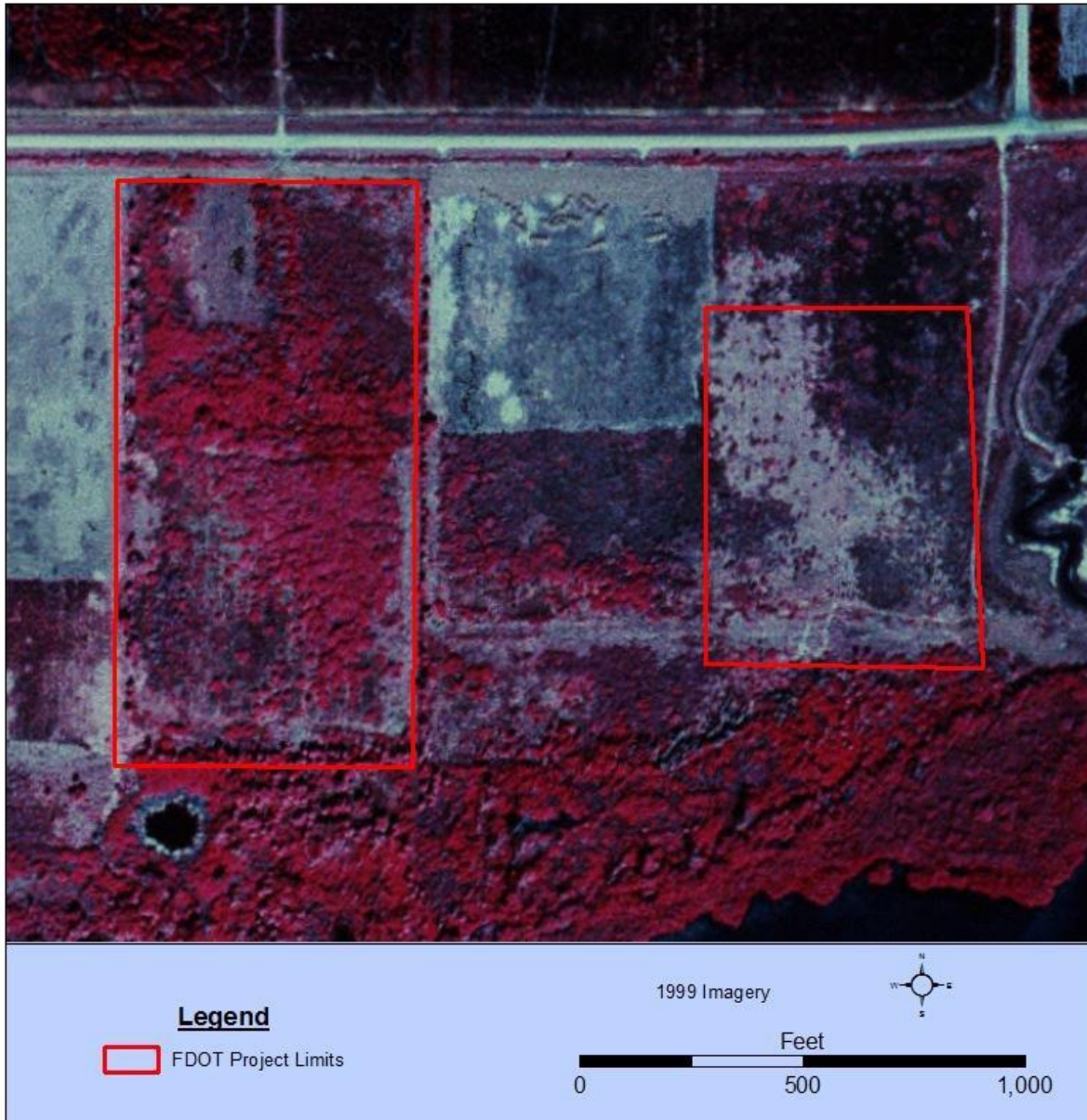
1. Figure A-Location
2. Figure B-Pre-Construction (1999)
3. Figure C-Post-Construction (2014)
4. Photographs (2016)

SW 56 - Cockroach Bay Restoration (Freshwater)
Figure A - Location (21,22/32S/18E)



FDOT Mitigation Plan

SW 56A - FDOT Project Limits (Cockroach Bay)
Figure B - Pre-Construction (21,22/32S/18E)



FDOT Mitigation Plan

SW 56A - FDOT Project Limits (Cockroach Bay) Freshwater
Figure C - Post-Construction (21,22/32S/18E)



FDOT Mitigation Plan



Freshwater wetland looking east. (2016)



Freshwater monitoring transects looking east into wetland. (2016)



Representative picture looking at freshwater wetland enhancement area. (2016)



Transect in freshwater wetland enhancement area looking northeast. (2016)

SW-75 COCKROACH BAY RESTORATION - SALTWATER MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Cockroach Bay Restoration – Saltwater	Project Number	SW-75/D032
Project Type	Wetland Creation		
Landowner	Hillsborough County	Management Entity	Hillsborough County/Southwest Florida Water Management District
County	Hillsborough	Watershed	Tampa Bay Drainage
Water bodies	Tampa Bay, Cockroach Bay	Water body Designations	SWIM Water Body
Project implementation status: (As of December 2018):		Monitoring and Perpetual Management	
Project utilization: (As of December 2018)		Permitted FDOT projects: 3	
		Planned, not yet permitted, FDOT projects: None	
S/T/R:		4,5/27S/19E	

IMPACT INFORMATION (As of December 2018):

	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Tampa Bay Drainage	2557031	SR 60 Cypress St. to Fish Creek ¹	5.00	43002958.003	2002-05816
Tampa Bay Drainage	2570701	US 19 (SR 55) 49 th St to 118 th Ave.	0.02	44000188.002	2002-06325
Tampa Bay Drainage	2571391	SR 688 (Ulmerton Rd.), US 19 to 49th Street	0.10	44026223.000	2003-11664
		Total Impact Acreage:	5.12		

¹ Additional mitigation for other impacts associated with this project are provided at Cockroach Bay (Freshwater - SW-56), the Tappan Tract (SW-62) and Apollo Beach (SW-67).

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Braided tidal marsh	Creation	Tampa Bay Drainage	8.00
Tidal pools and channels	Creation	Tampa Bay Drainage	7.00
		Total:	15.00

PROJECT DESCRIPTION

A. Overall project goals: Cockroach Bay includes a multi-agency (USACOE, SWFWMD, FDEP and Hillsborough County) effort of habitat creation and restoration conducted on property acquired and managed by Hillsborough County (total 651 acres). The SWFWMD SWIM section primarily assists the County with managing the design, construction and creation of wetland habitats. Hillsborough County also conducts the perpetual management of the public lands at Cockroach Bay. This FDOT portion of the

mitigation project includes braided tidal marsh habitat creation (8 acres) connected in a mosaic of open water tidal pools and channels (7 acres).

B. Brief description of pre-construction habitat conditions: Prior to mitigation construction, the wetland creation site was an upland mowed fallow field that was historically a row crop area. The site is bordered to the west by upland oak hammock, previously constructed estuarine marsh habitats, and the mangrove zone along Tampa Bay. This previously created estuarine habitat was designed and constructed to achieve a future tidal connection for the project described here. The connection is evident on the Location aerial (Figure A) in the southwest corner of the project boundary.

C. Brief description of construction activities and current habitat conditions: The construction activities included dredging the uplands to create saltwater marsh habitat, along with tidal pools and channels that connect to the other created estuarine habitat east of the oak hammock. The constructed saltwater marsh habitat includes low marsh with dense coverage of planted smooth cordgrass (*Spartina alterniflora*), and marshhay cordgrass (*Spartina patens*). The high marsh habitat includes dense coverage of planted knotgrass (*Paspalum distichum*) and sand cordgrass (*Spartina bakeri*). The marshes are in a mosaic with the intertidal pools and braided channels. White mangroves (*Laguncularia racemosa*) have also naturally recruited within the marsh habitat. The material dredged during construction was placed into an adjacent shell mine cut east of the site to create additional wetland habitat not associated with the FDOT mitigation program. The site attracts several species of wading birds and fish species migrate from Tampa Bay into the project site.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): The wetland impacts include 5 acres of saltwater marsh habitat and 0.1 acre of mangrove impact. The creation of saltwater marsh habitat and connecting intertidal pools and braided channels achieved dense vegetative coverage years in advance of the wetland impacts, and appropriately mitigate for these FDOT impacts.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: During the time of selecting mitigation for the proposed wetland impacts, the only mitigation bank proposed in the basin was the Tampa Bay Mitigation Bank, which is also within the Cockroach Bay area. However, the mitigation bank was not under construction nor did it have available credits during the time of mitigation selection.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: This project is part of a large Hillsborough County and SWIM effort to create and restore habitat within the Cockroach Bay property.

PROJECT IMPLEMENTATION

- Planning and design: 2002
- Construction: 2005
- Monitoring: 2007, 2008, 2014, 2015, 2016, 2017
- Maintenance: 2005 – 2010
- Perpetual Management: Ongoing

Entity responsible for construction: SWFWMD

Entity responsible for monitoring and maintenance: SWFWMD

Entity responsible for perpetual management: Hillsborough County-Regional Parks & Conservation Land Management is responsible for county lands and/or private contractor selected by SWFWMD for FDOT site.

Cost for 2018 monitoring: \$17,387.00

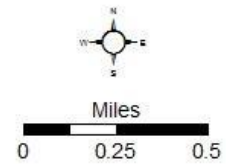
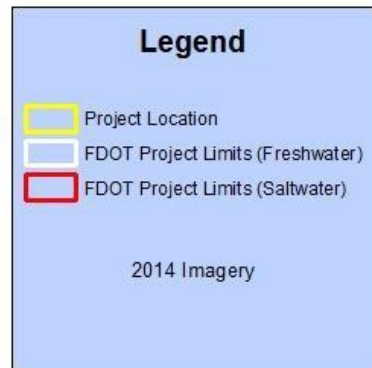
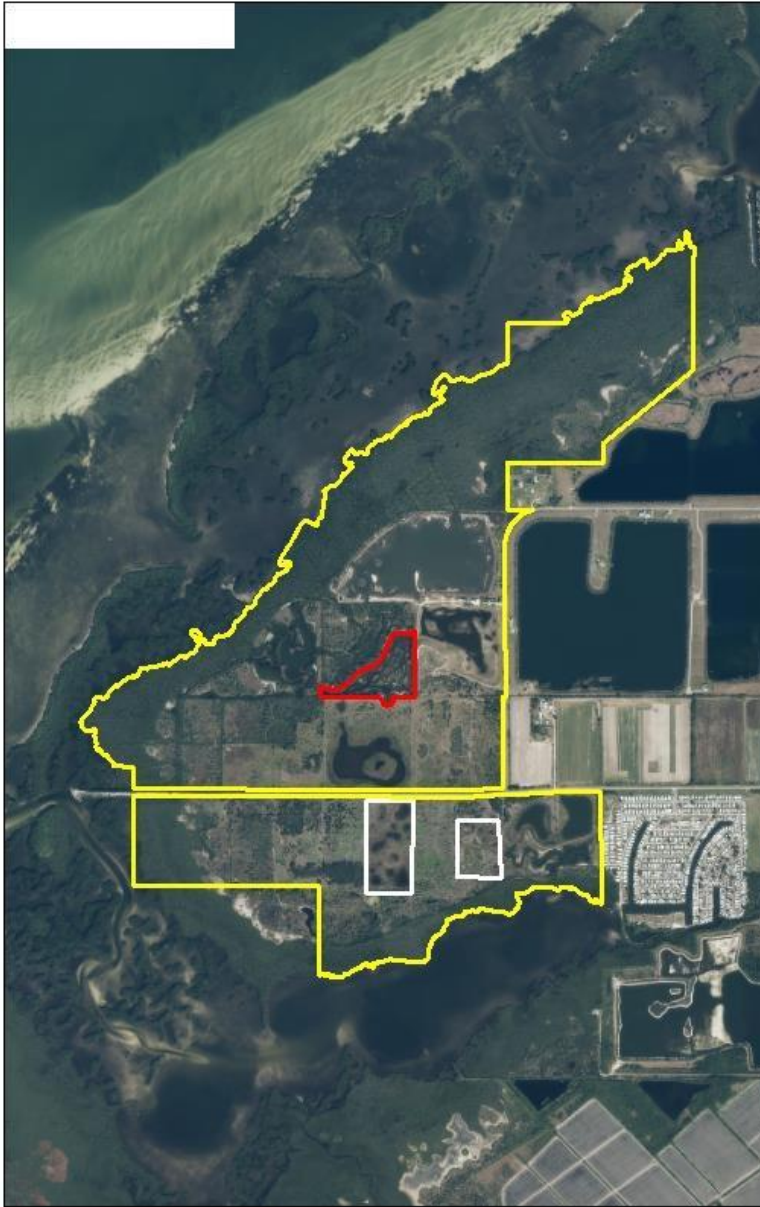
Cost for 2018 maintenance: \$8,200.00

Total Cost for FDOT Mitigation Including Estimated O&M: \$613,628.09

ATTACHMENTS

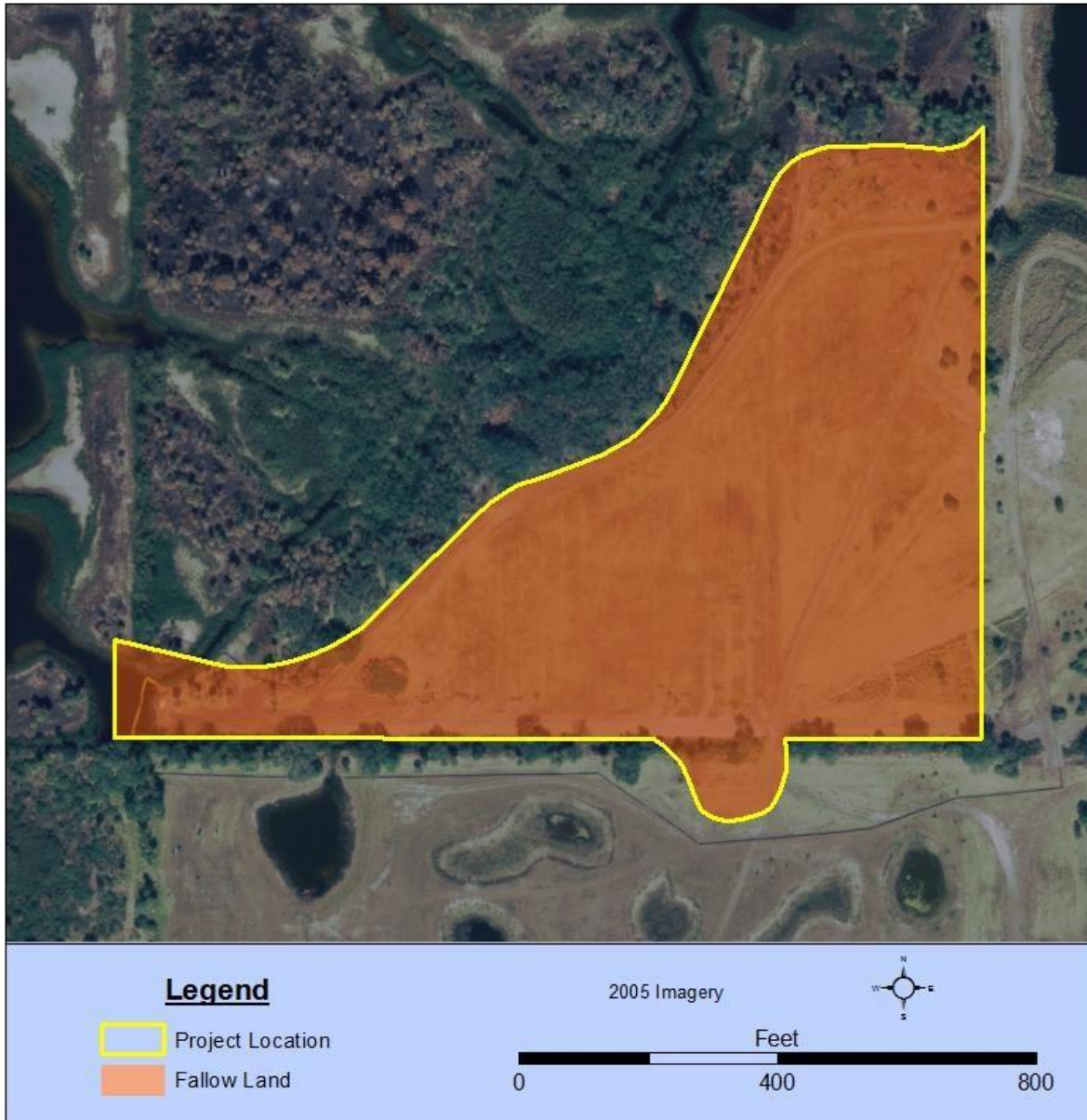
1. Figure A-Location
2. Figure B-Pre-Construction (2005)
3. Figure C-Post-Construction (2014)
4. Photographs (2005, 2009, 2016)

SW 75 - Cockroach Bay Restoration (Saltwater)
Figure A - Location (21,22/32S/18E)



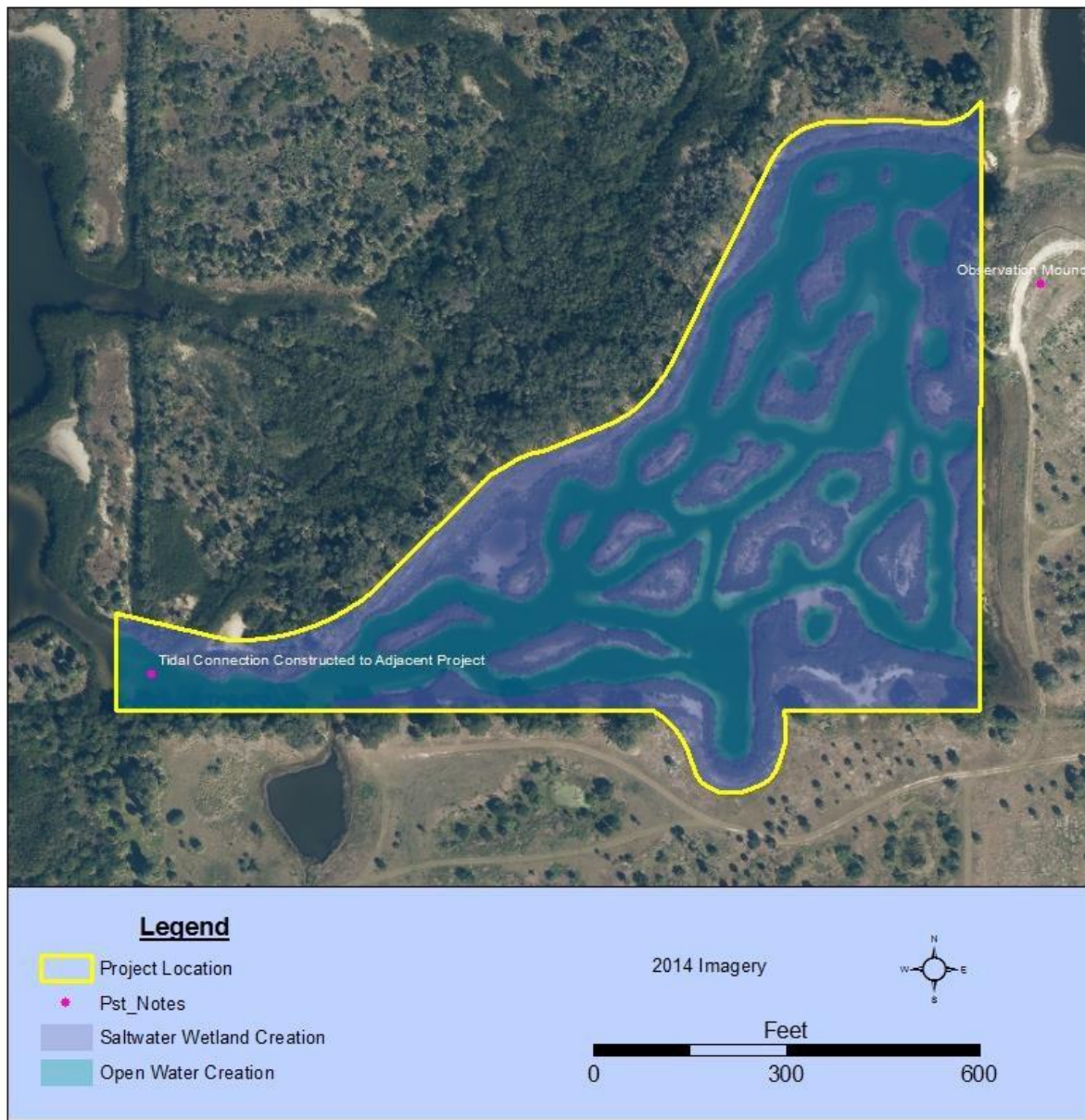
FDOT Mitigation Plan

SW 75A - FDOT Project Limits (Cockroach Bay Saltwater)
Figure B - Pre-Construction (21,22/32S/18E)



FDOT Mitigation Plan

SW 75A - FDOT Project Limits (Cockroach Bay Saltwater)
Figure C - Post-Construction (21,22/32S/18E)



FDOT Mitigation Plan



Marsh grades are final, and a backhoe breaches the canal block to open tidal connection and flow into the constructed wetland. (2005)



View from atop the observation mound, dense cordgrass coverage on the marsh zones separated by braided tidal channels. (2009)



View of salt marsh island in northwest corner of site boundary. (2016)



View of salt marsh island created in southeast corner of site boundary. (2016)



View of intertidal creek in eastern section of project boundary. (2016)

SW-84 COLT CREEK STATE PARK MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Colt Creek State Park	Project Number	SW-84/D050
Project Type	Wetland preservation, creation, restoration and enhancement		
Landowner	Southwest Florida Water Management District and Trustees of the Internal Improvement Trust Fund	Management Entity	Florida Department of Environmental Protection/Southwest Florida Water Management District
County	Polk	Watershed	Withlacoochee River and Hillsborough River
Water bodies	Withlacoochee River, Gator Creek, Colt Creek	Water body Designations	Outstanding Florida Water
Project implementation status: (As of December 2018):	Phase I – Perpetual Management; Phase II – Perpetual Management; Phase III – Monitoring and Perpetual Management		
Project utilization: (As of December 2018)	Permitted FDOT projects: 15		
	Planned, not yet permitted, FDOT projects: 5		
S/T/R:	5,6,8/26S/23E;17,18,19,20,29,30,31,32/25S/23E		

IMPACT INFORMATION (As of December 2018):

Watershed	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Withlacoochee River	2426263	I-75 Hernando Co. Line to Turnpike	2.18	43033330.001	2012-00158
Withlacoochee River	4110113	I-75 (SR 93) from Pasco/Hernando C/L to US98/N SR50/Cortez Blvd	7.08	43041196.001	2013-00641
Withlacoochee River	4110114	I-75 (SR 93) from Pasco/Hernando C/L to US98/N SR50/Cortez Blvd	0.34	43041461.000	2013-03132
Withlacoochee River	4110142	I-75 (SR 93) from N of SR 52 to Pasco/Hernando C/L ¹ (design-build)	3.05	43040738.001	2012-02483
Withlacoochee River	4167351	SR 50/SR 50A Bypass from Broad St to Jefferson N St	1.00	Not Submitted	Not Submitted
Withlacoochee River	4167324	SR 50 from Windmere Rd/Bronson Blvd to US 98/McKethan Road	0.01	Not Submitted	2018-02305

Withlacoochee River	4326971	SR 50/700/US 98/ Cortez from E of SR 50/Cortez Blvd to W of Live Oak Dr	0.25	Not Submitted	Not Submitted
Hillsborough River	2555851	SR 39 (Alexander St) I-4 to Knights Griffin Rd.	14.20	43034467.000	2009-04064
Hillsborough River	2578622	Park Road I-4 (SR 400) to Sam Allen Rd.	0.81	44029780.001	2007-01606
Hillsborough River	4079441	I-75 Northbound Rest Area	2.20	43033020.007	2009-04372
Hillsborough River	4079442	I-75 Southbound Rest Area	1.00	43033020.007	2009-04064
Hillsborough River	4084592	I-75 Fowler Avenue to CR 581	23.79	43021639.006	2007-04495
Hillsborough River	4084593	I-75 - CR 581 (BB Downs) to SR 56 (Mainline)	15.33	43033020.004	2008-03059
Hillsborough River	4084594	I-75 SR 56 to S of CR 54	11.63	43033030.008	2010-00468
Hillsborough River	4089321	SR 39 @ Hillsborough River	2.29	43033500.001	2008-00211
Hillsborough River	4113371	US 92 - Eureka Springs to Thonotosassa Rd. ²	1.45	43031172.000	2006-04072
Hillsborough River	4218311	I-75 - CR 581 (BB Downs) to SR 56	21.54	43033020.002	2008-01707
Hillsborough River	4218314	I-75 S of CR 54 to N of CR 56	16.88	43033020.000	2007-04508
Withlacoochee River	4357201	Good Neighbor Trail Connector Fm W of Suncoast Pkwy to Terminus	0.05	No Wetland Needed	No Wetland Needed
Withlacoochee River	4301321	SR 35 (US 301) from CR 470 to SR 44	7.54	Not Submitted	Not Submitted
Withlacoochee River	4385622	I-75 (SR93) at Sumter Co. NB Rest Area	0.99	Not Submitted	Not Submitted
Withlacoochee River	4358592	SR 50 FROM SR 35 (US 301) TO HERNANDO/SUMTER COUNTY LINE	69.23	Not Submitted	Not Submitted

Withlacoochee River	4358593	SR 50 from Hernando/Sumter County Line to West of CR 757	13.5	Not Submitted	Not Submitted
Withlacoochee River	4358594	SR 50 from W of CR 757 to the Sumter/Lake CL	26.6	Not Submitted	Not Submitted
		Total:	243.88		

Projects highlighted in yellow have been deleted from the FDOT mitigation program and are not included in totals.

Projects highlighted in green have been added to the FDOT mitigation program this year.

¹This project has wetland impacts in the Hillsborough, Upper Coastal, and Withlacoochee basins. Additional mitigation in the Hillsborough Basin is provided at the North Tampa Mitigation Bank. Mitigation for impacts in the Withlacoochee basin will be provided at Colt Creek. Impacts in the Upper Coastal are mitigated at the Upper Coastal Mitigation Bank and Conner Preserve while impacts in the Hillsborough basin are mitigated at Conner Preserve.

²This project has additional wetland impacts in the Tampa Bay Drainage Basin. The designated mitigation for these impacts includes habitat creation and enhancement at the Ekker Tract (SW 81).

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Phase II and Phase III	Restoration and Enhancement	Hillsborough River	581.96
Phase II and Phase III	Restoration and Enhancement	Withlacoochee River	2,053.23
		Total:	2,635.19

PROJECT DESCRIPTION

A. Overall project goals: This mitigation project is located within the region referred to as the Green Swamp (Area of Critical State Concern). The Green Swamp is considered a unique and critical natural resource asset with statewide significance.

The Colt Creek State Park, a high priority land acquisition for over 30 years, was jointly acquired from the Overstreet family by the SWFWMD, FDEP, and Polk County in June 2006. This tract present wetland habitat preservation, restoration and enhancement opportunities that may be used as mitigation in the Hillsborough River and Withlacoochee River watersheds. This project complements two other FDOT mitigation projects in the vicinity. SW 59-Hampton Tract is located immediately to the east of this mitigation project and SW 64-Withlacoochee State Forest-Baird Tract is located north of this mitigation project.

B. Brief description of pre-construction habitat conditions: Even though the parcels that comprise this mitigation project provide important ecological value for the region, there have been activities conducted over the years that substantially alter the natural character of these properties. An extensive network of large and small ditches has altered the hydrologic features within the properties, as well adjacent public and private lands. Many upland habitat communities and some wetland areas are sufficiently drained to be converted to improved pasture. In the remaining native upland habitats, regular prescribed burn cycles are eliminated. As a result, pines (*Pinus elliotii*) and hardwoods such as live oak (*Quercus virginiana*), laurel oak (*Quercus laurifolia*), and red maple (*Acer rubrum*) have

recruited and generated in what was formally pine flatwoods. Ditching has drained and short-circuited drainage patterns of the wetlands such that minimal water depth and duration have allowed facultative vegetative species to recruit into wetlands that were historically vegetated by obligate species and to replace canopy once dominated by bald cypress (*Taxodium distichum*).

C. Brief description of construction activities and current habitat conditions:

Wetland Preservation – Phase I, Colt Creek Tract

Because the FDOT program funded the acquisition in the Hillsborough Basin, all upland and wetland habitats in this basin were expected to provide preservation mitigation. This purchase was expected to provide the FDOT with mitigation credit from both wetland and upland preservation. However, soon after this purchase, the Army Corps of Engineers no longer recognized upland preservation as a separate form of mitigation. The upland preservation achieved with this purchase is considered in the evaluations completed for wetland restoration and enhancement described below.

Wetland Restoration and Enhancement – Phase II, Colt Creek Tract

There are two former wetland areas that were converted to pasture. Both areas will be restored as freshwater marshes. Wetland hydrology in these areas is re-established either through re-grading or the construction of water control structures. Both areas have been replanted. Herb species planted in the freshwater marsh restoration area include soft rush (*Juncus effusus*), arrowhead (*Sagittaria lancifolia*), pickerelweed (*Pontederia cordata*), spikerush (*Eleocharis interstincta*), sand cordgrass (*Spartina bakeri*).

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s):

The largest percentage of the anticipated wetland impacts in the Hillsborough basin include approximately 30 acres of forested wetland habitats associated with widening Interstate-75 in northern Hillsborough and Pasco Counties. Most of the proposed mitigation activities will consist of wetland restoration and enhancement in the Hillsborough River basin. The wetland habitat improvements will be buffered by upland habitat enhancement, restoration and appropriate management to provide an interdependent mosaic of habitats critical to support wetland-dependent wildlife species. Since both tracts are predominantly bordered by over 260,000 acres of public lands that also have native habitats being enhanced, restored and appropriately managed, there is even more ecological value associated with this selected mitigation project.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: During the time of mitigation selection of the initially listed roadway projects, there were no established or proposed mitigation banks within the Hillsborough or Withlacoochee River Basins. Newer projects will receive all or a portion of their mitigation credit from mitigation banks.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body:

During the mitigation selection period, there were no new SWIM-associated projects proposed in the Hillsborough or Withlacoochee basins.

PROJECT IMPLEMENTATION

Phase I-Wetland Preservation

- Land Acquisition: June 2006

Phase II -Wetland Creation and Restoration

- Construction and Planting: 2010-2015
- Monitoring: 2014, 2015, 2016, 2017
- Maintenance: 2015-2017
- Perpetual Management: Ongoing

Phase III - Wetland Enhancement

- Design & Permitting: 2013-2014
- Construction: 2015-2016
- Monitoring: 2014, 2015, 2016, 2017
- Maintenance: 2015-2017
- Perpetual Management: Ongoing

Entity responsible for construction: SWFWMD

Entity responsible for monitoring and maintenance: SWFWMD

Entity responsible for perpetual management: FDEP and private contractors selected by SWFWMD for FDOT site.

Cost for 2018 monitoring: \$39,904.77

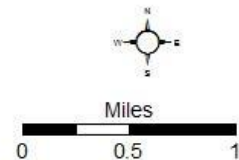
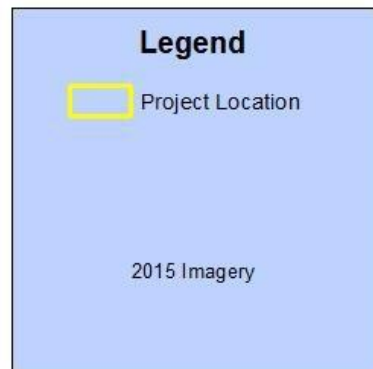
Cost for 2018 maintenance: \$78,925

Total Cost for FDOT Mitigation Including Land Acquisition and O&M: \$8,896,837.34

ATTACHMENTS

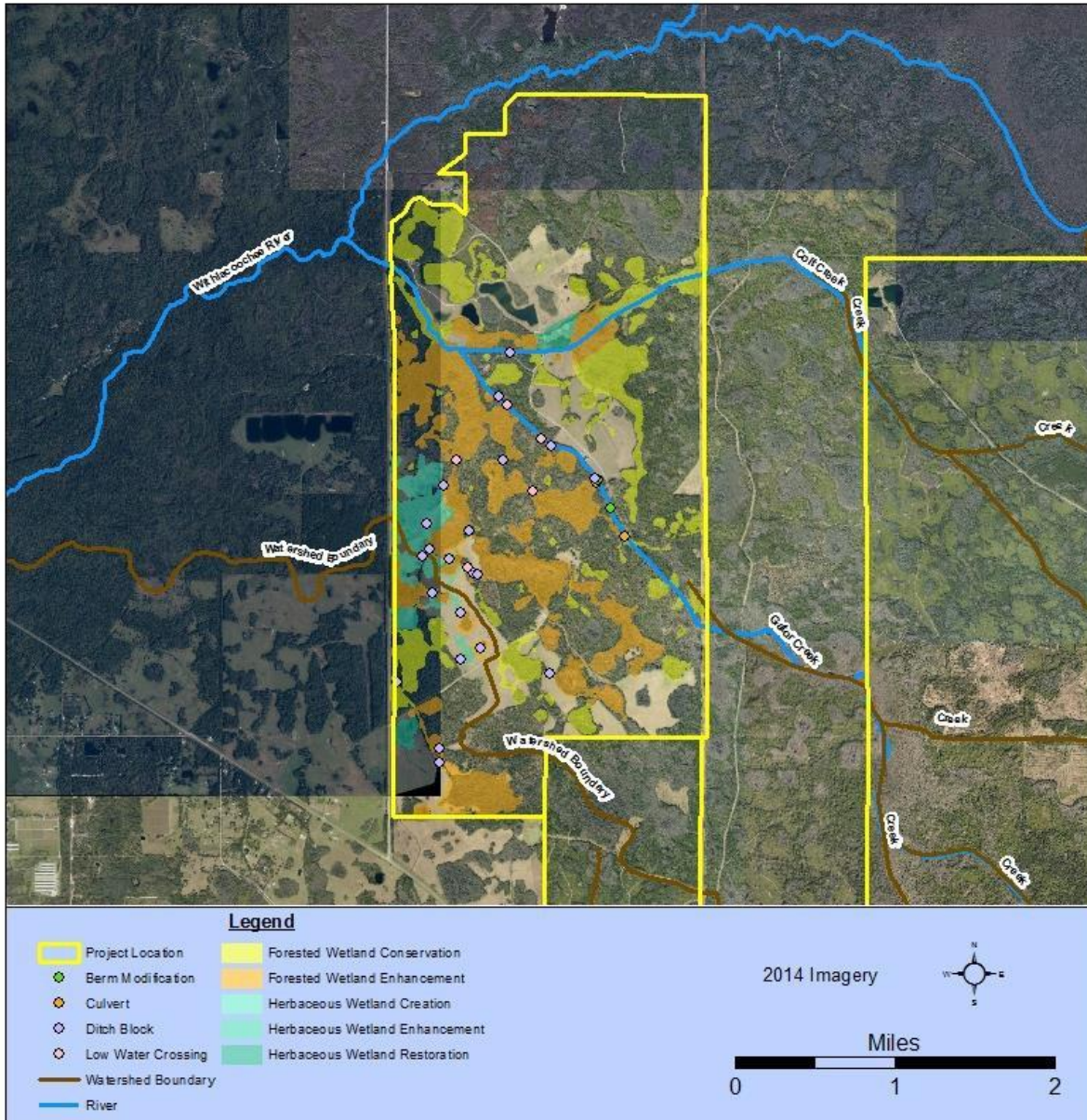
1. Figure A–Location – Colt Creek State Park
2. Figure B-Colt Creek Pre-Construction (2014)
3. Figure C-Colt Creek Post-Construction (2014)
4. Photographs (2012, 2014)

SW 84 - Colt Creek State Park
Figure A - Location (5,6,8/26S/23E;17,18,19,20,29,30,31,32/25S/23E)



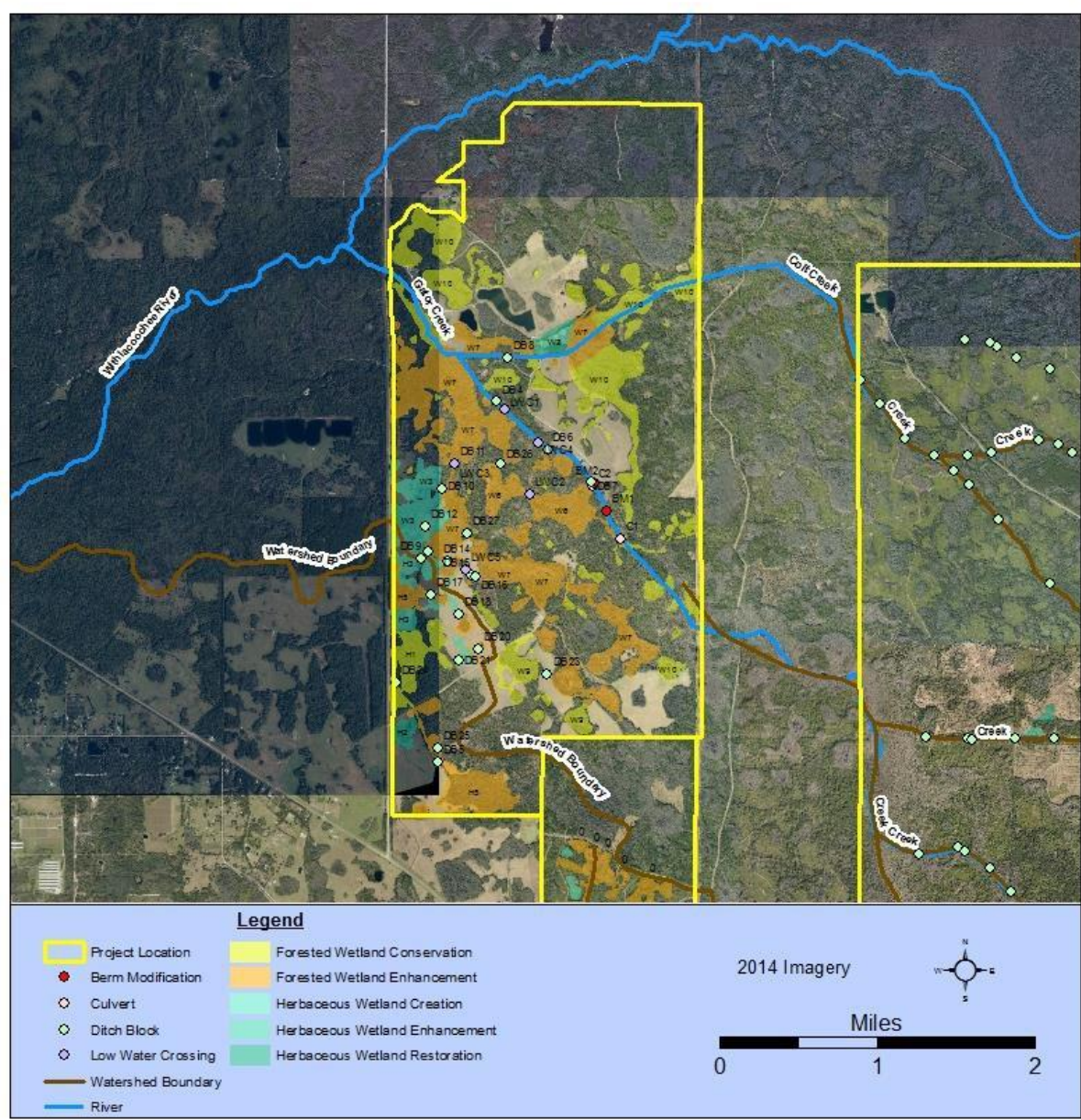
FDOT Mitigation Plan

SW 84 - Colt Creek State Park
Figure B - Pre-Construction (5,6,8/26S/23E;17,18,19,20,29,30,31,32/25S/23E)



FDOT Mitigation Plan

SW 84 - Colt Creek State Park
 Figure C - Post-Construction (5,6,8/26S/23E;17,18,19,20,29,30,31,32/25S/23E)



FDOT Mitigation Plan



Colt Creek Monitoring Site "J"



Colt Creek Monitoring Site "K"



Colt Creek Transect 2



Colt Creek Transect 11

SW-77 CONNER PRESERVE MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Conner Preserve	Project Number	SW-77/D033
Project Type	Wetland Enhancement		
Landowner	Southwest Florida Water Management District	Management Entity	Southwest Florida Water Management District
County	Pasco	Watershed	Upper Coastal Drainage and Hillsborough River
Water bodies	Fivemile Creek	Water body Designations	None
Project implementation status: (As of December 2018):	Perpetual Management		
Project utilization: (As of December 2018)	Permitted FDOT projects: 26		
	Planned, not yet permitted, FDOT projects: 12		
S/T/R:	11,12,13,14,23,24/25S/18E;7,8,17,18,19/25S/19E		

IMPACT INFORMATION (As of December 2018):

	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Upper Coastal	2563221	SR 52 Moon Lake to Suncoast	52.19	43007396.001	2002-06047
Upper Coastal	2563241	US 41 (SR 45) Tower Rd. to Ridge Road	60.17	43033570.000	2008-00329
Upper Coastal	2563321	SR 54 - Rowan Rd. to Mitchell	28.08	40011641.000	1993-02010
Upper Coastal	2563371	SR 54 - Gunn Highway to Suncoast	31.93	43021284.000	1999-05203
Upper Coastal	2568151	SR 586 (Curlew Rd.) CR 1 to Fisher Road	0.61	44009837.008	2002-05245
Upper Coastal	2570501	SR 688 (Ulmerton Rd.) Oakhurst Rd. to 119th St.	0.60	44012347.010	2002-04931
Upper Coastal	4058223	US 19 (SR 55) Jump Court to Ft. Island Trail	52.17	43009590.006	2011-02373
Upper Coastal	2571741	US 98 Hernando Co. Line to US 19	8.18	43023430.000	1998-03481
Upper Coastal	2572982	CR 578 (County Line Rd.) US 19 to East	3.98	44006732.001	No permit required
Upper Coastal	2572983	CR 578 (County Line Rd.) from East Rd to Mariner Blvd	1.43	44006732.003	2010-01912
Upper Coastal	2572985	CR 578 (County Line Rd.) Suncoast Parkway to US 41	2.98	44014061.002	No permit required

Upper Coastal	4110142*	I-75 (SR 93) From N of SR 52 to Pasco/Hernando County Line (design-	3.98	43040738.001	2012-02483
Upper Coastal	4037711	US 19 - Republic Drive to CR 816	0.41	44022085.001	No permit required
Upper Coastal	4058222	US 19 (SR 55) Green Acres to Jump Ct.	3.02	44009590.006	2008-03044
Upper Coastal	4079513	SR 50 US 19 to Mariner	6.13	44035066.000	No permit required
Upper Coastal	4091541	SR 688 (Ulmerton) - Wild Acres to El Centro/Ranchero	3.09	44012347.015	2010-03007
Upper Coastal	4091551	SR 688 (Ulmerton Rd) Lake Seminole to Wild Acres	0.02	44012347.015	2010-03007
Upper Coastal	4188602	US 19 (SR 55) Continuous Right Turn Lane	2.10	44027483.001	2010-00080
Upper Coastal	4327961	SR50/700/US98/Cortez From E of SR50/Cortez Blvd to W of Live Oak	0.25	Not Submitted	Not Submitted
Upper Coastal	4348071	US 19 (SR55) from S of Live Oak St to N of Brittany Park Blvd	0.10	Not Submitted	Not Submitted
Hillsborough River	2558934	SR 574 (MLK Blvd) from East of Kingsway Rd to E of McIntosh Rd	0.90	Not Submitted	Not Submitted
Hillsborough River	2562432	SR 52 (Schrader Hwy) from CR 581 (Bellamy) to Old	11.12	43041295.001	2013-01672
Hillsborough River	2563151	US 41 Bell Lake to Tower Road	1.08	**	1992-41273
Hillsborough River	2563341*	SR 52 US 41 to CR 581	7.41	Not Submitted	Not Submitted
Hillsborough River	2578623	Sam Allen Rd; from Alexander St to Park	15.11	43042976.002	2007-01606
Hillsborough River	2587362	I-75 (SR 93) from North of SR/CR 54 to North of SR 52 (Design-	7.63	43040738.002	2009-01384
Hillsborough River	4080752	US 301 (SR 39) from S of CR 54/Eiland Blvd to N of Kossik Rd	1.00	Not Submitted	Not Submitted
Hillsborough River	4084593	I-75/CR 581 (BB Downs) to SR 56 (mainline)	0.64	43033020.004	2008-03059

Hillsborough River	4110142*	I-75 (SR 93) from N OF SR 52 to Pasco/Hernando County Line (design-	33.33	43040738.006 and 43040738.001	2012-02483
Hillsborough River	4165612	SR 54 from CR 577/Curley Rd to CR 579/Morris Bridge	12.01	43041224.000	2013-00916
Hillsborough River	4305731	I-75/SR56 Interchange from W of CR 54 to W of	10.13	43012944.016	2017-02841
Hillsborough River	4305732	I-75/275 from Co Line Rd to SR 56	1.50	Not Submitted	Not Submitted
Hillsborough River	4305733	I-75/275 from Co Line Rd to Co Line Rd (Phase II)	1.50	Not Submitted	Not Submitted
Hillsborough River	4317462	I-4 from I-4/Selmon Connector to E of	3.00	Not Submitted	Not Submitted
Hillsborough River	4338212	I-275 @ I-4 I-275 from Rome to MLK I-4 from I-275 to Connector	0.50	Not Submitted	Not Submitted
Hillsborough River	4347651	SR 56 from Meadow Pointe Blvd to US	186.39	43042639.000	2016-01243
Hillsborough River	4351421	SR 52 Extension from E of McKendree Road to E of US 301	2.99	43029996.005 and 43029996.006	2009-04102
Hillsborough River	4357501	SR 60 from Valrico Rd to Dover Rd	0.05	Not Submitted	Not Submitted
Hillsborough River	4327342	Overpass Road Interchange from Old Pasco Road to Boyette	10.50	No Submitted	Not Submitted
Upper Coastal	4375141	US 19/US 98/SR 55/SUNCOAST BLVD FR HERNANDO CO LN TO W GREEN ACRES	0.06	Pending	Pending
		Total Impact Acreage:	568.27		

Projects highlighted in yellow have been deleted from the FDOT mitigation program and are not included in totals.

Projects highlighted in green have been added to the FDOT mitigation program this year.

¹ Additional wetland impacts (13.41 acres) in the Upper Coastal Drainage are offset with purchase of mitigation bank credit from the Upper Coastal Mitigation Bank by the FDOT. Additional wetland impacts (0.36 acres) in the Hillsborough River basin are offset with the purchase of mitigation bank credit from the North Tampa Mitigation Bank by the FDOT. Wetland impacts in the Withlacoochee River basin are offset at Colt Creek State Park (SW 84).

² Additional wetland impacts (7.07 acres) are offset by the purchase of mitigation bank credits from the North Tampa Mitigation Bank by the FDOT.

*These projects have impacts in both basins and are represented by two rows each in the table.

