

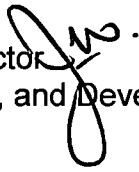


Interoffice Memorandum

AGENDA ITEM

May 22, 2019

TO: Mayor Jerry L. Demings
-AND-
Board of County Commissioners

FROM: Jon V. Weiss, P.E., Director
Planning, Environmental, and Development
Services Department 

CONTACT PERSON: **David D. Jones, P.E., CEP, Manager
Environmental Protection Division
(407) 836-1405**

SUBJECT: June 4, 2019 – Consent Item
Virgin Trains USA Florida, LLC Conservation Area Impact
Permit Modification CAI-19-02-010

Virgin Trains USA Florida, LLC (applicant) is requesting modification of Conservation Area Impact (CAI) Permit CAI-17-11-030, previously approved by the Board on June 19, 2018, and issued to All Aboard Florida – Operations, LLC on July 17, 2018. Subsequent to issuance of CAI-17-11-030, the operating entity completed a name change and is now operating under the name Virgin Trains USA Florida, LLC. The permit modification has been assigned a new number (CAI-19-02-010) for tracking purposes.

The overall passenger rail project is 235 miles in total length and once completed will provide express rail service from Miami to Orlando in approximately three hours. The portion of the project in Orange County is roughly 22 miles, stretching from the St. Johns River to the Orlando International Airport. The project is located primarily within an additional 200-foot right-of-way adjacent to the existing southern limits of the State Road 528 right-of-way. The project is primarily located within District 4 with a small portion in District 5. A portion of the railway project is located within the Econlockhatchee River Protection Area.

The project site comprises 93.83 acres of Class I wetlands, 11.26 acres of Class II wetlands, 11.47 acres of Class III wetlands, 45.41 acres of Class I surface waters, 6.16 acres of Class II surface waters, and 40.90 acres of Class III surface waters. The wetland communities located within the project limits mainly include cypress, wetland forested mixed, freshwater marsh, and wet prairie. Numerous named streams are located within the project limits, including the St. Johns River, Econlockhatchee River, Turkey Creek, Jim Creek, Little Creek, Second Creek, and Green Branch. The undeveloped uplands within the project limits are pine flatwoods, temperate hardwoods, and various pasture lands.

In order to construct portions of an express passenger rail project, including a double-rail track, drainage ditches, stormwater treatment areas, and security fencing, CAI-17-11-030 authorized direct impacts to 106.12 acres of wetlands and 16.61 acres of surface waters; 151.37 acres of secondary wetland impacts; and 15.11 acres of direct impact to required upland buffers.

CAI-17-11-030 also authorized a mitigation plan:

- Purchase of a total of 16.3 credits from the Lucky L and TM/Econ Phase IV Mitigation Banks; and,
- Preservation of the following parcels:
 - 21.11 acres of wetlands in Orange County (JEL aka the Lowe Property); and
 - 16.07 acres of wetlands and 8.06 acres of uplands in Orange County (Pietrzak Property aka Circle C II); and
 - 62.88 acres of wetlands and 24.67 acres of uplands in Seminole County (Conley Parcel); and,
 - 126.51 acres of wetlands and 167.46 acres of uplands in Volusia County (Kemcho Parcel).

The original mitigation plan indicated that all mitigation tracts will be donated to either the St. Johns River Water Management District (SJRWMD) or Orange County, and that development rights for those mitigation areas not proposed for donation to Orange County will be conveyed to Orange County via a Conservation Easement. The Donation Agreement for the Pietrzak Parcel was approved by the Board in April 2017. The credits from TM Econ Phase IV have been purchased.

The applicant proposes the following modifications to the approved mitigation plan:

- The Kemcho and Conley parcels will be donated to the SJRWMD, but a Deed Restriction will now be placed over the lands in favor of Orange County in lieu of a Conservation Easement.
- The applicant proposes to donate the Lowe Tract in its entirety (122.81 acres in size) to Orange County in lieu of recording a conservation easement over just a portion of the tract required to offset wetland impacts.
- Finally, the permit modification will correct a Scrivener's error in the previously approved mitigation tables, revising the mitigation acreage provided at the Lowe Tract from 23.56 acres to 21.11 acres.

No additional impacts to wetlands, surface waters, or required upland buffers are proposed with the modification request. Condition 3 of CAI-17-11-030 allows for any modifications to the mitigation plan to be approved by way of the Consent Agenda.

The applicant has demonstrated the mitigation plan meets County requirements, including the out-of-County mitigation, and as proposed, the mitigation plan fully offsets

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Virgin Trains USA Florida, LLC – Conservation Area Impact Permit Modification CAI-19-02-010

the proposed wetland impacts. Finally, the mitigation plan provides for the protection, preservation, and continuing viability of Class I conservation areas.