** ERP permit mitigation is at Lake Thonotosassa (SW 34).

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Basin swamp, dome swamp	Enhancement	Upper Coastal	482.82
Basin marsh, depression marsh	Enhancement	Upper Coastal	249.88
Basin swamp, dome swamp	Enhancement	Hillsborough River	207.28
Basin marsh, depression marsh, wet prairie	Enhancement	Hillsborough River	224.45
		Total:	1164.43

PROJECT DESCRIPTION

A. Overall project goals: The Conner Preserve (total 2,980 acres) was acquired by the SWFWMD for public ownership in 2003 and was adopted into the FDOT mitigation program in 2004. The tract has a diverse mosaic of wetland and upland habitats within a high priority public lands acquisition area since it is located within a core of surrounding public lands in central Pasco County including Cypress Creek Preserve (7,400-acres), Starkey Wilderness Preserve (18,000-acres), and Cross Bar Ranch (12,500-acres). The overall FDOT mitigation project goal includes enhancement of wetland and upland habitat. There are also several improved pasture islands buffering adjacent wetlands that are being restored into upland habitat communities.

B. Brief description of pre-construction habitat conditions: The Preserve's habitats consist of pine flatwoods, oak hammocks, sandhills, wetlands and improved pastures. Over half of the Preserve is composed of wetlands. The non-forested wetlands include a range of habitat and hydrologic conditions varying from wet prairie, shallow marshes and deeper emergent systems. The forested wetlands are primarily composed of cypress-dominated systems and the remaining predominantly mixed cypress and hardwood communities. Many of the forested wetlands have generated within the outer zones, surrounding marsh habitat, and other forested areas include cypress strands and cypress dome islands within the interior of many marshes. The wetlands are in moderate to high quality condition and have adapted to varying hydrologic conditions. Hydroperiod fluctuations have varied due to rainfall conditions and groundwater influence from wellfields in the vicinity (Cross Bar, Cypress Creek). The only area where wetland functions have undergone noticeable herbaceous vegetative shifts is within the easternmost portion of the property nearest Cypress Creek. Many of the emergent marshes within this area have transitioned to more ephemeral and wet prairie systems because of a reduced hydroperiods. From a landscape perspective, prior conversion of upland habitat to improved pastures and minimal land management practices have fragmented the inter-relationship of habitats with adjacent wetland communities. The pastures and previous cattle grazing practices allowed non-native and exotic species to encroach into the wetlands and uplands, particularly pasture grasses, soda apple, skunk vine, camphor trees and Chinese tallow. Repression of fire resulted in inappropriate density and diversity of vegetative species within the uplands, particularly within the buffers closest to the adjacent wetlands. Very dense stands of hardwoods like laurel oaks and wax myrtle minimized appropriate ground cover vegetation and substantially hindered wildlife access between the wetlands and uplands for foraging and nesting opportunities. Several wildlife species have been reported on the Preserve and the most notable listed species observed include Florida scrub jay, bald eagle, Southeastern American kestrel,

gopher frog, gopher tortoise, Sherman's fox squirrel and several wading birds.

C. Brief description of construction activities and current habitat conditions: Primary wetland enhancement has been achieved through eradication of exotic and nuisance species coverage, beginning with mechanical thinning and control of dense vegetation within the facultative wetland zones and adjacent upland buffers. The inappropriate density of hardwoods and myrtles within the wetland fringes and upland buffers were treated with an initial combination of mechanical thinning (hydro-ax), followed by implementation of a prescribed burn management program (3-5-year cycle), allowing regeneration of appropriate species. Prescribed fire applications at suitable intervals within the marshes have reduced and prevented encroachment of woody shrubs and trees (particularly exotic and nuisance species such as camphor and Chinese tallow), removed detritus, recycled nutrients, and stimulated the regeneration and recruitment of appropriate hydrophytic herbs. Additional wetland enhancement has occurred through enhancement and restoration of adjacent upland habitats. Herbicide eradication of exotic and nuisance vegetation have been implemented to enhance upland habitats that buffer the wetlands, particularly for weedy and/or exotic species such as bahia, persimmon, Chinese tallow, laurel oak, and wax myrtle that had encroached upon the pine flatwoods and sandhill communities.

There are five upland pastures buffering wetlands being restored to their historic habitat conditions of pine flatwoods and sandhill. Restoration of these upland areas have included an intense series of prescribed burns, herbicide application and mechanical disking to eradicate the pasture grasses, followed by direct seeding from upland donor sites within other SWFWMD property, and supplemental planting of appropriate desirable species such as longleaf pine, oaks, tarflower, rusty lyonia, staggerbush and ericaceous shrubs. Due to the availability of donor seed source material and time lag necessary to implement each phase of the restoration activities associated with the upland habitats, each of the five restored uplands had different schedules of implementation. All five pastures received all the preparation, seeding and planting by 2010. Adjacent to the Conner Preserve are two tracts totaling 560-acres of wetland and upland habitat improvements. These improvements were conducted to provide mitigation credit associated with construction-related wetland and upland habitat impacts within the adjacent residential development (Connerton) located south of the Conner Preserve. These two mitigation tracts have achieved success criteria stipulated in their permits, and associated title has been transferred to the SWFWMD for ownership and perpetual management.

Success criteria includes (1) maintaining Bahia grass cover to below 20% cover in the former pastures, (2) greater than 80% cover by desirable sandhill and flatwood species in the former pastures, (3) implementation of regular prescribed fires through the site, (4) maintain less than 2% cover of exotic and nuisance species in the wetlands and (5) maintenance to exclude dense vegetation from re-establishing in the outer zones of the wetlands and adjacent upland buffers. As of 2016, success criteria are being met at the preserve. The Conner Preserve Restoration Plan includes monitoring requirements with qualitative and quantitative evaluation of wildlife, vegetation, and habitat conditions. Monitoring to be conducted semi-annually with annual monitoring reports completed.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): The Preserve has land within the Hillsborough River Basin and the Upper Coastal Basin. Most of the anticipated wetland impacts are associated with roadway projects within a 10-mile radius of the Preserve and will have proposed impacts to wetlands with similar habitats as the wetlands within Conner Preserve.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: FDOT evaluation of mitigation bank options available at the time of permit applications for roadway improvement projects and for the inventory of FDOT roadway improvement projects submitted for inclusion in the 2016 FDOT Mitigation Plan identified impacts that may be offset with the purchase of mitigation bank credit from the Upper Coastal Mitigation Bank and the North Tampa Mitigation Bank (as footnoted in the Impact Information section above).

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: At the time of selection, there were no SWIM sponsored projects proposed in the Upper Coastal or Hillsborough Basins that were appropriate for mitigation credit.

PROJECT IMPLEMENTATION

- Land acquisition: 2003
- Design: 2004
- Construction/restoration: 2005-2010

- Monitoring: 2007, 2008, 2012, 2014, 2015, 2016, 2017
- Maintenance: 2011-2015
- USACE release letter submitted: June 28, 2017
- Perpetual Management: 2016

Entity responsible for construction: SWFWMD

Entity responsible for monitoring and maintenance: SWFWMD is responsible for FDOT site; however, quantitative monitoring will no longer be performed, and site will go into perpetual maintenance.

Entity responsible for perpetual management: SWFWMD

Cost for 2018 monitoring: \$26,569.00

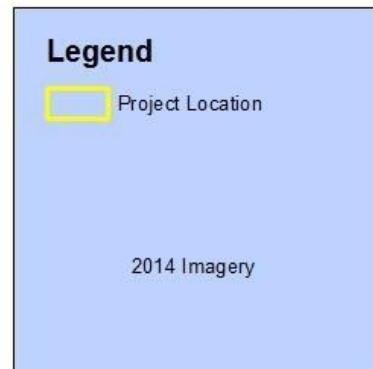
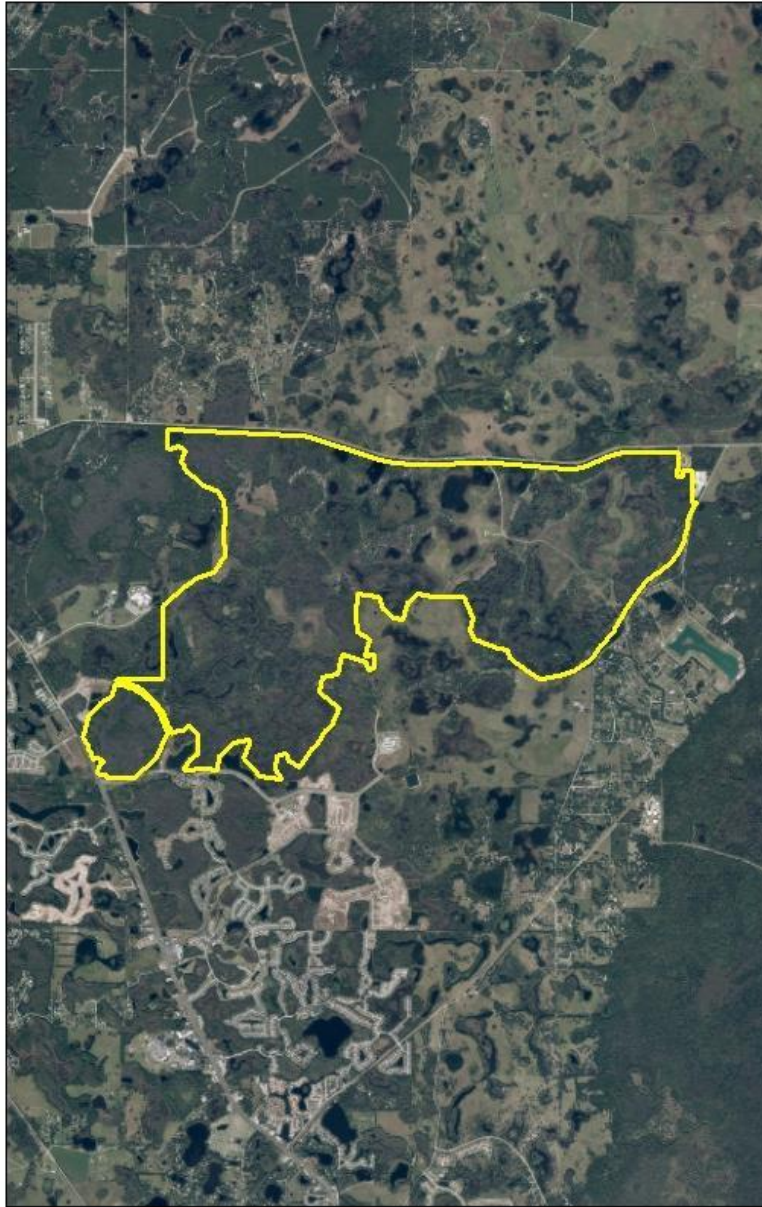
Cost for 2018 maintenance: \$1,228.74

Total Cost for FDOT Mitigation Including O&M: \$785,899.63

ATTACHMENTS

1. Figure A-Location
2. Figure B-Pre-Construction (2004)
3. Figure C-Post-construction (2014)
4. Photographs (2017)

SW 77 - Conner Preserve
Figure A - Location (11,12,13,14,23,24/25S/18E;7,8,17,18,19/25S/19E)

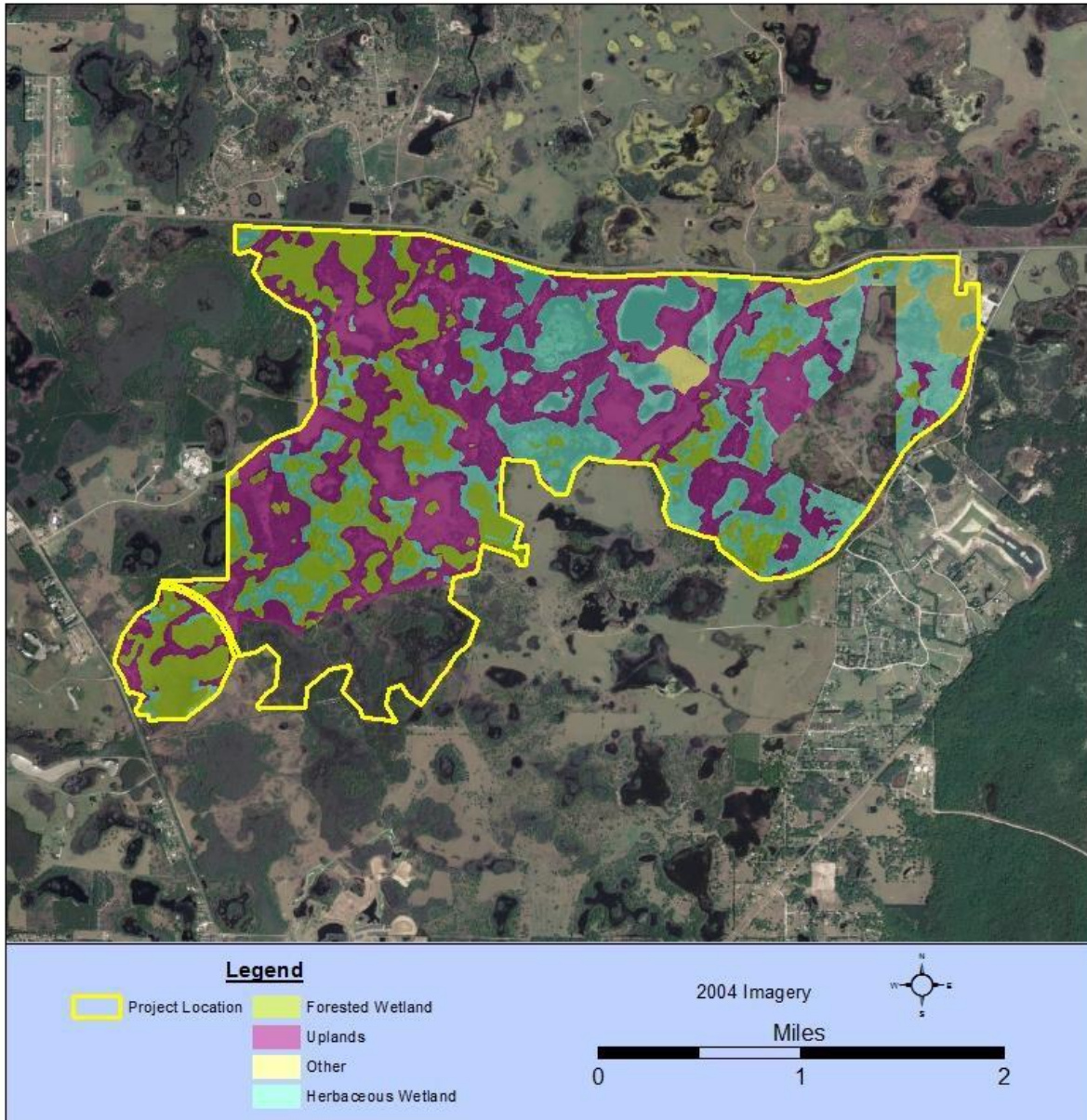


2014 Imagery



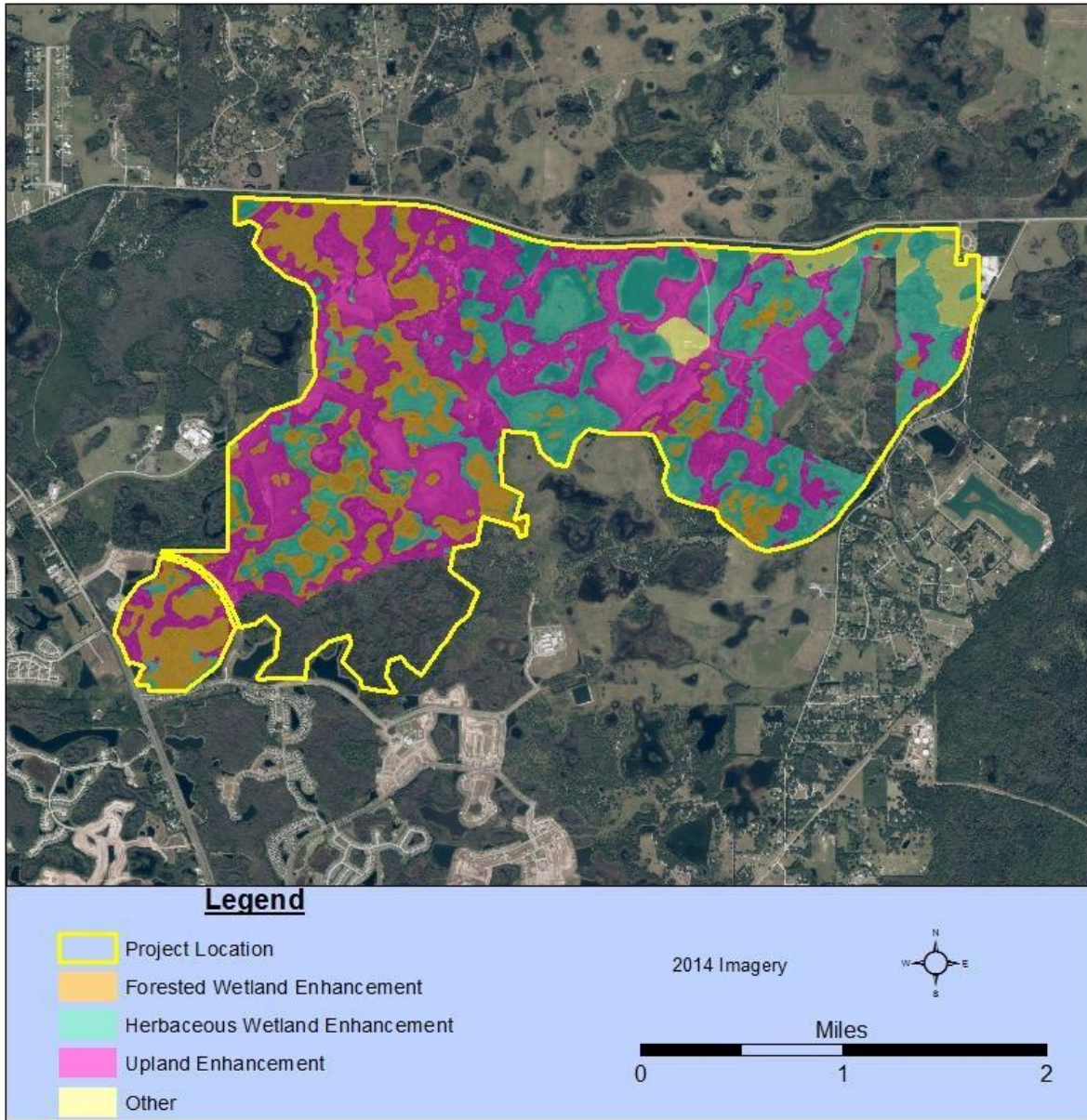
FDOT Mitigation Plan

SW 77 - Conner Preserve
Figure B - Pre-Construction (11,12,13,14,23,24/25S/18E;7,8,17,18,19/25S/19E)

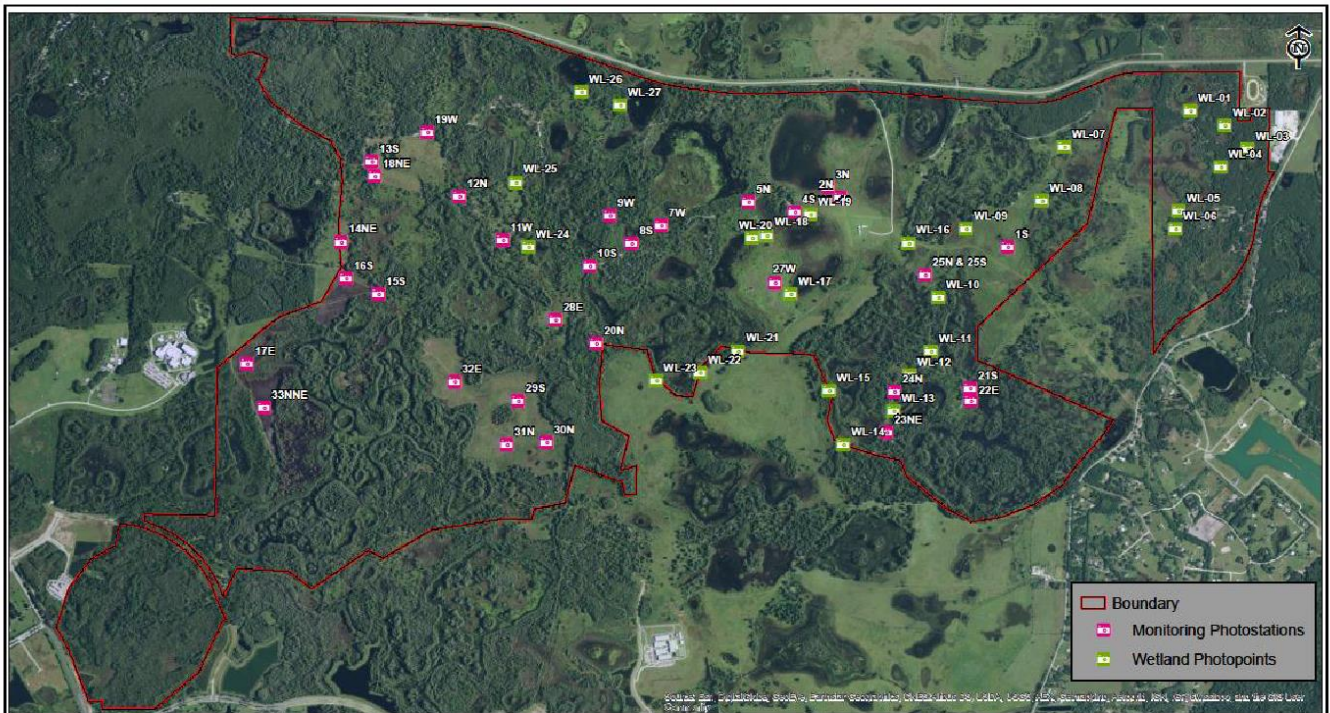


FDOT Mitigation Plan

SW 77 - Conner Preserve
Figure C - Post-Construction (11,12,13,14,23,24/25S/18E;7,8,17,18,19/25S/19E)



FDOT Mitigation Plan



Conner Preserve
Figure 3 - Photostations Map
Pasco County, FL

0 0.125 0.25 0.5 Miles



MODICA & ASSOCIATES
302 Mohawk Road
Clermont, Florida 34715
Phone: (352) 394-2000
Fax: (352) 394-1159
Email: Environmental@Modica.cc
www.ModicaAndAssociates.com



Upland Restoration Area 1B at Photo station 1S – Looking East



Edge of Wetland Area WL07- Looking East



Saw Palmettos at Photo station 25 N & S – Looking East



Feral Hog Uprooting at Edge of Wetland WL-10 Looking North



Edge of Wetland Area WL-22 – Looking East

SW-61 CYPRESS CREEK PRESERVE, WEST – JENNINGS TRACT MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Cypress Creek Preserve West, Jennings Tract	Project Number	SW-61/D011
Project Type	Wetland enhancement, preservation; Upland enhancement, restoration, preservation		
Landowner	Hillsborough County	Management Entity	Hillsborough County/Southwest Florida Water Management District
County	Hillsborough	Watershed	Hillsborough River
Water bodies	Cypress Creek	Water body Designations	Hillsborough River
Project implementation status: (As of December 2018):		Perpetual Management	
Project utilization: (As of December 2018)		Permitted FDOT projects: 10	
		Planned, not yet permitted, FDOT projects: None	
S/T/R:		4,5/27S/19E	

IMPACT INFORMATION (As of December 2018):

Watershed	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Hillsborough River	2012171	I-4 West of Memorial Blvd. to west of US 98 - Sec. 2	3.09	43011896.028	1995-02569
Hillsborough River	2555361	SR 39, Blackwater Creek Bridge Replacement	2.14	43020526.000	2000-00574
Hillsborough River	2558591	SR 678 (Bearss Ave.) Florida Ave. to Nebraska	0.06	44019802.002	2001-01181
Hillsborough River	2578071	Bruce B. Downs Bike Path Amberly Dr. - Hunter's Green	0.50	44018710.000	1998-03683
Hillsborough River	2578072	Bruce B. Downs Bike Path Tampa Limits to Amberly Dr.	0.20	44021434.000	2001-01187
Hillsborough River	2578391	Alexander Street US 92 to I-4	3.16	43011896.025	2000-03012
Hillsborough River	2584131	SR 93 (I-275) US 41 to Pasco Co. Line	7.60	44024745.005	2003-02685
Hillsborough River	2584491	I-4 (SR 400) at Alexander Street Ramp	1.70	43011896.025	2000-03012

Hillsborough River	2587341	SR 56, Cypress Creek to CR 581 (B.B. Downs)	5.30	43012944.004	1995-00079
Hillsborough River	4084602	I-75 Off-Ramp at CR 581	0.48	44021639.000	1998-03683
		Total Impact Acreage:	24.23		

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Improved Pasture to Pine Flatwoods	Restoration	Hillsborough River	17
Palmetto Prairie	Enhancement	Hillsborough River	17
Palmetto prairie	Enhancement	Hillsborough River	11
Mixed forested wetlands	Preservation	Hillsborough River	153
Hardwood hammock uplands	Preservation	Hillsborough River	95
		Total:	298

PROJECT DESCRIPTION

A. Overall project goals: The preservation and habitat improvements of the 298-acre project area includes a high-quality mosaic of native upland and wetland habitat within the Cypress Creek floodplain. The property was a high priority public land acquisition within Hillsborough County's Environmental Lands Acquisition and Protection Program (ELAPP). The Jennings Tract is adjacent to several hundred acres of other County-owned property to the north and to the east.

B. Brief description of pre-construction habitat conditions: The native habitat components of the site represent high quality value and functions relative to wildlife habitat, species richness and diversity and connectivity to additional on- and off-site habitat. There are mixed forested wetlands (153 acres) surrounding mesic hardwood hammocks (95 acres), pine flatwoods (17 acres), and palmetto prairies (14 acres). The only non-native habitat is a bahia pasture (19 acres), along the western edge of the parcel (Figure B).

C. Brief description of construction activities and current habitat conditions: The FDOT mitigation activities included the acquisition of property to preserve and manage high quality forested wetland and upland hardwood hammock habitat. At the request of Hillsborough County, a conservation easement was recorded for the tract and conveyed to the SWFWMD. In 2005, some enhancement of the palmetto prairie habitat commenced with pine plantings. Herbicide eradication and prescribed burning of the Bahia pasture was conducted in 2007, followed by native species seeding and plantings of wiregrass and longleaf pine, to implement flatwoods restoration. The pine flatwoods were overgrown at the time of acquisition and receive prescribed burn management.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): The majority (80%) of the 24.9 acres of wetland impacts designated for mitigation at the Jennings Tract are associated with forested wetlands. The mitigation project not only includes preservation of 248 acres of high quality mixed forested wetlands and hardwood hammocks, but an additional 50 acres of upland habitat enhancement and restoration that buffer the wetlands. No additional wetland impacts associated with other roadway projects will be proposed for mitigation at the Jennings Tract. This

mitigation project adequately and appropriately mitigates for the designated wetland impacts with a cumulative mitigation ratio of 12 acres of compensation for every acre of wetland impact.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: During the selection of the mitigation for the proposed wetland impacts, there were no existing or proposed private mitigation banks in the Hillsborough River basin.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body:

During mitigation selection, the only SWIM sponsored project in the Hillsborough River watershed was the Lake Thonotosassa Restoration Project (SW 34). The habitat improvements associated with that project are providing mitigation for wetland impacts associated with another FDOT roadway project.

PROJECT IMPLEMENTATION

- Land acquisition: Summer, 2000
- Pine plantings: 2005
- Pasture restoration: 2007
- Monitoring: 2007, 2008, 2014, 2015, 2016, 2017
- Maintenance: 2015-2017
- Perpetual Management: Ongoing

Entity responsible for construction: Minor construction and planting activities conducted by Hillsborough County Conservation Services staff and contractors working for the County.

Entity responsible for monitoring and maintenance: Overall site maintenance is performed by Hillsborough County. Site maintenance for compliance is performed by SWFWMD contractors.

Entity responsible for perpetual management: Hillsborough County staff and contractors selected by SWFWMD for FDOT site.

Cost for 2018 monitoring: \$8,370.83

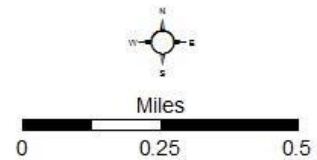
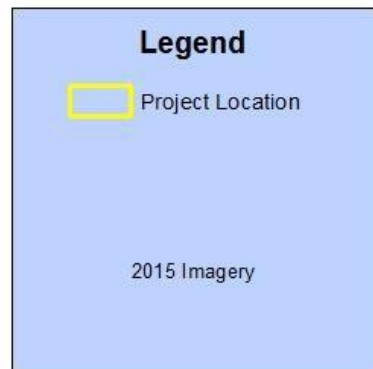
Cost for 2018 maintenance: \$0

Total Cost for FDOT Mitigation Including O&M: \$1,451,016.62

ATTACHMENTS

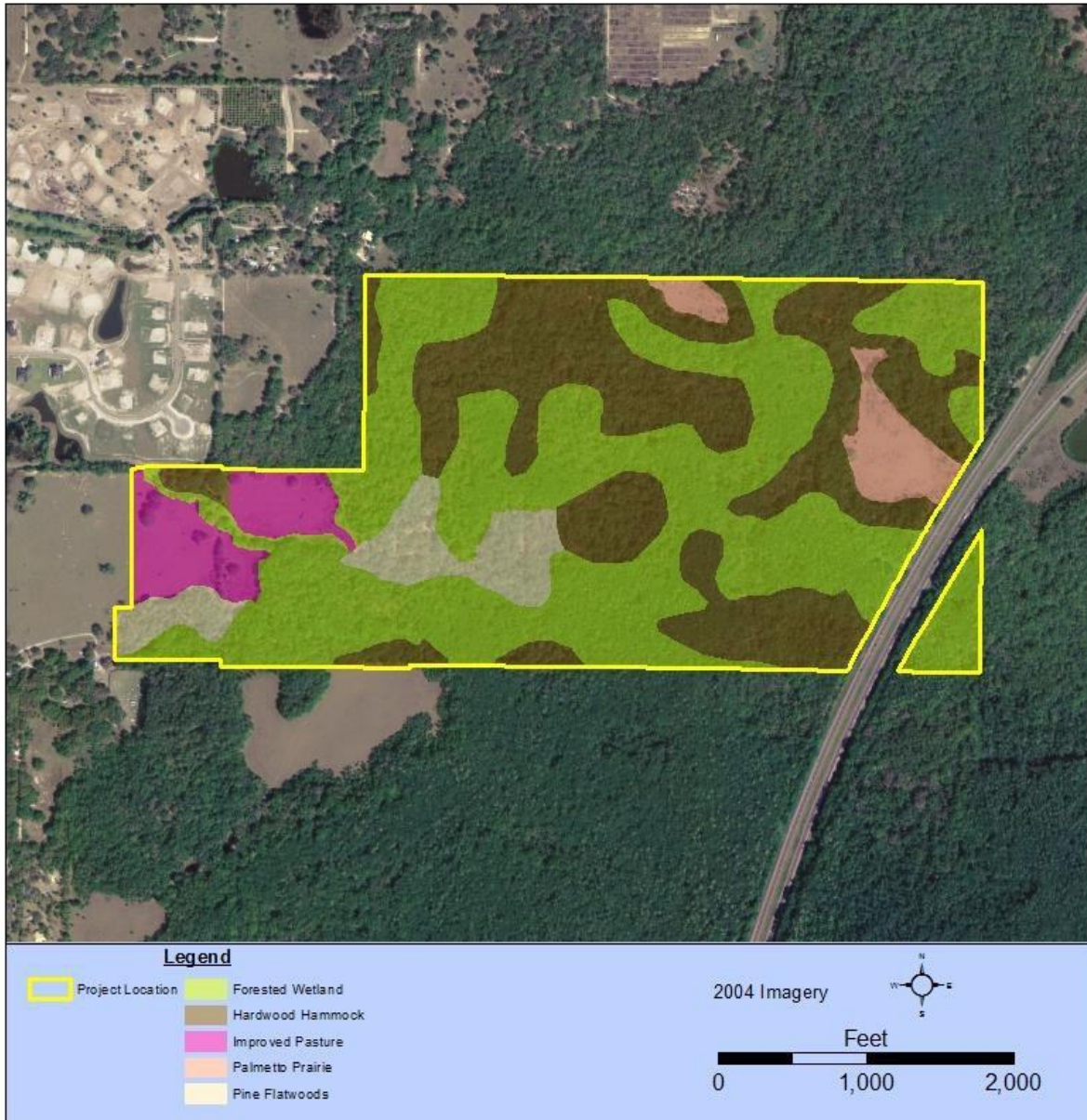
1. Figure A-Location
2. Figure B-Pre-Construction (2004)
3. Figure C-Post-Construction (2014)
4. Photographs (2007, 2014)

SW 61 - Cypress Creek Preserve West - Jennings Tract
Figure A - Location (4,5/27S/19E)



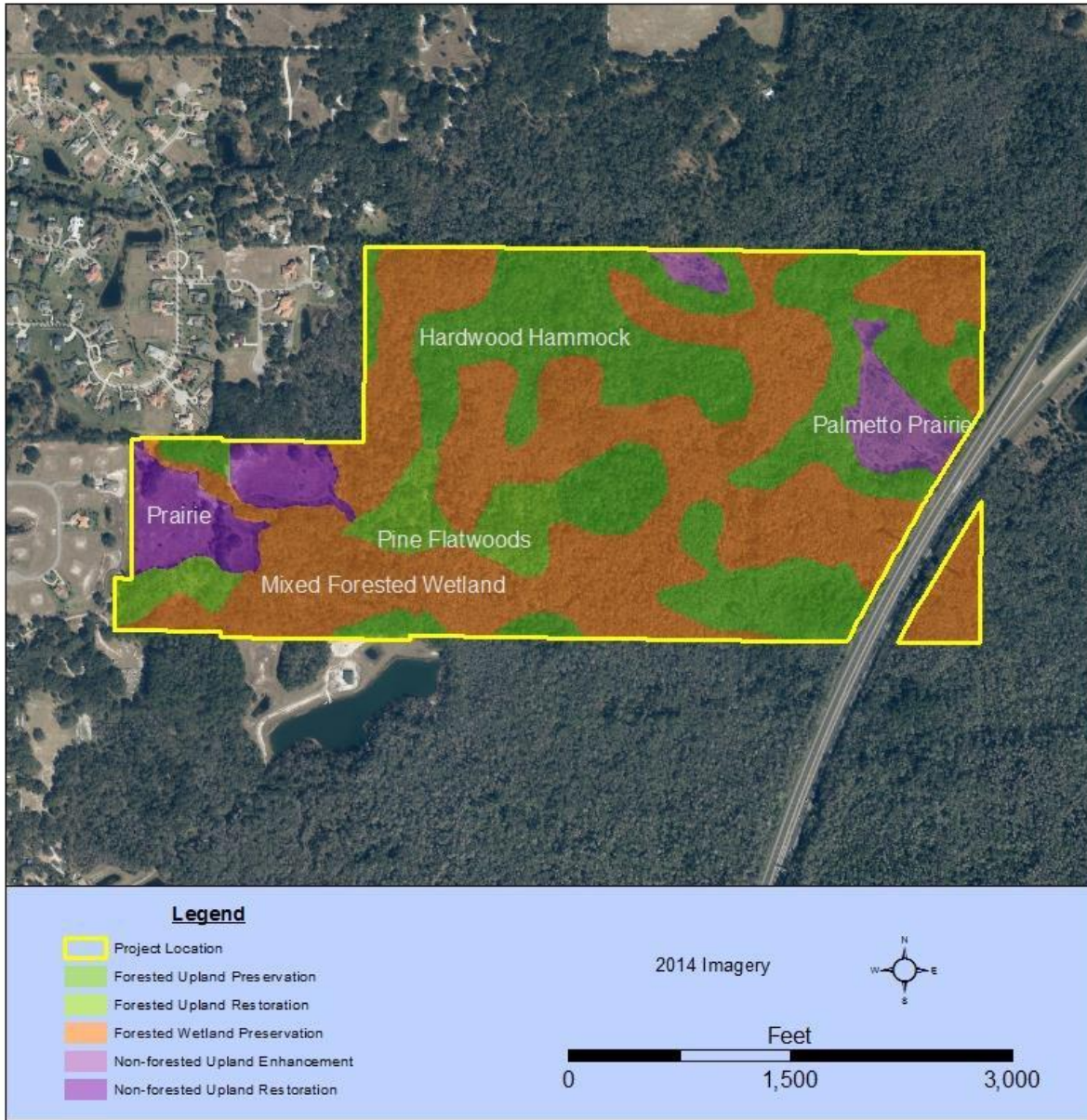
FDOT Mitigation Plan

SW 61 - Cypress Creek Preserve West - Jennings Tract
Figure B - Pre-Construction (4,5/27S/19E)



FDOT Mitigation Plan

SW 61 - Cypress Creek Preserve West - Jennings Tract
Figure C - Post-Construction (4,5/27S/19E)



FDOT Mitigation Plan



Cypress Creek Photo Station 5 (2017)



Cypress Creek Photo Station 2 (2017)



Cypress Creek Photo Station 17

SW-82 EKKER TRACT MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Ekker Tract	Project Number	SW-82/D038
Project Type	Wetland creation, enhancement; upland buffer enhancement		
Landowner	Southwest Florida Water Management District	Management Entity	Hillsborough County/Southwest Florida Water Management District
County	Hillsborough	Watershed	Tampa Bay Drainage
Water bodies	Bullfrog Creek, Smith Creek	Water body Designations	SWIM Water Body
Project implementation status: (As of December 2018):	Monitoring and Perpetual Management		
Project utilization: (As of December 2018)	Permitted FDOT projects: 6		
	Planned, not yet permitted, FDOT projects: None		
S/T/R:	25/30S/19E		

IMPACT INFORMATION (As of December 2018):

Watershed	FM #	Project Name	Total Impacts (ac.)	ERP Permit #	ACOE Permit #
Tampa Bay Drainage	4113371	US 92 Eureka Springs to Thonotosassa Rd. ¹	0.34	43031172.000	2006-00602
Alafia River	4131361	McMullen Rd from Balm Riverview to Boyette Road ²	0.17	44034708.000	2009-00890
Alafia River	4154892	US 301, Balm Rd to Gibsonton Drive ²	0.28	43031128.000	2006-04230
Tampa Bay Drainage	4154892	US 301, Balm Road to Gibsonton Drive	11.85	43031128.000	2006-04230
Alafia River	4357502	SR 60 from Dover Rd to SR 39	1.06	Not Submitted	Not Submitted
Tampa Bay Drainage	4154893	US 301, Sun City Center to Balm Road ³	1.99	43034464.000	2008-03613
Tampa Bay Drainage	N/A	Lee Roy Selmon Crosstown Extension - Temporary Haul Road	0.21	44021031.006	No permit required
		Total:	15.90		

¹ This US 92 segment proposes additional wetland impacts (1.45 acres) in the Hillsborough basin with the associated mitigation designated for Colt Creek State Park (SW 84).

² These projects were moved from the Balm Boyette site in the Alafia Basin to the Ekker Tract in 2015 and permit modifications are underway.

³ Additional wetland impacts being mitigated by FDOT with on-site wetland creation on ELAPP property and forested wetland impacts at Boyd Hill Nature Park (SW 71); additional wetland impacts within the Little Manatee River basin being mitigated at the Little Manatee River – Lower Tract (SW 83).

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Herbaceous marsh and open water/obligate areas	Creation	Tampa Bay Drainage	16.86
Forested wetlands	Creation	Tampa Bay Drainage	0.38
Upland buffer	Creation	Tampa Bay Drainage	71.72
		Total:	88.96

PROJECT DESCRIPTION

A. The Ekker Tract was acquired by the SWFWMD to conduct habitat improvements that will benefit Bullfrog Creek and Tampa Bay. The northern portion of the property is dominated by mesic oak hammock and a pine plantation. The project involved enhancement of the upland habitat by removing nuisance and exotic vegetation, conducting appropriate pine thinning to restore pine flatwood habitat, conducting supplemental planting, and implementation of a land management plan. The southern portion of the property had a substantially altered landscape comprised of 158 excavated tropical fish ponds covering 23 acres. The aquaculture operation was discontinued prior to public acquisition, and the vegetative conditions included substantial domination by exotic and nuisance species, including cattails in the ponds and Brazilian pepper surrounding the ponds. The second project goal was to eradicate nuisance and exotic species and to restore appropriate grades in the ponds to create 17.24 acres of forested wetland and marsh habitat.

B. Brief description of pre-construction habitat conditions: Historical aerials indicate the majority of the Ekker property was cleared of native flatwood vegetation between 1938 and 1957 and converted to improved pasture. By 1957, most of the tropical fish ponds were excavated, with the remaining 26 ponds installed by 1980. Hundreds of other fish ponds were excavated on surrounding property in Gibsonton, many of which have been and will continue to be converted to residential communities. With the loss of substantial freshwater wetland habitat in the Tampa Bay basin, the County and SWIM decided the best ecological alternative for the southwestern portion of the property was to convert the fish ponds to wetland habitat.

C. Brief description of construction activities and current habitat conditions: The wetland creation design for the pond area included marsh and open water habitat (16.86 acres), forested wetlands (0.38 acres), and buffered by a perimeter of an elevated upland habitat established on the rounded fill material (6.65 acres). The design incorporated cross-sectional surveys and groundwater elevations monitored from piezometers installed on the property. Wetland plantings were conducted during the summer of 2010.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): Almost all the roadway wetland impacts designated for mitigation at Ekker are near this mitigation project and many of the wetland impacts are associated with crossings over Bullfrog Creek and Little

Bullfrog Creek. Since these two creek crossings are upstream of the Ekker Tract that is also located adjacent to Bullfrog Creek, the loss of these wetland habitats along the creek will be appropriately mitigated with habitat improvements conducted at the Ekker Tract.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: At the time of mitigation selection, the only existing or proposed mitigation bank in the basin was the Tampa Bay Mitigation Bank (TBMB), which was under construction and did not have available credits released for purchase.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: The habitat improvements associated with this Ekker Tract project is a SWIM-sponsored project.

PROJECT IMPLEMENTATION

- | | |
|------------------------------|--|
| • Design and Permitting: | 2005-2009 |
| • Construction and planting: | 2010 |
| • Monitoring: | 2011, 2012, 2013, 2014, 2015, 2016, 2017 |
| • Maintenance: | 2010-2015 |
| • Perpetual Management: | 2016 |

Entity responsible for construction: SWFWMD

Entity responsible for monitoring and maintenance: SWFWMD

Entity responsible for perpetual management: Hillsborough County and/or private contractor selected by SWFWMD for FDOT site.

Cost for 2018 monitoring: \$17,245.00

Cost for 2018-19 maintenance: \$51,879.5

Total Cost of FDOT Mitigation Including O&M: \$614,789.96


ATTACHMENTS


1. Figure A-Location
2. Figure B-Pre-Construction (2009)
3. Figure C-Post-Construction (2014)
4. Photographs (2012)

SW 82 - Ekker Tract
Figure A - Location (25/30S/19E)

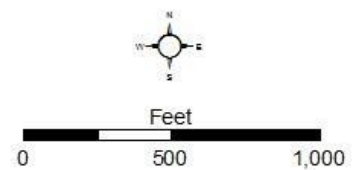


Legend

 Project Location

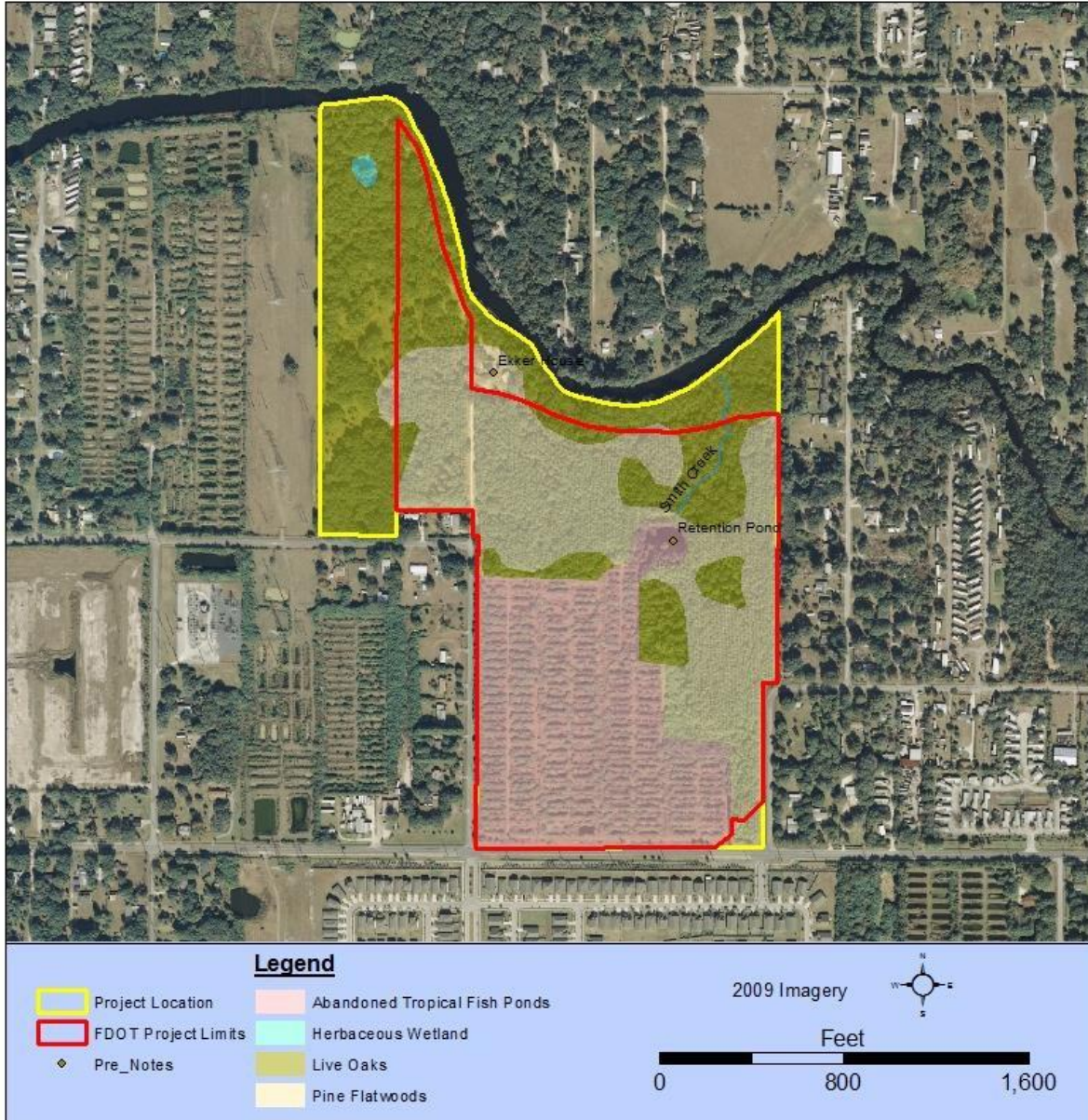
 FDOT Project Limits

2014 Imagery



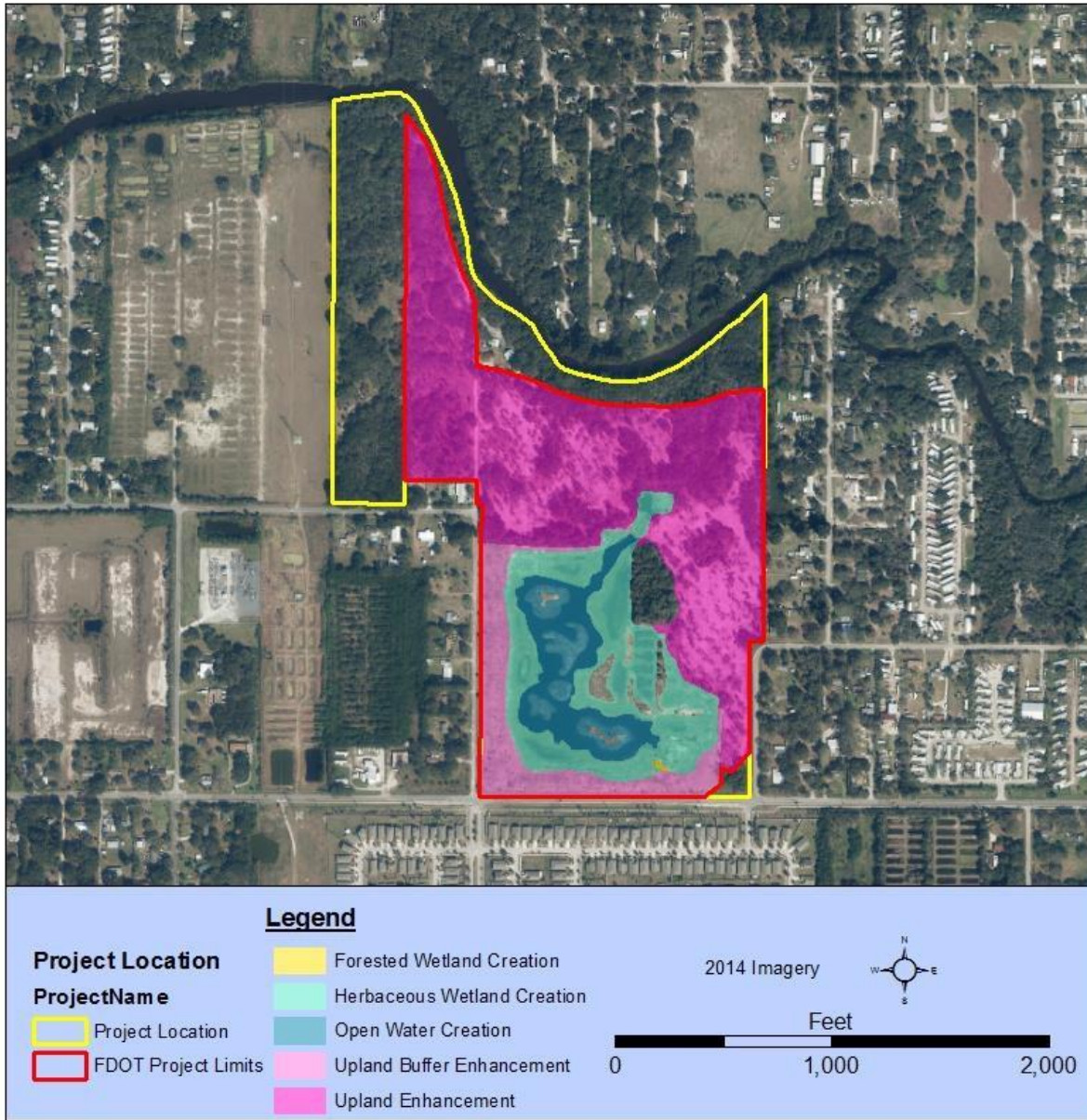
FDOT Mitigation Plan

SW 82 - Ekker Tract
Figure B - Pre-Construction (25/30S/19E)

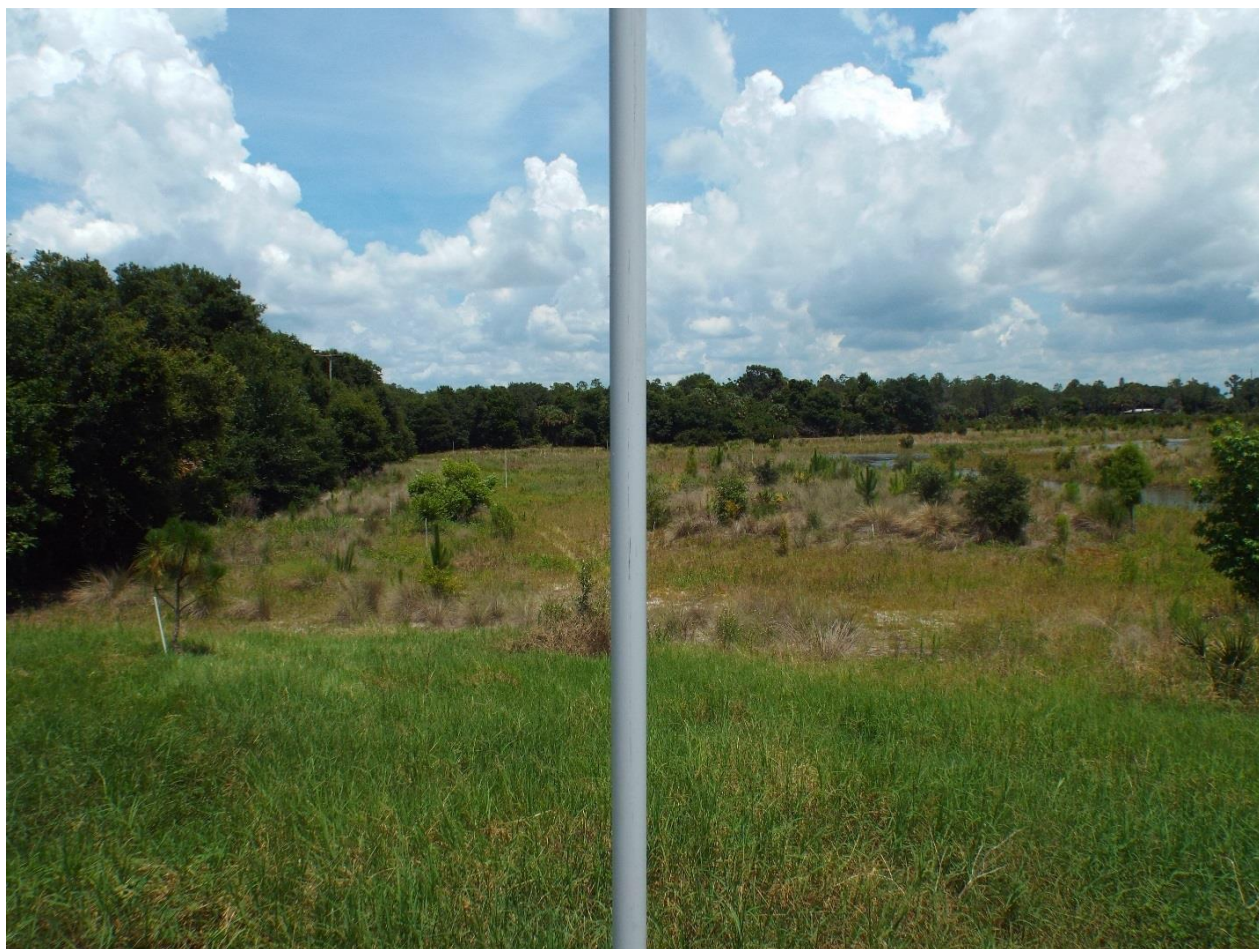


FDOT Mitigation Plan

SW 82 - Ekker Tract
Figure C - Post-Construction (25/30S/19E)



FDOT Mitigation Plan



Ekker Tract Berm Overlooking Marsh (2012)



Ekker Tract Water Conservation Weir (2012)

SW-70 FT. DESOTO PARK ECOSYSTEM RESTORATION MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Ft. DeSoto Park Ecosystem Restoration	Project Number	SW-70/D027
Project Type	Seagrass enhancement and creation		
Landowner	State waters	Management Entity	Pinellas County
County	Pinellas	Watershed	Upper Coastal Drainage
Water bodies	Mullet Key Bayou	Water body Designations	SWIM Water Body
Project implementation status: (As of December 2018):	Perpetual Management		
Project utilization: (As of December 2018)	Permitted FDOT projects: 5		
	Planned, not yet permitted, FDOT projects: 1		
S/T/R:	7,8/33S/16E		

IMPACT INFORMATION (As of December 2018):

	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Upper Coastal Drainage	2569031	SR 682 (Bayway Bridge) SR 679 to W. Toll Plaza	0.74	44023532.000	No Permit Required
Upper Coastal Drainage	2570831	SR 699 (Gulf Blvd.) - 192nd Ave. to Walsingham/Ulmerton Rd.	0.39	44025373.000	2003-07110
Upper Coastal Drainage	4107552	SR 679 (Pinellas Bay Structure E) at Intercoastal Waterway	1.0	47023803.000	2002-04286
Tampa Bay	4271432	SR 579 (PIN Byway S) from N of Yacht Club Ln to S of Madonna Blvd	0.11	43043002.00	2012-03159
Upper Coastal Drainage	4230801	I-25/SR 93 Southbound @ Bunces Pass	0.43	Pending	Pending
Tampa Bay	4107552	SR 679 (Pinellas Bay Structure E) at Intercoastal Waterway	0.04	43023803.004	2002-04286
		Total Impact Acreage:	2.71		

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Seagrass	Enhancement	Upper Coastal Drainage	13.6

Seagrass	Creation	Upper Coastal Drainage	1.06
		Total:	14.66

PROJECT DESCRIPTION

A. Overall project goals: The Ft. DeSoto Park Aquatic Habitat Management Area includes islands that were physically connected to Mullet Key in the 1960's by the construction of filled causeway roads. Since no bridges or culverts were installed, these causeways blocked historic tidal circulation patterns throughout the interior bay area (Mullet Key Bayou) along the north side of Mullet Key, resulting in severe stress and mortality of seagrass habitat. With construction of a 40-foot bridge span through the Pinellas Bayway causeway, flow patterns will be restored to the inner bays and enhance the health and survivorship of adjacent seagrass beds. Based on previous studies, the minimum area of seagrass enhancement expected to result from bridge construction is approximately 255 acres (Figure B), of which 7% (17.85 acres) is set aside for FDOT mitigation, with secondary enhancement of the adjacent mangrove habitat along the causeway and additional seagrass beds further from the structure. The ecological value of this project has been recognized with Pinellas County receiving regional, state, and national awards for engineering and environmental excellence.

B. Brief description of pre-construction habitat conditions: Prior to construction, tidal flow patterns filled the inner bays, with slow and often stagnant hydrologic circulation. This restricted circulation problem resulted in elevated water temperatures in the summer, decreased dissolved oxygen content, water quality degradation and associated seagrass mortality.

C. Brief description of construction activities and current habitat conditions: Pinellas County constructed the bridge span in the location of a historic open water break between two islands. This span restores significant hydrologic circulation, enhancing the Mullet Key Bayou areas with the worst water quality and stagnation problems that in turn has improved the health of the seagrass beds and adjacent mangrove habitats along the causeway. Maintenance of the seagrass beds is not necessary and specific success criteria were not proposed since restoration of the tidal recirculation occurred as soon as the bridge was constructed, however periodic monitoring is being conducted by Pinellas to evaluate the seagrass health and water quality conditions.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): The wetland impacts are associated with minor encroachments into open water, seagrass and mangrove habitats due to urban roadway and bridge expansions in western Pinellas County. Since Ft. DeSoto was first added to the mitigation program, very minor wetland impacts associated with over a dozen FDOT projects designated for mitigation at Ft. DeSoto were ultimately permitted without requiring mitigation. Therefore, along with the three originally permitted roadway and bridge projects, additional minor FDOT wetland impacts within the Pinellas County portion of the Upper Coastal Basin will be evaluated to determine if they can be adequately and appropriately mitigated at Ft. DeSoto. Secondary benefits include restoring tidal conditions to other habitats including adjacent mangroves that border the bays. To date, since the designated FDOT funds (\$110,000) provide 7% of the \$1.6 million bridge budget, seven percent of the 209 acres of seagrass enhancement and creation) within the 255-acre project area) has been designated for FDOT mitigation. The actual acreage of enhancement and creation was determined through a seagrass mapping effort in 2015. Based on the quality of the wetland impacts and associated mitigation evaluation, this mitigation acreage is more than adequate and appropriate to compensate for the 1.3 acres of wetland impacts associated with the above referenced permits.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: At the time of mitigation selection, there were no existing or proposed mitigation banks within the Upper Coastal Basin.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: This project is also being co-sponsored by the SWFWMD SWIM program.

PROJECT IMPLEMENTATION

- Design and permitting: 2000-2003
- Construction: 2004
- Monitoring: N/A
- Maintenance: N/A
- USACE release letter submitted: November 7, 2017
- Perpetual Management: Ongoing

Entity responsible for construction: A private contractor selected by Pinellas County.

Entity responsible for monitoring and maintenance: SWFWMD is responsible for FDOT site; however, monitoring is not required, and site will go into perpetual maintenance.

Entity responsible for perpetual management: Pinellas County

Cost for 2018 monitoring: \$0

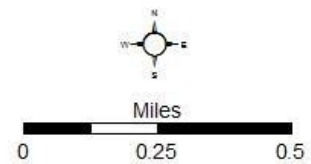
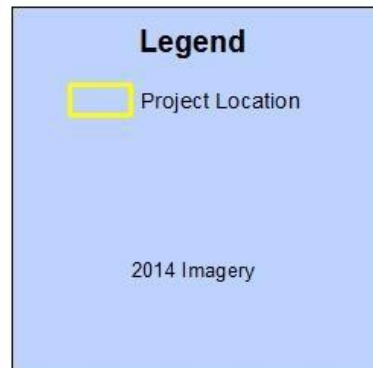
Cost for 2018 maintenance: \$0

Total Cost for FDOT Mitigation Including Estimated O&M: \$120,450.00

ATTACHMENTS

1. Figure A-Location
2. Figure B-Pre-Construction (2004)
3. Figure C-Post-Construction (2014)
4. Photographs (2004, 2013)

SW 70 - Fort DeSoto Park Ecosystem Restoration
Figure A - Location (7,8/33S/16E)



FDOT Mitigation Plan

SW 70 - Fort DeSoto Park Ecosystem Restoration
Figure B - Pre-Construction (7,8/33S/16E)



FDOT Mitigation Plan

SW 70 - Fort DeSoto Park Ecosystem Restoration
Figure C - Post-Construction (7,8/33S/16E)



FDOT Mitigation Plan



Ecosystem Restoration – Completion of bridge opening and tidal recirculation project. (2004)



Ecosystem Restoration – Completion of bridge opening and tidal recirculation project. (2004)



Typical result of a secondary benefit - restored mangrove habitat. (2013)



Typical result of a secondary benefit - restored mangrove habitat. (2013)



Typical result of a secondary benefit - restored mangrove habitat with constructed bridge span in the background. (2013)

SW-45 GATEWAY RESTORATION MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Gateway Restoration	Project Number	SW-45/D008
Project Type	Wetland restoration and enhancement; upland enhancement		
Landowner	Pinellas County	Management Entity	Pinellas County/Southwest Florida Water Management District
County	Pinellas	Watershed	Tampa Bay Drainage
Water bodies	Tampa Bay	Water body Designations	SWIM water body
Project implementation status: (As of December 2018):	Perpetual Management		
Project utilization: (As of December 2018)	Permitted FDOT projects: 7		
	Planned, not yet permitted, FDOT projects: None		
S/T/R:	12/30S/16E		

IMPACT INFORMATION (As of December 2018):

Watershed	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Tampa Bay Drainage	2556301	SR 60 Courtney Campbell to Fish Creek	12.20	43000920.005	2001-05084
Tampa Bay Drainage	2557341	SR 676 Maritime Blvd. to SR 60	1.50	44013736.003	1995-02501
Tampa Bay Drainage	2569051	SR 679 (Bayway) Bunces Pass Bridge # 150	0.60	52-0148752-001	1991-00289
Upper Coastal Drainage	2570931	SR 60, Clearwater Harbor Bridge Replacement	1.50	44021540.001	2002-04966
Tampa Bay Drainage	2583982	I-275 Howard Franklin to Himes Ave.	1.50	43002958.006	2005-03876
Tampa Bay Drainage	2588701	I-275 Roosevelt to Big Island Gap	9.10	43001034.006	1994-02523
Tampa Bay Drainage	4062531	SR 686 (Roosevelt) at 49th Street	0.20	44007482.012	2002-06320
		Total Impact Acreage:	26.60		

MITIGATION INFORMATION (As of December 2017):

Habitat	Mitigation Type	Watershed	Acreage
Mangroves	Restoration	Tampa Bay Drainage	42.50
Salt Marsh/Saltern	Restoration	Tampa Bay Drainage	42.93
Flatwoods and Hardwood Hammock	Enhancement	Tampa Bay Drainage	10.25
Streams/Waterways Restoration	Restoration	Tampa Bay Drainage	11.33
		Total:	109.54

PROJECT DESCRIPTION

A. Overall project goals: To restore and enhance estuarine wetland and coastal upland habitats within the Gateway Tract owned and managed by Pinellas County Environmental Management.

B. Brief description of pre-construction habitat conditions: The project area includes the western half of the Gateway "North Tract" and the entire "South Tract" (Figures B and C). Most of the earthwork construction areas within both tracts included uplands that were heavily dominated by Melaleuca and Brazilian pepper. Most of the uplands within the north tract had fill material placed on historic estuarine wetland habitat. The designated mitigation area within the north central portion of the north tract includes mangrove habitat with an extensive "checkerboard" mosquito-ditch system. The spoil mounds adjacent to the ditches had extensive and dense coverage of Brazilian pepper.

C. Brief description of construction activities and current habitat conditions: Restoration commenced with herbicide eradication and mechanical removal of the exotic vegetation in early 2004 (Figure B). Proper erosion control methods were installed, followed by necessary earthwork activities in the upland areas to create lagoons and salt-marsh habitat. A few of the ditches and adjacent spoil mounds were regraded to create channels necessary to improve tidal connectivity to Tampa Bay, resulting in the restoration of streams and waterways.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): The restored and created salt-marsh and lagoon habitats and enhanced and restored mangrove habitat compensate with higher quality and quantity of appropriate habitat than was present in the impacted wetlands. Approximately 30% of the total wetland impact mitigated at the site was associated with the I-275 (Roosevelt to Big Island Gap segment) expansion adjacent to the mitigation area, essentially providing an on-site mitigation option. This I-275 construction was conducted concurrently with the mitigation construction in 2004 (Figure B). Additional roadway projects beyond those listed above are not proposed for mitigation within this Gateway project.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: The Tampa Bay Mitigation Bank (TBMB) is located within the Tampa Bay Drainage basin, but had not received permits during the period of mitigation selection.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: Gateway Restoration is a SWIM-sponsored project conducted on property owned by Pinellas County.

PROJECT IMPLEMENTATION

- | | |
|-----------------------------------|------------------------------------|
| • Planning and Design: | 2002 |
| • Construction: | Spring and Summer 2004 |
| • Monitoring: | 2007, 2008, 2014, 2015, 2016, 2017 |
| • Maintenance: | 2005-2009 |
| • USACE release letter submitted: | June 13, 2017 |
| • Perpetual Management: | Ongoing |

Entity responsible for construction: SWFWMD

Entity responsible for monitoring and maintenance: SWFWMD is responsible for FDOT site; however, monitoring will no longer be performed, and site will go into perpetual maintenance. The project achieved success criteria, and in 2010 was adopted into Pinellas County's normal perpetual land management and herbicide maintenance activities.

Entity responsible for perpetual management: Private contractors selected by SWFWMD for FDOT site.

Cost for 2018 monitoring: \$12,034.57

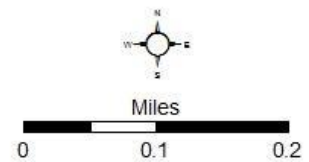
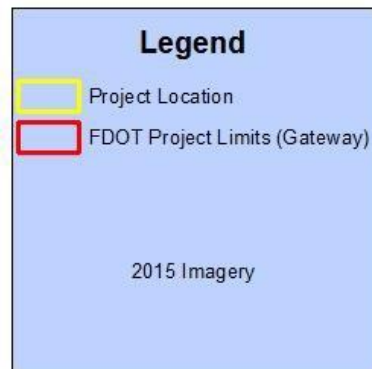
Cost for 2017-18 maintenance: \$58,240.00

Total Cost for FDOT Mitigation Including Estimated O&M: \$1,495,348.57

ATTACHMENTS

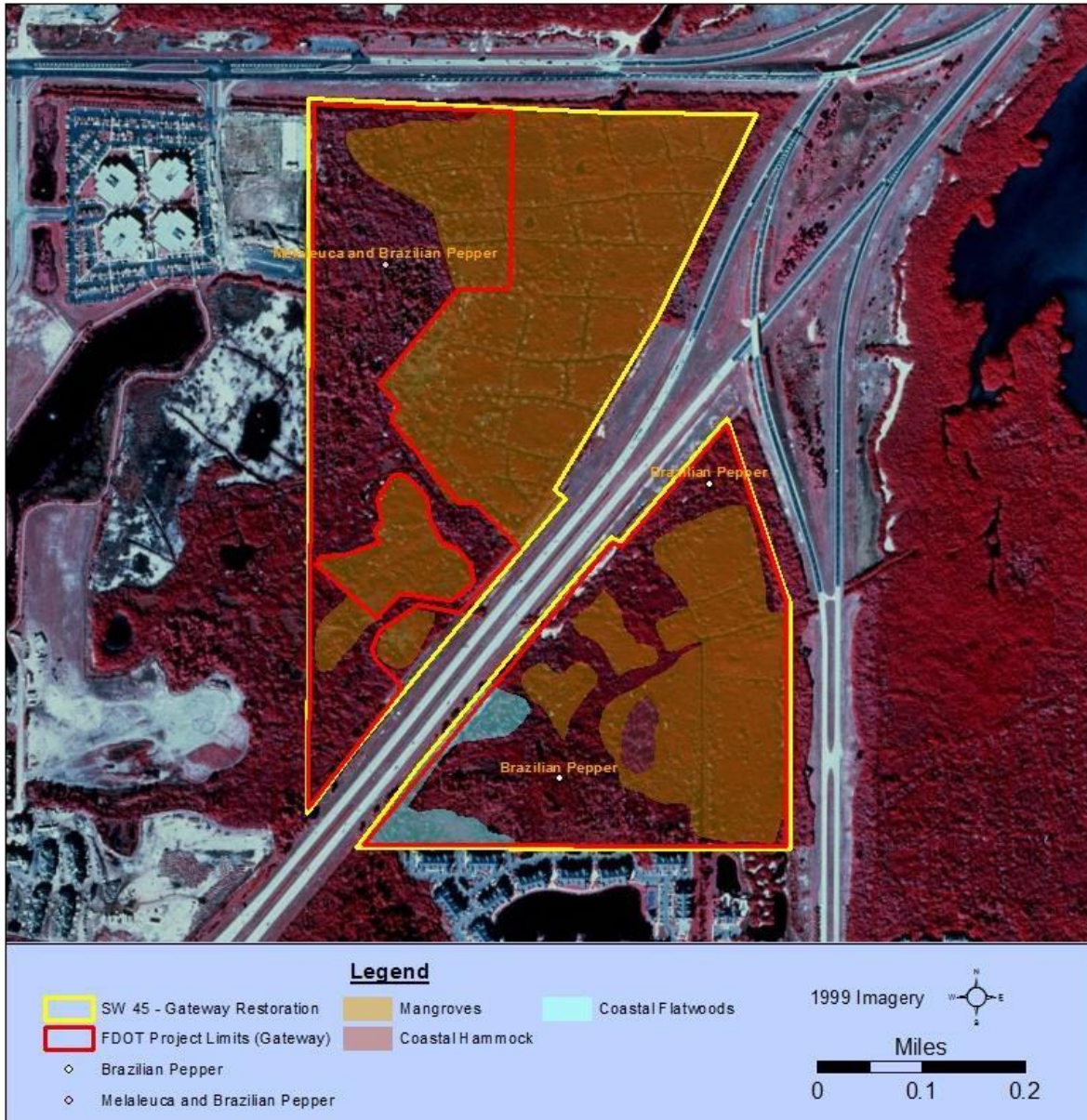
1. Figure A-Location
2. Figure B-Pre-construction (1999)
3. Figure C-Post-construction (2014)
4. Photographs (2005, 2016)

**SW 45 - Gateway Restoration
Figure A - Location (12/30S/16E)**



FDOT Mitigation Plan

SW 45 - Gateway Restoration
Figure B - Pre-Construction (12/30S/16E)



FDOT Mitigation Plan

SW 45 - Gateway Restoration
Figure C - Post-Construction (12/30S/16E)



FDOT Mitigation Plan



Gateway was the first restoration project in the region to utilize high pressure water hoses to “hydroblast” the mosquito ditch spoil mound material held together by Brazilian pepper roots. Displacing the material caused Brazilian pepper mortality since the roots are exposed to salt water (2005)



View within the upland forested enhancement area in southern tract. (2016)



View within the mangrove swamp enhancement area in the southern tract. (2016)



View within the saltwater marsh restoration area in northern tract. (2016)



View along transect 10 within views of the saltwater marsh restoration and mangrove swamp enhancement areas in the northern tract. (2016)

SW-92 HÁLPATA TASTANAKI PRESERVE MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Hálpata Tastanaki Preserve	Project Number	SW-92/D058
Project Type	Wetland Enhancement		
Landowner	Southwest Florida Water Management District	Management Entity	Southwest Florida Water Management District
County	Marion	Watershed	Withlacoochee River
Water bodies	Withlacoochee River	Water body Designations	Outstanding Florida Water
Project implementation status: (As of December 2018):	Perpetual Management		
Project utilization: (As of December 2018)	Permitted FDOT projects: None		
	Planned, not yet permitted, FDOT projects: None		
S/T/R:	24/17S/19E;19/17S/20E		

IMPACT INFORMATION (As of December 2018):

Watershed	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
		Total:	0*		

*No future road projects are currently assigned to this site.

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Forested and Non-forested wetlands	Enhancement	Withlacoochee River	103.36
		Total:	103.36

PROJECT DESCRIPTION

A. Overall project goals: The Hálpata Tastanaki Preserve (Hálpata) is an 8,090-acre tract located adjacent to the Withlacoochee River, along the boundary between Marion and Citrus Counties. The tract is owned and managed by the SWFWMD and is adjacent to and within the vicinity of thousands of acres of other public lands comprised of native habitat. Hálpata has a variety of upland and wetland ecosystems, including mixed forested wetland floodplain habitat extending from the banks of the Withlacoochee River. To provide vehicular access, an elevated berm was historically constructed through the floodplain wetland. The berm dimensions and culverts altered the historic surface water drainage patterns and contributing flow to the adjacent wetland habitat upstream and downstream of the berm. An access road is still necessary for the public and District land management staff, and the berm is primarily used by wildlife as a corridor connection. However, portions of the berm and most of the culverts could be removed and replaced with low water crossings, which would maintain access while restoring hydrology.

B. Brief description of pre-construction habitat conditions: The delineated project area within Halpata is dominated by mixed forested wetland habitat. Portions of the Withlacoochee River have

substantial surface water fluctuation ranging several feet between base flow and flood elevations, which directly affects adjacent upland and wetland habitat characteristics and functions. There are variable grade elevations, resulting in a variety of hydroperiods and associated vegetative species in the wetland habitat. The lower elevations have more obligate species, with an overstory dominated by bald cypress and scattered tupelo, red maple and pop ash. The subcanopy includes the same tree species along with scattered buttonbush; however, the dense canopy shade and high flood elevations (ranging 4-6 ft. above grade) associated with this portion of the wetland have substantially limited the coverage of understory and ground vegetation.

C. Brief description of construction activities and current habitat conditions: Prior to nominating Halpata to the FDOT mitigation program in 2007, an extensive hydrologic analysis was necessary to determine if a restoration project could be constructed to benefit the wetland floodplain and prevent adverse offsite drainage alterations. This analysis was conducted in 2006-2007 to evaluate the degree of wetland hydrologic impacts caused by the berm and culverts and alternatives to restore flow conditions to benefit the wetland habitat while still maintaining a modified access road. The results of the modeling effort found that wetlands could hydrologically benefit from removing at least portions of the berm and most culverts. The final design includes removing 2,600 cubic yards of berm material at three separate locations to match adjacent natural grade for a total distance of 1,000 feet. After berm removal, an additional 4-6 inches of material were excavated below grade, followed by installation of Geoweb fabric and limerock base material to provide a stable access road while allowing water to sheet flow over the road. This restored hydrologic connectivity to slightly higher wetland elevations during normal seasonal high-water levels as well as during flood events. This includes an isolated cypress dome within the northwest portion of the project area that did not receive historic flood waters due to the berm.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): This mitigation project was constructed in advance of anticipated permit and construction dates for the above listed FDOT road improvement projects so that mitigation would be available when it was needed.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: During the 2007 nomination and selection of mitigation options for wetland impacts, there were no existing or proposed private mitigation banks in the Withlacoochee River watershed.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: The Withlacoochee River is classified as an Outstanding Florida Waters and is not a SWIM-designated water body. The only SWIM-sponsored project in the Withlacoochee River watershed involves sediment removal from Lake Panasoffkee, which previously received mitigation funding to compensate for FDOT wetland impacts associated with expanding the I-75 bridge over Lake Panasoffkee.

PROJECT IMPLEMENTATION

- | | |
|-----------------------------------|---------------|
| • Design and Permitting: | 2006–2008 |
| • Construction: | 2009 |
| • Monitoring: | 2014, 2016 |
| • Maintenance: | 2010–2013 |
| • USACE release letter submitted: | June 27, 2017 |
| • Perpetual Management: | Ongoing |

Entity responsible for construction: SWFWMD

Entity responsible for monitoring and maintenance: SWFWMD is responsible for FDOT site; however, monitoring will no longer be performed, and site will go into perpetual maintenance.

Entity responsible for perpetual management: SWFWMD

Cost for 2018 monitoring: \$0

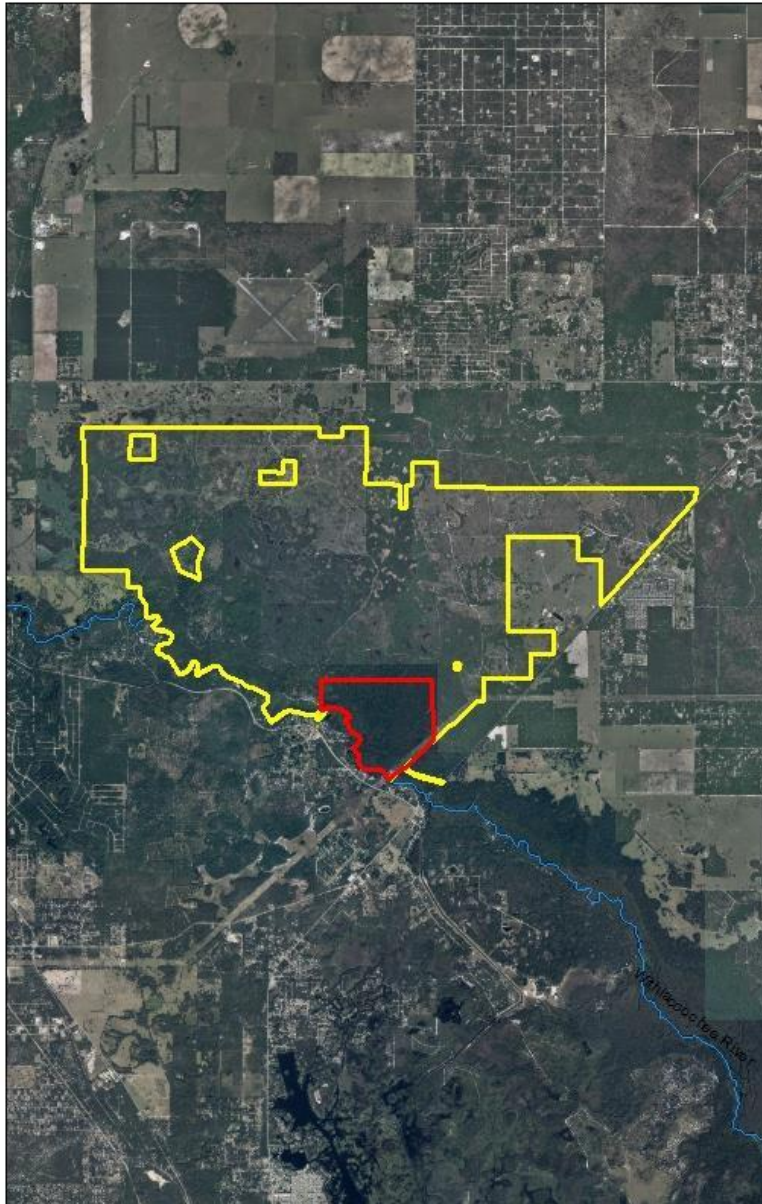
Cost for 2018 maintenance: \$0

Total Cost for FDOT Mitigation Including O&M: \$401,451.86



ATTACHMENTS

1. Figure A-Location
2. Figure B-Pre-Construction (2008)
3. Figure C-Post-Construction (2014)
4. Photographs (2007, 2014)

SW 92 - Halpata Tastanaki Preserve
Figure A - Location (24/17S/19E;19/17S/20E)



Legend

-  Project Location
-  FDOT Project Limits

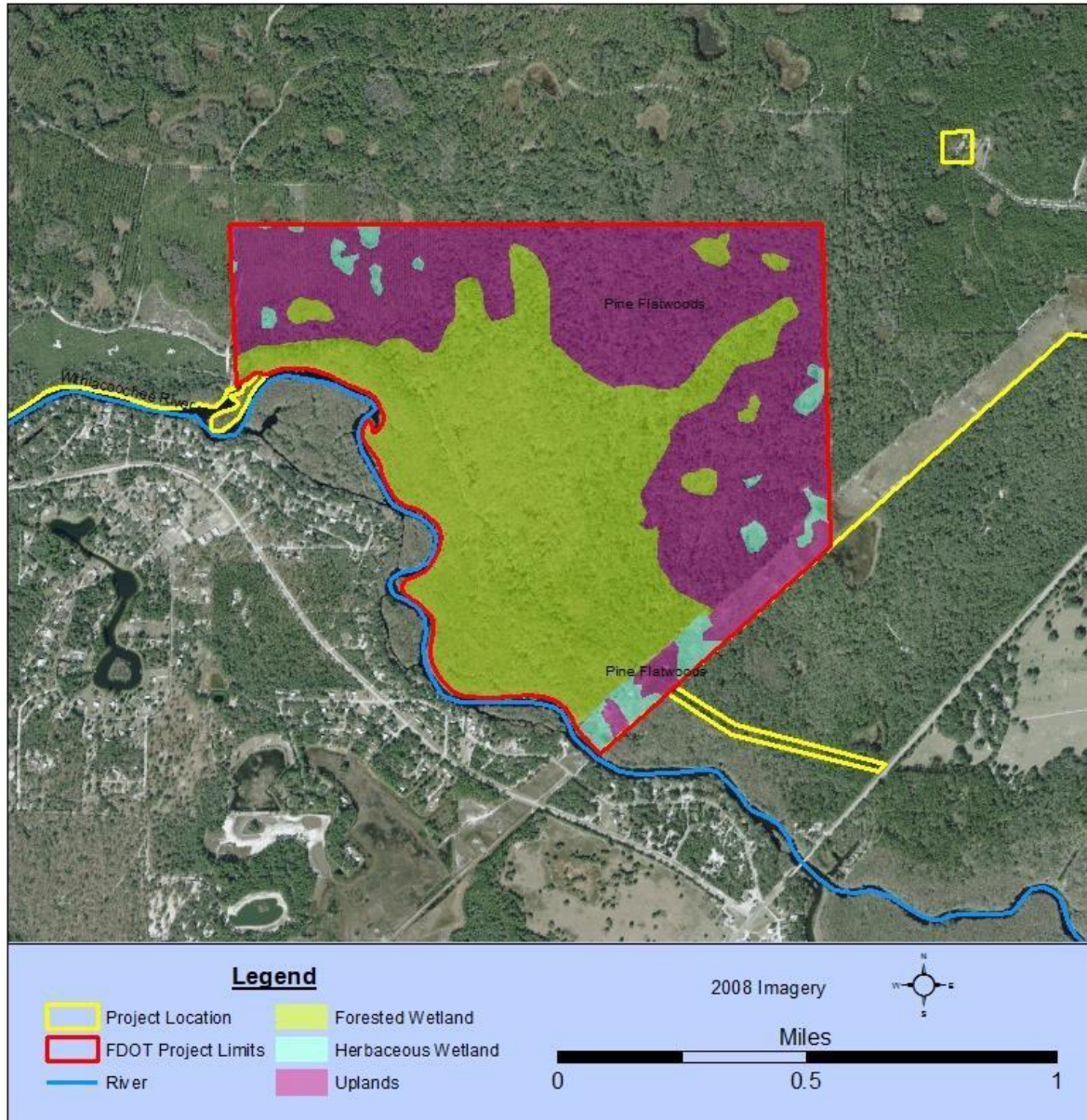
2014 Imagery



Miles
0 1 2

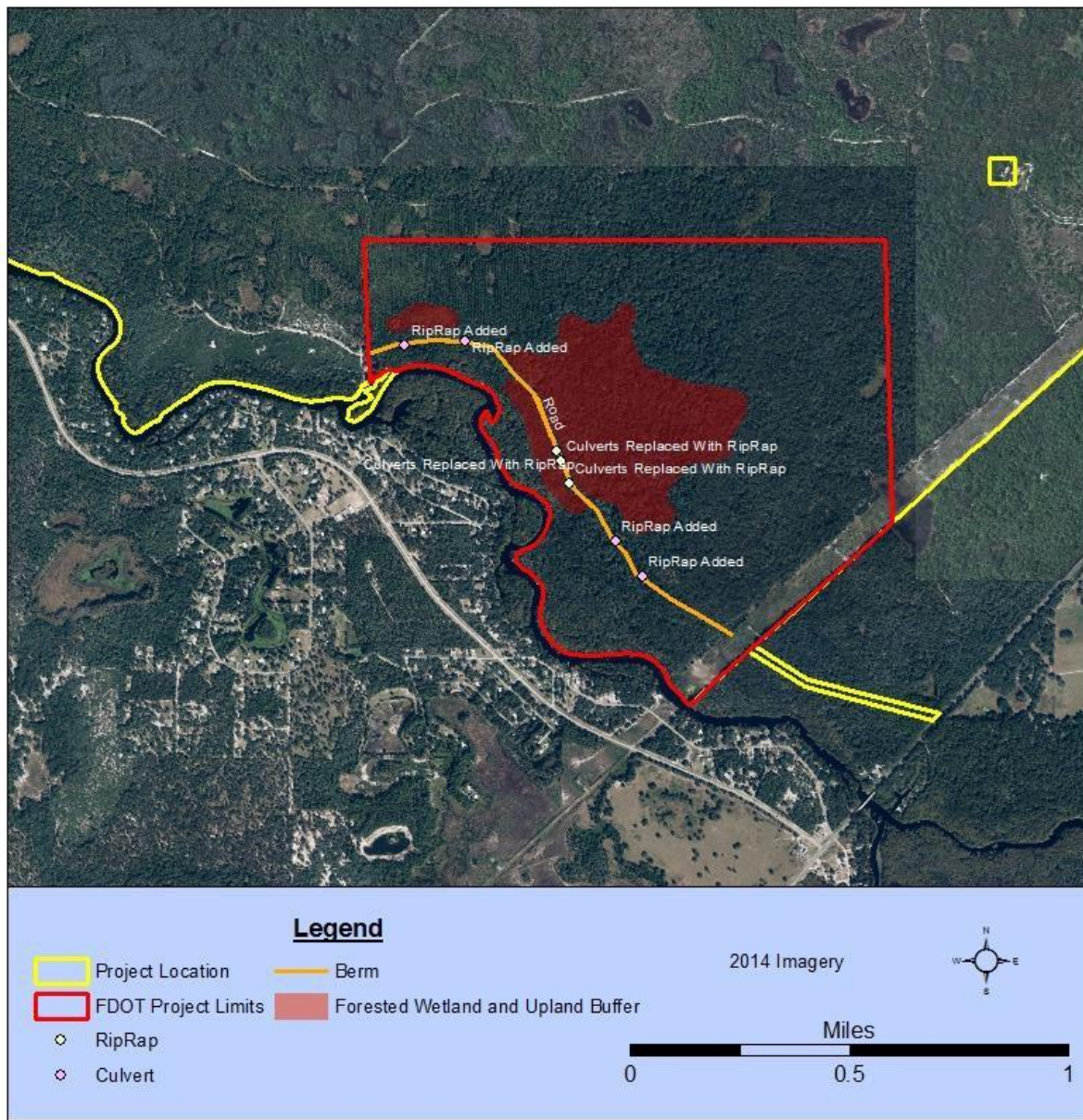
FDOT Mitigation Plan

SW 92 - Halpata Tasthanaki Preserve
Figure B - Pre-Construction (24/17S/19E;19/17S/20E)

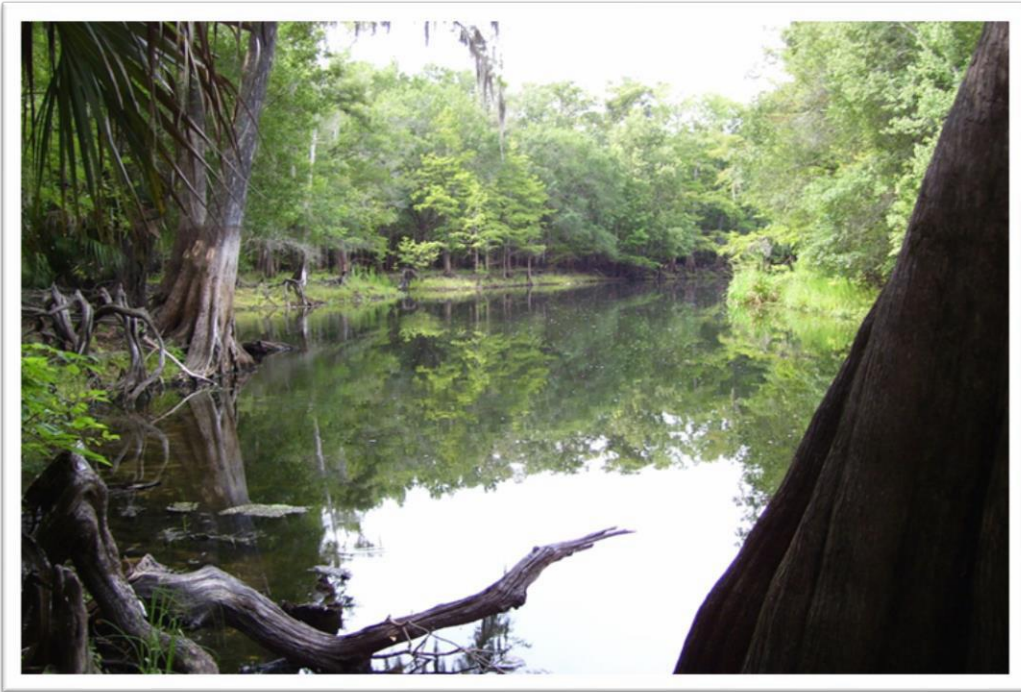


FDOT Mitigation Plan

SW 92 - Halpata Tastanaki Preserve
Figure C - Post-Construction (24/17S/19E;19/17S/20E)



FDOT Mitigation Plan



The Withlacoochee River meanders along the southern boundary of the Hálpata Tastanaki Preserve. (2007)



The obligate areas of the wetland floodplain have dominant coverage provided by bald cypress and hardwood species such as tupelo, pop ash, water hickory and red maple. The dark stains of the lower 6 ft. on the trees represent a floodwater elevation from the river. (2007)

SW-59 HAMPTON TRACT MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Hampton Tract	Project Number	SW-59/D019
Project Type	Wetland Enhancement		
Landowner	Southwest Florida Water Management District	Management Entity	Southwest Florida Water Management District
County	Polk	Watershed	Withlacoochee River
Water bodies	Gator Creek, Colt Creek, Sapling Drain, Bee Tree Drain	Water body Designations	None
Project implementation status: (As of December 2018):	Perpetual Management		
Project utilization: (As of December 2018)	Permitted FDOT projects: 2		
	Planned, not yet permitted, FDOT projects: None		
S/T/R:	2,3,10,11/26S/23E; 22,23,25,26,27,34,35,36/25S/23E		

IMPACT INFORMATION (As of December 2018):

Watershed	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Withlacoochee River	2012041	I-4 East of CR 557 to Osceola County (Sec. 6-7,9) ¹	3.60	43011896.032	1994-03591
Withlacoochee River	2012092	I-4 East of US 98 to East of CR 557 (Sec. 3-5) ²	18.57	43011896.026	2002-04891
		Total Impact Acreage:	22.17		

¹ Segment 7 of this project is in the Kissimmee Ridge Basin and the wetland impacts are mitigated at SW-49 Reedy Creek Mitigation Bank. Wetland impacts in the Ocklawaha River Basin are offset at SW-76 Lake Lowery.

² A portion of this project is in the Peace River Basin and wetland impacts are being mitigated at SW-47 Tenoroc-Bridgewater Tract.

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Forested wetlands	Enhancement	Withlacoochee River	907
Non-forested wetlands	Enhancement	Withlacoochee River	15
		Total:	922

PROJECT DESCRIPTION

A. Overall project goals: The Hampton Tract was acquired by the SWFWMD in 1999. Located adjacent to over 260,000 acres of public lands, the Hampton Tract was an important acquisition for the protection, restoration and enhancement of native habitat within the Green Swamp. The tract has a 22- mile ditch network that has extensively dewatered and drained many of the wetland habitats on the property. The goal of this project is to restore historic drainage patterns and to enhance the function of

1,606 acres of impacted wetlands, with secondary benefits to other wetland and upland habitats within the property.

B. Brief description of pre-construction habitat conditions: The site is located within the Green Swamp (Designated Area of Critical State Concern), over 60% of the adjacent property (north and west) is also under public ownership by the SWFWMD, referred to as the “Green Swamp Wilderness Preserve” (Figure A). The tract’s habitat and land use are dominated by approximately 2,400 wetland acres (predominantly mixed forested and cypress systems), 4,200 acres of pine flatwood and upland hardwood hammocks, and 1,000 acres of previously improved pasture that have been gradually converted to pine silviculture operations since the SWFWMD’s acquisition of the property in 1999.

The site’s historic drainage pattern meandered from east to west, receiving contributing flows from property east of the Hampton Tract. During the late 1940’s and early 1950’s, the construction of large drainage ditches (Colt Creek Drain, Sapling Drain, Bee Tree Drain) and smaller connecting ditches resulted in a more direct drainage and discharge of surface and ground water to connect with the ditched Gator Creek, located along the project’s western boundary. The Gator Creek ditch is a major drainage feature within the western Green Swamp, crossing north through the Hampton Tract and other public lands (Green Swamp-East, Colt Creek State Park, Green Swamp-West), then out falling into the Withlacoochee River. The northern perimeter of the Hampton Tract is adjacent to the forested wetland floodplain associated with the Withlacoochee River. These ditched drainage systems have directly impacted the hydroperiod and vegetative composition of a large percentage of the tract’s wetlands, particularly resulting in the transition of obligate to more facultative species within the wetlands, and allowing undesirable upland and nuisance species to encroach within the wetlands. Blackberry and grapevine have become problematic nuisance species. Figure B depicts the major ditches, proposed ditch block locations and primary wetland enhancement areas. Additional wetlands within the property will receive secondary enhancement; however, those systems have not been proposed for mitigation credits.

C. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): The Hampton Tract was selected to provide mitigation for all the anticipated wetland impacts associated with the ultimate build-out of I-4 through the Withlacoochee basin portion in Polk County, including the high-speed rail facility when it was proposed in 2001 and subsequently removed from FDOT’s work program in 2011. Most of the I-4 wetland impacts include forested wetland habitat, and the remnant non-forested wetlands within the corridor were historically forested wetlands that are maintained by FDOT as non-forested systems due to required vehicular safety zones. The Hampton Tract will receive primary hydrologic restoration for 907 acres of forested wetlands and 15 acres of non-forested wetlands (1,260.78-acres). Wetlands without direct hydrologic enhancement are not accounted for in mitigation credits. The substantial wetland enhancement within a regionally significant tract will adequately and appropriately mitigate for wetland impacts associated with I-4.

D. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: During the period of mitigation selection, there were no established or proposed mitigation banks within the Withlacoochee River Basin.

E. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: During the period of mitigation selection, the only SWIM-sponsored project within the Withlacoochee River Basin included restoration activities within Lake Panasoffkee (SW 57), which was selected for

mitigation of wetland impacts associated with the I-75 bridge expansion within the Lake Panasoffkee floodplain.

PROJECT IMPLEMENTATION

- Planning, Modeling and Design: 2006-2010
- Monitor well installation: January 2009
- Construction: 2011-2012
- Monitoring: 2009, 2010, 2011, 2014, 2015, 2016, 2017
- Maintenance: 2013-2017
- Perpetual Management: Ongoing

Entity responsible for construction: SWFWMD

Entity responsible for monitoring and maintenance: SWFWMD

Entity responsible for perpetual management: SWFWMD

Cost for 2018 monitoring: \$60,786.03

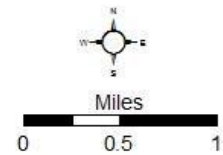
Cost for 2018 maintenance: \$151,236.25

Total Cost for FDOT Mitigation Including O&M: \$1,146,425.25

ATTACHMENTS

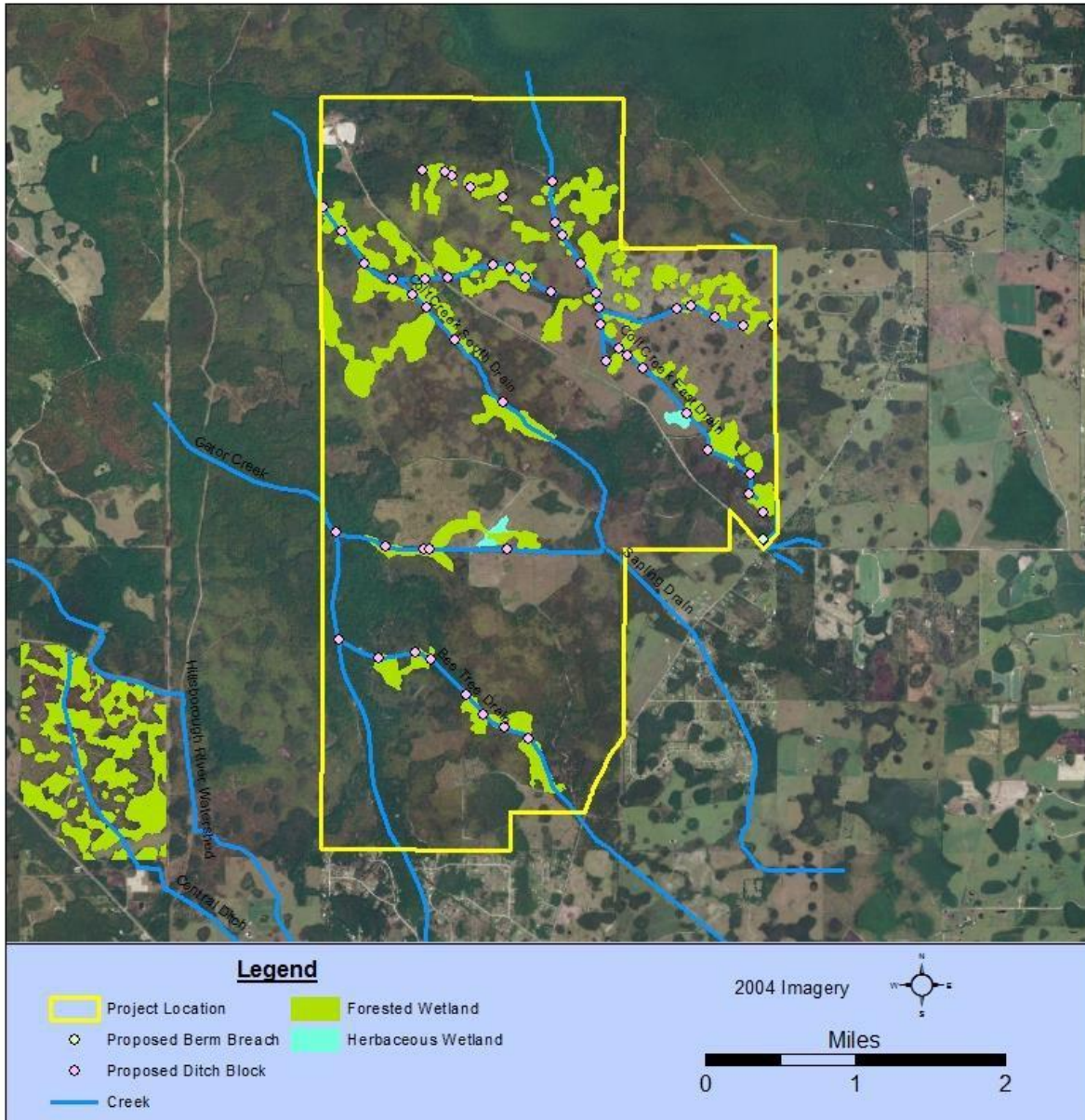
1. Figure A-Location
2. Figure B-Pre-Construction (2004)
3. Figure C-Post-Construction (2014)
4. Photographs (2012, 2014)

SW 59 - Hampton Tract
Figure A - Location
(2,3,10,11/26S/23E; 22,23,25,26,27,34,35,36/25S/23E)



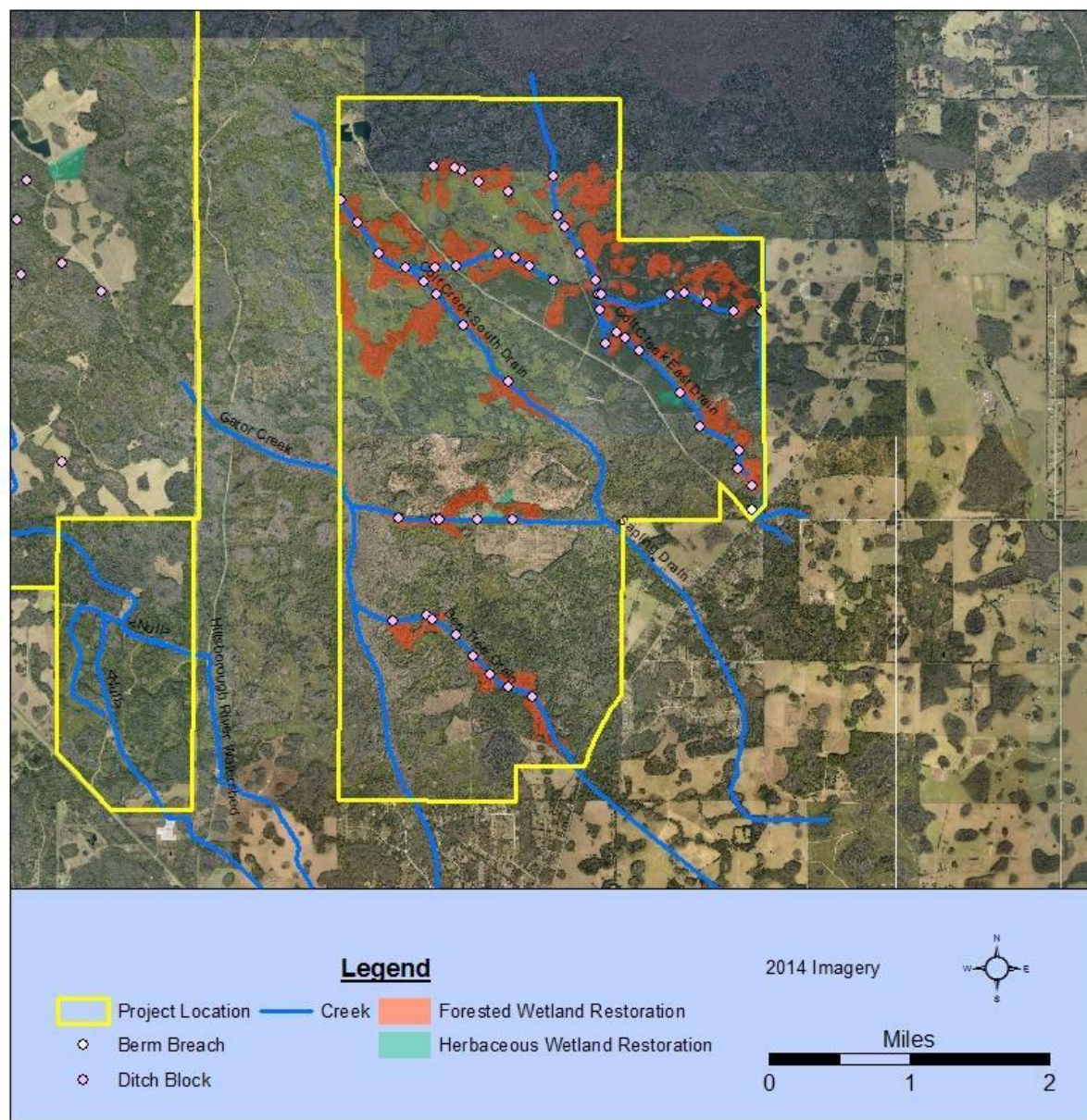
FDOT Mitigation Plan

SW 59 - Hampton Tract
Figure B - Pre-Construction
(2,3,10,11/26S/23E; 22,23,25,26,27,34,35,36/25S/23E)



FDOT Mitigation Plan

SW 59 - Hampton Tract
 Figure C - Post-Construction (2,3,10,11/26S/23E; 22,23,25,26,27,34,35,36/25S/23E)



FDOT Mitigation Plan



Berm Breech 55 Restoring Flows to Colt Creek



Wetland Enhancement Bee Tree Drain BTD-6: View North (2017)



Forested Wetland Enhancement Colt Creek CC-14



Forested Wetland Enhancement Colt Creek CC-16 (2017)



Forested Wetland Enhancement Sapling Drain SD-3 (2017)

SW-80 HIDDEN HARBOUR MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Hidden Harbor	Project Number	SW-80/D036
Project Type	Wetland Enhancement		
Landowner	Manatee County	Management Entity	Manatee County
County	Manatee	Watershed	Manatee River
Water bodies	Manatee River, Gamble Creek	Water body Designations	SWIM Water Body
Project implementation status: (As of December 2018):	Monitoring and Perpetual Management		
Project utilization: (As of December 2018)	Permitted FDOT projects: 3		
	Planned, not yet permitted, FDOT projects: None		
S/T/R:	8,17/34S/19E		

IMPACT INFORMATION (As of December 2018):

Watershed	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Manatee River	1960224	SR 64 (Seg. 3) Lakewood Ranch to Lorraine Rd	4.06	43025776.000	2004-00734
Manatee River	4161201	SR 64 Carlton Arms Blvd to I-75	0.78	44035561.000	2010-01414
Manatee River	4226031	US 301 (Seg. B) Erie Road to CR 675	2.73	43012295.005	2008-01430
		Total:	7.57		

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Freshwater marsh	Creation	Manatee River	1
Forested wetland hammock	Enhancement	Manatee River	45.81
Upland Buffer	Enhancement	Manatee River	44.25
Saltwater Marsh	Enhancement	Manatee River	3.26
		Total:	94.32

PROJECT DESCRIPTION

A. Overall project goals: The Hidden Harbor tract was acquired by Manatee County in late 2004 and portions of the property were adopted to the FDOT mitigation program in 2005. There are unique and parallel alluvial deposits that formed along the convergence of Gamble Creek and the Manatee River in the southeastern portion of the property. The habitat on these deposits formed into forested wetland hammocks alternating with brackish marsh and inter-tidal creeks. These hammocks need habitat enhancement by eradication of Brazilian pepper. The wetland enhancement area will be buffered by upland habitat restoration through eradication of cogon grass and potentially some marsh creation to

provide more habitat diversity and buffer from proposed facilities currently planned for the central portion of the tract. The goal of conducting these habitat improvements will provide wetland and riverine buffers that will benefit water quality functions, floodwater attenuation and wildlife habitat corridors adjacent to the Manatee River and Gamble Creek. In addition, a 1-acre freshwater marsh will be created in the northwest portion of the site.

B. Brief description of pre-construction habitat conditions: The Hidden Harbor parcel covers 229 acres with most of the tract previously used for row crop production. Prior to County acquisition in 2004, the property was proposed and designed for a residential community referred to as Hidden Harbor. Due to the substantial residential development under construction and planned for the vicinity between Ellenton and Parrish, the County acquired this property to adequately plan for necessary school, recreational, and regional park facilities. In collaboration with the SWFWMD, Manatee County agreed to allow habitat improvement on the property to provide appropriate mitigation credits for wetland impacts associated with proposed roadway facilities that will directly benefit the vicinity (e.g. SR 64, US Hwy. 301).

C. Brief description of construction activities and current habitat conditions: The habitat improvements for mitigation credit include extensive herbicide eradication of Brazilian pepper within the hammocks (FWE 1-3). There is adequate coverage of adjacent desirable species that will naturally recruit to displace and minimize the regeneration of the Brazilian pepper. Quarterly herbicide treatments will be conducted after the initial eradication to treat any regrowth of Brazilian pepper.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): Anticipated wetland impacts associated with three nearby roadway projects are proposed for mitigation at Hidden Harbour.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: At the time of mitigation selection for two of the FDOT road improvement projects, no mitigation banks were proposed in the Manatee River basin. Subsequently, the Braden River Mitigation Bank received ERP approval but has not received ACOE approval as of the date this FDOT Mitigation plan.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: This project is not specifically sponsored through the SWIM program. However, the Manatee River is a designated SWIM water body and the proposed habitat improvements will provide ecological enhancement for the river and Tampa Bay.

PROJECT IMPLEMENTATION

- | | |
|--------------------------------------|-----------|
| • Initial herbicide treatment: | 2012-2013 |
| • Contract Planning and Development: | 2014-2015 |
| • Construction: | 2012-2017 |
| • Monitoring: | 2013-2017 |
| • Perpetual Management: | Ongoing |

Entity responsible for construction: Manatee County and/or contractors working for the County

Entity responsible for monitoring and maintenance: Maintenance activities will be conducted by Manatee County; monitoring activities will be conducted by private contractor selected by SWFWMD for FDOT site.

Entity responsible for perpetual management: Manatee County and/or private contractors selected by SWFWMD for FDOT site.

Cost for 2018 monitoring: \$17,586.00

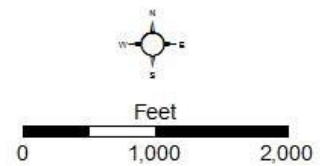
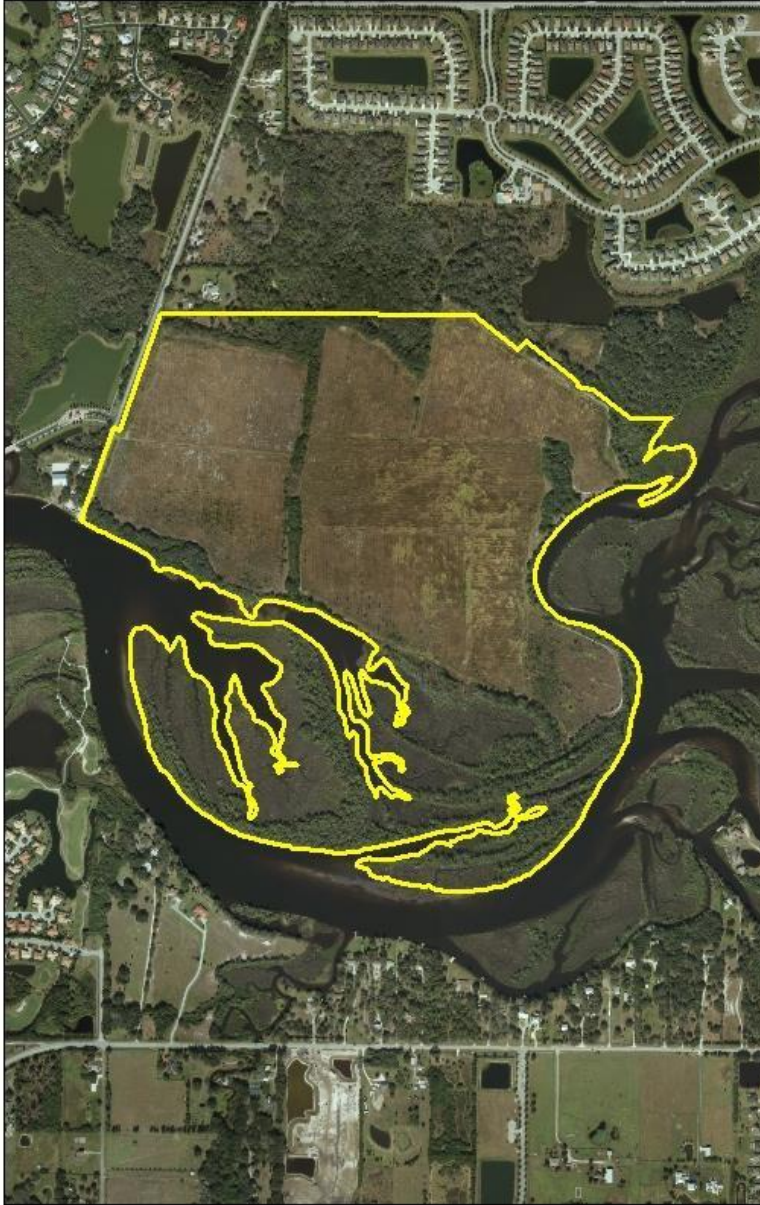
Cost for 2018 maintenance: \$16,376

Total Cost for FDOT Mitigation Including O&M: \$451,019.42

ATTACHMENTS

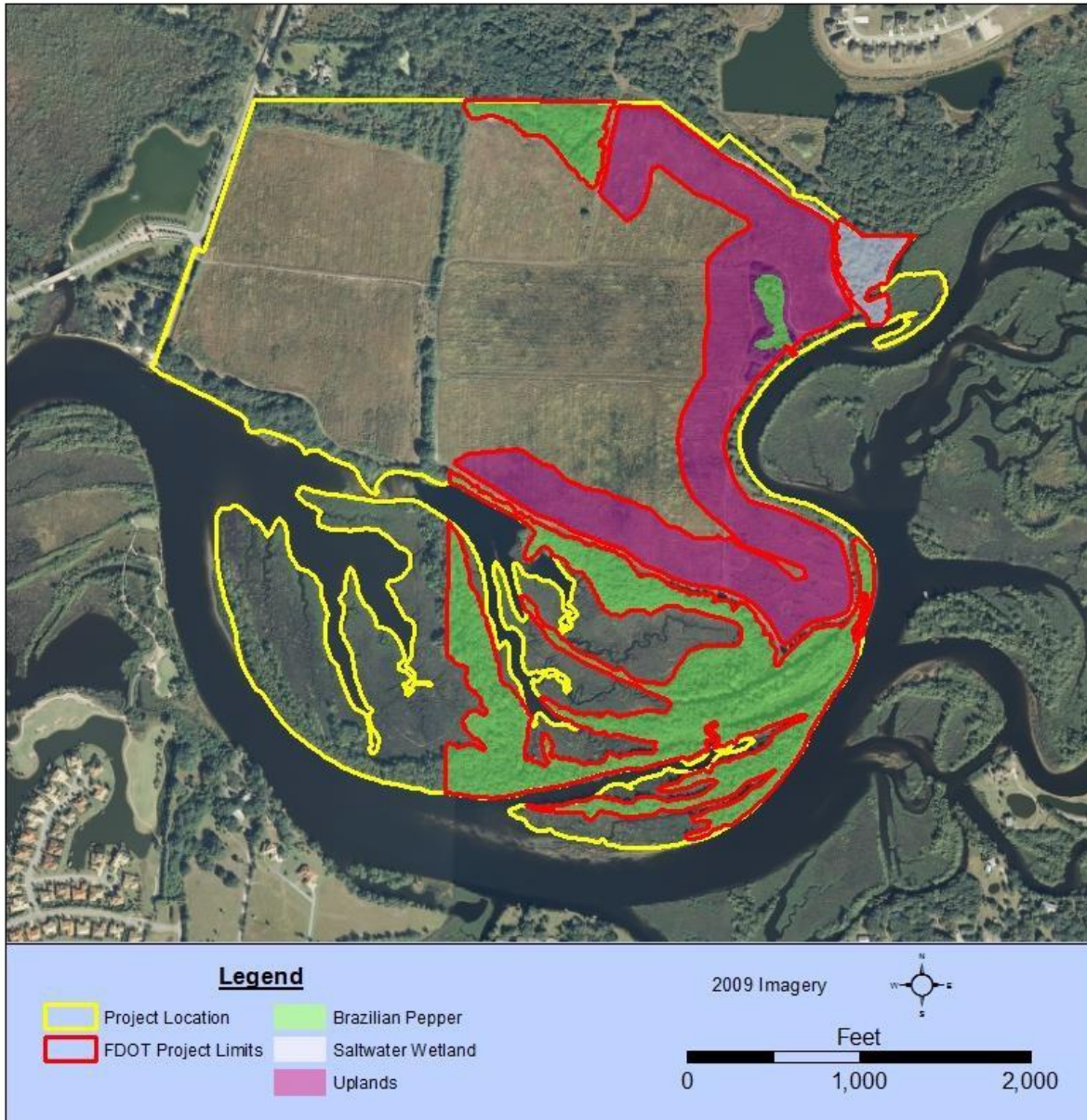
1. Figure A-Location
2. Figure B-Pre-Construction (2009)
3. Figure C-Post-Construction (2014)
4. Photographs (2005, 2014)

**SW 80 - Hidden Harbour
Figure A - Location (8,17/34S/19E)**



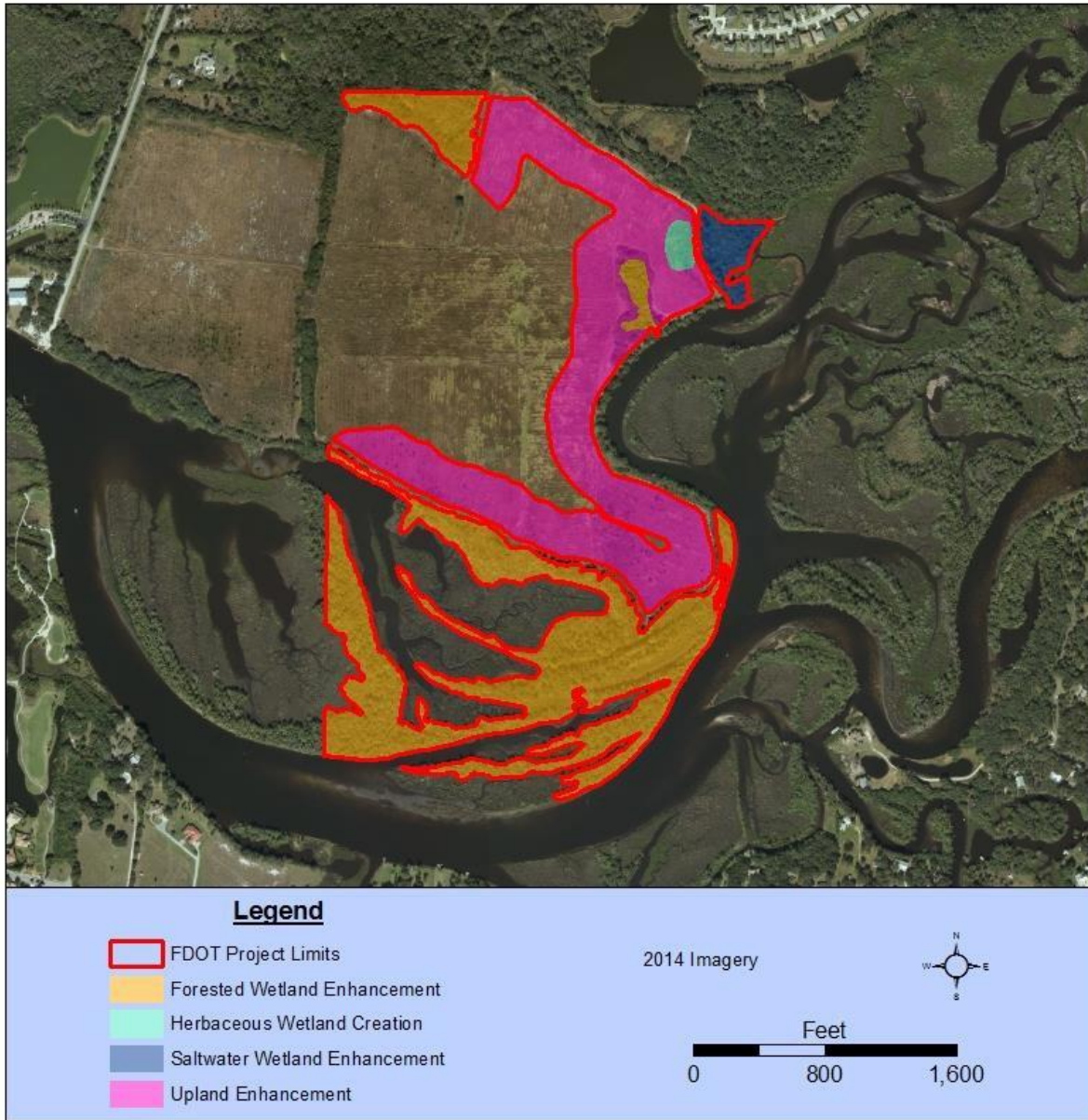
FDOT Mitigation Plan

SW 80 - Hidden Harbour
Figure B - Pre-Construction (8,17/34S/19E)



FDOT Mitigation Plan

**SW 80A - FDOT Project Limits (Hidden Harbour)
Figure C - Post-Construction (8,17/34S/19E)**



FDOT Mitigation Plan



Forested Wetland Enhancement Area 1-Photo Station S1 (2017)



Forested Wetland Enhancement Area 3-Photo Station N1 (2017)



Mesic Hammock ME1 -1 E2 (2017)



Created 1-Acre Emergent Wetland NW1 – 2-N2 (2017)

SW-34 LAKE THONOTOSASSA SHORELINE RESTORATION MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Lake Thonotosassa Shoreline Restoration	Project Number	SW-34/D004
Project Type	Wetland enhancement and restoration		
Landowner	Southwest Florida Water Management District	Management Entity	Southwest Florida Water Management District
County	Hillsborough	Watershed	Hillsborough River
Water bodies	Lake Thonotosassa, Baker Creek	Water body Designations	SWIM water body
Project implementation status: (As of December 2017):	Perpetual Management		
Project utilization: (As of December 2017)	Permitted FDOT projects: 2		
	Planned, not yet permitted, FDOT projects: None		
S/T/R:	11,12,13,14/28S/20E		

IMPACT INFORMATION (As of December 2018):

Watershed	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Hillsborough River	2563431	SR 54 – US 41 to Cypress Creek	16.82 ¹	43019567.000	1995-01451
Hillsborough River	2563151	US 41 Bell Lake to Tower Rd	1.63	44018030.002	*
		Total Impact Acreage:	18.45		

¹14.11 acres in ERP

*ACOE permit mitigation was at Hillsborough River Corridor (SW63) and moved to Conner Preserve (SW 77)

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Marsh and Cypress	Restoration and Enhancement	Hillsborough River	98
		Total:	98

PROJECT DESCRIPTION

A. Overall project goals: The primary goal was to improve fish and wildlife habitat and water quality through enhancement and restoration of 98 wetland acres along the southeastern shoreline of Lake Thonotosassa.

B. Brief description of pre-construction habitat conditions: The southeast shoreline of Lake Thonotosassa included a large wetland that was historically filled with lake bottom sediment and that was hydrologically separated from the lake by a constructed berm and seawall. Historic contributing basin flow from the south through the wetland was diverted straight into the lake by the construction of the Baker Creek Canal. The 78-acre filled area was converted to a Bahia pasture with collector ditches that drained surface water west to a lower elevation retention area adjacent to the berm. The retention

area generated a marginal, low quality, soft rush marsh. When the marsh was periodically inundated, water was pumped over the berm to maintain relatively dry conditions to improve pasture conditions. A separated 20-acre portion of the project included a wetland-dredged pond referred to as "Otter Lake" and a collection ditch that had minimal hydrologic connectivity into the lake.

C. Brief description of construction activities and current habitat conditions: The restored and enhanced marsh and planted cypress compensate for the acreage and function of the marsh, open water, and cypress wetlands impacted by the expansion of the SR 54 segment. No additional roadway wetland impacts are proposed for mitigation at the site. Success criteria included a minimum 85% coverage of desirable species in the eastern half of the restored wetland and less than 10% nuisance/exotic species. Supplemental planting occurred in the fall of 2003 and again in late 2004 to achieve additional coverage. The western portion of the marsh could provide more open water to attract associated wildlife species.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): The created marsh and planted cypress replace the acreage and function of the marsh, open water and cypress wetlands impacted along SR 54. This mitigation project is a part of a larger restoration project which gives this project a greater chance of success and of attracting the desired fish and wildlife benefits.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: Mitigation bank options were not available for consideration at the time of permitting.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: This project is identified in the 2003 SWIM Plan for Lake Thonotosassa.

PROJECT IMPLEMENTATION

- | | |
|--------------------------------------|-------------------------|
| • Planning, Design and Construction: | 1998-1999 |
| • Supplemental planting completed: | Fall 2003 and Fall 2004 |
| • Monitoring: | 2014, 2015, 2016, 2017 |
| • Maintenance: | 2004-2017 |
| • USACE release letter submitted: | July 11, 2017 |
| • Perpetual Management: | Ongoing |

Entity responsible for construction: SWFWMD

Entity responsible for monitoring and maintenance: SWFWMD is responsible for FDOT site; however, qualitative monitoring will no longer be performed, and site will go into perpetual maintenance.

Entity Responsible for perpetual maintenance: SWFWMD

Cost for 2018 monitoring: \$9,668.61

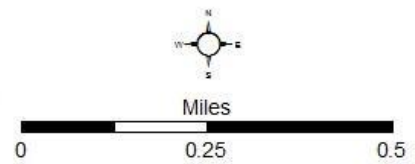
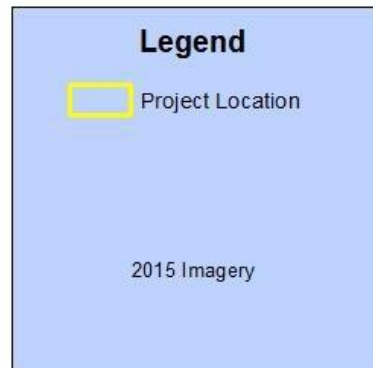
Cost for 2018 maintenance: \$28,661.00

Total Cost for FDOT Mitigation Including O&M: \$614,273.19

ATTACHMENTS

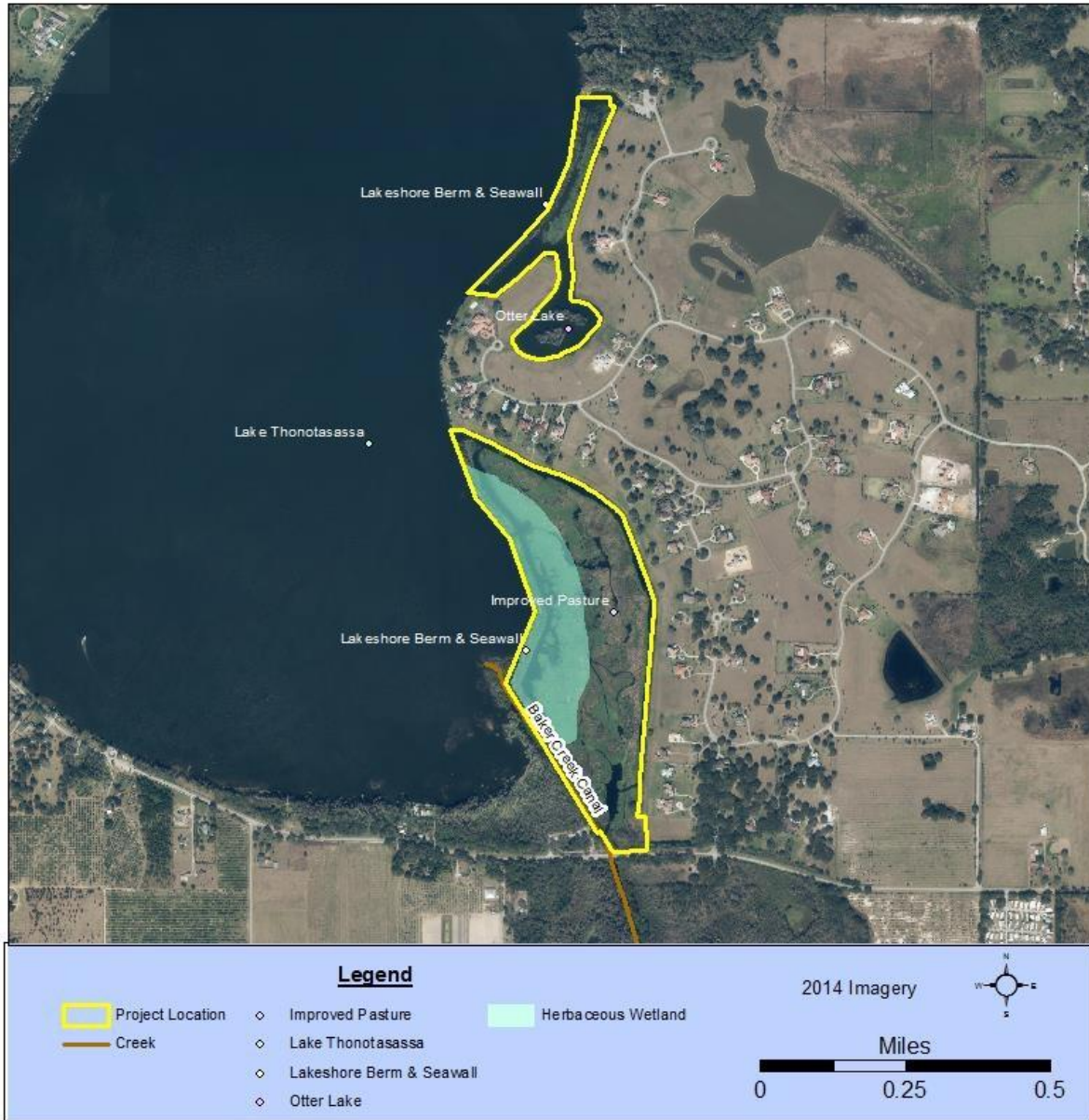
1. Figure A-Location
2. Figure B-Pre-construction (2014)
3. Figure C-Post-construction (2014)
4. Photographs (2016)

SW 34 - Lake Thonotosassa Shoreline Restoration
Figure A - Location (11,12,13,14/28S/20E)



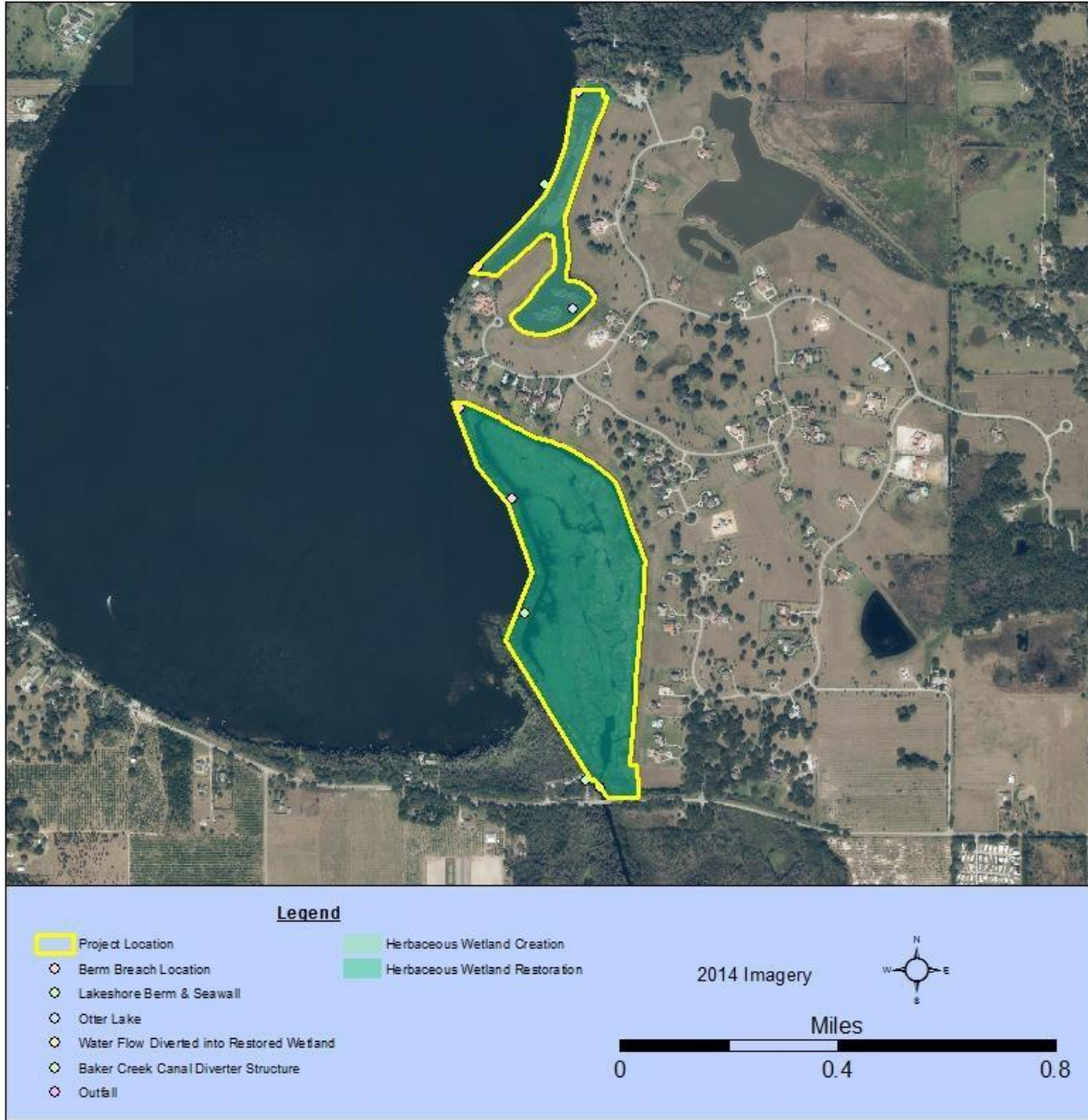
FDOT Mitigation Plan

**SW 34 - Lake Thonotosassa Shoreline Restoration
Figure B - Pre-Construction (11,12,13,14/28S/20E)**



FDOT Mitigation Plan

**SW 34 - Lake Thonotosassa Shoreline Restoration
Figure C - Post-Construction (11,12,13,14/28S/20E)**



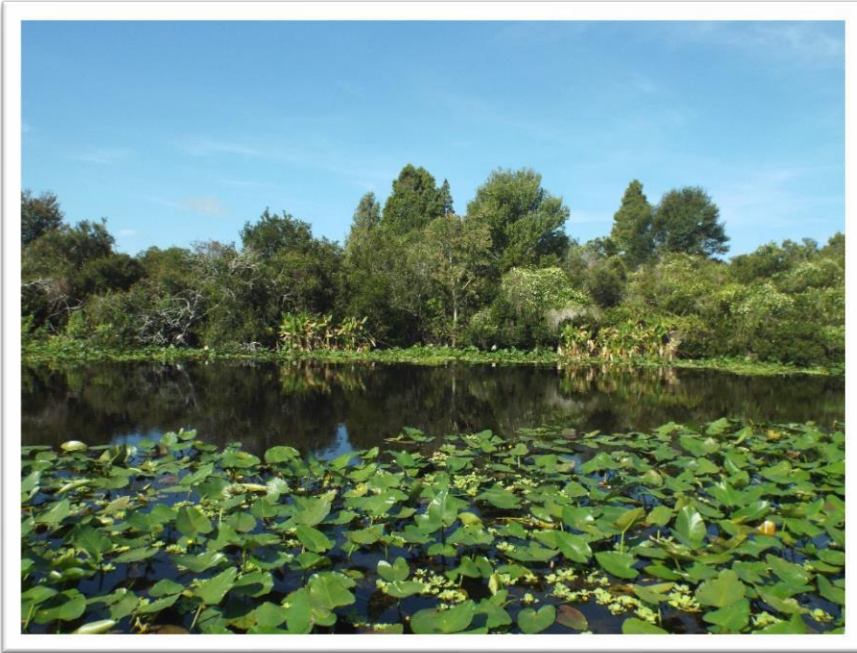
FDOT Mitigation Plan



Lake Thonotosassa North Marsh and Slough. (2016)



Lake Thonotosassa North Marsh and Slough. (2016)



Lake Thonotosassa South Marsh and Slough. (2016)



Lake Thonotosassa South Marsh and Slough. (2016)

SW-83 LITTLE MANATEE RIVER – LOWER TRACT MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Little Manatee River – Lower Tract	Project Number	SW-83/D039
Project Type	Wetland and upland enhancement		
Landowner	Southwest Florida Water Management District and Hillsborough County	Management Entity	Hillsborough County/ Southwest Florida Water Management District
County	Hillsborough	Watershed	Little Manatee River
Water bodies	Little Manatee River	Water body Designations	Outstanding Florida Water
Project implementation status: (As of December 2018):		Maintenance and Monitoring	
Project utilization: (As of December 2018)		Permitted FDOT projects: 1	
		Planned, not yet permitted, FDOT projects: 0	
S/T/R:		20,29/32S/19E	

IMPACT INFORMATION (As of December 2018):

Watershed	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Little Manatee River	4154893	US 301 Sun City Center to Balm Road ¹	0.65	43034464.000	2008-03613
		Total:	0.65		

¹ This US 301 segment proposes additional wetland impacts in the Tampa Bay Drainage Basin that are mitigated in the Ekker Tract (SW 82) and through on-site wetland creation by FDOT.

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Upland Buffers	Enhancement	Little Manatee River	29.15
Wetlands	Enhancement	Little Manatee River	3.97
		Total:	33.12

PROJECT DESCRIPTION

A. Overall project goals: The Little Manatee River – Lower Tract (LMR) was acquired by Hillsborough County and the SWFWMD and is managed by Hillsborough County. The 1,902-acre tract is bisected by Interstate-75 and the Little Manatee River meanders through the parcel. The majority of the LMR tract has high quality native habitat conditions; however, there was a 142-acre portion of previously cleared upland and wetland habitat covered in exotic species, predominantly Brazilian pepper and cogon grass. The original goal was to eradicate exotics and plant appropriate species to enhance approximately 139.4 acres of uplands and 2.6 acres of wetlands. The mitigation plan for this site has been revised to enhance 3.97 acres of wetlands and 29.15 acres of upland buffers surrounding the 3 wetlands.

B. Brief description of pre-construction habitat conditions: Except for the designated project area, the majority of the LMR tract has high quality and diverse upland and wetland ecosystems. The upland habitats include a dominance of pine flatwoods with areas of sand pine scrub predominantly located along the riverbank and mixed hardwoods and coastal hammocks located on slight ridges between meandering tributaries of the river. Wetland systems are dominated by estuarine marsh habitats bordering the river and associated tributaries, as well as scattered freshwater marshes in the flatwoods. The upland portion of the designated 39.15-acre project area was historically dominated by pine flatwood habitat prior to conversion to improved pasture in the 1980's. After cattle operations were discontinued and the LMR tract was publicly acquired, native and exotic vegetation covered the pasture. Dominant ground cover currently consists of Bahia grass and broomsedge, with scattered pockets of cogongrass throughout.

C. Brief description of construction activities and current habitat conditions: In 2004, there was a partial herbicide eradication of some Brazilian pepper within the western and northern portion of the project area and the dead pepper was pushed into separate piles. Activities conducted in 2007 included treatment, cutting and burning the previously untreated and re-generated pepper. The cogon grass in the uplands and cattails within the marshes were also treated with herbicide. Routine herbicide maintenance has resumed to control regeneration of the Brazilian pepper, cattails, and especially cogon grass.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): Maintenance activities will continue until success criteria are met. These activities include herbicide treatments as necessary of Brazilian pepper, cogon grass, cattails and any other exotic and nuisance species. It is envisioned that the same long-term land management activities of the remaining LMR tract will be adopted in the project area, particularly implementation of a prescribed burn program on 3-5-year rotation cycles and any supplemental pine planting necessary to provide appropriate coverage.

Monitoring will be conducted annually by the SWFWMD and will include qualitative assessment and photo documentation of vegetative conditions, wildlife activities, wetland hydrology and hydroperiods and any miscellaneous activities such as land management and herbicide maintenance. Success criteria vary and are dependent on the habitat areas. Herb cover for the wetlands include 80% cover of desirable species and less than 5% cover of exotic and nuisance species. For the enhanced uplands, success criteria include achieving less than 5% coverage of exotic and nuisance species, greater than 90% survivorship of planted material, and site conditions must be maintained to allow implementation of a prescribed fire program.

E. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): There are very few state roadways located within the small Little Manatee River basin, and the US 301 segment is the first project since the inception of the FDOT mitigation program in 1996 that has any proposed wetland impacts in the basin. The anticipated minor marsh impacts (0.9-acre) are low quality and appropriately mitigated at the LMR tract years in advance of the anticipated roadway construction.

F. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: During the mitigation selection during 2006, there were no existing or proposed mitigation banks in the Little Manatee River Basin.

G. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: This mitigation project was within SWIM's Five-Year Habitat Restoration Plan.

PROJECT IMPLEMENTATION

- | | |
|---|------------------------|
| • Initial herbicide application and Brazilian pepper burning: | 2007 |
| • Additional herbicide treatments: | Winter 2010 |
| • Supplemental pine plantings: | Summer 2010 |
| • Monitoring: | 2014, 2015, 2016, 2017 |
| • Maintenance: | Ongoing |
| • Perpetual Management: | To Be Determined |

Entity responsible for construction: Hillsborough County

Entity responsible for monitoring and maintenance: Maintenance by private contractors selected by Hillsborough County, and monitoring conducted by private contractor selected by SWFWMD for FDOT site.

Entity responsible for perpetual management: Hillsborough County and/or SWFWMD (Is this correct: "Hillsborough County is responsible for county lands and private contractor selected by SWFWMD for FDOT site.")