There has been no enforcement action taken by the Environmental Protection Division (EPD) on the subject property.

Pursuant to Orange County Code, Chapter 15, Article X, Wetland Conservation Areas Ordinance and Article XI, Econlockhatchee River Protection Ordinance, EPD staff has evaluated the proposed CAI Permit modification and required documentation and recommends approval.

ACTION REQUESTED: **Approval of Conservation Area Impact Permit No. CAI-19-02-010 modifying previously approved CAI-17-11-030 for Virgin Trains USA Florida, LLC. Districts 4 and 5**

JVW/DJ: mg

Attachments

Conservation Area Impact Permit Modification Request



**Conservation Area Impact
Permit Modification Request
Districts 4 & 5**

Applicant:
Virgin Trains USA Florida, LLC

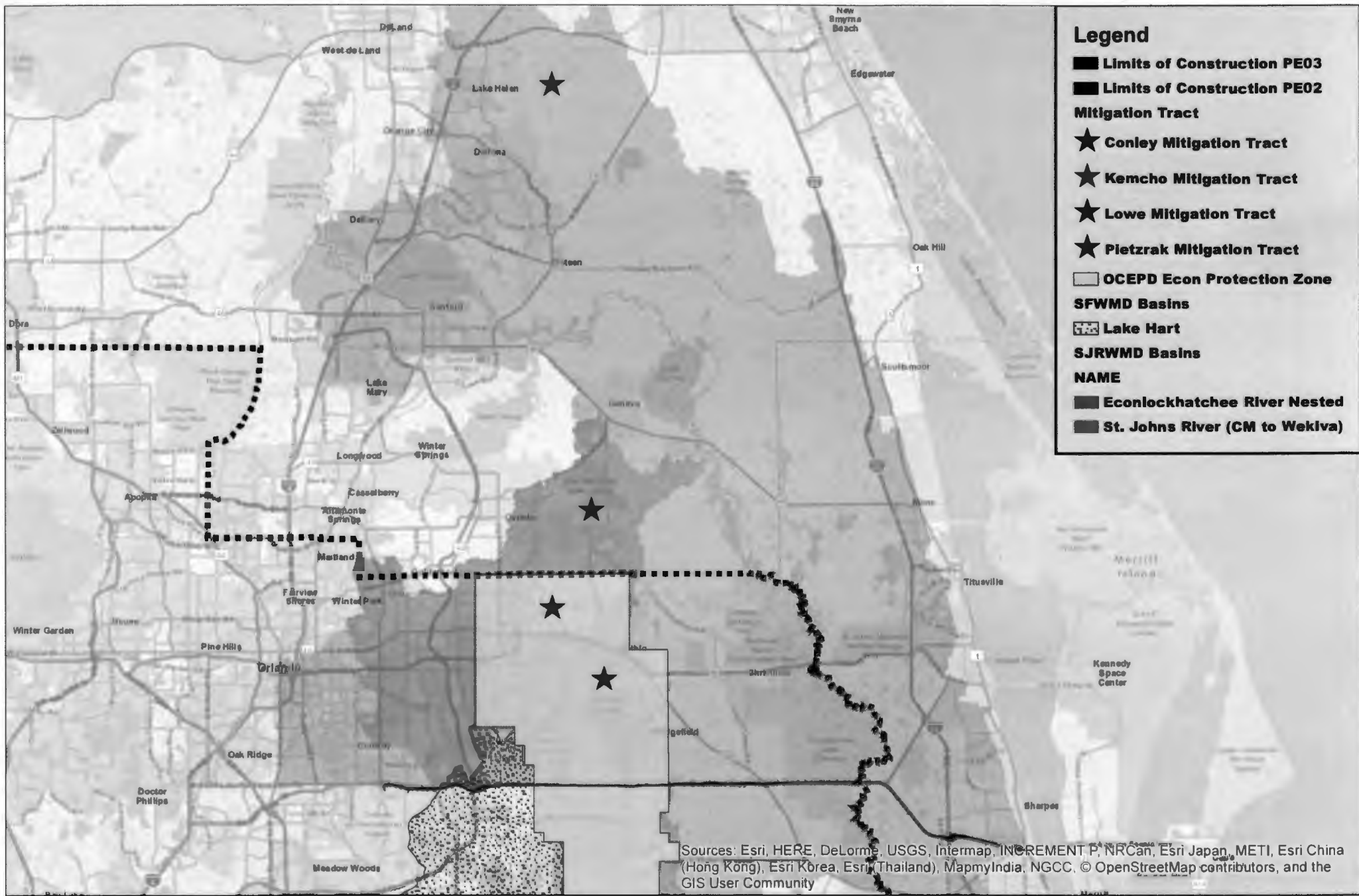
Parcel IDs: Numerous

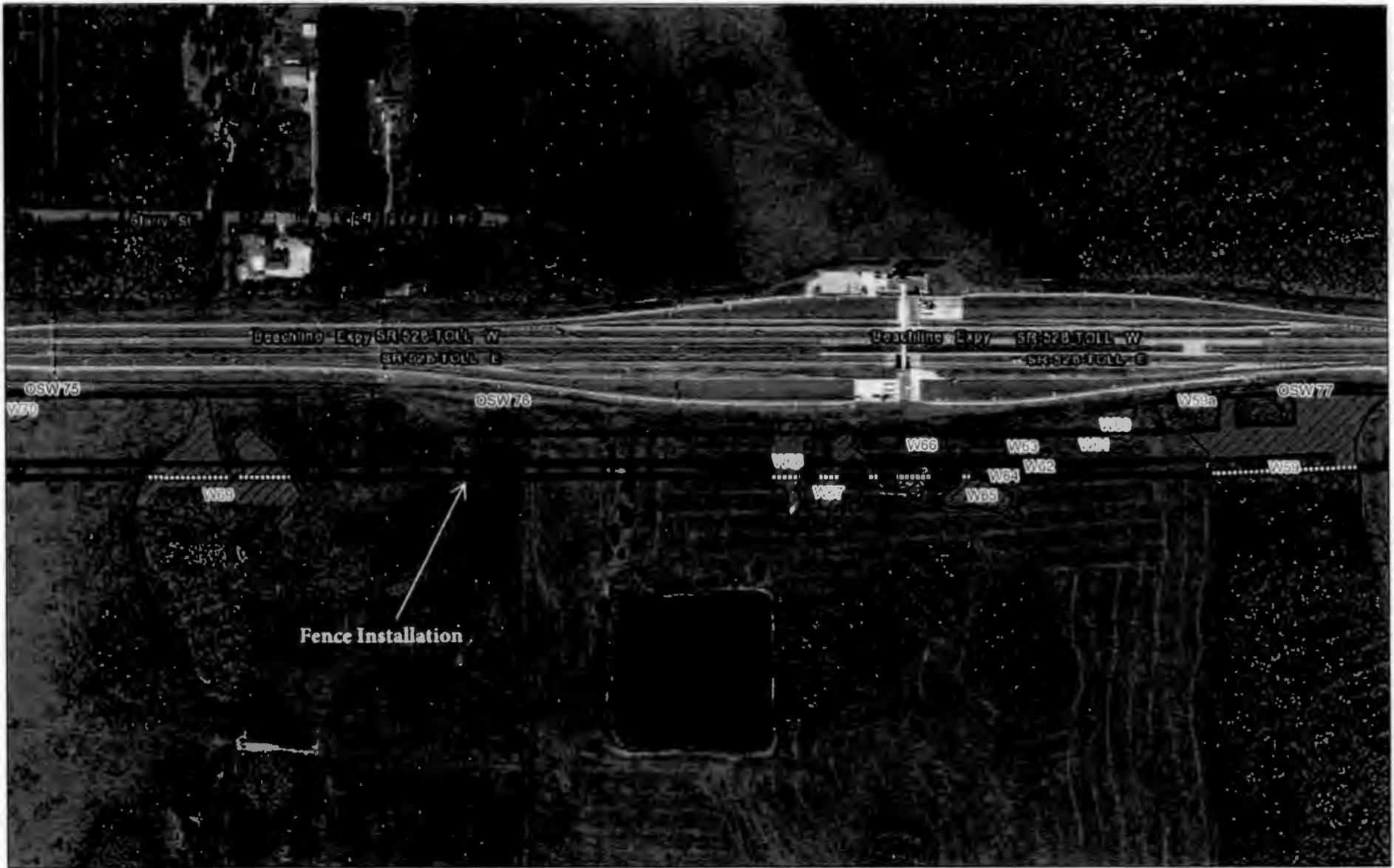
**Conservation Area Impact
Permit No.: CAI-19-02-010**

Project Site - Orange County

Project Site - City of Orlando







Date Revises: ESR April 2012; PDC 2012; AMECPW 2012

Explanation of Features

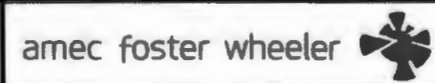
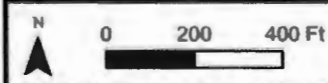
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|--|------------------------|--|----------------------|
| | Fence | | Direct Impacts |
| | Orlando City Limits | | Secondary Impacts |
| | Limits of Construction | | Surface Water Direct |
| | Extent of Wetland | | Surface Water |
| | | | AAF at GOAA* |