Cost for 2018 monitoring: \$4,727.90

Cost for 2018 maintenance: \$1,670.00

Total Cost of FDOT Mitigation Including O&M: \$132,171.87

ATTACHMENTS

1. Figure A-Location
2. Figure B-Pre-Construction (2005)
3. Figure C-Post-Construction (2014)
4. Photographs (2016)

SW 83 - Little Manatee River - Lower Tract
Figure A - Location (20,29/32S/19E)



Legend

 Project Location

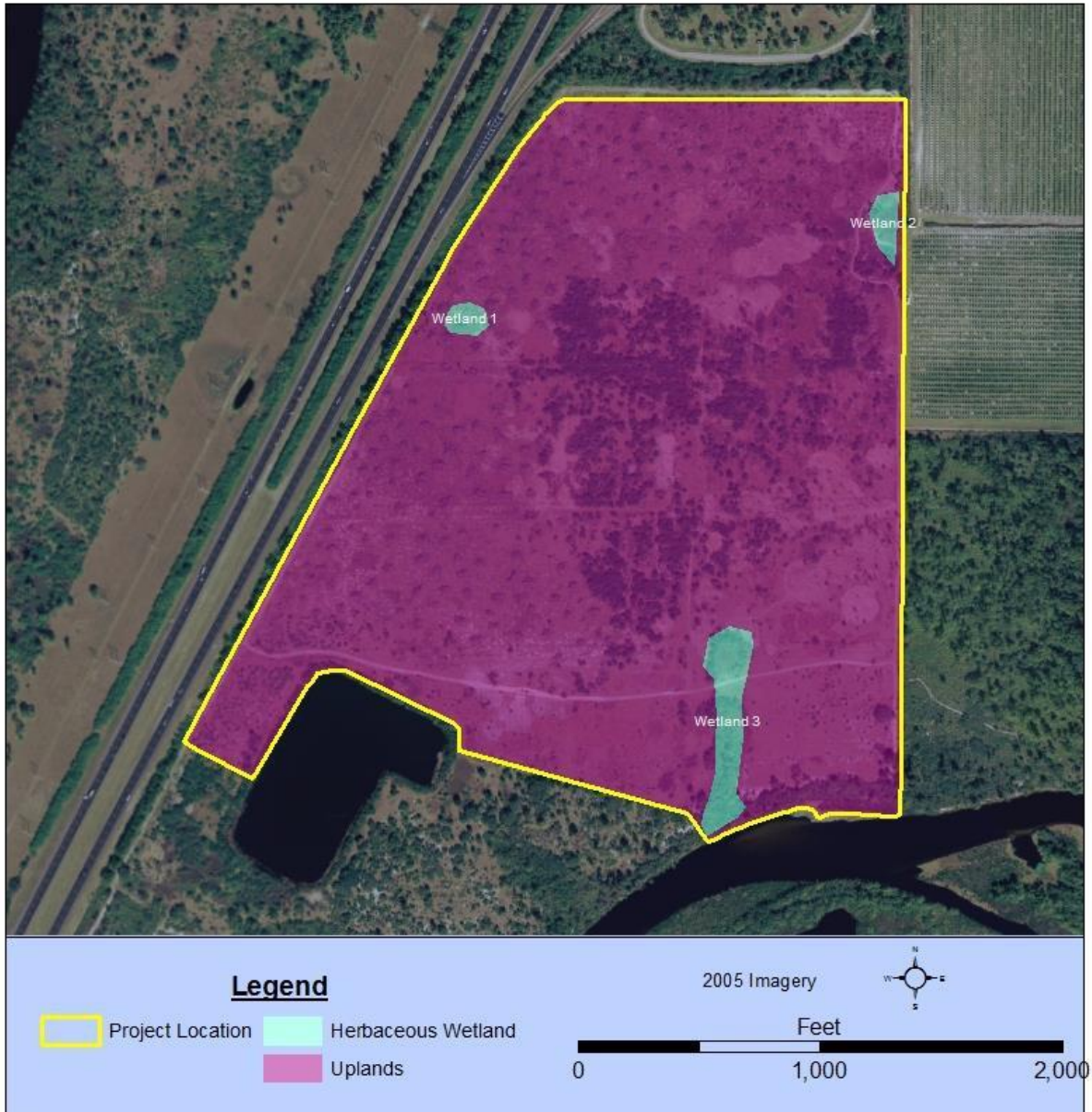
2014 Imagery



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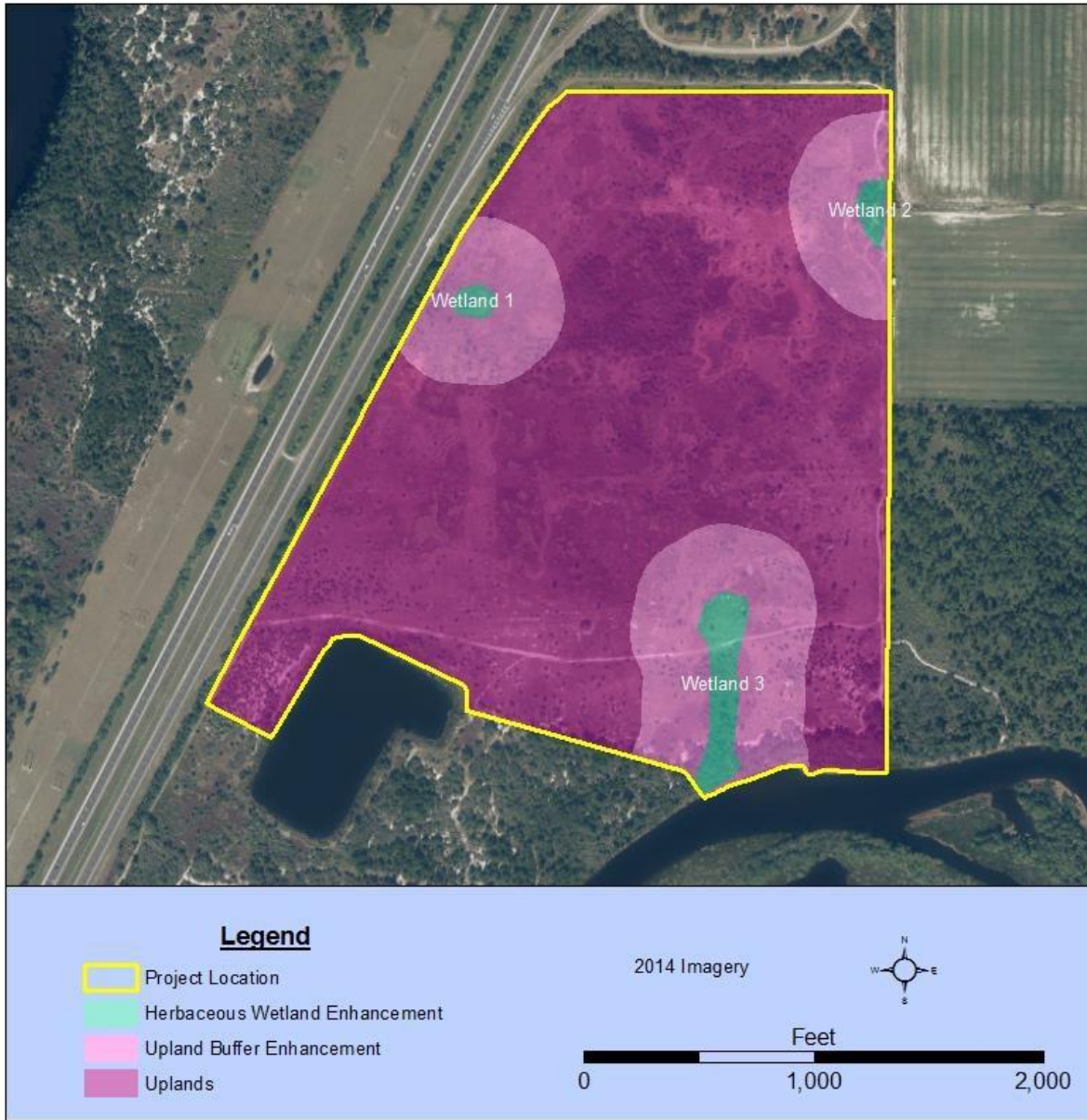
FDOT Mitigation Plan

**SW 83 - Little Manatee River - Lower Tract
Figure B - Pre-Construction (20,29/32S/19E)**



FDOT Mitigation Plan

SW 83 - Little Manatee River - Lower Tract
Figure C - Post-Construction (20,29/32S/19E)



FDOT Mitigation Plan



Wetland 1 south, looking north. (2016)



Wetland 3 south looking north. (2016)



Wetland 4 looking north. (2016)

SW-86 MOBBLY BAYOU WILDERNESS PRESERVE MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Mobbly Bayou Wilderness Preserve	Project Number	SW-86/D052
Project Type	Wetland Restoration and enhancement		
Landowner	Pinellas County and City of Oldsmar	Management Entity	Pinellas County/Southwest Florida Water Management District
County	Pinellas	Watershed	Tampa Bay Drainage
Water bodies	Mobbly Bayou, Tampa Bay	Water body Designations	SWIM Water Body, Pinellas County Aquatic Preserve
Project implementation status: (As of December 2018):		Phase 1-Monitoring and Perpetual Management	
Project utilization: (As of December 2018)		Permitted FDOT projects: 3	
		Planned, not yet permitted, FDOT projects: None	
S/T/R:		25,36/28S/16E	

IMPACT INFORMATION (As of December 2018):

Watershed	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Tampa Bay Drainage	2584151	I-4 (SR 400) @ Selmon Expressway	5.46	44012347.014	2010-03007
Tampa Bay Drainage	4125313	I-275 @ I-275 NB Off-Ramp to SR 60 Airport Flyover	0.94	43008209.002	2008-02056
Tampa Bay Drainage	4245611	SR 60 - Pinellas/Hillsborough C.L. to Rocky Point Drive	0.13	44000920.009	2010-00993
		Total:	7.76		

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Mangroves	Restoration and enhancement	Tampa Bay Drainage	94.57
		Total:	94.57

PROJECT DESCRIPTION

A. Overall project goals: The Mobbly Bayou Wilderness Preserve is located along the northern portion of Tampa Bay, a designated SWIM priority water body. This Preserve is a 383-acre parcel within one of the few undeveloped tracts adjacent to Tampa Bay. The Preserve has diverse upland and wetland habitats critical for a wide variety of wildlife species. However, these habitats have been impacted by the construction of mosquito ditches, ponds and adjacent development. Uncontrolled establishment of exotic plants threaten natural habitats as well. The project goal is to restore and enhance mangrove swamp communities by filling mosquito control ditches and eradicating exotic plants in and around these areas.

B. Brief description of pre-construction habitat conditions: The Preserve's habitats include a dominance of mangrove forest and salt marsh, with additional coverage provided by saltern, pine flatwoods, cabbage palm flatwoods, coastal hammock and freshwater marsh. Much of the mangrove forest, salt marsh and saltern habitat have been hydrologically altered by the construction of mosquito ditches. Mosquito control ditches limit appropriate and adequate tidal range and fluctuation within the estuarine wetlands. In addition, because of diverted storm and surface water from adjacent developed areas, there is less frequency and consistency of contributing freshwater components critical for maintaining appropriate estuarine habitats. The combination of less estuarine habitat receiving and retaining tidal flow from the south and inconsistent contribution of freshwater from the north has resulted in fewer wetlands having appropriate hydrology, hydroperiods and salinity levels. This is particularly evident within the slightly higher elevations of salt-marsh habitat and adjacent upland habitats, which have substantial coverage by Brazilian pepper.

C. Brief description of construction activities and current habitat conditions: The overall restoration objectives and plan for the Preserve evolved over many years with input from various entities including but not limited to Pinellas County, SWFWMD – SWIM, FDEP, FDEP Aquatic Preserve Program, U.S. Geological Survey and various members of the public. Consensus was reached on the major elements of ecosystem restoration and management that need attention. This mitigation plan will focus on the elements that will restore or enhance mangrove swamp communities on lands for which Pinellas County has management responsibility.

In areas where the natural grade has not been altered and Brazilian pepper has become established, Brazilian pepper will be removed using herbicides applied by a licensed herbicide applicator. Maintenance will be conducted as needed until vegetation becomes reestablished, which was expected to be quarterly for the first three years after construction activities and at least semi-annually thereafter for a minimum of two additional years and until success criteria are met. Afterward, maintenance activities will be conducted as part of the perpetual management of the tract to maintain success.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): Most of the roadway projects proposed for mitigation at the Preserve have anticipated minor impacts to low quality wetlands and surface waters in the Tampa Bay drainage basin. The Mobbly Bayou restoration project will target mangrove restoration and enhancement so that appropriate compensation for the unavoidable mangrove impacts is provided.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: At the time the FDOT projects were submitted for inclusion in the FDOT Mitigation Program, the Tampa Bay Mitigation Bank had insufficient credit to offset the identified wetland impacts. Consideration of the Tampa Bay Mitigation Bank as a mitigation option for the unpermitted FDOT projects will be given as described in the mitigation section of the Plan or in future updates of the Plan.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: The proposed habitat improvements activities are associated with a SWIM-designated project.

PROJECT IMPLEMENTATION

- Design and Permitting: 2005-2016
- Phase 1 Nuisance/Exotic Removal: 2005-2006
- Monitoring: 2015, 2016, 2017
- Maintenance: 2012-2017
- Perpetual Management: Ongoing

Entity responsible for construction: SWFWMD

Entity responsible for monitoring and maintenance: SWFWMD

Entity responsible for perpetual management: Pinellas County is responsible for county lands and private contractor selected by SWFWMD for FDOT site.

Cost for 2018 monitoring: \$22,894.28

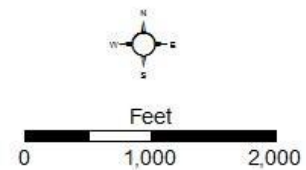
Cost for 2018-19 maintenance: \$63,200.00

Total Cost for FDOT Mitigation Including O&M: \$506,840.64

ATTACHMENTS

1. Figure A-Location
2. Figure B-Pre-Construction (2004)
3. Figure C-Post-Construction (2014)
3. Pictures (2017)

SW 86 - Mobbly Bayou Wilderness Preserve
Figure A - Location (25,36/28S/16E)



FDOT Mitigation Plan

SW 86 - Mobbly Bayou Wilderness Preserve
Figure B - Pre-Construction (25,36/28S/16E)



FDOT Mitigation Plan

SW 86 - Mobbly Bayou Wilderness Preserve
Figure C - Post-Construction (25,36/28S/16E)



FDOT Mitigation Plan



Photo taken from qualitative monitoring site D facing North. Treated Brazilian pepper can be seen in the background. (April 2017)



Photo taken from qualitative monitoring site M facing North. Low growth mangrove trees are present in the background. (April 2017)



Photo taken from qualitative monitoring site O facing West. Healthy *Spartina* is present in the foreground and treated Brazilian pepper is present in the background. (April 2017)



Photo taken from qualitative monitoring site N facing North. Treated Brazilian pepper is present in the background. (April 2017)

SW-38 QUICK POINT NATURE PRESERVE MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Quick Point Nature Preserve	Project Number	SW-38/D900
Project Type	Wetland Restoration and Enhancement		
Landowner	Town of Longboat Key	Management Entity	Southwest Florida Water Management District
County	Sarasota	Watershed	Lower Coastal
Water bodies	Sarasota Bay	Water body Designations	SWIM Water Body
Project implementation status: (As of December 2018):		Monitoring and Perpetual Management	
Project utilization: (As of December 2018)		Permitted FDOT projects: 2	
		Planned, not yet permitted, FDOT projects: None	
S/T/R:		S 24, 25 T36/28S/17E	

IMPACT INFORMATION (As of December 2018):

Watershed	FM #	Project Name	Total Impacts	ERP permit #	ACOE Permit #
Lower Coastal	1979421	SR 789-Ringling Causeway Bridge	0.27	4418555.01	199500210
Lower Coastal	1980051	SR 789-Ringling Causeway Bridge	0.32	44020099.02	199905145
		Total	0.59		

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Mangroves	Enhancement	Lower Coastal	1
Seagrass	Preservation	Lower Coastal	1.5
		Total:	2.5

PROJECT DESCRIPTION

A. Overall project goals: Enhance of mangroves and seagrass on portions of the Quick Point Nature Preserve located on the southern end of Longboat Key.

B. Brief description of pre-construction habitat conditions: The 34-acre site has an existing 20-acres of mangrove (the majority disturbed by mosquito ditches, spoil mounds, and exotic vegetation), 5 acres of restored wetland, and 9-acres of fill area that will be used to create upland habitat. The original plan proposed removal of the 9-acres of fill to create wetland habitat, but it was determined that construction limitations would lead to wetland disturbance. The disturbed upland fill will have exotic species removed and used to create upland habitat. The upland habitat creation is not proposed as mitigation for the DOT impacts.

C. Brief description of construction activities and current habitat conditions: The disturbed mangrove area will have the exotic species removed (primarily Brazilian pepper, Australian pine), minor grading has been conducted to construct a tidal pond. Due to the loss of seagrass from decreased salinity levels during El Nino, seagrass will be planted within existing sandy bottom areas at Quick Point and, if additional acreage is needed, within appropriate areas under the existing Ringling Bridge proposed for removal or other areas within Sarasota Bay. Seagrass planting will be conducted with a rotary plugging apparatus operated on a pontoon boat. The combination of these activities with other enhancement & restoration activities at Quick Point provide a diverse relationship of various habitats.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): For the 0.27 acre of seagrass impacts associated with the Ringling Causeway Bridge (located 2 miles from Quick Point), 1.5 acres of seagrass planting will occur in the area adjacent to Quick Point and, if additional area is required, within the shaded area under the existing Ringling Bridge span that will be removed in association with the new bridge construction. For the 0.32 acre of mangrove impact, a minimum 1.0 acre of the disturbed mangrove area will be enhanced with eradication of exotic vegetation.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: For the 0.27 acre of seagrass impacts associated with the Ringling Causeway Bridge (located 2 miles from Quick Point), 1.5 acres of seagrass planting will occur in the area adjacent to Quick Point and, if additional area is required, within the shaded area under the existing Ringling Bridge span that will be removed in association with the new bridge construction. For the 0.32 acre of mangrove impact, a minimum 1.0 acre of the disturbed mangrove area will be enhanced with eradication of exotic vegetation.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: This project is a coordinated effort between the Town of Longboat Key, FDEP, SWFWMD-SWIM and the National Estuary Program. Sarasota Bay is one of the few water bodies within the state that is nationally considered of such importance to receive priority and partial funding for enhancement through the "National Estuary Program (NEP)."

PROJECT IMPLEMENTATION

- Monitoring: 2018
- Maintenance: 2018
- Perpetual Management: Ongoing

Entity responsible for construction: SWFWMD

Entity responsible for monitoring and maintenance: SWFWMD

Entity responsible for perpetual management: Town of Longboat Key is responsible for lands and private contractor selected by SWFWMD for FDOT site maintenance.

Cost for 2018 Monitoring: \$3,169.18

Cost for 2018 Maintenance: \$0.00

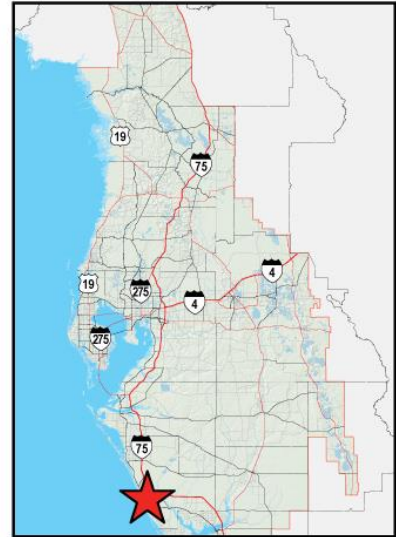
Total Cost for FDOT Mitigation Including O&M: \$12,669.18

ATTACHMENTS


1. Figure A-Location
2. Figure B-Pre-Construction (2004)
3. Figure C-Post-Maintenance (2018)
4. Pictures (2018)

SW 38 - Quick Point Nature Preserve

Figure A - Location



Legend

-  Project Location
-  FDOT Project Limits

FDOT Mitigation Plan

SW 38 - Quick Point Nature Preserve Figure B - Seagrass Area



Legend

-  Project Location
-  Seagrass Area



SW 38 - Quick Point Nature Preserve Figure C - Mangrove Area



Legend

-  Project Location
-  Mangrove Area



FDOT Mitigation Plan

SW-65 RUTLAND RANCH - SOUTH TRACT MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Rutland Ranch – South Tract	Project Number	SW-65/D022
Project Type	Wetland restoration and enhancement; upland enhancement		
Landowner	Southwest Florida Water Management District	Management Entity	Southwest Florida Water Management District
County	Manatee	Watershed	Manatee River
Water bodies	Not named	Water body Designations	None
Project implementation status: (As of December 2018):	Monitoring and Perpetual Management		
Project utilization: (As of December 2018)	Permitted FDOT projects: 4		
	Planned, not yet permitted, FDOT projects: None		
S/T/R:	23,25,26,27,34/34S/20E		

IMPACT INFORMATION (As of December 2018):

Watershed	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Manatee River	1960222	SR 64 (Seg. 1) I-75 to Lena Rd.	2.81	43020580.009	1999-01379
Manatee River	1960223	SR 64 (Seg. 2) Lena Rd. to Lakewood Ranch Rd.	0.84	44016872.018	2004-02700
Manatee River	1961211	SR 70 (Seg. 1) I-75 to Lakewood Ranch Rd.	1.40	44025920.001	2003-11659
Manatee River	4043232	SR 70 (Seg. 2) Lake Ranch Rd. to Lorraine Road	3.62	43025920.000	2004-00032
		Total Impact Acreage:	8.67		

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Forested and non-forested wetlands	Restoration and enhancement	Manatee River	73
Freshwater marsh	Restoration	Manatee River	5
Palmetto prairie	Restoration	Manatee River	10
Upland buffers	Enhancement	Manatee River	25
		Total:	113

PROJECT DESCRIPTION

A. Overall project goals: The Rutland Ranch property (also referred to as “Chance Reserve”) is owned and managed by the SWFWMD. The property includes two parcels separated by private lands along

Gilley Creek, with the FDOT mitigation project conducted within the southern tract (Figure A). Prior to public acquisition, over half of the 1000-acre south tract was historically used for row crops and cattle production (Figure B). The site has 15 wetland areas and the majority are marshes interconnected with large ditches that substantially altered the wetland hydrology and vegetative composition. The project goal included completely filling some ditches and constructing blocks in other ditches to restore ground and surface water hydrology, and to subsequently enhance and restore appropriate wetland habitat. Upland buffers around the wetlands and filled ditches could regenerate native vegetation and were supplemented with plantings to enhance habitat conditions and wildlife corridors between the marshes.

B. Brief description of pre-construction habitat conditions: The SWFWMD acquired the Rutland Ranch property in 1998 for several purposes. The tract is located within the Southern Water Use Caution Area (SWUCA), a designated area where groundwater resources are at critical levels that require limitations of water well withdrawals. The property, located less than a mile from the Manatee River and Lake Manatee Reservoir, contributes surface and ground water to these water bodies. Land use changes from row crops to less intensive agricultural operations (e.g. cattle grazing) not only place less strain on consumptive use (water quantity) but results in a reduction of nutrients (water quality) that contribute to the watershed and the Manatee River. Acquiring the property also provided the opportunity to restore and enhance wetland and upland habitats in the basin.

Ditches excessively drained surface and ground water from the uplands and most of marshes located within the pastures (particularly Wetlands 5-11 and 13). These marshes are shallow ephemeral wet prairie wetland systems, with a dominant cover of maidencane and moderate coverage of St. John's wort. Ditches vary in size with the smaller ditches averaging 10-15 ft. wide and 2-3 ft. deep, moderate size drainage ditches are 20-25 ft. wide and 5-8 ft. deep and the large drainage ditches are 25-30 ft. wide and 6-8 ft. deep. Ditch sizes increased as the ditches progressed downstream (south) conveying large volumes of water off-site. Prior to construction, the marshes had very minimal hydroperiods due to the ditches and the marshes transitioned from maidencane-dominated systems to upland and facultative vegetative species such as broomsedge (*Andropogon virginicus*). The most extensively ditched marsh was Wetland 12, which had few relic indicators of wetland functions and no evidence that it had retained any surface water for many years. Remnant pockets of maidencane within the cross-ditches were present due to intermittent periods of surface water draining into the large interior collector ditch. Other upland species that recruited into Wetland 12 included gallberry, wax myrtle, and scattered pine. There are five wetlands that had upland spoil ridges present because of ditch construction. These spoil areas were covered with Bahia grass and saltbush.

Brief description of construction activities and current habitat conditions: Initial activities included herbicide treatment of exotic and nuisance species within the ditches (predominantly cattails), followed by construction activity to backfill most of the ditches and to install ditch blocks to restore ground and surficial hydrology for most on-site wetlands (Figure C). Earthwork construction and planting activities were conducted in the spring and summer of 2002. Herb planting was conducted in the exposed earthwork areas of those wetlands where the spoil was cut to backfill the ditches; including the extensive "fish-bone" ditches throughout the largest wetland (Wetland 12). The upland buffers around Wetlands 1-4 and 12 were planted with scattered longleaf pine to improve buffer habitat. Supplemental herb planting, cypress and maple were planted within Wetland 12 in 2004. A total of 2,500 trees and 56,420 herbs were planted and successfully established in association with the habitat improvements. Quarterly herbicide maintenance events and semi-annual monitoring continued through 2009. Perpetual management includes maintenance events, including herbicide treatments and prescribed fire within the palmetto prairie.

C. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s):

The mitigation activities resulted in 73 acres of wetland enhancement associated from the hydrologic restoration. The largest wetland (22 acres) had the most altered habitat pre-construction, with minimal functions to even qualify as a wetland. There were also 5 acres of wetland restoration within the footprint of where ditches and adjacent spoil material were graded to match historic wetland grade elevations and planted with herbs. The activities also included 10 acres of upland habitat restoration from grading ditches in the palmetto prairie, and 25 acres of upland habitat enhancement that buffer Wetlands 1-4 and 12. This results in a total mitigation acreage of 113 acres that adequately and appropriately mitigate for the 8.11 acres of roadway wetland impacts. No additional roadway projects have been or will be proposed for mitigation at Rutland Ranch.

D. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: At the time of mitigation selection in 2001, there were no existing or proposed mitigation banks within the Manatee River Basin.

E. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: At the time of selection, there were no SWIM projects in the Manatee River Basin.

PROJECT IMPLEMENTATION

- | | |
|-------------------------------------|--|
| • Planning and design: | Spring 2001 |
| • Construction and first planting: | 2002 |
| • Supplemental Wetland 12 planting: | 2004 |
| • Monitoring: | 2007, 2008, 2009, 2014, 2015, 2016, 2017 |
| • Maintenance: | 2004-20017 |
| • Perpetual Management: | Ongoing |

Entity responsible for construction: SWFWMD

Entity responsible for monitoring and maintenance: SWFWMD

Entity responsible for perpetual management: SWFWMD

Cost for 2018 monitoring: \$39,819.00

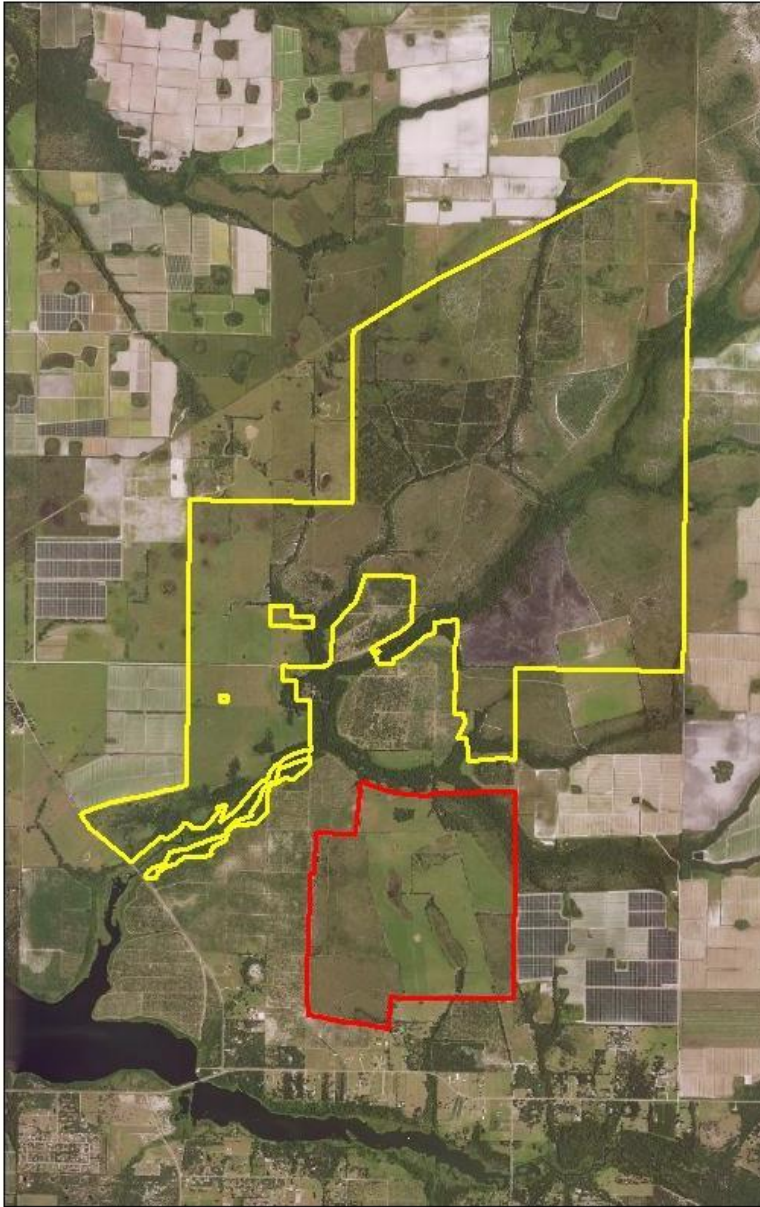
Cost for 2018 maintenance: \$169,235.08

Total Cost for FDOT Mitigation Including O&M: \$621,633.59



ATTACHMENTS

1. Figure A-Location
2. Figure B-Pre-Construction (1999)
3. Figure C-Post-Construction (2014)
4. Photographs (2001, 2002, 2009, 2014)

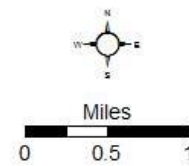
SW 65 - Rutland Ranch - South Tract
Figure A - Location (23,25,26,27,34/34S/20E)



Legend

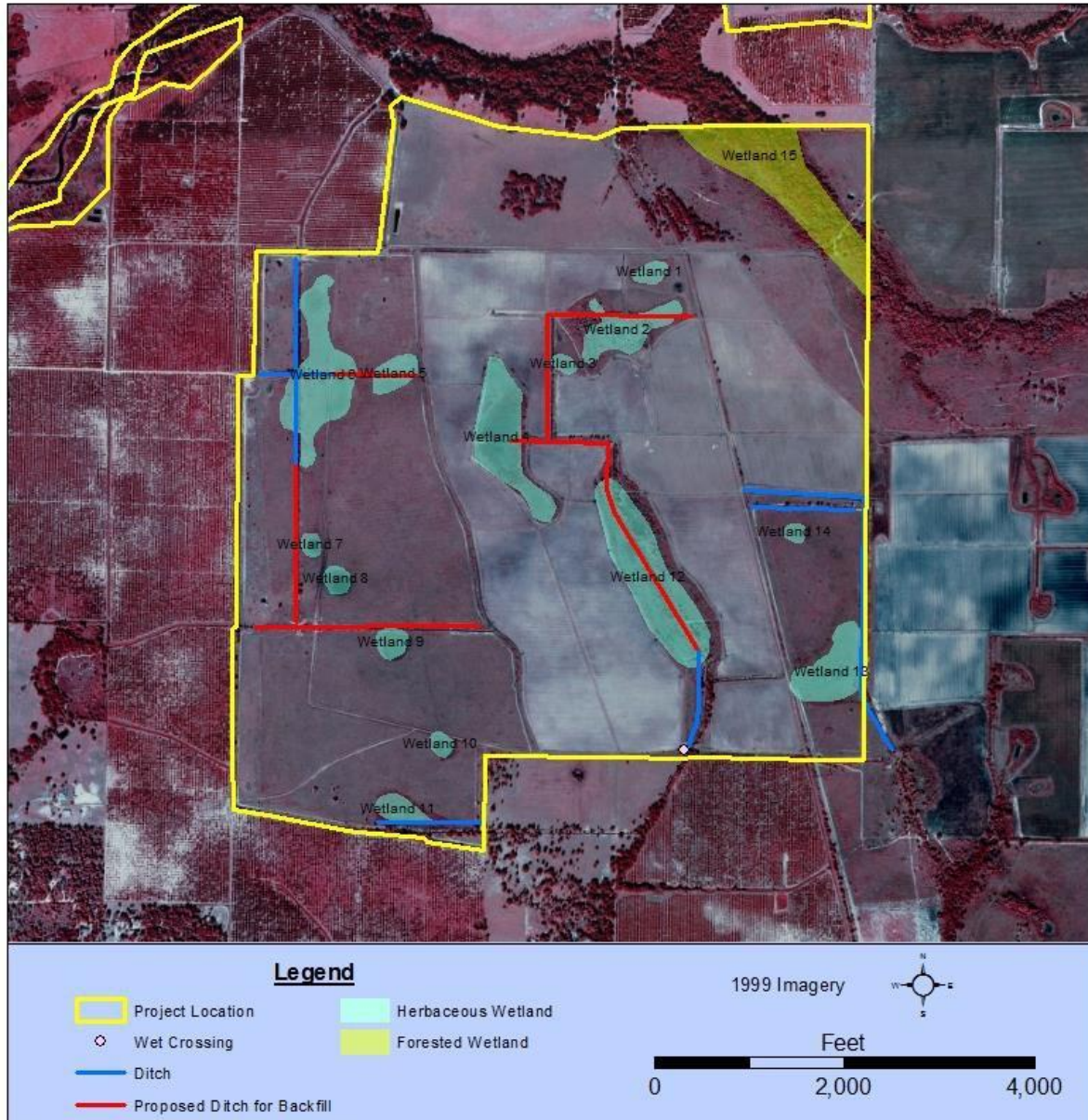
-  Project Location
-  FDOT Project Limits

2015 Imagery



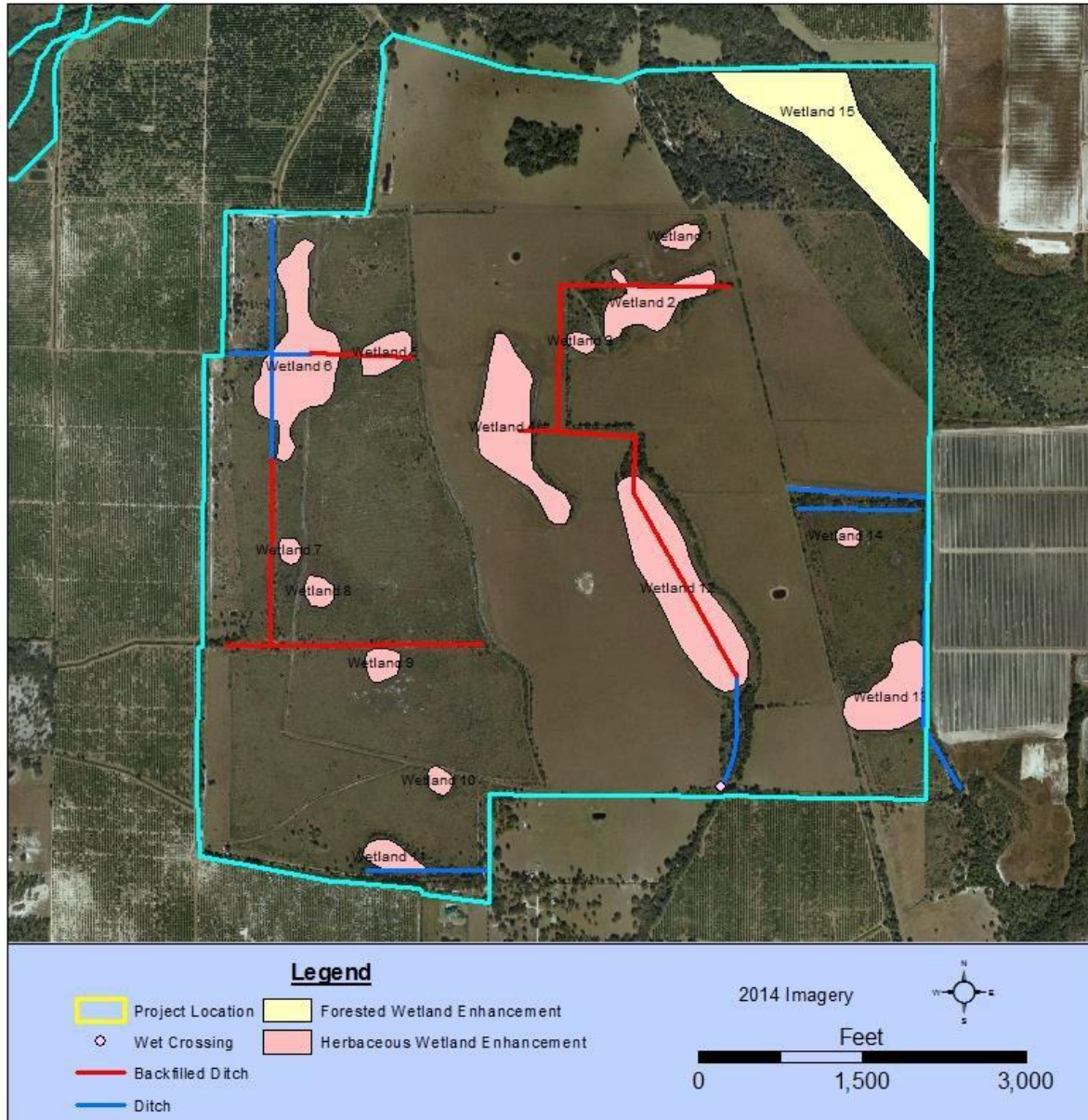
FDOT Mitigation Plan

SW 65A - FDOT Project Limits (Rutland)
Figure B - Pre-Construction (23,25,26,27,34/34S/20E)



FDOT Mitigation Plan

SW 65A - FDOT Project Limits (Rutland)
Figure C - Post-Construction (23,25,26,27,34/34S/20E)



FDOT Mitigation Plan



Wetland 3 Pine Flatwoods Buffer Adjacent to Improved Pasture (2017)



Wetland 12 Pine Flatwoods Buffer (2017)



Wetland 12 Oak Hammock/Pine Flatwoods Buffer (2017)



Wetland 12 Transect 2 Begin (2017)



Wetland 12 Transect 2 End

SW-74 SERENOVA PRESERVE – SITES 2, 3, 4, 8 MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Serenova Preserve - Sites 2, 3, 4, 8	Project Number	SW-74/D031
Project Type	Wetland enhancement and restoration		
Landowner	Southwest Florida Water Management District	Management Entity	Southwest Florida Water Management District
County	Pasco	Watershed	Upper Coastal Drainage
Water bodies	Pithlachascotee River, Five Mile Creek	Water body Designations	None
Project implementation status: (As of December 2018):	Monitoring and Perpetual Management		
Project utilization: (As of December 2018)	Permitted FDOT projects: 1		
	Planned, not yet permitted, FDOT projects: None		
S/T/R:	11,13,14,23,24,25,26,34,35,36/25S/17E		

IMPACT INFORMATION (As of December 2018):

	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Upper Coastal Drainage	2563161	SR 52 Hicks to Moon Lake	1.57	40007804.001	1990-03363
		Total Impact Acreage:	1.57		

MITIGATION INFORMATION (As of December 2017):

Habitat	Mitigation Type	Watershed	Acreage
Freshwater forested wetlands	Enhancement and Restoration	Upper Coastal Drainage	26.00
		Total:	26.00

PROJECT DESCRIPTION

A. Overall project goals: The Serenova Preserve and adjacent Starkey Wilderness Preserve (total over 20,000 acres) is owned and managed by the SWFWMD. After extensive evaluation and ranking of wetland restoration and enhancement opportunities within the Serenova Tract, it was determined that four separate project sites (2, 3, 4 and 8) could provide the most important wetland hydrologic improvements within the property. Three projects involve culvert installations and removal of berm material associated with the Pithlachascotee River and Five Mile Creek. The Pithlachascotee River has two access road berm crossings (Site 2 - actively used, Site 4 - abandoned) and Five Mile Creek has one crossing (Site 3). Each crossing requires improvements to restore surface water flow conditions through floodplains and to minimize continuous problems with erosion and sedimentation. Wetland hydrology was proposed to be restored in a large outfall ditch of a cypress system at Site 8 through the installation of ditch blocks.

B. Brief description of pre-construction habitat conditions: The Pithlachascotee River and Five Mile Creek are forested wetland floodplains of relatively high-quality with a diverse canopy cover dominated by laurel oak, sweet gum, cypress, red maple, cabbage palm, and tupelo. A sub-canopy has saplings of the same species as well as Virginia willow, buttonbush, and wax myrtle. Ground cover is sparse due to canopy cover and is dominated by various fern and sedge species. Hydrologic characteristics of the floodplains have been altered by berms constructed prior to public acquisition and by undersized and insufficient culverts. The abandoned Pithlachascotee River crossing had a 600-ft. long berm that blocked and diverted surface water flow to a dredged river channel segment. The river channel had a partially collapsed bridge trestle that would catch debris and block flow. Another 680-ft. long berm crossing of the river is used for management access but had insufficient and undersized culverts. The upstream contributing flow was diverted through just three culverts in the main river channel. As a result, the wetland floodplain upstream of the berm experienced impounded surface water and less water contributed to the downstream wetland floodplain. The Five Mile Creek roadway crossing had an appropriate size culvert but insufficient rubble rip-rap to control erosion (Site 3). The cypress system associated with Site 8 had a dense canopy and fern understory, but hydrologic indicators demonstrated minimal hydroperiods due to a wide, shallow outfall ditch.

C. Brief description of construction activities and current habitat conditions: A surface water modeling effort was conducted in 2006 to determine the appropriate sizes and locations of culverts required for Sites 2 and 3 to restore the primary flow patterns of the Pithlachascotee River. The modeling effort resulted in replacing the three culverts in the main channel at Site 2 and the installation of two additional culverts at strategic locations where secondary channels historically provided flow to other areas within the floodplain. Evaluation of those culverts after installation has indicated restoration of flow regimes. The access road berm was also stabilized with rubble rock and capped with limerock base material, thus halting the erosion and sedimentation that was occurring with the previous road. The Five Mile Creek access road (Site 3) required resetting of the culvert and adding rubble and base material to stabilize the crossing. At Site 4, fill material from the berm was used to backfill an adjacent drainage ditch and the land was regraded and stabilized at the abandoned berm crossing to restore the historic floodplain flow patterns. The dilapidated bridge was also removed. Hydrophytic herbs, dominated by soft rush and sedges, have since recruited within the area, followed by tree seedlings, dominated by red maple, that will mature and eventually restore the canopy gap. The berm removal and adjacent backfilled ditch resulted in a one-acre area of restored wetland floodplain. The wide and shallow outfall ditch from the cypress system (Site 8) had three small ponds dredged within the footprint the ditch, with the resulting material used to create two substantial ditch blocks, stabilized with biodegradable mesh screens and Bahia seeding. The ponds provide a valuable water source for wildlife during the dry season, while the ditch blocks are rehydrating the adjacent forested wetland.

A minimal acreage of direct wetland enhancement was proposed for mitigation credits for each site. This minimal enhancement is based on wetland floodplain limits of 350 ft. upstream and downstream of each crossing (Sites 2, 3 and 4), and the most northern 300 ft. perimeter of the drained cypress wetland associated with Site 8. The enhancement acreage for each site is as follows:

- Project Site 2 – The direct wetland enhancement was estimated at 11 acres (floodplain upstream and downstream - 700 ft. x floodplain width 700 ft. = 11 acres).
- Project Site 3 – Direct wetland enhancement was estimated at 2 acres (floodplain upstream and downstream - 700 ft. x floodplain width 150 ft. = 2 acres).

- Project Site 4 – Direct wetland enhancement was estimated at 11 acres (length 700 feet x width 700 feet = 11 acres).
- Project Site 8 – Direct wetland enhancement was estimated at 2 acres (length 300 feet x width 350 length = 2 acres).

Success criteria included ensuring the hydrologic flow patterns were adequately and appropriately restored, erosion control methods were maintained, and there was less than 5% coverage of any exotic and/or nuisance species vegetation within the restored wetland (Site 4). As of 2015, these successful habitat conditions have been achieved and maintained at all four project sites. Periodic inspection of the structures, rip-rap, etc. are conducted to ensure they function as intended, and that exotic and nuisance species do not become a problem at any of the sites. Due to the minimal presence of exotic or nuisance species on the Serenova property and within the vicinity of the four project sites, long term maintenance is expected to be minimal.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s):

The SR 52 segment is a few miles northwest of the Serenova Tract. The 1.57 acres of forested wetland impacts are adequately and appropriately mitigated by the 26 acres of habitat enhancement and restoration at Serenova. This mitigation project is only designated to provide mitigation for the wetland impacts associated the SR 52 project.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: During mitigation selection, there were no existing or proposed mitigation banks within the Upper Coastal Basin.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: During mitigation selection, there were no existing or proposed SWIM projects in the Upper Coastal basin that could appropriately provide the mitigation for the proposed impacts.

PROJECT IMPLEMENTATION

- Surface water modeling: 2006
- Construction: November 2007 – April 2008
- Monitoring: 2014, 2015, 2016, 2017
- Maintenance: 2008 – 2010
- Perpetual Management: Ongoing

Entity responsible for construction: SWFWMD

Entity responsible for monitoring and maintenance: SWFWMD

Entity Responsible for perpetual management: SWFWMD

Cost for 2018 monitoring: \$8,799.70

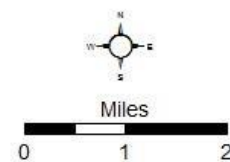
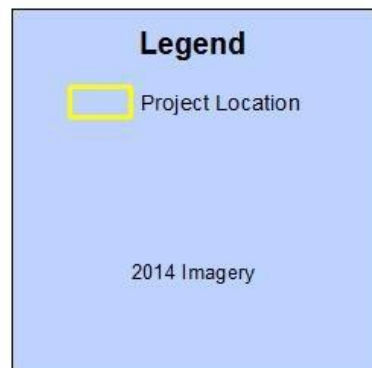
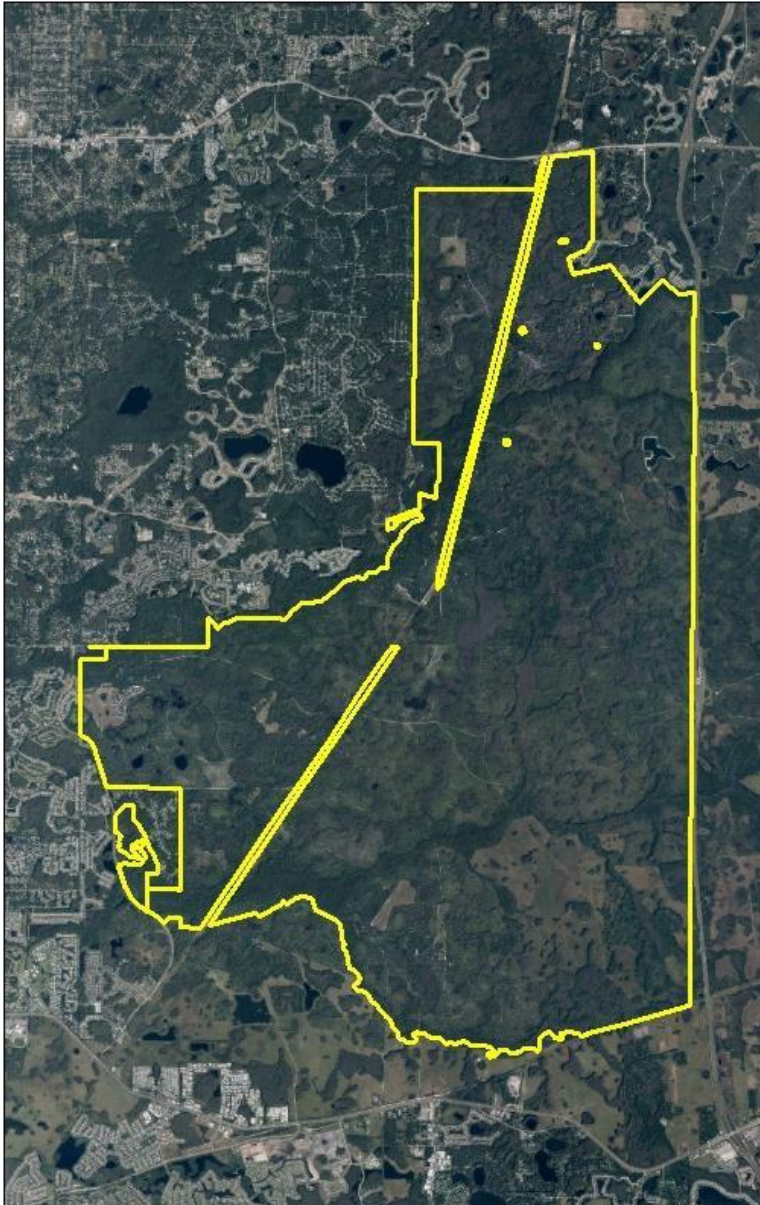
Cost for 2018 maintenance: \$0

Total Cost for FDOT Mitigation Including O&M: \$165,153.92

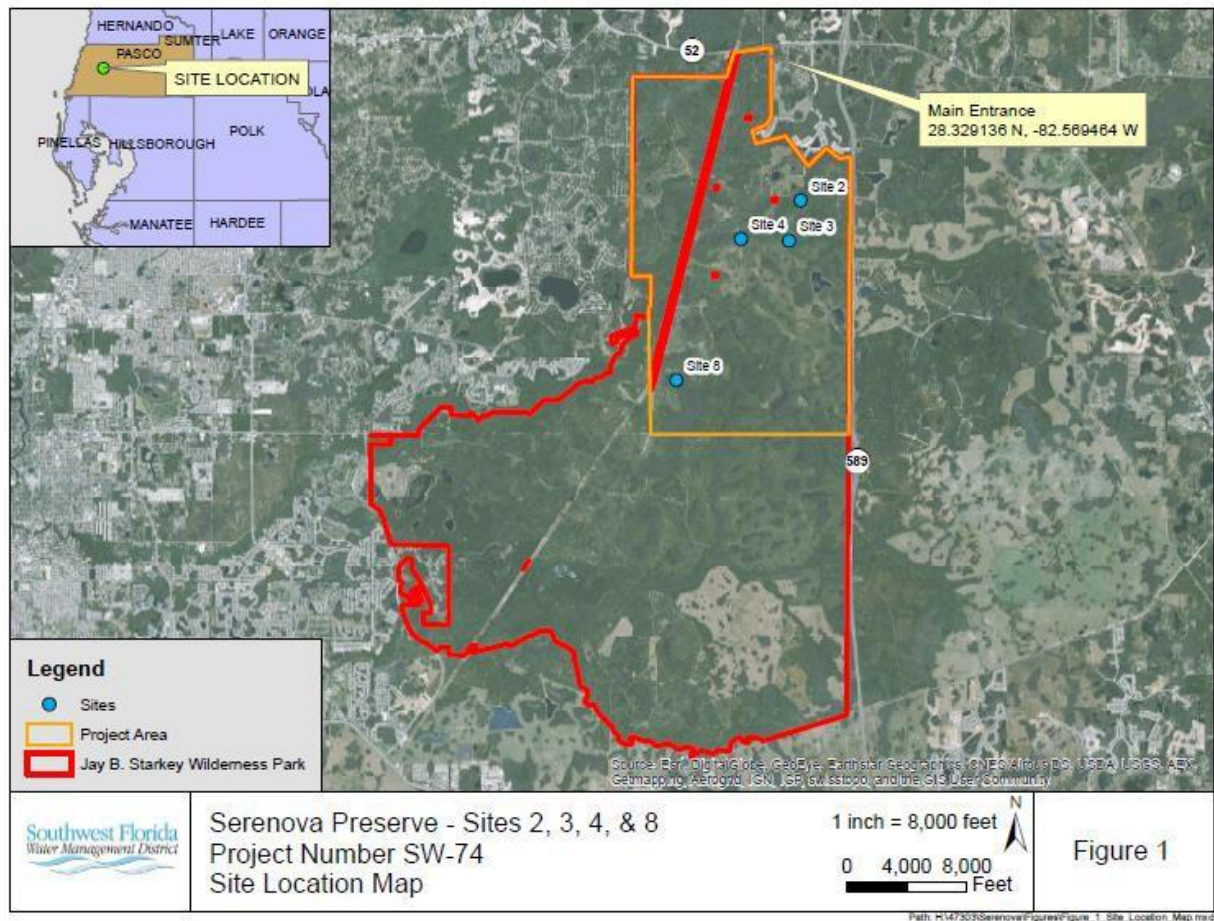
ATTACHMENTS

1. Figure A-Location
2. Figure B-Pre-Construction (2004)
3. Figure C-Post-Construction (2014)
4. Site Photographs (2017)

SW 74 - Serenova Preserve Sites 2,3,4,8
Figure A - Location (11,13,14,23,24,25,26,34,35,36/25S/17E)



FDOT Mitigation Plan





View of Site 2 from the berm looking towards the floodplain area



View of Site 3 from the berm looking towards the floodplain area



View of Site 4 from the removed berm looking towards the floodplain area



View of pond created from ditch blocking at Site 8

SW-62 TAPPAN TRACT MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Tappan Tract	Project Number	SW-62/D014
Project Type	Wetland Creation and Enhancement and Upland Restoration		
Landowner	City of Tampa	Management Entity	City of Tampa/Southwest Florida Water Management District
County	Hillsborough	Watershed	Tampa Bay Drainage
Water bodies	Tampa Bay	Water body Designations	SWIM Water Body
Project implementation status: (As of December 2018):	Perpetual Management		
Project utilization: (As of December 2018)	Permitted FDOT projects: 1		
	Planned, not yet permitted, FDOT projects: None		
S/T/R:	17/30S/18E		

IMPACT INFORMATION (As of December 2018):

Watershed	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Tampa Bay Drainage	2557031	SR 60 Cypress St. to Fish Creek ¹	3.30	43002958.002	2002-05816
		Total Impact Acreage:	3.30		

¹ Mitigation for the saltwater marsh impacts is provided at the SW-67 Apollo Beach and SW-77 Cockroach Bay – Saltwater. The freshwater marsh impacts are mitigated at the SW-56 Cockroach Bay – Freshwater.

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Tidal pool	Creation	Tampa Bay	0.41
Salt marsh	Creation	Tampa Bay	1.19
Freshwater ephemeral marsh	Creation	Tampa Bay	0.55
Saltern	Enhancement	Tampa Bay	0.53
Tidal pool/creek	Enhancement	Tampa Bay	1.18
Mangroves	Enhancement	Tampa Bay	0.77
Salt marsh	Enhancement	Tampa Bay	2.55
Coastal hardwood hammock	Restoration	Tampa Bay	1.20
		Total:	8.38

PROJECT DESCRIPTION

A. Overall project goals: The Tappan Tract is a SWIM-sponsored project constructed on property owned by the City of Tampa along the eastern shoreline of Old Tampa Bay (Figure A). The goal of the project is to provide unique wetland and upland habitat on public lands adjacent to existing mangrove habitat along

Tampa Bay (Figures A-D). The project includes the creation of tidal pool (0.41 ac.), salt marsh (1.19 ac.), and freshwater ephemeral marsh (0.55 ac.) habitats (total 2.15 acres of wetland creation). Enhancement occurred in saltern habitat (0.53 ac.), tidal pool/creek (1.18 ac.), mangrove habitat (0.77 ac.) and salt marsh (2.55 ac.) (total of 5.03 acres of wetland enhancement). Upland areas and spoil mounds were regraded for restoration to coastal hardwood hammock habitat (1.20 ac.).

B. Brief description of pre-construction habitat conditions: The Tappan Tract parcel on which the approximately 18-acre project area is located covers approximately 31 acres, and approximately 8.38 acres of this project area have been designated for use as FDOT mitigation. This site was historically a coastal pine flatwood adjacent to a mangrove fringe along Tampa Bay. The habitat construction and restoration activities occurred only in the eastern portion of the property, which is the only area providing FDOT mitigation credit. Prior to construction in 2003, the upland area within the east central portion of the site was primarily a mowed open field with a dominant cover of grasses, sedges, scattered cabbage palm, exotic species (especially Brazilian pepper and Melaleuca), and a few live oaks along the eastern boundary (Figure B/1999 aerial, site photos). A ridge of stockpiled spoil material was located along the north and northwestern perimeter of the construction area, approximately 10 ft. above natural grade, and was covered with a dense stand of exotic and nuisance species such as Brazilian pepper, Melaleuca, pokeweed, Caesar weed, and elderberry. A shallow-scraped upland area in the southern portion of the property generated some high salt-marsh characteristics. Overall, the project area represented low quality habitat conditions for wildlife use.

As part of the initiatives of the SWFWMD Surface Water Improvement and Management Program (SWIM) and the Tampa Bay National Estuary Program (TBNEP), this site was selected to not only restore upland habitat, but to create and enhance estuarine wetlands that are tidally connected to Tampa Bay. This project was one of the proposed habitat creation and restoration projects under consideration along Tampa Bay, referred to as the South Tampa Greenway, and the site is owned by the City of Tampa.

C. Brief description of construction activities and current habitat conditions: Construction was conducted in 2003 and 2004, commencing with exotic species eradication, followed by earthwork grading to remove the spoil and some upland soil material to create a tidal pool and creeks, salt marsh, and an ephemeral freshwater marsh (Figure C). Salt marsh enhancement was conducted through lowering the grade in some areas and using the two-constructed tidal pool and creek systems to increase hydrologic connections and flow to the marsh habitat (Figure D). Some of the removed spoil and open field area was restored to upland flatwood habitat, with supplemental planting conducted to enhance the remnant oak hammock along the east side of the project. Native tree, shrub and herb species were planted in the upland and wetland habitats, followed by routine herbicide treatments to aid in maintaining the habitat conditions.

Two tidal pool and creek systems were created through earthwork to decrease the grade in an area bordered by salt-marsh and saltern habitat (Figure C/2004 aerial, site photos). This grading also increased tidal connection and flow regimes to the existing salt-marsh habitat. Species such as smooth cordgrass (*Spartina alterniflora*), marshhay cordgrass (*Spartina patens*), cordgrass (*Spartina bakeri*), seashore dropseed (*Sporobolus virginicus*), and seaside paspalum (*Paspalum vaginatum*) were planted in the salt-marsh creation. With the seed transport provided by the tidal pools and creeks, mangrove species (*Rhizophora mangle*, *Avicenna germinans*, *Laguncularia racemosa*) and salt-grass (*Distichlis spicata*) have naturally recruited and generated within the salt-marsh habitat. Much of the salt-marsh habitat was purposely graded to elevations at and slightly above high tide elevations. This condition

results in irregular flushing with salt water that established rare and unique saltern habitat (Figure D, site photos). Salterns typically have minimal vegetative coverage due to the concentrated salt on the surface, but are productive ecosystems for birds and mammals that commonly forage for crabs, invertebrates, and other species that inhabit the area.

The ephemeral freshwater marsh is separated from tidal influence, and was planted with maidencane (*Panicum hemitomon*), American bulrush (*Scirpus tabernaemontani*), white bacopa (*Bacopa monnieri*), and creeping primrose (*Ludwigia repens*). These species are present with bulrush being the dominant cover. Some of the upland field and fill material were graded to contribute surface water runoff into the ephemeral marsh, then mulched and planted with coastal hammock and flatwood species such as slash pine (*Pinus elliottii*), Florida privet (*Forestiera segregata*), live oak (*Quercus virginiana*), firebush (*Hamelia patens*), beach sunflower (*Helianthus debilis*), red cedar (*Juniperus virginiana*), muhly grass (*Muhlenbergia capillaries*), Christmas berry (*Lycium carolinianum*), beach sunflower (*Helianthus debilis*), and tropical sage (*Salvia coccinea*).

The wetland and upland habitats at the Tappan Tract have appropriate hydrology, substantial coverage of desirable species, minimal exotic vegetation, and substantial wildlife use. Commonly observed species include fiddler crab (*Uca pugilator*), blue crab (*Callinectes sapidus*), killifish (*Fundulus* sp.), and raccoon (*Procyon lotor*), red-shouldered hawk (*Buteo lineatus*), belted kingfisher (*Ceryle alcyon*), killdeer (*Charadrius vociferous*), little blue heron (*Egretta caerulea*), oystercatcher (*Haematopus palliatus*), snowy egret (*Egretta thula*), white ibis (*Eudocimus albus*), wood stork (*Mycteria americana*), and other wading bird species.

Maintenance is primarily conducted to remove garbage and debris from the site and to eradicate exotics generated within the site, which are predominantly saplings of Brazilian pepper and melaleuca in the upland areas. Quarterly herbicide maintenance was conducted by private consultants contracted through the SWFWMD through 2009. Perpetual maintenance is conducted when necessary by the City of Tampa to maintain successful habitat conditions. The success criteria included 90% survivorship for planted material, a total of 85% coverage of desirable species, and less than 10% coverage by exotic and nuisance species. As of fall monitoring report conducted in 2016, coverage of nuisance and exotic vegetation was below the maximum 10% coverage in all monitored wetland habitats.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s):

Most of the wetland impacts designated for mitigation at the Tappan Tract were associated with low quality ditches, with the remaining wetland impacts mitigated at Cockroach Bay (SW 56 - Freshwater and SW 75 - Saltwater sites) and Apollo Beach (SW 67). The mangrove enhancement on the Tappan Tract compensates for the 0.3 acre of mangrove impact. For the 3.5 acres of saltwater ditch impacts, the mitigation includes salt-marsh creation, salt-marsh enhancement, tidal pool creation, saltern enhancement, and tidal pool enhancement. For the 0.6 acre of freshwater ditch impacts, the mitigation includes freshwater marsh creation and hardwood hammock enhancement. Considering 93% of the wetland impacts were associated with ditches, the mitigation is considered appropriate to compensate for these low-quality wetland and other surface water impacts.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a

discussion of cost: The only mitigation bank in the Tampa Bay Drainage Basin is the Tampa Bay Mitigation Bank (TBMB), which was not permitted at the time that mitigation selection occurred for this FDOT project.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: This is a SWIM – sponsored habitat improvement project conducted on property owned and managed by the City of Tampa.

PROJECT IMPLEMENTATION

- Design: 2000
- Construction: 2003-2004
- Monitoring: 2007, 2008, 2009, 2014, 2015, 2016, 2017
- Maintenance: 2009
- USACE release letter submitted: July 12, 2017
- Perpetual Management: Ongoing

Entity responsible for construction: SWFWMD

Entity responsible for monitoring and maintenance: SWFWMD is responsible for FDOT site; however, qualitative monitoring will no longer be performed, and site will go into perpetual maintenance.

Entity responsible for perpetual management: City of Tampa is responsible for city lands and/or private contractors selected by SWFWMD for FDOT site.

Cost for 2018 monitoring: \$6,514.76

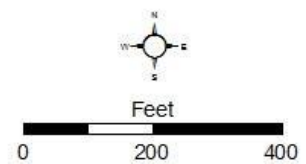
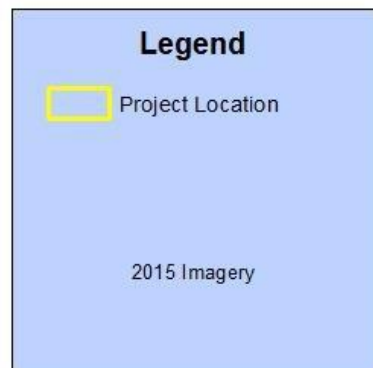
Cost for 2018-19 maintenance: \$12,600.00

Total Cost for FDOT Mitigation Including O&M: \$422,556.64

ATTACHMENTS

1. Figure A-Location
2. Figure B-Pre-Construction (1999)
3. Figure C-Post-Construction (2014)
4. Photographs (2012, 2016)

SW 62 - Tappan Tract
Figure A - Location (17/30S/18E)



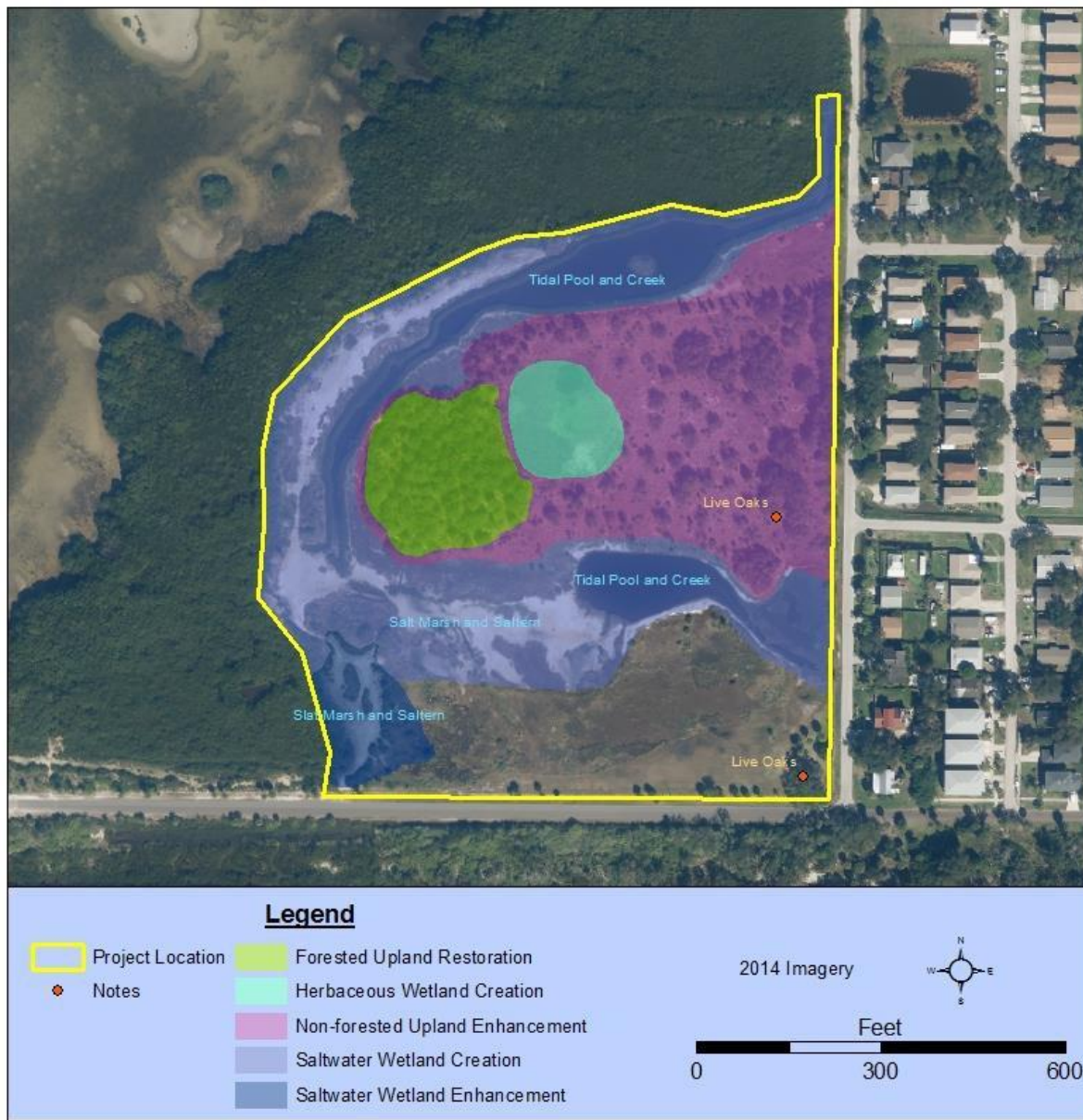
FDOT Mitigation Plan

SW 62 - Tappan Tract
Figure B - Pre-Construction (17/30S/18E)



FDOT Mitigation Plan

SW 62 - Tappan Tract
Figure C - Post-Construction (17/30S/18E)



FDOT Mitigation Plan



Tidal lagoon and creek on north boundary. (2012)



Ephemeral marsh in the western portion of the tract. (2012)



Salt marsh enhancement. (2016)

SW-50 TERRA CEIA RESTORATION MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Terra Ceia Restoration	Project Number	SW-50/D013
Project Type	Wetland and upland enhancement		
Landowner	Board of Trustees of the Internal Improvement Trust Fund; Florida Fish and Wildlife Conservation Commission	Management Entity	Department of Environmental Protection/Southwest Florida Water Management District
County	Manatee	Watershed	Tampa Bay Drainage
Water bodies	Manatee River, Tampa Bay, Terra Ceia Bay	Water body Designations	SWIM water body
Project implementation status: (As of December 2018):		Monitoring and Perpetual Management	
Project utilization: (As of December 2018)		Permitted FDOT projects: 1	
		Planned, not yet permitted, FDOT projects: None	
S/T/R:		24/33S/17E	

IMPACT INFORMATION (As of December 2018):

Watershed	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Tampa Bay Drainage	1960581	US 301 (Ellenton) 60 th Ave to Erie Road ¹	1.42	40012295.000	1994-02564
		Total Impact Acreage:	1.42		

¹Wetland impacts are in the Manatee River basin and mitigation is in the Tampa Bay Drainage basin. Out of basin mitigation is allowed by permits authorizing the road improvement project.

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Mangroves and adjacent upland buffer	Wetland and Upland Restoration and Enhancement	Tampa Bay Drainage	20
		Total:	20

PROJECT DESCRIPTION

A. Overall project goals: Restoration and enhancement of various types of saltwater wetland and upland habitats within the 1700-acre FDEP-owned & managed Terra Ceia Isles property bordering the southeastern shore of Tampa Bay (Figure A).

B. Brief description of pre-construction habitat conditions: Large tracts of once-pristine mangrove forest and intertidal wetlands within the project area were adversely impacted by dredge and fill operations. In addition, much of the existing upland and various wetland habitats had extensive coverage of exotic vegetation including Brazilian pepper, Melaleuca, and Australian pines. These areas

provided poor habitat value for wildlife utilizing the Preserve and the adjacent estuary. The 20-acre area designated to provide FDOT mitigation is within the eastern portion of the Preserve (Figure A). The pre-construction conditions included 12-acres of mangrove habitat buffered by 8-acres of upland habitat that had extensive coverage of Brazilian pepper (Figure B - 1999 aerial).

C. Brief description of construction activities and current habitat conditions: For the designated FDOT mitigation area, the Brazilian pepper was eradicated and prevented from regenerating through herbicide applications within the upland buffers. The upland buffers were also planted with native species (cabbage palm, longleaf pine and live oak). As depicted on Figure C, a braided tidal marsh was subsequently constructed in 2007 to further buffer the mangrove habitat. This activity was not quantified for FDOT mitigation credit; however, the created marsh does increase the habitat value and diversity for the Preserve and for the designated mitigation area. The success criteria include less than 10% cover of exotic species for the 20-acre area providing mitigation for FDOT wetland impacts. The mitigation is associated with larger restoration objectives for the Preserve.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): The restored and enhanced upland and mangrove habitats adequately and appropriately compensate for the minor impact acreage and function of the disturbed US 301 wetlands while increasing habitat diversity at Terra Ceia. No additional wetland impacts associated with other roadway projects are proposed for mitigation within this 20-acre area.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: No mitigation banks were available during mitigation selection in 1998.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: The mitigation activities are in conjunction with a SWIM project located on FDEP property in need of major habitat restoration and enhancement.

PROJECT IMPLEMENTATION

- | | |
|---|------------------------------------|
| • Planning and Design: | 2000-2001 |
| • Exotic species eradication and supplemental planting: | 2002 |
| • Monitoring: | 2007, 2008, 2014, 2015, 2016, 2017 |
| • Maintenance: | 2008-2017 |
| • Perpetual Management: | Ongoing |

Entity responsible for construction: SWFWMD

Entity responsible for monitoring and maintenance: SWFWMD

Entity responsible for perpetual management: FDEP staff is responsible for state lands and or private consultant selected by SWFWMD for FDOT site.

Cost for 2018 monitoring: \$5,109.98

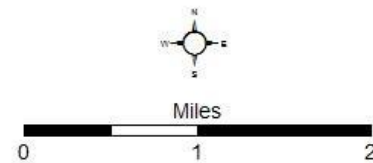
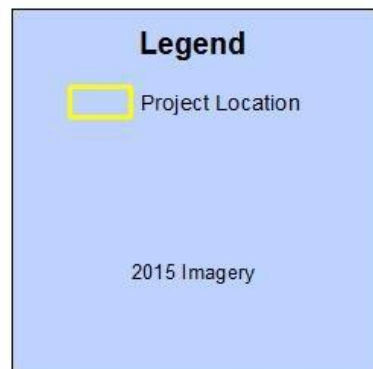
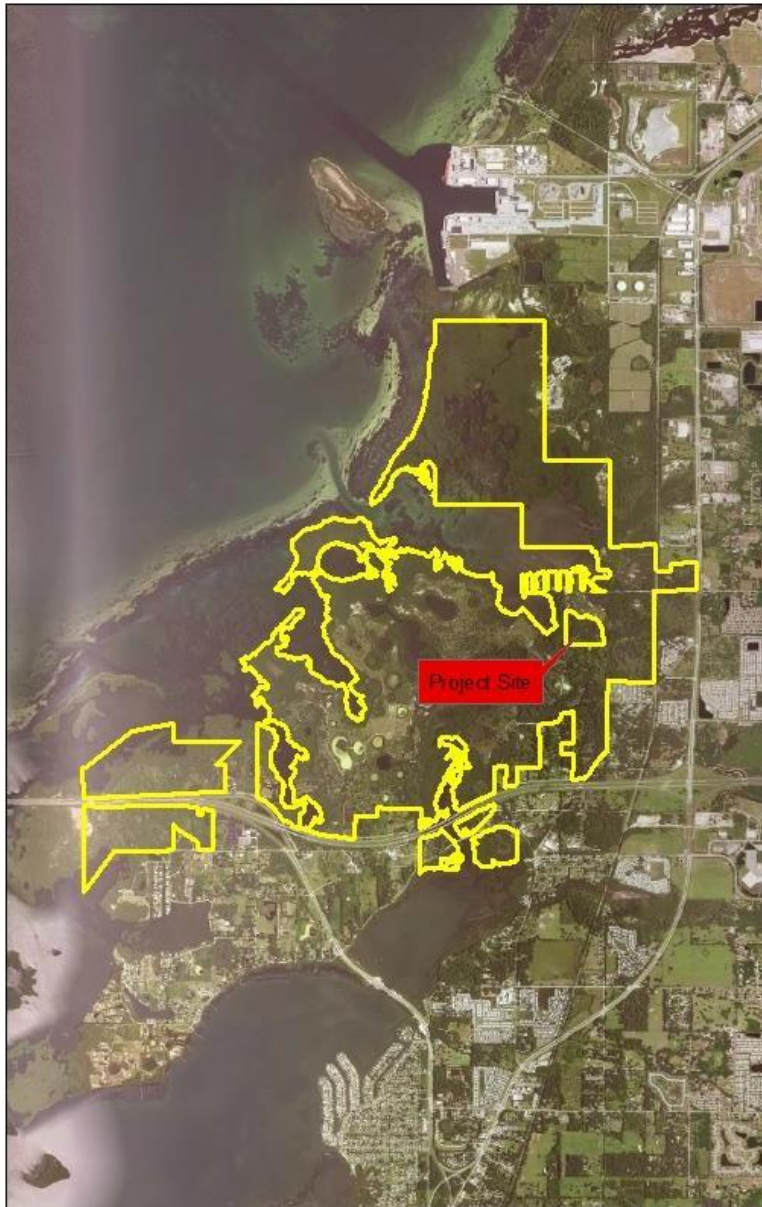
Cost for 2018-19 maintenance: \$15,556.32

Total Cost for FDOT Mitigation Including O&M:\$125,171.25

ATTACHMENTS

1. Figure A-Location
2. Figure B-Pre-construction (2014)
3. Figure C-Post-construction (2014)
4. Photographs (2016)

**SW 50 - Terra Ceia Restoration
Figure A - Location (24/33S/17E)**



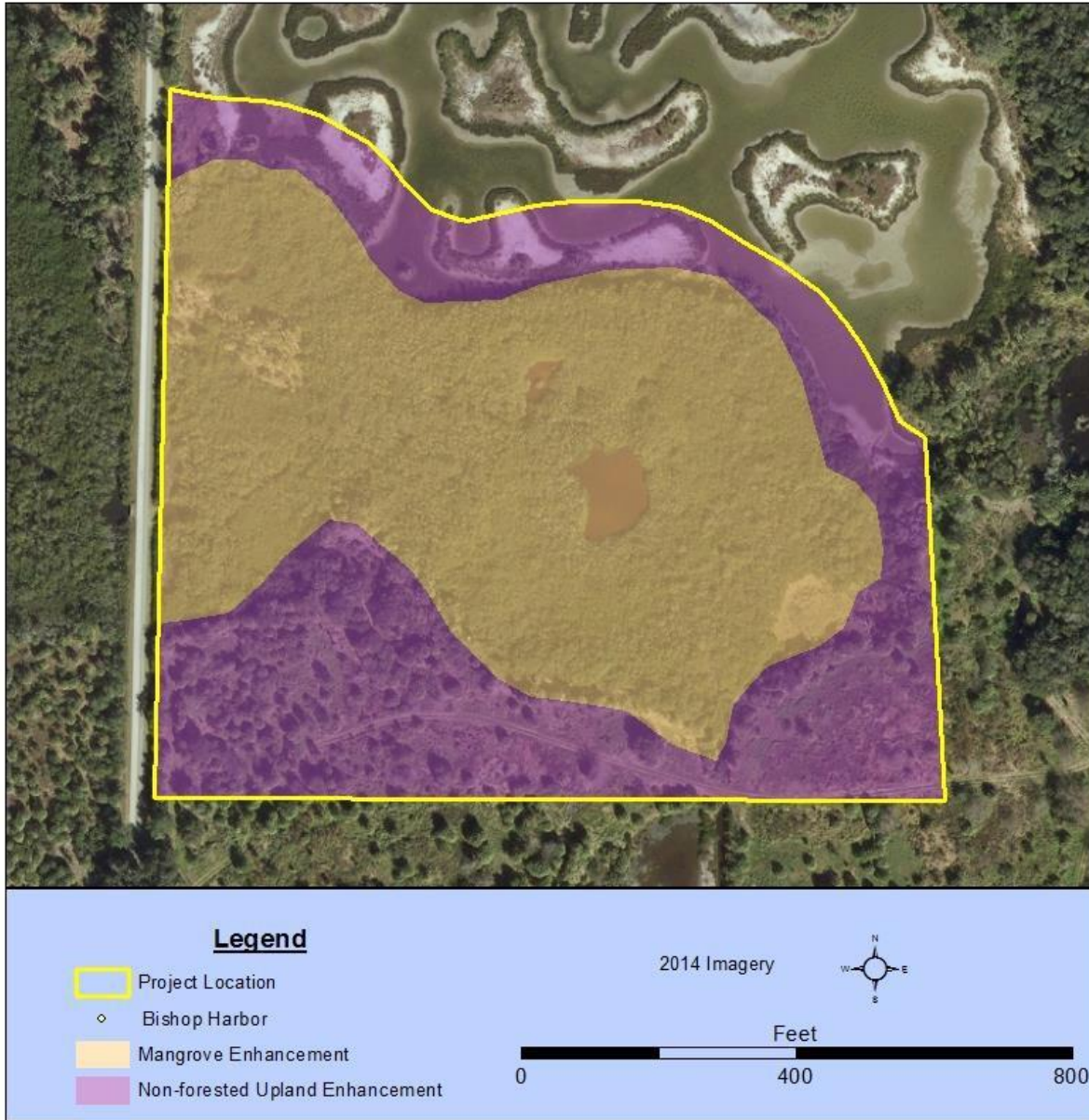
FDOT Mitigation Plan

**SW 50A - Terra Ceia Restoration
Figure B - Pre-Construction (24/33S/17E)**



FDOT Mitigation Plan

**SW 50A - Terra Ceia Restoration
Figure C - Post-Construction (24/33S/17E)**



FDOT Mitigation Plan



Northern section of mangrove enhancement area. (2016)



East area of mangrove enhancement area. (2016)



Northern area of upland enhancement area. (2016)



Eastern area of upland enhancement area. (2016)

SW-55 UPPER HILLSBOROUGH 4 & 5 MITIGATION PLAN

BACKGROUND INFORMATION:

Project Name	Upper Hillsborough 4 & 5	Project Number	SW-55/D009
Project Type	Wetland Enhancement		
Landowner	Southwest Florida Water Management District	Management Entity	Southwest Florida Water Management District
County	Pasco	Watershed	Hillsborough River
Water bodies	Hillsborough River	Water body Designations	None
Project implementation status: (As of December 2018):	Monitoring and Perpetual Management		
Project utilization: (As of December 2018)	Permitted FDOT projects: 1		
	Planned, not yet permitted, FDOT projects: None		
S/T/R:	27,28,29/25S/22E		

IMPACT INFORMATION (As of December 2018):

Watershed	FM #	Project Name	Total Impacts (ac.)	ERP permit #	ACOE Permit #
Hillsborough River	2012081	I-4 - County Line to Memorial Blvd. -Sec. 1	19.10	43011869.009	1995-01846
		Total Impact Acreage:	19.10		

MITIGATION INFORMATION (As of December 2018):

Habitat	Mitigation Type	Watershed	Acreage
Mixed forested and herbaceous wetlands	Enhancement	Hillsborough River	142.65
Herbaceous and forested wetlands	Restoration	Hillsborough River	12.00
		Total:	154.65

PROJECT DESCRIPTION

A. Overall project goals: Prior to restoration, the SWFWMD's Upper Hillsborough property had a large drainage ditch (1.4 miles total) and adjacent elevated berm constructed through and along the perimeter of wetland habitats. The ditch severely diverted groundwater and surface water flow away from adjacent wetlands, discharging the diverted water into the headwater wetland floodplain of the Hillsborough River. The goal was to grade the berm to backfill the ditch, restoring appropriate wetland grade elevations and associated hydrology to enhance existing wetland habitats, while restoring wetlands within the footprint of the berm and ditch.

B. Brief description of pre-construction habitat conditions: The designated project area (320 acres, which includes 154.65 acres of mitigation) included the most northern portion of the SWFWMD's Upper Hillsborough tract, which is also contiguous to thousands of acres of the SWFWMD's Green Swamp Wilderness Preserve (Figure A). The drainage ditch was large (30-40 ft. wide, 5-8 ft. in depth), draining

shallow groundwater associated with the adjacent wetlands. The adjacent berm (15-20 ft. wide, 3-5 ft. above natural grade) was located along the north side of the ditch. The berm diverted surface water away from the historic drainage pattern that contributed to wetlands south of the ditch (Figure B). Approximately 142.65 acres of the enhanced wetlands are cypress and mixed forested systems and some of the restored wetland grades were planted with cypress to aid in restoring 12 acres of marsh and forested wetlands within the footprint of the former ditch/berm. The enhanced wetlands exhibited various signs of stress from decreased water levels such as tree fall, soil loss, upland species encroachment and changes in plant species composition. For example, laurel oak and red maple recruited within the cypress/tupelo-dominated forested wetlands, and nuisance upland species such as pokeweed and dog fennel invaded the forested wetlands and the marshes.

C. Brief description of construction activities and current habitat conditions: The ditches were backfilled from adjacent berm material during the spring and summer of 2001. Hardwood and cypress saplings have also naturally recruited within the restored wetland footprint. Eleven surficial aquifer monitor wells were installed within the proposed wetland enhancement areas during the construction period in Spring 2001, during which time there was no groundwater within six feet of the surface grade elevation at each of the associated wetlands. Since completion of construction, the groundwater and surficial hydrology flow patterns have been restored to historic conditions with appropriate surface water hydroperiods during the rainy seasons. The restored hydrology has resulted in the mortality of nuisance and upland species, allowing for the recruitment and natural regeneration of hardwood species, maidencane, ferns, and other appropriate hydrophytic species within the enhanced and restored wetland areas. Cypress saplings planted in 2001 achieved heights of 25-30 feet by 2009. The restored and enhanced wetland habitats have resulted in an increase in wildlife diversity and access, providing additional foraging and denning opportunities. Exotic vegetation is maintained below 1% coverage within the enhanced and restored wetlands. All success criteria were achieved by 2009 and continues to be met through 2015. Herbicide maintenance to eradicate nuisance and exotic vegetation is conducted as necessary to maintain success criteria. Normal land management activities include periodic prescribed burns within adjacent flatwood habitats.

D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s): The 19.10 acres of wetland impacts associated with the roadway improvements, located in a dense industrial area of western Polk County, were very low-quality systems. Restoration construction within the Upper Hillsborough tract has resulted in large-scale, regional improvements to wetland functions and ecological benefits that adequately compensate for the low-quality wetland impacts. No wetland impacts other than those associated with the construction of the above referenced segment of I-4 in Polk County are designated for mitigation at the Upper Hillsborough 4 & 5 project.

E. Brief explanation of why a mitigation bank was/was not chosen, in whole or in part, including a discussion of cost: No mitigation banks were existing or proposed in the Hillsborough River drainage basin during the selection of mitigation for the I-4 wetland impacts.

F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body: The only SWIM project within the basin at the time of mitigation selection was Lake Thonotosassa (SW 34), which provides mitigation to offset wetland impacts associated with another FDOT project.

PROJECT IMPLEMENTATION

- Planning and Design: 1999
- Construction completion: September 2001
- Monitoring: 2014, 2015, 2016, 2017
- Maintenance: 2014-2017
- Perpetual Management: Ongoing

Entity responsible for construction: SWFWMD

Entity responsible for monitoring and maintenance: SWFWMD

Entity responsible for perpetual management: SWFWMD

Cost for 2018 monitoring: \$8,025.70

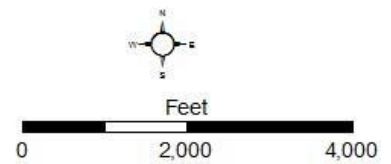
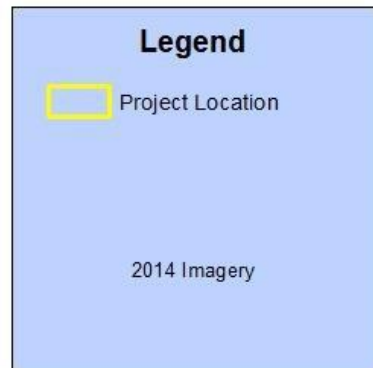
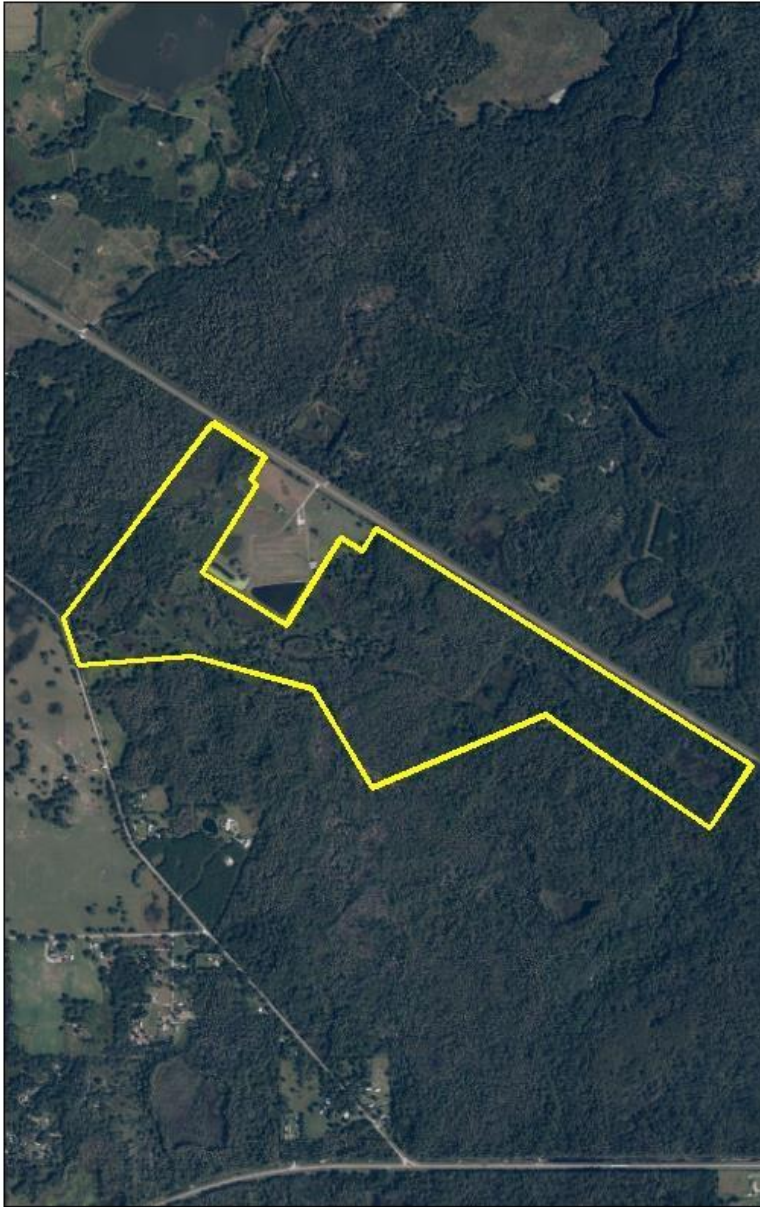
Cost for 2018 maintenance: \$0

Total Cost for FDOT Mitigation Including O&M: \$232,328.42

ATTACHMENTS

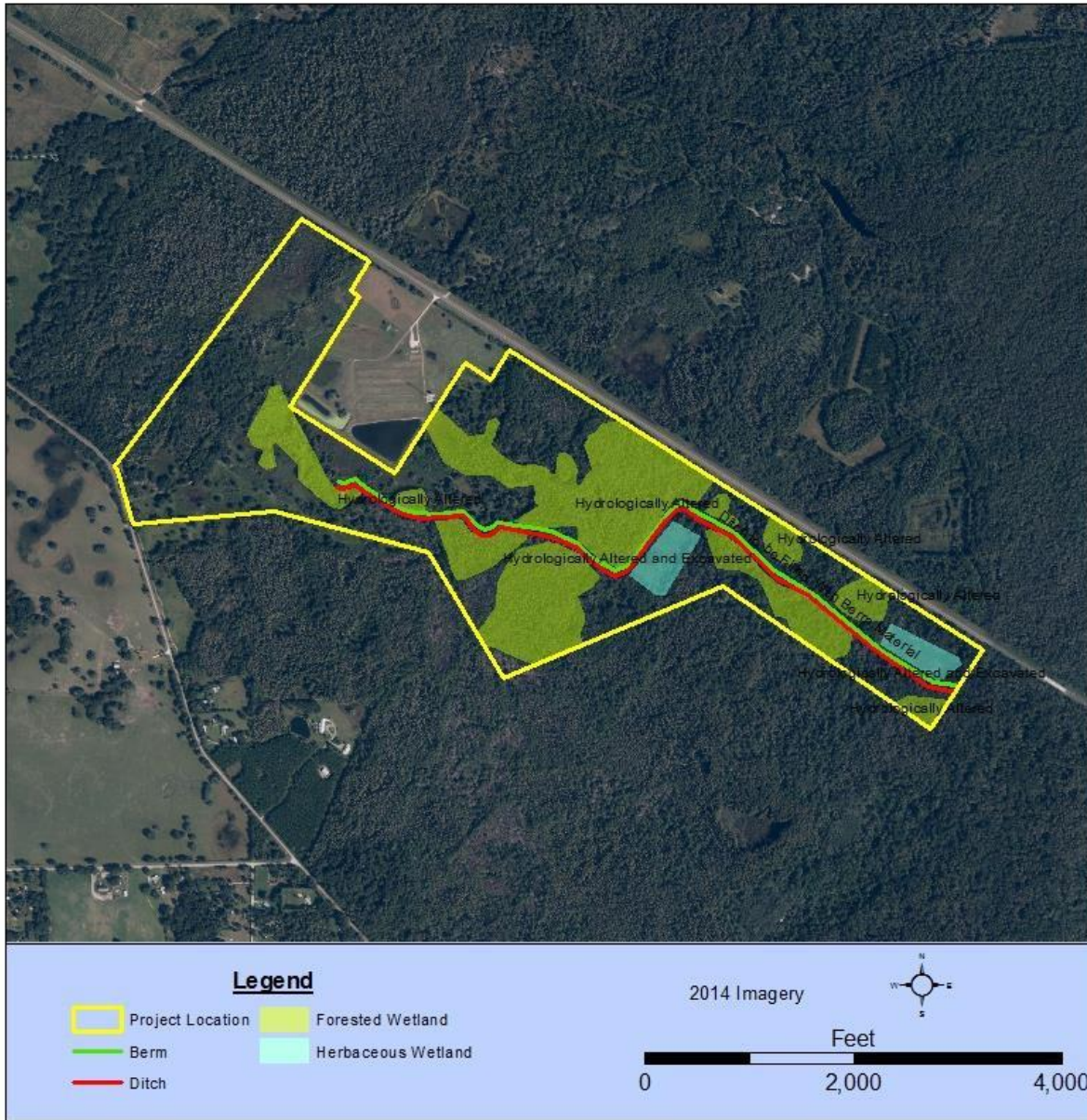
1. Figure A-Location
2. Figure B-Pre-construction (2014)
3. Figure C-Post-construction (2014)
4. Photographs (2017)

SW 55 - Upper Hillsborough 4 & 5
Figure A - Location (27,28,29/25S/22E)



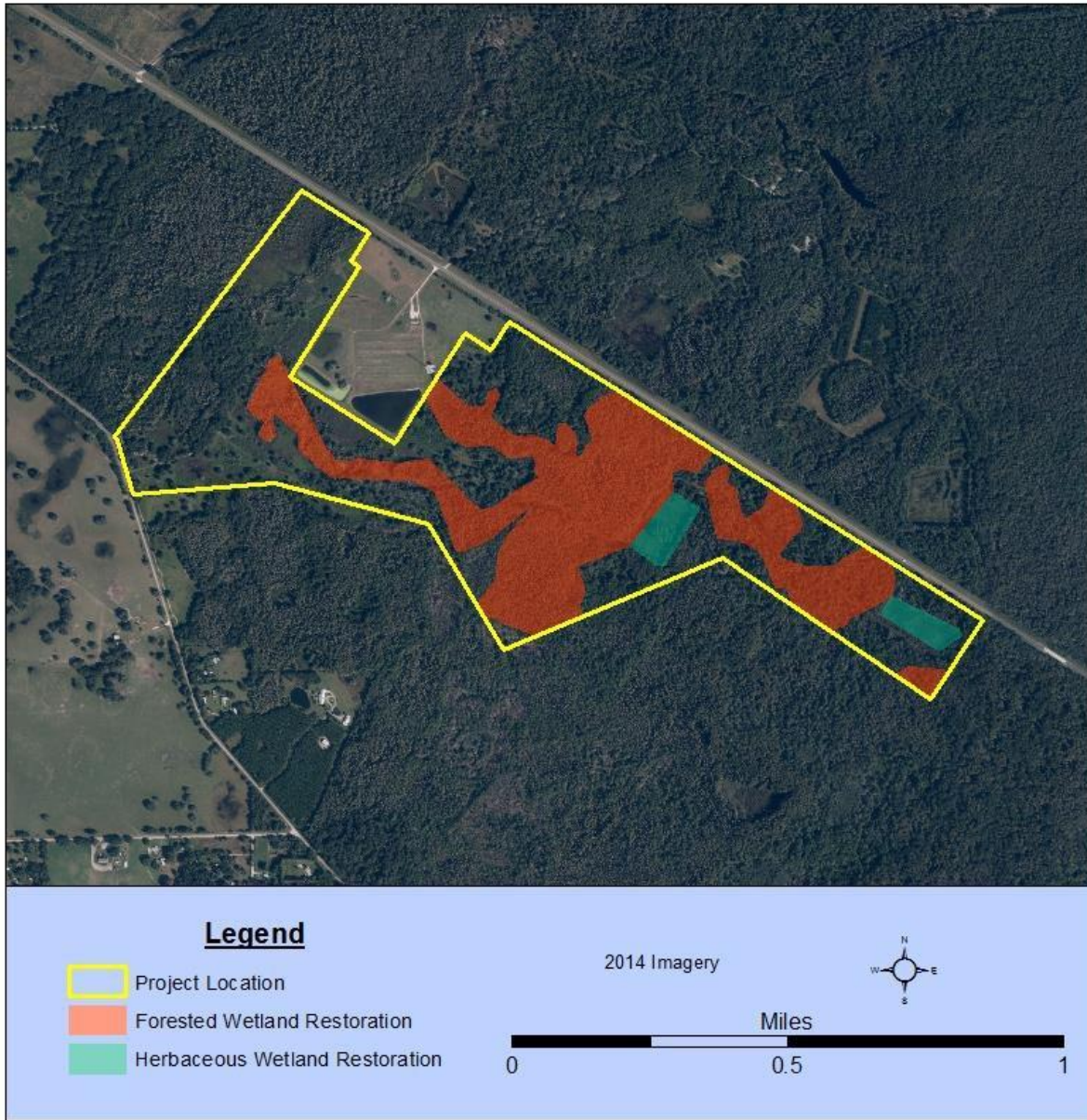
FDOT Mitigation Plan

SW 55 - Upper Hillsborough 4 & 5
Figure B - Pre-Construction (27,28,29/25S/22E)



FDOT Mitigation Plan

SW 55 - Upper Hillsborough 4 & 5
Figure C - Post-Construction (27,28,29/25S/22E)



FDOT Mitigation Plan



View of Herbaceous Wetland between Mixed Forested Wetland



View of the Herbaceous Wetland



View of the Mixed Forested Wetland



View of the Flatwoods



View of the Mixed Forested and Herbaceous Wetlands



View within the Mixed Forested Wetland

Appendix A: FDOT Mitigation Program Statute

2018 Florida Statutes

http://www.leg.state.fl.us/statutes/index.cfm?App_mode=Display_Statute&URL=0300-0399/0373/Sections/0373.4137.html
(as of January 14, 2019)

Title XXVIII NATURAL RESOURCES; CONSERVATION, RECLAMATION, AND USE Chapter 373 WATER RESOURCES

373.4137 Mitigation requirements for specified transportation projects.—

(1) The Legislature finds that environmental mitigation for the impact of transportation projects proposed by the Department of Transportation or a transportation authority established pursuant to chapter 348 or chapter 349 can be more effectively achieved by regional, long-range mitigation planning rather than on a project-by-project basis. It is the intent of the Legislature that mitigation to offset the adverse effects of these transportation projects be funded by the Department of Transportation and be carried out by the use of mitigation banks and any other mitigation options that satisfy state and federal requirements in a manner that promotes efficiency, timeliness in project delivery, and cost-effectiveness.

(2) Environmental impact inventories for transportation projects proposed by the Department of Transportation or a transportation authority established pursuant to chapter 348 or chapter 349 shall be developed as follows:

(a) By July 1 of each year, the Department of Transportation, or a transportation authority established pursuant to chapter 348 or chapter 349 which chooses to participate in the program, shall submit to the water management districts a list of its projects in the adopted work program and an environmental impact inventory of habitat impacts and the anticipated mitigation needed to offset impacts as described in paragraph (b). The environmental impact inventory must be based on the rules adopted pursuant to this part, s. 404 of the Clean Water Act, 33 U.S.C. s. 1344, and the Department of Transportation's plan of construction for transportation projects in the next 3 years of the tentative work program. The Department of Transportation or a transportation authority established pursuant to chapter 348 or chapter 349 may also include in its environmental impact inventory the habitat impacts and the anticipated amount of mitigation needed for any future transportation project. The Department of Transportation and each transportation authority established pursuant to chapter 348 or chapter 349 may fund any mitigation activities for future projects using current year funds.

(b) The environmental impact inventory must include a description of habitat impacts, including location, acreage, and type; the anticipated mitigation needed based on the functional loss as determined through the uniform mitigation assessment method adopted by the Department of Environmental Protection by rule pursuant to s. 373.414(18); identification of the proposed mitigation option; state water quality classification of impacted wetlands and other surface waters; any other state

or regional designations for these habitats; and a list of threatened species, endangered species, and species of special concern affected by the proposed project.

(c) Before projects are identified for inclusion in a water management district mitigation plan as described in subsection (4), the Department of Transportation must consider using credits from a permitted mitigation bank. The Department of Transportation must consider the availability of suitable and sufficient mitigation bank credits within the transportation project's area, the ability to satisfy commitments to regulatory and resource agencies, the availability of suitable and sufficient mitigation purchased or developed under this section, the ability to complete suitable existing water management district or Department of Environmental Protection mitigation sites initiated with Department of Transportation mitigation funds, and the ability to satisfy state and federal requirements, including long-term maintenance and liability.

(3)(a) To implement the mitigation option identified in the environmental impact inventory described in subsection (2), the Department of Transportation may purchase credits for current and future use directly from a mitigation bank, purchase mitigation services through the water management districts or the Department of Environmental Protection, conduct its own mitigation, or use other mitigation options that meet state and federal requirements. Funding for the identified mitigation option as described in the environmental impact inventory must be included in the Department of Transportation's work program developed pursuant to s. 339.135. The amount programmed each year by the Department of Transportation and participating transportation authorities established pursuant to chapter 348 or chapter 349 must correspond to an estimated cost to mitigate for the functional loss identified in the environmental impact inventory described in subsection (2).

(b) Each transportation authority established pursuant to chapter 348 or chapter 349 which chooses to participate in this program shall create an escrow account within its financial structure and deposit funds in the account to pay for the environmental mitigation phase of projects budgeted for the current fiscal year. The escrow account shall be maintained by the authority for the benefit of the water management districts. Any interest earnings from the escrow account must remain with the authority.

(c) For mitigation implemented by the water management district or the Department of Environmental Protection, as appropriate, the amount paid each year must be based on mitigation services provided by the water management districts or the Department of Environmental Protection pursuant to an approved water management district mitigation plan, as described in subsection (4). The water management districts or the Department of Environmental Protection, as appropriate, may request payment no sooner than 30 days before the date the funds are needed to pay for activities associated with development or implementation of permitted mitigation that meets the requirements of this part, 33 U.S.C. s. 1344, and 33 C.F.R. part 332, in the approved water management district mitigation plan described in subsection (4) for the current fiscal year. The projected amount of mitigation shall be

reconciled each quarter with the actual amount of mitigation needed for projects as permitted, including permit modifications, pursuant to this part and s. 404 of the Clean Water Act, 33 U.S.C. s. 1344. The subject year's programming of funds shall be adjusted to reflect the mitigation as permitted. If the water management district excludes a project from an approved water management district mitigation plan, if the water management district cannot timely permit a mitigation site to offset the impacts of a Department of Transportation project identified in the environmental impact inventory, or if the proposed mitigation does not meet state and federal requirements, the Department of Transportation may use the associated funds for the purchase of mitigation bank credits or any other mitigation option that satisfies state and federal requirements. Upon final payment for mitigation of a transportation project as permitted, the obligation of the Department of Transportation or the participating transportation authority is satisfied, and the water management district or the Department of Environmental Protection, as appropriate, has continuing responsibility for the mitigation project.

(d) Beginning with the March 2015 water management district mitigation plans, each water management district or the Department of Environmental Protection, as appropriate, shall invoice the Department of Transportation for mitigation services to offset only the impacts of a Department of Transportation project identified in the environmental impact inventory, including planning, design, construction, maintenance and monitoring, and other costs necessary to meet the requirements of this section, 33 U.S.C. s. 1344, and 33 C.F.R. part 332. If the water management district identifies the use of mitigation bank credits to offset a Department of Transportation impact, the water management district shall exclude that purchase from the mitigation plan, and the Department of Transportation shall purchase the bank credits.

(e) For mitigation activities occurring on existing water management district or Department of Environmental Protection mitigation sites initiated with Department of Transportation mitigation funds before July 1, 2013, the water management district or the Department of Environmental Protection, as appropriate, shall invoice the Department of Transportation or a participating transportation authority at a cost per acre of \$75,000 multiplied by the projected acres of impact as identified in the environmental impact inventory. The cost per acre must be adjusted by the percentage change in the average of the Consumer Price Index issued by the United States Department of Labor for the most recent 12-month period ending September 30, compared to the base year average, which is the average for the 12-month period ending September 30, 1996. When implementing the mitigation activities necessary to offset the permitted impacts as provided in the approved mitigation plan, the water management district shall maintain records of the costs incurred in implementing the mitigation. The records must include, but are not limited to, costs for planning, land acquisition, design, construction, staff support, long-term maintenance and monitoring of the mitigation site, and other costs necessary to meet the requirements of 33 U.S.C. s. 1344 and 33 C.F.R. part 332.

(4) Before March 1 of each year, each water management district shall develop a mitigation plan to offset only the impacts of transportation projects in the environmental impact inventory for which a water management district is implementing mitigation that meets the requirements of this section, 33 U.S.C. s. 1344, and 33 C.F.R. part 332. The water management district mitigation plan must be developed in consultation with the Department of Environmental Protection, the United States Army Corps of Engineers, the Department of Transportation, participating transportation authorities established pursuant to chapter 348 or chapter 349, other appropriate federal, state, and local governments, and other interested parties, including entities operating mitigation banks. In developing such plans, the water management districts shall use sound ecosystem management practices to address significant water resource needs and consider activities of the Department of Environmental Protection and the water management districts, such as surface water improvement and management (SWIM) projects and lands identified for potential acquisition for preservation, restoration, or enhancement, and the control of invasive and exotic plants in wetlands and other surface waters, to the extent that the activities comply with the mitigation requirements adopted under this part, 33 U.S.C. s. 1344, and 33 C.F.R. part 332. The water management district mitigation plan must identify each site where the water management district will mitigate for a transportation project. For each mitigation site, the water management district shall provide the scope of the mitigation services; provide the functional gain as determined through the uniform mitigation assessment method adopted by the Department of Environmental Protection by rule pursuant to s. 373.414(18); describe how the mitigation offsets the impacts of each transportation project as permitted; and provide a schedule for the mitigation services. The water management districts shall maintain records of costs incurred and payments received for providing these services. Records must include, but are not limited to, planning, land acquisition, design, construction, staff support, long-term maintenance and monitoring of the mitigation site, and other costs necessary to meet the requirements of 33 U.S.C. s. 1344 and 33 C.F.R. part 332. To the extent moneys paid to a water management district by the Department of Transportation or a participating transportation authority are greater than the amount spent by the water management districts in providing the mitigation services to offset the permitted transportation project impacts, these moneys must be refunded to the Department of Transportation or participating transportation authority. The mitigation plan shall be submitted to the water management district governing board or its designee for review and approval. At least 14 days before approval by the governing board, the water management district shall provide a copy of the draft mitigation plan to the Department of Environmental Protection and any person who has requested a copy. Subsequent to the governing board approval, the mitigation plan shall be submitted to the Department of Environmental Protection for approval. The plan may not be implemented until it is submitted to, and approved in part or in its entirety by, the Department of Environmental Protection.

(a) Specific projects may be excluded from the mitigation plan, in whole or in part, and are not

subject to this section upon the election of the Department of Transportation, a transportation authority if applicable, or the appropriate water management district. The Department of Transportation or a participating transportation authority may not exclude a transportation project from the mitigation plan if mitigation is scheduled for implementation by the water management district in the current fiscal year unless the transportation project is removed from the Department of Transportation's work program or transportation authority funding plan, the mitigation cannot be timely permitted to offset the impacts of a Department of Transportation project identified in the environmental impact inventory, or the proposed mitigation does not meet state and federal requirements. If a project is removed from the work program or the mitigation plan, costs spent by the water management district before removal are eligible for reimbursement by the Department of Transportation or participating transportation authority.

(b) When determining which projects to include in or exclude from the mitigation plan, the Department of Transportation shall investigate using credits from a permitted mitigation bank before those projects are submitted for inclusion in a water management district mitigation plan. The Department of Transportation shall exclude a project from the mitigation plan if the investigation undertaken pursuant to this paragraph results in the conclusion that the use of credits from a permitted mitigation bank promotes efficiency, timeliness in project delivery, cost-effectiveness, and transfer of liability for success and long-term maintenance.

(5) The water management district shall ensure that mitigation requirements pursuant to 33 U.S.C. s. 1344 and 33 C.F.R. part 332 are met for the impacts identified in the environmental impact inventory for which the water management district will implement mitigation described in subsection (2), by implementation of the approved mitigation plan described in subsection (4) to the extent funding is provided by the Department of Transportation, or a transportation authority established pursuant to chapter 348 or chapter 349, if applicable. In developing and implementing the mitigation plan, the water management district shall comply with federal permitting requirements pursuant to 33 U.S.C. s. 1344 and 33 C.F.R. part 332. During the federal permitting process, the water management district may deviate from the approved mitigation plan in order to comply with federal permitting requirements upon notice and coordination with the Department of Transportation or participating transportation authority.

(6) The water management district mitigation plans shall be updated annually to reflect the most current Department of Transportation work program and project list of a transportation authority established pursuant to chapter 348 or chapter 349, if applicable, and may be amended throughout the year to anticipate schedule changes or additional projects that may arise. Before amending the mitigation plan to include new projects, the Department of Transportation must consider mitigation banks and other available mitigation options that meet state and federal requirements. Each update and amendment of the mitigation plan shall be submitted to the governing board of the water management district or its designee for approval. However, such approval shall not apply to a deviation as described in subsection

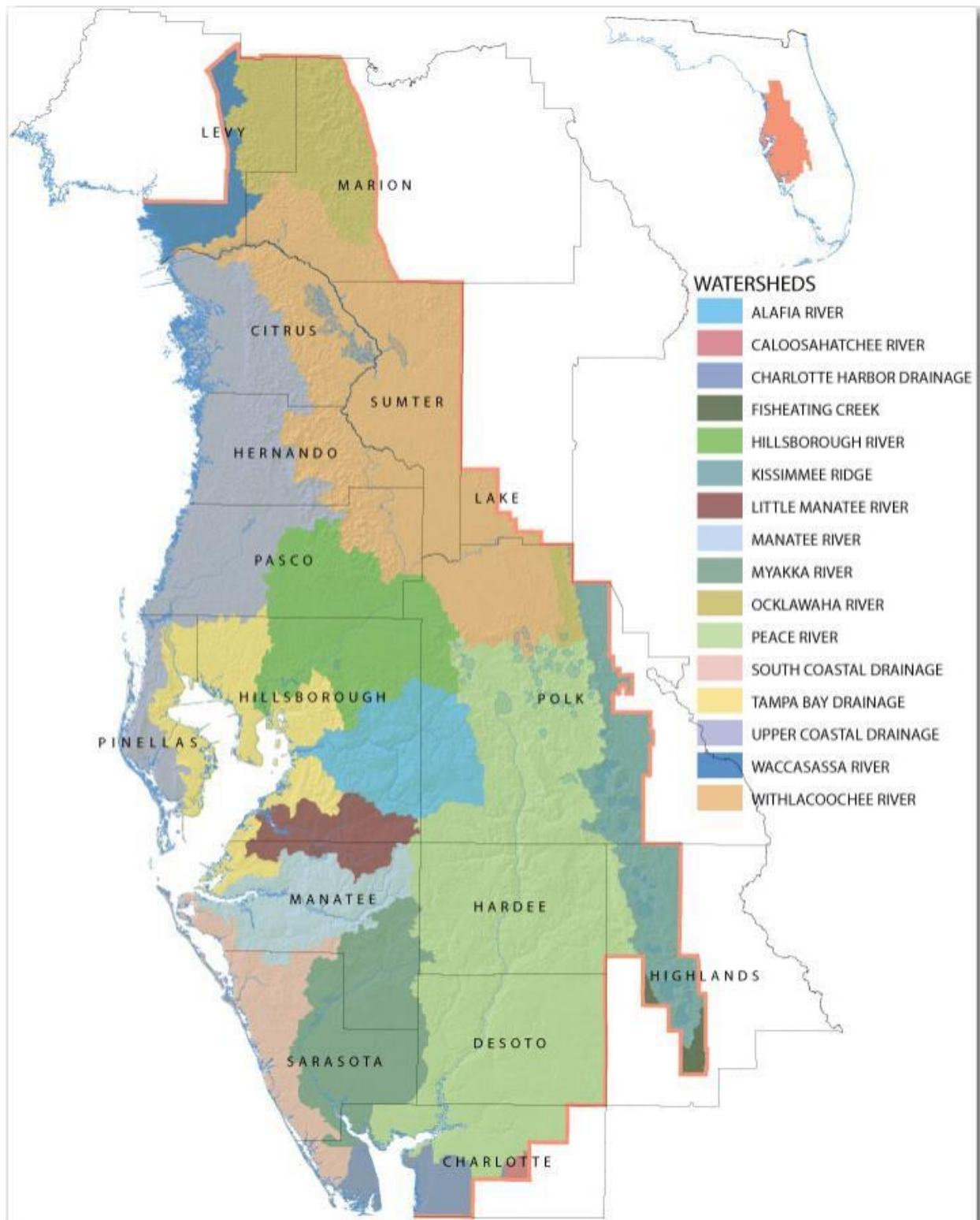
(5).

(7) Upon approval by the governing board of the water management district and the Department of Environmental Protection, the mitigation plan shall satisfy the mitigation requirements under this part for impacts specifically identified in the environmental impact inventory described in subsection (2) and any other mitigation requirements imposed by local, regional, and state agencies for these same impacts. The approval of the governing board of the water management district and the Department of Environmental Protection authorizes the activities proposed in the mitigation plan, and no other state, regional, or local permit or approval is necessary.

(8) This section does not eliminate the need for the Department of Transportation or a transportation authority established pursuant to chapter 348 or chapter 349 to comply with the requirement to implement practicable design modifications, including realignment of transportation projects, to reduce or eliminate the impacts of its transportation projects on wetlands and other surface waters as required by rules adopted pursuant to this part, or to diminish the authority under this part to regulate other impacts, including water quantity or water quality impacts, or impacts regulated under this part which are not identified in the environmental impact inventory described in subsection (2).

History.—s. 1, ch. 96-238; s. 36, ch. 99-385; s. 1, ch. 2000-261; s. 93, ch. 2002-20; s. 39, ch. 2004-269; s. 30, ch. 2005-71; s. 12, ch. 2005-281; s. 1, ch. 2009-11; s. 3, ch. 2012-174; s. 22, ch. 2014-223; s. 5, ch. 2016-11.

Appendix B: ERP Watersheds in the SWFWMD



Appendix C: FDOT Wetland Impact Inventory

FDOT Wetland Impact Inventory
APPENDIX C: 2019 Inventory of FDOT Road Improvement Projects

				Deleted Projects				changes from last year					
				New Projects									
Unique Record?	Mit. PlanYear	FDOT District	County	Drainage Basin	FM No.	Project Description	FDOT Project Status	Project Status Year	Delete/ Renew Reason	Total Impacted Acreage	Total Impacted FL	Mitigation Project Name	Mitigation Project ID
Yes	1998	1	Charlotte	Peace River	1937911	US 17 (SR 35) CR 74 to CR 764 North	Permitted			0.27	0.00	Boran Ranch Mit. Bank	53
No	1997	1	Charlotte	Myakka River	1937941	SR 776 CR 771 to Willow Bend Rd.	Permitted			2.08	0.00	Little Pine Island Mit. Bank	52
No	1997	1	Charlotte	Myakka River	1937941	SR 776 CR 771 to Willow Bend Rd.	Permitted			8.83	0.00	Cattle Dock	31
Yes	1999	1	Charlotte	Peace River	1937981	US 17 (SR35) CR 764 South to CR 764 North	Permitted			0.27	0.00	Boran Ranch Mit. Bank	53
Yes	1997	1	Desoto	Peace River	1938851	SR 72 Sarasota Co. Line to SR 70	Permitted			1.19	0.00	Boran Ranch Mit. Bank	53
Yes	2001	1	Polk	Peace River	1938991	US 17 Livingston to Hardee County Line	Permitted			11.59	0.00	Circle B Bar Reserve	66
Yes	2000	1	Hardee	Peace River	1940931	US 17 (SR 35) Peace River to Tropicana Rd.	Permitted			4.42	0.00	Circle B Bar Reserve	66
Yes	1997	1	Hardee	Peace River	1941021	US 17 (SR 35) SR 64 to Peace River Bridge	Permitted			2.30	0.00	Boran Ranch Mit. Bank	53
Yes	1997	1	Highlands	Kissimmee Ridge	1945101	US 27 Lake Glenada to Hal McRae	Permitted			0.39	0.00	Reedy Ck. Mit. Bank	49
Yes	2001	1	Manatee	Manatee River	1960222	SR 64 (Seg. 1) I-75 to Lena Rd.	Permitted			2.81	0.00	Rutland Ranch	65
Yes	2002	1	Manatee	Manatee River	1960223	SR 64 (Seg. 2) Lena Rd. to Lakewood Ranch Rd.	Permitted			0.84	0.00	Rutland Ranch	65
Yes	2002	1	Manatee	Manatee River	1960224	SR 64 Lakewood Ranch Rd. to Lorraine Rd.	Permitted			4.06	1.65	Hidden Harbour	80
Yes	1998	1	Manatee	Tampa Bay Drainage	1960581	US 301 (Ellenton) 60th Ave. to Erie Rd.	Permitted			1.42	0.00	Terra Ceia	50

Unique Record?	Mit. Plan Year	FDOT District	County	Drainage Basin	FM No.	Project Description	FDOT Project Status	Project Status Year	Delete/ Renew Reason	Total Impacted Acreage	Total Impacted FL	Mitigation Project Name	Mitigation Project ID
Yes	2002	1	Manatee	Manatee River	1961211	SR 70 (Seg. 1) I-75 to Lakewood Ranch Rd.	Permitted			1.40	0.00	Rutland Ranch	65
Yes	2001	1	Polk	Peace River	1971681	SR 60A (Van Fleet Dr.) CR 555 to Broadway Ave.	Permitted			0.46	0.00	Circle B Bar Reserve	66
Yes	1997	1	Polk	Peace River	1974711	SR 540 (Cypress Gardens) 9th Street to Overlook	Permitted			0.41	0.00	Tenoroc/Saddle Creek	47
Yes	1997	1	Polk	Peace River	1974751	SR 540 (Cypress Gardens) Thornhill Rd. to Recker Hwy.	Permitted			5.52	0.00	Tenoroc/Saddle Creek	47
Yes	2000	1	Polk	Peace River	1975331	US 27 Towerview Rd. to SR 540	Permitted			3.90	0.00	Circle B Bar Reserve	66
Yes	2002	1	Polk	Peace River	1976381	US 98 - Carpenter's Way to Daugherty Road	Permitted			0.35	0.00	Circle B Bar Reserve	66
No	2003	1	Polk	Ocklawaha River	1976791	US 27 SR 544 to Blue Heron Bay	Permitted			0.46	0.00	Lake Lowery	76
No	2001	1	Polk	Peace River	1976791	US 27 SR 544 to Blue Heron Bay	Permitted			1.50	1.05	Circle B Bar Reserve	66
Yes	2010	1	Polk	Peace River	1977014	SR 559 Extension SR 655 (Recker Hwy) to Derby Ave.	Permitted			0.48	0.16	Circle B Bar Reserve	66
Yes	2003	1	Polk	Peace River	1977051	US 27 SR 60 to Towerview Blvd.	Permitted			0.19	0.19	Circle B Bar Reserve	66
Yes	2002	1	Polk	Peace River	1977061	US 27 SR 540 to SR 542	Permitted			3.94	1.81	Circle B Bar Reserve	66
Yes	2002	1	Polk	Peace River	1977071	US 27 SR 542 to CR 546	Permitted			0.55	0.00	Circle B Bar Reserve	66
Yes	1998	1	Sarasota	Myakka River	1979251	SR 72 Big Slough to DeSoto C/L	Permitted			1.49	0.00	Myakka River State Park	51

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Yes	1997	1	Sarasota	South Coastal Drainage	1979421	SR 789 Ringling Causeway Blvd.	Permitted			0.27	0.27	Coquina Seagrass	
Yes	1997	1	Sarasota	South Coastal Drainage	1980051	US 41 Bus. (SR 45) Venice Ave. to US 41 Bypass	Permitted			0.32	0.32	Curry Creek ROMA	88
Yes	1998	1	Sarasota	Myakka River	1980131	SR 72 Deer Prairie to Big Slough	Permitted			0.86	0.00	Myakka River State Park	51
Yes	1998	1	Charlotte	Peace River	1984711	Trabue Harborwalk Bike Path	Permitted			0.16	0.00	Little Pine Island Mit. Bank	52
Yes	1998	1	Hardee	Peace River	1986371	Ft. Green/Ona (Seg. 2) Vandola to North of Vandolah Rd.	Permitted			4.27	0.77	Boran Ranch Mit. Bank	53
Yes	1998	1	Hardee	Peace River	1986381	Ft. Green/Ona (Seg. 3) SR 64 to Vandolah Rd.	Permitted			5.23	0.00	Boran Ranch Mit. Bank	53
Yes	1997	1	Hardee	Peace River	1986401	Ft. Green/Ona Road (Seg. 1) Vandolah to SR 62	Permitted			2.08	0.00	Boran Ranch Mit. Bank	53
Yes	2014	1	Manatee	Manatee River	2010322	I-75 at SR 70 Interchange	Deleted	2014	Mitigation by FDOT	9.45	5.67		
Yes	2014	1	Manatee	Manatee River	2010324	I-75 at University Pkwy - Manatee	Deleted	2014	Mitigation by FDOT	1.30	0.58		
Yes	2014	1	Manatee	Manatee River	2010325	I-75 at US 301	Deleted	2014	Mitigation by FDOT	3.00	2.37		
Yes	2014	1	Manatee	Manatee River	2010326	I-75 at SR 64	Deleted	2014	Mitigation by FDOT	0.50	0.30	Hidden Harbour	80
No	2003	1	Polk	Ocklawaha River	2012041	I-4 East of CR 557 to Osceola County (Sec. 6-7,9)	Permitted			4.28	0.00	Lake Lowery	76
No	1998	1	Polk	Withlacoochee River	2012041	I-4 East of CR 557 to Osceola County (Sec. 6-7,9)	Permitted			3.86	0.00	Hampton Tract	59
Yes	2001	1	Polk	Kissimmee Ridge	2012041	I-4, East of CR 557 to Osceola County (Sec. 6-7,9)	Permitted			2.35	0.00	Reedy Ck. Mit. Bank	49
Yes	1996	1	Polk	Hillsborough River	2012081	I-4 - County Line to Memorial Blvd. -Sec. 1	Permitted			19.10	0.00	U.H. 4&5	55
No	1998	1	Polk	Withlacoochee River	2012092	I-4 East of US 98 to East of CR 557 (Sec. 3-5)	Permitted			18.69	0.00	Hampton Tract	59
No	1996	1	Polk	Peace River	2012092	I-4, East of US 98 to East of CR 557 (Sec. 3-5)	Permitted			1.36	0.00	Tenoroc/Saddle Creek	47
Yes	1998	1	Polk	Hillsborough River	2012171	I-4 West of Memorial Blvd. to west of US 98 - Sec. 2	Permitted			3.09	0.00	Jennings Tract	61

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Yes	1997	5	Marion	Ocklawaha River	2386411	US 27 Levy Co. Line to SR 326	Permitted			2.37	0.00	Ledwith Prairie	58
Yes	1997	5	Marion	Ocklawaha River	2386791	US 27 SR 326 to CR 225a	Permitted			1.09	0.00	Ledwith Prairie	58
Yes	2001	5	Marion	Ocklawaha River	2387191	SR 40 CR 328 to SW 80th	Permitted			0.08	0.00	Ledwith Prairie	58
Yes	2007	5	Sumter	Withlacoochee River	2426262	I-75 Hernando Co. Line to SR 470	Deleted	2013	Combined	0.00	0.00	NA	
No	2007	5	Sumter	Withlacoochee River	2426263	I-75 Hernando Co. Line to Florida Turnpike	Permitted			2.18	0.90	Colt Creek State Park	84
No	2007	5	Sumter	Withlacoochee River	2426263	I-75 Hernando Co. Line to Florida Turnpike	Deleted	2017	to bank	4.78	2.85	Green Swamp MB	
No	2007	5	Sumter	Withlacoochee River	2426263	I-75 Hernando Co. Line to Florida Turnpike	Deleted	2017	to bank	0.78	0.33	Withlacoochee MB	
Yes	1999	7	Hillsborough	Hillsborough River	2555361	SR 39, Blackwater Creek Bridge Replacement	Permitted			2.14	0.00	Jennings Tract	61
Yes	2002	7	Hillsborough	Hillsborough River	2555851	SR 39 (Alexander St) I-4 to Knights Griffin Rd.	Permitted			14.20	9.39	Colt Creek State Park	84
No	2002	7	Hillsborough	Tampa Bay Drainage	2555991	SR 676 (Causeway Blvd.) US 301 to US 41	Permitted			0.27	0.00	Boyd Hill Nature Preserve	71
No	2002	7	Hillsborough	Tampa Bay Drainage	2555991	SR 676 (Causeway Blvd.) US 301 to US 41	Permitted			1.08	0.00	Cockroach Bay (Fresh)	56
Yes	2000	7	Hillsborough	Tampa Bay Drainage	2556301	SR 60 Courtney Campbell to Fish Creek	Permitted			12.20	0.00	Gateway Tract	45
No	2000	7	Hillsborough	Tampa Bay Drainage	2557031	SR 60 Cypress St. to Fish Creek	Permitted			5.00	0.00	Cockroach Bay (Salt)	75
No	2000	7	Hillsborough	Tampa Bay Drainage	2557031	SR 60 Cypress St. to Fish Creek	Permitted			0.90	0.00	Cockroach Bay (Fresh)	56
No	2000	7	Hillsborough	Tampa Bay Drainage	2557031	SR 60 Cypress St. to Fish Creek	Permitted			6.80	0.00	Apollo Beach	67
No	2000	7	Hillsborough	Tampa Bay Drainage	2557031	SR 60 Cypress St. to Fish Creek	Permitted			3.30	0.00	Tappan Tract	62

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Yes	2015	7	Hillsborough	Hillsborough River	2557092	US 92 (SR 600) FROM KINGSWAY RD TO MCINTOSH RD	Deleted	2017	Dropped	0.00	0.00		
Yes	2015	7	Hillsborough	Hillsborough River	2557102	US 92 (SR 600) FROM MCINTOSH RD TO SR 566 (THONOTOSASSA)	Deleted	2017	Dropped	0.00	0.00		

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Yes	1997	7	Hillsborough	Tampa Bay Drainage	2557341	SR 676 Maritime Blvd. to SR 60	Permitted			1.50	0.00	Gateway Tract	45
Yes	2016	7	Hillsborough	Hillsborough River	2557962	US 301 FROM FOWLER AVE TO FUTURE SR 56	Deleted	2017	NO MORE CREDITS IN THIS BASIN - NEED TO GO TO BANK	21.00	12.70	Hillsborough River Mitigation Bank	
Yes	2000	7	Hillsborough	Hillsborough River	2558591	SR 678 (Bearss Ave.) Florida Ave. to Nebraska	Permitted			0.06	0.00	Jennings Tract	61
No	2001	7	Hillsborough	Tampa Bay Drainage	2558881	US 301 Sligh Ave. to Tampa Bypass Canal	Permitted			9.26	0.00	Boyd Hill Nature Preserve	71
No	2001	7	Hillsborough	Tampa Bay Drainage	2558881	US 301 Sligh Ave. to Tampa Bypass Canal	Permitted			2.77	0.00	Cockroach Bay (Fresh)	56
Yes	2014	7	Hillsborough	Hillsborough River	2558934	SR 574 (MLK BLVD) FROM EAST OF KINGSWAY RD TO E OF MCINTOSH RD	Deleted	2017	To bank	0.44	0.13	Bank	NA
Yes	2007	7	Hillsborough	Tampa Bay Drainage	2558935	SR 574 (MLK) @ I-75	Permitted			0.21	0.08	Brooker Ck. Buffer Preserve	90
Yes	2006	7	Pasco	Hillsborough River	2562432	SR 52 (SCHRADER HWY) FROM CR 581 (BELLAMY BRO) TO OLD PASCO RD	Permitted	2015		2.50	1.68	Conner Preserve	77
Yes	1997	7	Pasco	Hillsborough River	2563151	US 41 Bell Lake to Tower Road	Permitted			0.55	0.50	Hills. River Corridor	63
Yes	1997	7	Pasco	Hillsborough River	2563151	US 41 Bell Lake to Tower Road	Permitted			1.08	0.97	Conner Preserve	77
Yes	2002	7	Pasco	Upper Coastal Drainage	2563161	SR 52 Hicks to Moon Lake Rd.	Permitted			1.57	0.00	Serenova - Sites 2,3,4,8	74
Yes	2000	7	Pasco	Upper Coastal Drainage	2563221	SR 52 Moon Lake to Suncoast Parkway	Permitted			6.54	5.23	Conner Preserve	77
Yes	2004	7	Pasco	Upper Coastal Drainage	2563231	SR 52 (SCHRADER HWY) FROM W OF SUNCOAST PKWY TO E OF US 41 (SR 45)	Deleted	2019	Mitigation Bank	18.10	11.44	bank	
Yes	2003	7	Pasco	Upper Coastal Drainage	2563241	US 41 (SR 45) Tower Rd. to Ridge Road	Permitted			8.85	6.00	Conner Preserve	77
No	2007	7	Pasco	Upper Coastal Drainage	2563242	US 41 (SR 45) From N of Connerton Blvd to S of SR 52		2017	MITIGATION BANK	7.56	4.41	BANK	

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No	2007	7	Pasco	Upper Coastal Drainage	2563242	US 41: from Ridge Rd to N of SR 52	Deleted	2017	MITIGATION BANK	7.44	4.34	BANK	
No	2007	7	Pasco	Upper Coastal Drainage	2563242	US 41: from Ridge Rd to N of SR 52	Deleted	2015	Mitigation Bank	0.12	0.07	Upper Coastal Mitigation Bank	
Yes	2001	7	Pasco	Upper Coastal Drainage	2563321	SR 54 - Rowan Rd. to Mitchell Bypass	Permitted			3.68	2.75	Conner Preserve	77
No	2007	7	Pasco	Hillsborough River	2563341	SR 52 (SCHRADER HWY)US 41 to CR 581	Deleted	2017	mitigation bank	7.41	5.19	bank	
No	2007	7	Pasco	Upper Coastal Drainage	2563341	SR 52 (SCHRADER HWY)US 41 to CR 581	Deleted	2017	Mitigation Bank	18.00	12.34	bank	
Yes	1997	7	Pasco	Upper Coastal Drainage	2563361	SR 54 Mitchell to Gunn	Permitted			6.60	0.00	Anclote Parcel	54
Yes	2004	7	Pasco	Upper Coastal Drainage	2563371	SR 54 - Gunn Highway to Suncoast Parkway	Permitted			6.00	3.20	Conner Preserve	77
Yes	1998	7	Pasco	Upper Coastal Drainage	2563391	SR 54 N. Suncoast to US 41	Permitted			7.00	0.00	Anclote Parcel	54
Yes	1997	7	Pasco	Hillsborough River	2563431	SR 54 US 41 to Cypress Creek	Permitted			16.82	0.00	Lk. Thonotasassa	34
No	2006	7	Pasco	Hillsborough River	2564222	US 301 (SR 41) SR 39 to South of CR 54	Deleted	2015	No mitigation required	0.10	0.03	NA	
no	2015	7	Pasco	Hillsborough River	2564222	US 301 (SR41/GALL) FROM SR 39 TO S OR CR 54	Deleted	2015	Dropped	1.00	0.25	Dropped	
Yes	2007	7	Pinellas	Upper Coastal Drainage	2567742	US 19 from N of SR 580 to Northside	Deleted	2015	replaced by FM 2567743	0.50	0.35	NA	
Yes	2007	7	Pinellas	Upper Coastal Drainage	2567743	US 19 FROM N OF SR 580 TO CR 95	Deleted	2016	no mit reqd	0.00	0.00	NA	
Yes	2001	7	Pinellas	Upper Coastal Drainage	2568151	SR 586 (Curlew Rd.) CR 1 to Fisher Road	Permitted			0.08	0.06	Conner Preserve	77
Yes	2004	7	Pinellas	Tampa Bay Drainage	2568811	US 19 (SR 55) Whitney Rd. to Seville Dr.	Permitted			0.53	0.29	Bahia Beach	78
Yes	2003	7	Pinellas	Tampa Bay Drainage	2568812	US 19 (SR 55) Seville Dr. to SR 60	Permitted			0.19	0.00	Cockroach Bay (Fresh)	56
Yes	2000	7	Pinellas	Tampa Bay Drainage	2568881	US 19 Coachman Rd. to Sunset Rd.	Permitted			0.40	0.32	bahia beach	78
Yes	2002	7	Pinellas	Upper Coastal Drainage	2569031	SR 682 (Bayway Bridge) SR 679 to W. Toll Plaza	Permitted			0.65	0.00	Ft. DeSoto Park	70

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Yes	1998	7	Pinellas	Tampa Bay Drainage	2569051	SR 679 (Bayway) Bunces Pass Bridge # 150	Permitted			0.60	0.00	Gateway Tract	45
Yes	2002	7	Pinellas	Tampa Bay Drainage	2569311	Gandy Blvd. (SR 694) US 19 to 4th St.	Deleted	2013	Application date	0.60	0.00	NA	
No	2006	7	Pinellas	Tampa Bay Drainage	2569312	Gandy Blvd. (SR 694) 9th Street to 4th Street North	Permitted			0.33	0.17	Mobbly Bayou	86
No	2006	7	Pinellas	Tampa Bay Drainage	2569312	Gandy Blvd. (SR 694) 9th Street to 4th Street North	Permitted			2.98	0.80	bahia beach	78
No	2017	7	Pinellas	Upper Coastal Drainage	2569314	SR 694 (GANDY BLVD) FROM 40TH ST N TO E OF I-275	NEW/DELETE	2017		1.00	0.70	??	
No	2017	7	Pinellas	Upper Coastal Drainage	2569314	SR 694 (GANDY BLVD) FROM 40TH ST N TO E OF I-275	NEW/DELETE	2017	to bank	1.00	0.55	bank	
Yes	1997	7	Pinellas	Tampa Bay Drainage	2569571	US 19 SR 60 (Drew St.) to Railroad Crossing	Permitted			1.33	0.00	Cockroach Bay (Fresh)	56
Yes	2002	7	Pinellas	Tampa Bay Drainage	2569941	CR 296 Connector 40th St. to 28th St.	Permitted			1.02	0.00	Cockroach Bay (Fresh)	56
Yes	2004	7	Pinellas	Tampa Bay Drainage	2569942	CR 296 Connector NB I-275 (Ramp P) to WB SR 686	Permitted			1.11	2.60	Bahia Beach	78
Yes	2003	7	Pinellas	Tampa Bay Drainage	2569951	43RD ST N EXTENSION FROM CR 296 (118TH AVE N) TO 40TH STREET N	Deleted	2015	Mitigation Bank	2.05	0.62	Tampa Bay Mitigation Bank	
Yes	2003	7	Pinellas	Tampa Bay Drainage	2569952	43RD ST N EXTENSION FROM CR 296 (118TH AVE N) TO 40TH STREET N	Deleted	2014	Mitigation Bank	0.72	0.53	Tampa Bay Mitigation Bank	
Yes	2003	7	Pinellas	Tampa Bay Drainage	2569953	SR 688/ULMERTON RD FM E OF 49TH STREET TO W OF 38TH STREET NORTH	Deleted	2013	Mitigation Bank	14.23	6.87	Tampa Bay Mitigation Bank	
No	2004	7	Pinellas	Tampa Bay Drainage	2569961	SR 686 AT CR 611 (49TH ST)	Deleted	2017	MITIGATION BANK	0.31	0.10	bank	
No	2004	7	Pinellas	Tampa Bay Drainage	2569961	SR 686 AT CR 611 (49TH ST)	Deleted	2015	Mitigation Bank	0.00	0.00	NONE	
Yes	2004	7	Pinellas	Tampa Bay Drainage	2569971	SR 686 (ROOSEVELT) FROM 49TH ST BRIDGE TO N OF ULMERTON RD	Deleted	2014	Mitigation Bank	2.29	0.68	Tampa Bay Mitigation Bank	
Yes	2002	7	Pinellas	Tampa Bay Drainage	2569981	SR 686 FROM W OF I-275 TO W OF 9TH ST N	Deleted	2016	Mitigation Bank	2.80	1.96	Tampa Bay Mitigation Bank	
Yes	2000	7	Pinellas	Upper Coastal Drainage	2570501	SR 688 (Ulmerton Rd.) Oakhurst Rd. to 119th St.	Permitted			0.23	0.06	Conner Preserve	77
No	2002	7	Pinellas	Tampa Bay Drainage	2570701	US 19 (SR 55) 49th St. to 118th Avenue	Permitted			0.02	0.00	Cockroach saltwater	56

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No	2002	7	Pinellas	Tampa Bay Drainage	2570701	US 19 (SR 55) 49th St. to 118th Avenue	Permitted			0.02	0.00	Boyd Hill Nature Preserve	71
Yes	2003	7	Pinellas	Upper Coastal Drainage	2570831	SR 699 (Gulf Blvd.) - 192nd Ave. to Walsingham/Ulmerton Rd.	Permitted			0.11	0.00	Ft. DeSoto Park	70
No	2015	7	Pinellas	Tampa Bay Drainage	2570861	SR 694 (GANDY BLVD) FROM EAST US19 (SR55) TO E OF I-275 (SR93)	Deleted	2017		12.67	8.20	bank	
No	2015	7	Pinellas	Tampa Bay Drainage	2570861	SR 694 (GANDY BLVD) FROM EAST US19 (SR55) TO E OF I-275 (SR93)	Deleted	2015	no more forested available in program	1.98	1.66	Unassigned	
No	2014	7	Pinellas	Tampa Bay Drainage	2570861	SR 694 (GANDY BLVD) FROM EAST US19 (SR55) TO E OF I-275 (SR93)	Deleted	2014	Mitigation Bank	7.61	4.36	Tampa Bay Mitigation Bank	
Yes	2000	7	Pinellas	Upper Coastal Drainage	2570931	SR 60, Clearwater Harbor Bridge Replacement	Permitted			1.50	0.00	Gateway Tract	45
Yes	2001	7	Pinellas	Tampa Bay Drainage	2571391	SR 688 (Ulmerton Rd.), US 19 to 49th Street	Permitted			0.10	0.00	Cockroach Bay (Salt)	75
Yes	2007	7	Pinellas	Tampa Bay Drainage	2571471	SR 688 (Ulmerton Rd.) 38th to I-275	Deleted	2013	Mitigation Bank	0.70	0.00	Tampa Bay Mitigation Bank	
Yes	1998	7	Citrus	Withlacoochee River	2571631	SR 44 US 41 to CR 470	Permitted			7.92	0.00	Withlacoochee S.F. - Baird	64
Yes	1998	7	Citrus	Withlacoochee River	2571641	SR 44 CR 470 to Withlacoochee River	Permitted			13.23	0.00	Withlacoochee S.F. - Baird	64
Yes	2002	7	Citrus	Withlacoochee River	2571651	US 41 from SR 44 to SR 200	Deleted	2017	Dropped	0.00	0.00		
Yes	2000	7	Hernando	Upper Coastal Drainage	2571741	US 98 Hernando Co. Line to US 19	Permitted			1.42	0.82	Conner Preserve	77
Yes	2001	7	Citrus	Withlacoochee River	2571841	US 41 (SR 45) Watson St. to SR 44 East	Permitted			0.06	0.00	Withlacoochee S.F. - Baird	64
Yes	2003	7	Citrus	Withlacoochee River	2571882	SR 200 US 41 to Marion Co. Line	Deleted	2013	Application date	2.80	0.00	NA	
Yes	2004	7	Pasco	Upper Coastal Drainage	2572982	CR 578 (County Line Rd.) US 19 to East Rd.	Permitted			0.55	0.39	Conner Preserve	77
Yes	2003	7	Pasco	Upper Coastal Drainage	2572983	CR 578 (CLR) FROM East Rd to Mariner Blvd	Permitted			0.21	0.14	Conner Preserve	77
Yes	2004	7	Pasco	Upper Coastal Drainage	2572985	CR 578 (County Line Rd.) Suncoast Parkway to US 41	Permitted			0.30	0.29	Conner Preserve	77

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Yes	2003	7	Hernando	Upper Coastal Drainage	2572992	CR 485 (Cobb Road); from SR 50 to US 98	Deleted	2013	Dropped	6.20	0.00	Dropped	
Yes	1998	7	Hillsborough	Hillsborough River	2578071	Bruce B. Downs Bike Path Amberly Dr. - Hunter's Green	Permitted			0.50	0.00	Jennings Tract	61
Yes	2000	7	Hillsborough	Hillsborough River	2578072	Bruce B. Downs Bike Path Tampa Limits to Amberly Dr.	Permitted			0.20	0.00	Jennings Tract	61
Yes	2000	7	Hillsborough	Hillsborough River	2578391	Alexander Street US 92 to I-4	Permitted			3.16	0.00	Jennings Tract	61
Yes	2006	7	Hillsborough	Hillsborough River	2578622	Park Road I-4 (SR 400) to Sam Allen Rd.	Permitted			0.81	0.53	Colt Creek State Park	84
Yes	2006	7	Hillsborough	Hillsborough River	2578623	SAM ALLEN Rd; from Alexander St to Park Rd	Active	2017		4.24	2.33	Conner Preserve	77
Yes	2000	7	Hillsborough	Tampa Bay Drainage	2583982	I-275 Howard Franklin to Himes Ave.	Permitted			1.50	0.00	Gateway Tract	45
Yes	2000	7	Hillsborough	Hillsborough River	2584131	SR 93 (I-275) US 41 to Pasco Co. Line	Permitted			7.60	0.00	Jennings Tract	61
No	2004	7	Hillsborough	Tampa Bay Drainage	2584151	I-4 (SR 400) @ Selmon Expressway	Permitted	2017		5.46	3.85	Mobbly Bayou	86
No	2004	7	Hillsborough	Tampa Bay Drainage	2584151	I-4 (SR 400) @ Selmon Expressway	Permitted	2017		1.05	0.63	bahia beach	78
Yes	2000	7	Hillsborough	Hillsborough River	2584491	I-4 (SR 400) at Alexander Street Ramp	Permitted			1.70	0.00	Jennings Tract	61
Yes	2000	7	Pasco	Hillsborough River	2587341	SR 56, Cypress Creek to CR 581 (B.B. Downs)	Permitted			5.30	0.00	Jennings Tract	61
No	2004	7	Pasco	Hillsborough River	2587362	I-75 (SR 93) FROM NORTH OF SR/CR 54 TO NORTH OF SR 52 (Design-Build)	Permitted			1.24	1.10	Conner Preserve	77
No	2004	7	Pasco	Hillsborough River	2587362	I-75 (SR 93) FROM NORTH OF SR/CR 54 TO NORTH OF SR 52 (Design-Build)	Deleted	2013	Mitigation Bank	7.07	3.57	BANK	
Yes	1997	7	Pinellas	Tampa Bay Drainage	2588701	I-275 Roosevelt to Big Island Gap	Permitted			9.10	0.00	Gateway Tract	45
Yes	2000	8	Pasco	Upper Coastal Drainage	2589581	Suncoast Parkway and Ridge Road Interchange	Deleted	2015	Other mitigation provided	2.33	0.00	NA	

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Yes	2000	7	Pinellas	Tampa Bay Drainage	4037701	US 19, CR 816 (Alderman) to SR 582 (Tarpon)	Permitted			0.09	0.00	Boyd Hill Nature Preserve	71
Yes	2000	7	Pinellas	Upper Coastal Drainage	4037711	US 19 - Republic Drive to CR 816 (Alderman Rd.)	Permitted			0.09	0.04	Conner Preserve	77
Yes	2003	1	Polk	Ocklawaha River	4038901	US 27 Blue Heron Bay to CR 547	Permitted			1.89	0.00	Lake Lowery	76
Yes	2002	1	Manatee	Manatee River	4043232	SR 70 (Seg. 2) Lakewood Ranch Rd. to Lorraine Rd.	Permitted			3.62	0.00	Rutland Ranch	65
No	1999	1	Charlotte	Peace River	4046971	I-75 Bridge Widening over Peace River	Permitted			2.75	2.75	Little Pine Island Mit. Bank	52
No	1999	1	Charlotte	Peace River	4046971	I-75 Bridge Widening over Peace River	Permitted			3.31	0.00	Peace Restor.	69
Yes	2006	7	Hillsborough	Tampa Bay Drainage	4055252	SR 60 (ADAMO DR) FROM E OF US 301 TO W OF FALKENBURG RD	Deleted	2014	Mitigation Bank	0.86	0.15	Tampa Bay Mitigation Bank	
Yes	2004	7	Citrus	Upper Coastal Drainage	4058222	US 19 (SR 55) Green Acres to Jump Ct.	Permitted			0.53	0.30	Conner Preserve	77
Yes	2005	7	Citrus	Upper Coastal Drainage	4058223	US 19 (SR 55) Jump Court to Ft. Island Trail	Permitted			8.84	5.16	Conner Preserve	77
Yes	2015	7	Citrus	Upper Coastal Drainage	4058225	US 19 FRMOM CARDINAL ST TO GREEN ACRES ST	Deleted	2017	Mitigation Bank	0.70	0.35	Upper Coastal Mitigation Bank	
No	2014	8	Sumter	Withlacoochee River	4061101	Turnpike/ I-75 Interchange-Wildwood	Deleted	2014	No mitigation available	2.00	1.00	??	
No	2014	8	Sumter	Withlacoochee River	4061101	Turnpike/ I-75 Interchange-Wildwood	Deleted	2015	Mitigation Bank	18.00	10.50	Withlacoochee Mitigation Bank	
Yes	2006	8	Hillsborough	Tampa Bay Drainage	4061511	Veteran's Expressway Memorial Hwy. to Gunn Hwy.	Permitted	2014		10.46	2.90	Bahia Beach	78
Yes	2000	7	Pinellas	Tampa Bay Drainage	4062531	SR 686 (Roosevelt) at 49th Street	Permitted			0.20	0.00	Gateway Tract	45
Yes	2002	7	Pinellas	Tampa Bay Drainage	4062561	East-West Trail, Coopers Bayou to Bayshore	Permitted			0.10	0.00	Boyd Hill Nature Preserve	71
No	2004	1	Sarasota	South Coastal Drainage	4063143	I-75 N. River Rd. (CR 577) to SR 681	Permitted			14.55	8.62	Fox Creek ROMA	79
Yes	2004	1	Sarasota	South Coastal Drainage	4063143	I-75 N. River Rd. (CR 577) to SR 681	Permitted			0.77	0.49	Curry Creek ROMA	88
Yes	1999	5	Sumter	Withlacoochee River	4063291	I-75 Lk. Panasoffkee Bridge	Permitted			5.93	0.00	Lake Panasoffkee	57

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Yes	2007	7	Pasco	Hillsborough River	4079441	I-75 Northbound Rest Area	Permitted			2.20	1.14	Colt Creek State Park	84
Yes	2007	7	Pasco	Hillsborough River	4079442	I-75 Southbound Rest Area	Permitted			1.00	0.57	Colt Creek State Park	84
Yes	2008	7	Hernando	Upper Coastal Drainage	4079513	SR 50 US 19 to Mariner Dr.	Permitted			1.25	0.60	Conner Preserve	77
Yes	2015	7	Hillsborough	Hillsborough River	4080752	US 301 (SR 39) FM S OF CR 54/EILAND BLVD TO N OF KOSSIK RD	Active	2017		1.00	0.25	Conner Preserve	77
Yes	2001	7	Hillsborough	Tampa Bay Drainage	4082011	Himes Ave. at Hillsborough Ave.	Permitted			0.10	0.00	Boyd Hill Nature Preserve	71
Yes	2006	1	Polk	Peace River	4082685	US 98 Manor Drive to CR 540A	Permitted			0.68	0.24	Circle B Bar Reserve	66
Yes	2003	7	Hillsborough	Hillsborough River	4084592	I-75 Fowler Avenue to CR 581	Permitted			23.79	16.84	Colt Creek State Park	84
No	2004	7	Pasco	Hillsborough River	4084593	I-75 - CR 581 (BB Downs) to SR 56 (Mainline)	Permitted			15.33	9.70	Colt Creek State Park	84
No	2004	7	Pasco	Hillsborough River	4084593	I-75 - CR 581 (BB Downs) to SR 56 (Mainline)	Permitted			0.64	0.36	Conner Preserve	77
Yes	2004	7	Pasco	Hillsborough River	4084594	I-75 SR 56 to S of CR 54	Permitted			11.63	6.64	Colt Creek State Park	84
Yes	2001	7	Hillsborough	Hillsborough River	4084602	I-75 Off-Ramp at CR 581	Permitted			0.48	0.00	Jennings Tract	61
Yes	2004	7	Hillsborough	Hillsborough River	4089321	SR 39 @ Hillsborough River	Permitted			2.29	1.34	Colt Creek State Park	84
Yes	2003	7	Pinellas	Upper Coastal Drainage	4091541	SR 688 (Ulmerton) - Wild Acres to El Centro/Ranchero Blvd.	Permitted			0.64	0.31	Conner Preserve	77
No	2004	7	Pinellas	Tampa Bay Drainage	4091551	SR 688 (Ulmerton Rd.) Lake Seminole to Wild Acres	Permitted			0.07	0.02	Conner Preserve	77
Yes	2002	7	Citrus	Withlacoochee River	4092071	CR 470 (Gospel Isle)	Permitted			0.23	0.00	Withlacoochee S.F. - Baird	64
Yes	2007	7	Pinellas	Upper Coastal Drainage	4107552	SR 679 (Pinellas Bay Structure E) at Intercoastal Waterway	Permitted			0.23	0.19	Ft. DeSoto Park	70

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Yes	2007	7	Hernando	Withlacoochee River	4110113	I-75 (SR 93) FROM PASCO/HERNANDO CO/L TO US98/N SR50/CORTEZ BVD	Permitted			7.08	3.97	Colt Creek State Park	84
Yes	2007	7	Hernando	Withlacoochee River	4110114	I-75 (SR 93) FROM PASCO/HERNANDO CO/L TO US98/N SR50/CORTEZ BVD	Permitted			0.34	0.17	Colt Creek State Park	84
Yes	2007	7	Hernando	Withlacoochee River	4110122	I-75 SR 50 to Hernando/Sumter CL	Deleted	2013	No mitigation required	0.01	0.00	NA	
No	2006	7	Pasco	Hillsborough River	4110142	I-75 (SR 93) FROM N OF SR 52 TO PASCO/HERNANDO CO/L (design-build)	Permitted			10.60	4.94	Conner Preserve	77
No	2006	7	Pasco	Hillsborough River	4110142	I-75 (SR 93) FROM N OF SR 52 TO PASCO/HERNANDO CO/L (design-build)	Permitted	2015	Additional mit needed	0.17	0.08	Conner Preserve	77
No	2006	7	Pasco	Upper Coastal Drainage	4110142	I-75 (SR 93) FROM N OF SR 52 TO PASCO/HERNANDO CO/L (design-build)	Permitted			4.33	0.39	Conner Preserve	77
No	2006	7	Pasco	Withlacoochee River	4110142	I-75 (SR 93) FROM N OF SR 52 TO PASCO/HERNANDO CO/L (design-build)	Permitted			3.05	1.92	Colt Creek State Park	84
No	2006	7	Pasco	Hillsborough River	4110142	I-75 (SR 93) FROM N OF SR 52 TO PASCO/HERNANDO CO/L (design-build)	Deleted	2014	Mitigation Bank	0.36	0.18	North Tamp Mitigation Bank	
No	2006	7	Pasco	Upper Coastal Drainage	4110142	I-75 (SR 93) FROM N OF SR 52 TO PASCO/HERNANDO CO/L (design-build)	Deleted	2014	Mitigation Bank	13.41	6.28	Upper Coastal Mitigation Bank	
Yes	2004	1	Polk	Peace River	4110391	US 27 CR 546 to SR 544	Permitted			1.96	0.88	Circle B Bar Reserve	66
No	2004	7	Hillsborough	Hillsborough River	4113371	US 92 - Eureka Springs to Thonotasassa Rd.	Permitted			1.45	0.74	Colt Creek State Park	84
No	2004	7	Hillsborough	Tampa Bay Drainage	4113371	US 92 Eureka Springs to Thonotasassa Rd.	Permitted			0.34	0.06	Ekker Tract	82
No	2007	7	Hillsborough	Tampa Bay Drainage	4125311	SR 60 (Memorial HWY) fom I-275 to Spruce	Active	2016	credit cost for mangrove	0.20	0.14	bahia beach	78
No	2007	7	Hillsborough	Tampa Bay Drainage	4125311	SR 60 (Memorial HWY) fom I-275 to Spruce	Deleted	2016	Mitigation Bank	0.10	0.04	Tampa Bay Mitigation Bank	
Yes	2009	7	Pinellas	Tampa Bay Drainage	4125313	I-275 @ I-275 NB Off-Ramp to SR 60 Airport Flyover	Permitted			0.94	0.50	Mobbly Bayou	86
Yes	2010	1	Charlotte	Charlotte Harbor Drainage	4130423	I-75 from Tucker's Grade to N. Jones Loop Road	Permitted			1.10	0.00	Little Pine Island Mit. Bank	52
Yes	2008	7	Hillsborough	Alafia River	4131361	McMullen Road from Balm Riverview to Boyette Road	Permitted			0.17	0.11	Ekker Tract	82
Yes	2008	7	Pinellas	Tampa Bay Drainage	4136222	CR 296(FUTURE SR690) FROM US 19 (SR 55) TO E OF ROOSEVELT/CR 296	Deleted	2013	Mitigation Bank	4.59	3.01	Tampa Bay Mitigation Bank	

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Yes	2004	1	Sarasota	Myakka River	4138871	SR 72 Myakka River to Big Slough	Permitted			6.93	0.00	Myakka River State Park	51
Yes	2002	TIA	Hillsborough	Tampa Bay Drainage	4143481	Taxiway E Reconstruction	Deleted	2014	No mitigation required	2.87	0.00	NA	
No	2003	TIA	Hillsborough	Tampa Bay Drainage	4143481	36R RPZ	Permitted			7.18	5.03	Brooker Ck. Buffer Preserve	90
No	2003	TIA	Hillsborough	Tampa Bay Drainage	4143481	36R RPZ	Permitted			0.55	0.39	Bahia Beach	78
Yes	2002	TIA	Hillsborough	Tampa Bay Drainage	4143481	Airfield Drainage Rehab (fna Taxiway N Overpass)	Permitted			2.85	1.41	Bahia Beach	78
Yes	2007	TIA	Hillsborough	Tampa Bay Drainage	4143481	Cargo/ Ground Support Equip. Facility	Permitted			0.63	0.13	Bahia Beach	78
Yes	2005	TIA	Hillsborough	Tampa Bay Drainage	4143481	High Speed Txwy for RW18R (fna Taxiway "W3")	Permitted			2.20	1.10	Bahia Beach	78
Yes	2002	TIA	Hillsborough	Tampa Bay Drainage	4143481	North Terminal Airside 2	Active	2017		3.64	3.28	Brooker Ck. Buffer Preserve	90
Yes	2002	TIA	Hillsborough	Tampa Bay Drainage	4143481	North Terminal Airside 3	Active	2017		4.74	3.43	Brooker Ck. Buffer Preserve	90
Yes	2002	TIA	Hillsborough	Tampa Bay Drainage	4143481	North Terminal Airside 4	Active			3.66	2.56	Brooker Ck. Buffer Preserve	90
Yes	2002	TIA	Hillsborough	Tampa Bay Drainage	4143481	Runway 17-35	Active			6.82	4.82	Bahia Beach	78
Yes	2002	TIA	Hillsborough	Tampa Bay Drainage	4143481	South Development Area - Includes CONRAC Car Rental facility	Active			5.24	1.96	bahia beach	78
Yes	2002	TIA	Hillsborough	Tampa Bay Drainage	4143481	Taxiway A Extension	Active	2017		0.43	0.89	Brooker Ck. Buffer Preserve	90
Yes	2004	TIA	Hillsborough	Tampa Bay Drainage	4143481	Taxiway B rehab, Bridge and N. Terminal Stormwater	Permitted			3.29	1.99	Bahia Beach	78
Yes	2003	TIA	Hillsborough	Tampa Bay Drainage	4143481	Taxiway V&W	Permitted			0.66	0.28	Bahia Beach	78
Yes	2002	TIA	Hillsborough	Tampa Bay Drainage	4143481	East Development Area (Drew Park Improvements)	Deleted	2017	No mitigation required	0.00	0.00	Bahia Beach	78

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Yes	2002	TIA	Hillsborough	Tampa Bay Drainage	4143481	North Terminal Phase 1	Deleted	2017	No mitigation required	2.48	1.74	Brooker Ck. Buffer Preserve	90
Yes	2002	TIA	Hillsborough	Tampa Bay Drainage	4143481	TAXIWAY s extension	Deleted	2017	no wetland impacts	0.00	0.00	Bahia Beach	78
Yes	2012	7	Hillsborough	Tampa Bay Drainage	4152349	SR 597 (Dale Mabry) Lakeview Dr. to Van Dyke Rd.	Deleted	2013	No mitigation required	0.30	0.00	NA	
No	2006	7	Hillsborough	Tampa Bay Drainage	4154892	US 301, Balm Road to Gibsonton Drive	Permitted			11.85	0.00	Ekker Tract	82
No	2006	7	Hillsborough	Tampa Bay Drainage	4154892	US 301, Balm Road to Gibsonton Drive	Permitted			1.50	0.58	Bahia Beach	78
No	2006	7	Hillsborough	Alafia River	4154892	US 301, Balm Road to Gibsonton Drive	Permitted			0.28	0.22	Ekker Tract	82
No	2006	7	Hillsborough	Tampa Bay Drainage	4154893	US 301, Sun City Center to Balm Road	Permitted			1.99	1.52	Boyd Hill Nature Preserve	71
No	2006	7	Hillsborough	Tampa Bay Drainage	4154893	US 301, Sun City Center to Balm Road	Permitted			1.99	1.00	Ekker Tract	82
No	2006	7	Hillsborough	Little Manatee River	4154893	US 301, Sun City Center to Balm Road	Permitted			0.65	0.33	Little Manatee River, Lower Tract	83
Yes	2006	1	Desoto	Peace River	4154901	US 17 Charlotte C.L. to SW Collins	Permitted			2.23	1.15	Peace River Mit. Bank	85
No	2006	1	Desoto	Peace River	4154901	US 17 Charlotte C.L. to SW Collins	Permitted			2.15	0.93	Boran Ranch Mit. Bank	53
Yes	2009	1	Manatee	Manatee River	4161201	SR 64 Carlton Arms Blvd. to I-75	Permitted			0.78	0.28	Hidden Harbour	80
Yes	2006	7	Pasco	Hillsborough River	4165611	SR 54 I-75 to US 301	Deleted	2013	Application date	0.00	0.00	NA	

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Yes	2010	7	Pasco	Hillsborough River	4165612	SR 54 FROM CR 577/CURLEY RD TO CR 579/MORRIS BRDG RD	Permitted	2015		2.58	1.73	Conner Preserve	77
Yes	2016	7	Pasco	Hillsborough River	4165642	US 301 FROM SR 56 (PROPOSED) TO SR 39/PAUL BUCHMAN HWY	Deleted	2016	NO MIT LEFT THIS BASIN	0.60	0.32	bank	
Yes	2014	7	Hernando	Withlacoochee River	4167323	SR 50 from US 98/ McKethan Rd. to US 301	Deleted	2016	dropped	0.50	0.02	Dropped	
No	2014	7	Hernando	Withlacoochee River	4167324	SR 50 from Windmere Rd./ Bronson Bl. To US 98/ McKethan Rd.	renew	2019	no herb at bank	0.01	0.01	Colt Creek State Park	84
No	2014	7	Hernando	Withlacoochee River	4167324	SR 50 from Windmere Rd./ Bronson Bl. To US 98/ McKethan Rd.	Deleted	2016	dropped	1.00	0.70	bank	
Yes	2015	7	Hillsborough	Upper Coastal Drainage	4167332	SR 50/SR 50A FROM CO BB RD TO BROAD ST	Deleted	2017	Mitigation Bank	2.00	0.93	Upper Coastal Mitigation Bank	
No	2015	7	Hillsborough	Upper Coastal Drainage	4167351	SR 50/SR 50A BYPASS FROM BROAD ST TO JEFFERSON N ST	Deleted	2017	mitigation bank	1.00	0.70	bank	
No	2015	7	Hillsborough	Withlacoochee River	4167351	SR 50/SR 50A BYPASS FROM BROAD ST TO JEFFERSON N ST	Active	2017		1.00	0.70	Colt Creek State Park	84
No	2015	7	Hillsborough	Upper Coastal Drainage	4167351	SR 50/SR 50A BYPASS FROM BROAD ST TO JEFFERSON N ST	Deleted	2015	Mitigation Bank	1.00	0.25	Upper Coastal Mitigation Bank	
No	2009?	7	Pinellas	Tampa Bay Drainage	4168381	US 92 (SR 600/GANDY) PELICAN SOUND TO GANDY BRIDGE	Permitted	2015		0.90	0.50	Mobbly Bayou	86
No	2009?	7	Pinellas	Tampa Bay Drainage	4168381	US 92 (SR 600/GANDY) PELICAN SOUND TO GANDY BRIDGE	Permitted	2015		0.67	0.44	bahia beach	78
Yes	2006	7	Pinellas	Upper Coastal Drainage	4188602	US 19 (SR 55) Continuous Right Turn Lane	Permitted			0.41	0.21	Conner Preserve	77
Yes	2007	7	Hillsborough	Tampa Bay Drainage	4209331	Dale Mabry Ave. Van Dyke Rd. to Lutz Lake Fern Rd.	Deleted	2013	Application date	0.90	0.00	NA	
No	2003	7	Hillsborough	Hillsborough River	4218311	I-75 - CR 581 (BB Downs) to SR 56 ("Waddah Ramps")	Permitted			21.54	16.25	Colt Creek State Park	84
No	2003	7	Hillsborough	Hillsborough River	4218311	I-75 - CR 581 (BB Downs) to SR 56 ("Waddah Ramps")	Permitted			9.66	5.14	Conner Preserve	77
Yes	2004	7	Pasco	Hillsborough River	4218314	I-75 S of CR 56 to N of CR 54	Permitted			16.88	8.20	Colt Creek State Park	84
Yes	2009	1	Manatee	Manatee River	4226031	US 301 (Seg. B) Erie Rd. to CR 675	Permitted			2.73	0.41	Hidden Harbour	80

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Yes	2017	7	Pinellas	Tampa Bay Drainage	4229042	I275 (HOWARD FRKL) FM N OF HOWARD FRANKLAND TO S OF SR 60	Deleted	2017		4.25	1.83	other offsite	
No	2014	7	Hillsborough	Tampa Bay Drainage	4229044	I-275 (HOWARD FRKL) FM N OF HOWARD FRANKLAND TO S OF SR 60	Deleted	2017	Other mitigation provided	4.08	2.29	other offsite	
No	2014	7	Hillsborough	Tampa Bay Drainage	4229044	I-275 (HOWARD FRKL) FM N OF HOWARD FRANKLAND TO S OF SR 60	Deleted	2017	Mitigation Bank	0.05	0.02	Bank	
Yes	2013	7	Pinellas	Tampa Bay Drainage	4230801	I-275/SR 93 SOUTHBOUND @ BUNCES PASS	Permitted?	2014		0.10	0.10	Ft. DeSoto Park	70
Yes	2013	7	Hillsborough	Tampa Bay Drainage	4230881	SR 616 FROM E OF OBRIEN ST TO DALE MABRY HWY	Deleted	2013	Mitigation Bank	0.20	0.14	Tampa Bay Mitigation Bank	
Yes	2012	5	Lake	Withlacoochee River	4230961	SR 33 at CR 474	Deleted	2014	No mitigation required	1.00	0.00	NA	
Yes	2015	7	Pinellas	Tampa Bay Drainage	4245012	I-275 (SR 93) FROM S OF 118TH AVE N TO S OF 4TH ST N	Deleted	2015	Mitigation Bank	0.80	0.44	Tampa Bay Mitigation Bank	
Yes	2017	7	Hillsborough	Tampa Bay Drainage	4245132	I-75 AT BIG BEND RD SB OFF RAMP	DELETE	2019	replaced by FM4245133	0.10	0.07	UNKNOWN	
Yes	2011	5	Sumter	Withlacoochee River	4245241	SR 50 Bridge Removal over Van Fleet Trail	Deleted	2014	Dropped	0.50	0.00	Dropped	
Yes	2012	7	Hillsborough	Tampa Bay Drainage	4245501	US 41 (SR 45) FROM MANATEE/HILLS CO/L TO N OF 15TH AV	Deleted	2013	No mitigation required	0.80	0.13	NA	
Yes	2010	7	Hillsborough	Tampa Bay Drainage	4245611	SR 60 - Pinellas/Hillsborough C.L. to Rocky Point Drive	Permitted			0.13	0.04	Mobbly Bayou	86
Yes	2012	7	Pinellas	Tampa Bay Drainage	4245613	SR 60 (CCAMPBLL CWY) FROM BAYSHORE BLVD TO E OF TAMPA BAY BRIDGE	Deleted	2013	Mitigation Bank	0.34	0.24	Tampa Bay Mitigation Bank	
Yes	2012	7	Pinellas	Tampa Bay Drainage	4245614	SR 60 (CCAMPBLL CWY) FROM E OF BRIDGE #138 TO PINELLAS/HILLS CO/L	Deleted	2013	No mitigation required	0.10	0.00	Tampa Bay Mitigation Bank	
Yes	2010	1	Polk	Peace River	4251371	SR 17 @ Mountain Lake Cutoff Intersection Improvements	Permitted			0.16	0.07	Circle B Bar Reserve	66
Yes	2012	7	Hillsborough	Tampa Bay Drainage	4255001	US 41(SR45) FROM N OF LINWOOD DR TO N OF COUNTY LINE RD	Deleted	2013	Mitigation Bank	0.20	0.00	Tampa Bay Mitigation Bank	
Yes	2016	7	Pinellas	Tampa Bay Drainage	4271432	SR 579 (PIN BYWAY S) FROM N OF YACHT CLUB LN TO S OF MADONNA BL	Deleted	2017	No mitigation required	0.00	0.00		

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Yes	2011	7	Pasco	Upper Coastal Drainage	4271571	US 19 (SR 55) FROM NEW YORK AVE TO PASCO/HERNANDO CO/L	Deleted	2014	No mitigation required	0.02	0.00	NA	
Yes	2011	7	Hillsborough	Hillsborough River	4271591	US 92 (SR 580/600) Benjamin Rd. to Westshore Blvd.	Deleted	2013	No mitigation required	0.20	0.00	NA	
Yes	2011	7	Pasco	Withlacoochee River	4271651	US 301/98 (SR 35/700) Pioneer Museum Rd. to Mosstown Rd.	Deleted	2013	No mitigation required	0.20	0.00	NA	
Yes	2012	7	Hillsborough	Tampa Bay Drainage	4289241	SR 597 (Dale Mabry) Cheval Blvd. to County Line Rd.	Deleted	2013	No mitigation required	0.07	0.00	N	
Yes	2012	7	Hillsborough	Tampa Bay Drainage	4289361	SR 60/E ADAMO DR FROM E OF N 22ND ST TO W OF 50TH ST	Deleted	2013	Mitigation Bank	0.20	0.00	Tampa Bay Mitigation Bank	
Yes	2015	7	Hillsborough	Tampa Bay Drainage	4289531	I-75 (SR 93A) FM WB SR60 ENTRANCE RAMP TO S OF CSX/CR 574	Deleted	2017	to brooker then to bank	1.50	0.38	Tampa Bay Mitigation Bank	
No	2016	7	Hillsborough	Tampa Bay Drainage	4289541	I-75(SR93A) NB ON RAMP FROM EB/WB I-4 TO SOUTH OF BYPASS CANAL	Permitted	2016	Mit assigned at alligator	0.31	0.18	Alligator Lake	87
No	2016	7	Hillsborough	Tampa Bay Drainage	4289541	I-75(SR93A) NB ON RAMP FROM EB/WB I-4 TO SOUTH OF BYPASS CANAL	Deleted	2016	Mitigation Bank	0.74	0.35	Tampa Bay Mitigation Bank	
Yes	2015	7	Hillsborough	Tampa Bay Drainage	4289551	I-75 (SR93A) & SR60 FM S OF SR60 @ SLIP RMP TO N OF SR60 AT CSX	Deleted	2017	herb to bank, no forested avail	2.54	1.10	Tampa Bay Mitigation Bank	
Yes	2015	7	Hillsborough	Tampa Bay Drainage	4289561	I75(SR 93A) FM S OF SELMON EXP OVERPASS TO N OF SR 60	Deleted	2017	herb to bank, no forested avail	0.40	0.10	bank	
Yes	2015	7	Hillsborough	Tampa Bay Drainage	4289571	I75 (SR 93A) SB OFF RMP FROM S OF BYPASS CANAL TO EB/WB I-4	Deleted	2017	herb to bank, no forested avail	7.84	3.44	bank	
Yes	2012	7	Hillsborough	Hillsborough River	4289611	SR 39/JAMES L REDMAN FROM SR 60(HOPEWELL RD) TO N OF CHARLIE GRIF	Deleted	2014	No mitigation required	0.33	0.23	Conner Preserve	77
Yes	2014	7	Hillsborough	Tampa Bay Drainage	4290001	US 41 (SR 45) FROM E OF 47TH ST TO E END BRIDGE #299/338	Deleted	2013	Mitigation Bank	0.10	0.07	Tampa Bay Mitigation Bank	

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Yes	2013	7	Pasco	Tampa Bay Drainage	4290081	SR 597 DALE MABRY FROM COUNTY LINE RD TO N OF BRINSON RD	Permitted			0.25	0.13	Alligator Lake	87
Yes	2014	7	Pinellas	Tampa Bay Drainage	4290601	SR 686 (ROOSEVELT) FROM N OF 28TH ST N TO N OF GANDY BLVD	Deleted	2013	Mitigation Bank	0.44	0.20	Tampa Bay Mitigation Bank	
Yes	2013	7	Hillsborough	Tampa Bay Drainage	4290732	SR 580(HILLSBOROUGH) FROM E OF AIR CARGO RD TO W OF N LEE PL	Deleted	2013	Mitigation Bank	0.20	0.00	Tampa Bay Mitigation Bank	
Yes	2014	7	Hillsborough	Tampa Bay Drainage	4290741	US 41/SR45/599/50TH FROM N OF 27TH AVE S TO N OF E 10TH AVE	Deleted	2014	No mitigation required	0.10	0.07	Dropped	
Yes	2015	7	Hillsborough	Tampa Bay Drainage	4292511	1-75 (SR93A) FROM S OF CSX/BROADWAY AVE TO EB/WB I4 EXIT RAMP	Deleted	2017	Mitigation Bank	0.40	0.10	bank	
Yes	2014	8	Hillsborough	Tampa Bay Drainage	4293501	Veteran's Expressway Gunn Hwy. to Van Dyke	Permitted	2014		3.56	1.76	Bahia Beach	78
Yes	2012	5	Marion	Withlacoochee River	4295821	I-75/ SW 95th St. Interchange	Deleted	2014	No mitigation required	0.00	0.00	Halpata Tastanki Preserve	92
Yes	2013	7	Citrus	Upper Coastal Drainage	4300211	CR490A/HALLS RIVER FROM W OF HALLS RIVER TO E OF HALLS RIVER	Deleted	2016	mitigation bank	0.37	0.24	Upper Coastal Mitigation Bank	
Yes	2015	7	Hillsborough	Withlacoochee River	4300512	SR 50 FORM LOCKART RD TO E OF REMINGTON RD	DELETE	2019	no mit reqd	0.60	0.30	BANK	
Yes	2018	5	Sumter	Withlacoochee River	4301321	SR 35 (US 301) from CR 470 to SR 44	NEW	2018		7.54		Colt Creek State Park	
No	2015	7	Hillsborough	Tampa Bay Drainage	4303351	I-4 (SR 400) FM I-75 (SR93A) TO EAST OF WILLIAMS ROAD	Deleted	2017	Mitigation Bank	0.28	0.10	North Tampa Mitigation Bank	
No	2015	7	Hillsborough	Tampa Bay Drainage	4303351	I-4 (SR 400) FM I-75 (SR93A) TO EAST OF WILLIAMS ROAD	Deleted	2017	no mit available	0.20	0.05	??	
Yes	2015	7	Hillsborough	Tampa Bay Drainage	4303361	I-4 (SR 400) FROM TAMPA BYPASS CANAL TO EAST OF I-75	Deleted	2016	Mitigation Bank	0.40	0.10	bank	
Yes	2015	7	Hillsborough	Tampa Bay Drainage	4303371	I-4 (WESTBOUND) FM W OR ORIENT RD TO WEST OF I-75	Deleted	2017	Mitigation Bank	1.00	0.25	bank	
No	2015	7	Hillsborough	Tampa Bay Drainage	4303381	I-4 (SR 400) EB FM WEST OF ORIENT ROAD TO W OF I-75 (SR 93A)	Deleted	2017	Mitigation Bank	0.40	0.10	bank	
Yes	2014	7	Pasco	Upper Coastal Drainage	4303811	SR 52/SCHRADER HWY @ US 41/SR 45	Deleted	2014	included in 2563231	0.10	0.14	Conner Preserve	77

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Yes	2015	7	Hillsborough	Tampa Bay Drainage	4305011	9TH ST S (MLK STREET) FROM 7TH AVE S TO 8TH AVE S	Deleted	2018	Dropped	0.50	0.35	Bahia Beach	78
Yes	2015	7	Hillsborough	Tampa Bay Drainage	4305022	BIG BEND RD FROM E OF DICKMAN ROAD TO W OF WYANDOTTE ROAD	NEW	2018	previously at bank; new in 2018; no mangrove at mit. Bank	0.03	0.02	Bahia	
No	2015	7	Pasco	Hillsborough River	4305731	I75/SR56 INTERCHANGE FROM W OF CR 54 TO W OF CYPRESS RIDGE BLVD	Permitted	2019	previously at bank; availability of mit. at time of programming	2.88	1.61	Conner Preserve	77
No	2015	7	Pasco	Hillsborough River	4305731	I75/SR56 INTERCHANGE FROM W OF CR 54 TO W OF CYPRESS RIDGE BLVD	Deleted	2017	Mitigation Bank	0.20	0.05	Hillsborough River Mitigation Bank	
Yes	2017	7	HILLSBOROUGH	Hillsborough River	4305732	I-75/275 FROM CO LINE RD TO SR 56 (PHASE III)	NEW	2017		1.50	1.05	Conner Preserve	77
Yes	2017	7	HILLSBOROUGH	Hillsborough River	4305733	I75/275 FROM S OF CO LINE RD TO CO LINE RD (PHASE II)	NEW	2017		1.50	1.05	Conner Preserve	77
Yes	2015	7	Pinellas	Upper Coastal Drainage	4306601	ALT US 19 (SR 595) FM S OF SR 586/CURLEW RD TO N OF WHISPER LAKE	Deleted	2015	Mitigation Bank	0.08	0.06	Tampa Bay Mitigation Bank	
Yes	2013	7	Pinellas	Upper Coastal Drainage	4306601	ALT US19 (SR 595) FM N OF SR 586/CURLEW RD TO N OF WHISPER LAKE R	Deleted	2015	No mitigation available	0.22	0.09	Upper Coastal Mitigation Bank	
Yes	2013	7	Hillsborough	Hillsborough River	4306851	SR 574 / MLK BLVD AT GALLAGHER ROAD	Deleted	2015	exempt/dropped	0.20	0.14	Conner Preserve	77
Yes	2014	7	Pinellas	Tampa Bay Drainage	4309001	SR 687 FROM 106TH AVE N TO E OF BIG ISLAND GAP	Deleted	2014	Mitigation Bank	0.10	0.07	Tampa Bay Mitigation Bank	
Yes	2013	7	Hillsborough	Hillsborough River	4311371	SR 574/MLK JR BLVD FM E OF MCINTOSH RD TO W OF WHEELER CT	Deleted	2014	No mitigation required	0.20	0.00	Conner Preserve	77
Yes	2014	7	Hernando	Upper Coastal Drainage	4311431	US 41 (SR 45/BROAD) FM S OF CR 572/POWELL RD TO S OF PINE CABIN R	Deleted	2014	No mitigation required	0.00	0.00	Conner Preserve	
Yes	2014	7	Pasco	Withlacoochee River	4312431	US98/US301/GALL BLVD FROM N OF KOSSIK RD TO BOUGAINVILLEA AVE	Deleted	2014	No mitigation required	0.20	0.07	Colt Creek State Park	84
Yes	2017	7	hillsborough	Hillsborough River	4317462	I-4 FROM I-4/SELMON CONNECTOR TO E OF BRANCH FORBES ROAD	NEW	2017		6.00	3.00	Conner Preserve	77
Yes	2015	7	Hillsborough	Hillsborough River	4318212	I-275 FROM JEFFERSON/ORANGE ST TO N OF BEARSS AVE	Deleted	2017	dropped	0.50	0.13	Conner Preserve	77

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Yes	2014	7	Pinellas	Tampa Bay Drainage	4325341	US 19 FROM 38TH AVENUE NORTH TO 44TH AVENUE NORTH	Deleted	2014	Mitigation Bank	0.66	0.20	Tampa Bay Mitigation Bank	
Yes	2015	7	Pinellas	Upper Coastal Drainage	4325871	SR 679 (BAYWAY) FR N END OF BOCA CIEGA BRG TO SR 682 (54TH AVE S)	Deleted	2015	no impacts	0.00	0.00	NA	
Yes	2015	7	Hernando	Withlacoochee River	4326971	SR50/700/US98/CORTEZ FROM E OF SR50/CORTEZ BL TO W OF LIVE OAK DR	Renew	2017		0.10	0.07	Colt Creek State Park	84
Yes	2015	7	Hillsborough	Tampa Bay Drainage	4330711	BROADWAY FROM US 41 TO N 62ND ST CSX INTRMD	Deleted	2015	Mitigation Bank	0.00	0.00	Tampa Bay Mitigation Bank	
Yes	2015	7	Hillsborough	Tampa Bay Drainage	4335353	SR 60 (SR 589) FROM N OF INDEPENDENCE TO I-275 AT WESTSHORE	Deleted	2017	mitigation bank	0.20	0.05	bank	
Yes	2015	7	Hillsborough	Tampa Bay Drainage	4335355	I275/SR 93 NB FLYOVER FROM SR 60 EB TO I-275 NB	Deleted	2017	Mitigation Bank	0.20	0.05	bank	
No	2015	7	Pinellas	Upper Coastal Drainage	4337961	US 19 (SR 55) FROM N OF CR 95 TO N OF NEBRASKA AVE	Deleted	2017	mitigation bank	0.10	0.07	bank	
No	2015	7	Pinellas	Upper Coastal Drainage	4337961	US 19 (SR 55) FROM N OF CR 95 TO N OF NEBRASKA AVE	Deleted	2017	mitigation bank	0.20	0.10	Upper Coastal Mitigation Bank	
Yes	2015	7	Hillsborough	Tampa Bay Drainage	4337971	US 19 (SR 55) FROM N OF NEBRASKA AVE TO S OF TIMBERLANE RD	Deleted	2017	mitigation bank	0.20	0.10	TBMB	
Yes	2017	7	Pinellas	Tampa Bay Drainage	4337991	US19 (SR 55) FROM N OF CR 95 TO S OF PINE RIDGE WAY S	NEW/DELETE	2017	BANK	1.00	0.40	bank	
No	2015	7	Hillsborough	Hillsborough River	4338212	I-275 @ I-4 I-275 FM ROME TO MLK I-4 FM I-275 TO CONNECTOR	Active	2016		0.50	0.25	Conner Preserve	77
No	2015	7	Hillsborough	Tampa Bay Drainage	4338212	I-275 @ I-4 I-275 FM ROME TO MLK I-4 FM I-275 TO CONNECTOR	Deleted	2016	moved basin, to bank	0.50	0.25	bank	
Yes	2015	7	Hillsborough	Hillsborough River	4343171	CR 582/KNIGHTS GRIFF FM ITCHEPACKESASSA CK TO BR # 100265	Active	2017		0.28	0.14	Conner Preserve	77
Yes	2015	7	Hillsborough	Hillsborough River	4347361	SR 574/W REYNOLDS ST FROM E OF TURKEY CREEK RD TO THONOTOSASSA RD	Deleted	2017	No mitigation required	0.00	0.00	Conner Preserve	77
Yes	2015	7	Hillsborough	Tampa Bay Drainage	4347381	SR60 (ADAMO DR) FROM E OF FALKENBURG RD TO W OF LAKE KATHY ENTR	Deleted	2017	no mitigation required	0.00	0.00		

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Yes	2015	7	Pasco	Hillsborough River	4347651	SR 56 FROM MEADOW POINTE BLVD TO US 301	Permitted	2017		44.85	28.41	Conner Preserve	77
Yes	2015	7	Pinellas	Upper Coastal Drainage	4348071	US 19 (SR55) FROM S OF LIVE OAK ST TO N OF BRITTANY PARK BLV	Active	2017		0.10	0.07	Conner Preserve	77
Yes	2015	7	Pasco	Hillsborough River	4351421	SR 52 EXTENSION FROM E OF MCKENDREE RD TO E OF US 301 (Main Portion)	Permitted	2019	INSUFFICIENT FNF AT BANK, FF MORE EXPENSIVE AT BANK	2.99	1.53	Conner Preserve	77
No	2015	7	Pasco	Hillsborough River	4351421	SR 52 EXTENSION FROM E OF MCKENDREE RD TO E OF US 301 (Main Portion)	Permitted	2019	Mitigation Bank	1.06	0.03	Bank	
No	2019	7	Pasco	Hillsborough River	4351421	SR 52 EXTENSION FROM E OF MCKENDREE RD TO E OF US 301 (Mirada Portion)	NEW (permit modification)	2019		2.03	0.59	Bank	
No	2015	7	Hillsborough	Tampa Bay Drainage	4357181	TRI-COUNTY TRAIL FROM CR 611 @ KEYSTONE RD TO PASCO CO/L	Deleted	2016	Mitigation Bank	0.80	0.38	BANK	
No	2015	7	Pasco	Upper Coastal Drainage	4357191	TRI-COUNTY TRAIL FROM PASCO CO/L TO S TERMINUS OF STARKEY TRAIL	Deleted	2017	Mitigation Bank	2.00	1.40	bank	
No	2015	7	Pasco	Upper Coastal Drainage	4357191	TRI-COUNTY TRAIL FROM PASCO CO/L TO S TERMINUS OF STARKEY TRAIL	Deleted	2015	Mitigation Bank	0.30	0.15	Upper Coastal Mitigation Bank	
No	2015	7	Pasco	Withlacoochee River	4357201	GOOD NEIGHBOR TRL CONNECTOR FM W OF SUNCOAST PKWY TO TERMINUS OF...	Deleted	2019	no wetland impacts	0.05	0.04	Colt Creek State Park	84
No	2015	7	Pasco	Upper Coastal Drainage	4357201	GOOD NEIGHBOR TRL CONNECTOR FM W OF SUNCOAST PKWY TO TERMINUS OF...	Deleted	2019	no wetland impacts	0.15	0.11	bank	
No	2015	7	Pasco	Upper Coastal Drainage	4357201	GOOD NEIGHBOR TRL CONNECTOR FM W OF SUNCOAST PKWY TO TERMINUS OF...	Deleted	2019	no wetland impacts	0.15	0.08	Upper Coastal Mitigation Bank	
No	2015	7	Hillsborough	Hillsborough River	4357501	SR 60 ROM VALRICO RD TO DOVER RD	Active	2017	updated basin	0.05	0.02	Conner Preserve	77

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No	2015	7	Hillsborough	Hillsborough River	4357501	SR 60 ROM VALRICO RD TO DOVER RD	Deleted	2017	Mitigation Bank	0.11	0.06	Hillsborough River Mitigation Bank	
No	2016	7	Hillsborough	Alafia River	4357502	SR 60 FROM DOVER RD TO SR 39	Active	2016		1.06	0.53	Balm Boyette	81
No	2015	7	Hillsborough	Alafia River	4357502	SR 60 FROM DOVER RD TO SR 39	Deleted	2017	to bank	1.77	0.44	bank	
Yes	2019	7	Hernando	Withlacoochee River	4358592	SR 50 from SR 35 (US 301) to Hernando/Sumter County Line	NEW	2019		69.23	48.46	Colt Creek State Park	84
Yes	2019	5	Sumter	Withlacoochee River	4358593	SR 50 from Hernando/Sumter County Line to W of CR 757	NEW	2019		13.50		Colt Creek State Park	84
Yes	2019	5	Sumter	Withlacoochee River	4358594	SR 50 from W of CR 757 to the Sumter/Lake CL	NEW	2019		26.60		Colt Creek State Park	84
Yes	2016	7	Pasco	Withlacoochee River	4358941	SR 575 OVER WITHLACOOCHEE RIVER BRIDGE #140031	Deleted	2016		0.20	0.14	Colt Creek State Park	84
Yes	2018	7	Pinellas	Tampa Bay Drainage	4360561	10th & 11th Ave at Brooker Creek Bridge #157235	DELETE	2019	no mit reqd	0.20	0.10	Brooker Ck. Buffer Preserve	90
Yes	2018	7	Pinellas	Tampa Bay Drainage	4360561	10th & 11th Ave at Brooker Creek Bridge #157235	DELETE	2019	no mit reqd	0.20	0.10	Bank	
Yes	2017	7	hillsborough	Tampa Bay Drainage	4370021	MADISON AVE FROM US 41 TO 78TH ST (CR 573)	NEW	2017		4.00	2.35	Bahia Beach	78
Yes	2018	7	Hillsborough	Tampa Bay Drainage	4373121	I-75/SR 93A from Manatee County Line to N of CR 579	DELETE	2019	no mit reqd	0.20	0.10	Bahia Beach	78
Yes	2018	7	Hillsborough	Tampa Bay Drainage	4373121	I-75/SR 93A from Manatee County Line to N of CR 579	DELETE	2019	no mit reqd	0.40	0.20	Bank	
Yes	2018	7	Citrus	Upper Coastal Drainage	4375141	US 19/US 98/ SR 55/ S Suncoast Blvd from Hernando County Line to W Green Acres	Active	2018		0.24	0.13	BANK	
Yes	2019	7	Citrus	Upper Coastal Drainage	4375141	US 19/US 98/ SR 55/ S Suncoast Blvd from Hernando County Line to W Green Acres	NEW	2019		0.06	0.05	Conner Preserve	77
Yes	2018	7	Citrus	Upper Coastal Drainage	4375142	US 19/US 98/SR 55/S SUNCOAST BLVD FR HERNANDO CO LN TO W GREEN ACRES	Active	2018		0.40	0.20	BANK	
Yes	2018	7	Pinellas	Upper Coastal Drainage	4376231	Alt US 19/ SR 595 from Mohawk St to N of Tilden St/Skinner Blvd	Active	2018	MITIGATION BANK	0.40	0.20	BANK	
No	2017	7	Hillsborough	Tampa Bay Drainage	4376401	US 301/SR 43 FM FALKNERBURG RD TO SLIGH AVE	Delete	2017	BANK	1.00	0.30	BANK	
No	2017	7	Hillsborough	Tampa Bay Drainage	4376401	US 301/SR 43 FM FALKNERBURG RD TO SLIGH AVE	NEW	2017		0.50	0.30	Brooker Ck. Buffer Preserve	90

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Yes	2017	7	Pasco	Hillsborough and Upper Coastal	4376491	US 41/SR45/LAND O LAKES BLVD FR N OF EHREN CUTOFF TO N OF CALIENTE	Delete	2019		0.02	0.01	BANK	
Yes	2017	7	Pinellas	Upper Coastal Drainage	4379401	US 19 (SR55) @ JOES CREEK BETWEEN 44TH AVE N AND 46TH AVE N	Delete	2017	to bank	0.24	0.08	bank	
Yes	2018	5	Sumter	Withlacoochee River	4385622	I-75 (SR93) at Sumter Co. NB Rest Area	NEW	2018		0.99		Colt Creek State Park	84
Yes	2017	7	Citrus	Upper Coastal Drainage	4394001	US 98/US 19/SR 55/N SUNCOAST BLVD AT INTERSECTION OF SR 44/NE 5TH ST	Delete	2017	to bank	1.98	0.14	BANK	
Yes	2017	7	hillsborough	Tampa Bay Drainage	4394121	S MAYDELL DR AT PALM RIVER BRIDGE REPLACEMENT	Delete	2017	to bank	0.50	0.30	BANK	
Yes	2017	7	Pinellas	Tampa Bay Drainage	4395251	SR 682/PINELLAS BAYWAY FROM SR 699 GULF BLVD TO TOLL PLAZA	NEW	2017		0.50	0.35	Bahia Beach	78
No	2019	7	Hillsborough	Hillsborough River	4395321	MORRIS BRIDGE ROAD FROM FOWLER AVE TO FLETCHER AVE	New	2019		0.20	0.10	Bank	
No	2019	7	Hillsborough	Tampa Bay Drainage	4413871	US 41/SR 45 FROM N O F 15TH AVE TO S OF BULLFROG CREEK	New	2019		0.55	0.29	BANK	
No	2019	7	Hillsborough	Tampa Bay Drainage	4413881	US 301/SR 43 FROM N OF LAKE ST CHARLES BLVD TO N OF PROGRESS BLVD	NEW	2019		0.20	0.14	Bahia Beach	78
No	2019	7	Hillsborough	Tampa Bay Drainage	4413881	US 301/SR 43 FROM N OF LAKE ST CHARLES BLVD TO N OF PROGRESS BLVD	New	2019		0.75	0.43	BANK	
Yes	2009	THEA	Hillsborough	Tampa Bay Drainage	9999999	Lee Roy Selmon Crosstown Extension - Temporary Haul Road	Permitted			0.21	0.06	Ekker Tract	82
Yes	2019	7	Hillsborough	Tampa Bay Drainage	4245133	I-75 @ BIG BEND ROAD SB OFF RAMP & Big Bend Road Widening Design Build	NEW	2019		12.02	8.97	Bahia Beach	78
Yes	2019	7	Hillsborough	Tampa Bay Drainage	4245133	I-75 @ BIG BEND ROAD SB OFF RAMP & Big Bend Road Widening Design Build	NEW	2019		1.77	1.24	Mitigation Bank	
No	2019	7	Pasco	Hillsborough River	4327342	OVERPASS ROAD INTERCHANGE FROM OLD PASCO ROAD TO BOYETTE RD	NEW	2019		10.50	7.35	Conner Preserve	77
No	2019	7	Pasco	Hillsborough River	4327342	OVERPASS ROAD INTERCHANGE FROM OLD PASCO ROAD TO BOYETTE RD	NEW	2019		3.40	1.02	Mitigation Bank	
No	2019	7	Hillsborough	Tampa Bay Drainage	4318212	I-275 (SR 93) FROM N OF MLK TO N OF BUSCH BLVD (TBN Seg 7)	NEW	2019		0.10	0.04	Mitigation Bank	