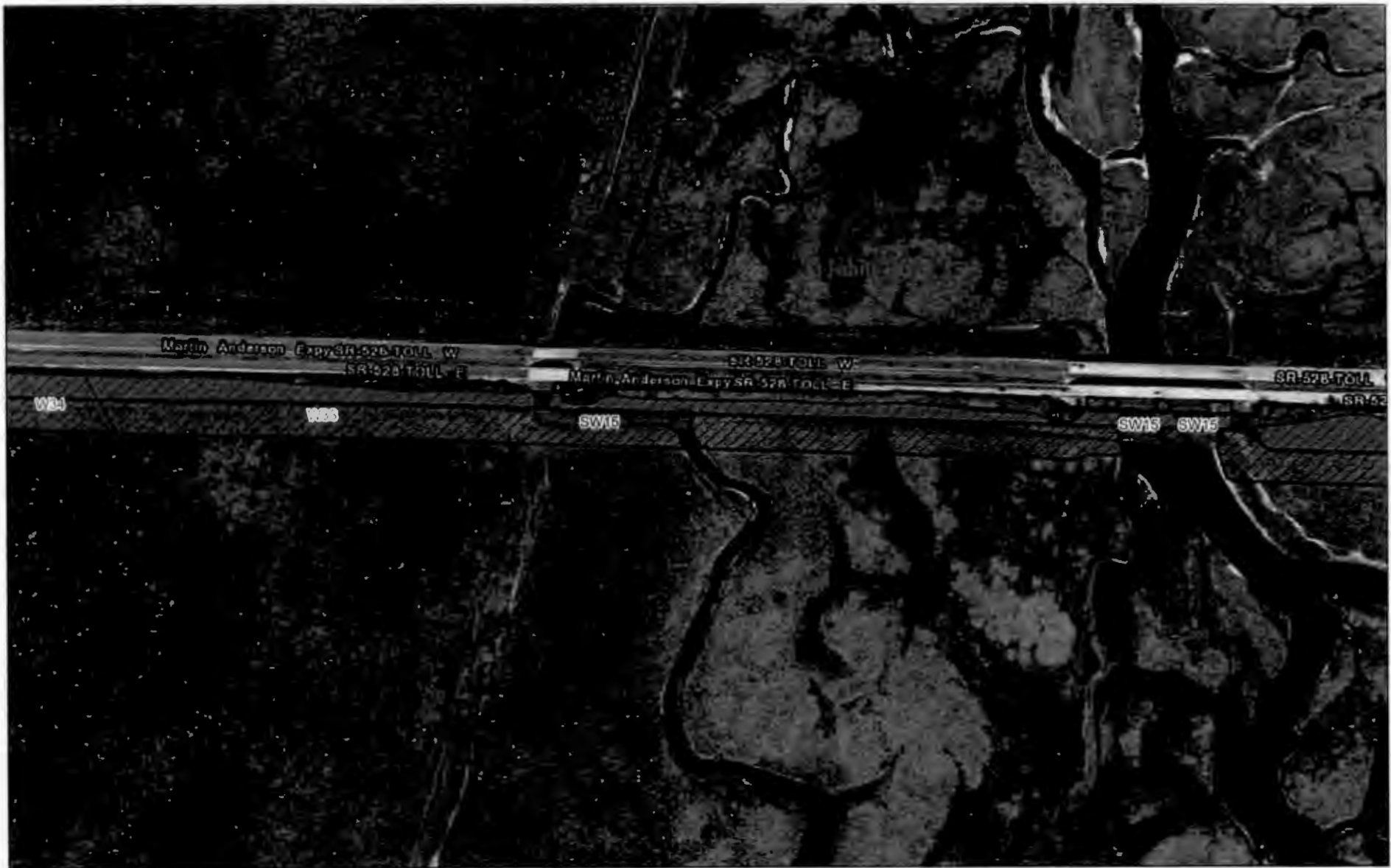
* (Application Number 180719-8, Permit Number 48-00063-S)



Wetland Impacts Along the E-W Corridor in Orange County

All Aboard Florida Intercity Passenger Rail Project



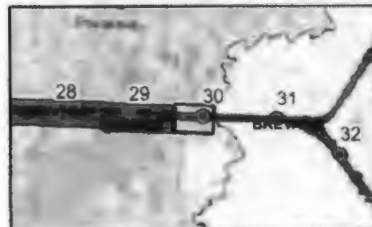


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Explanation of Features

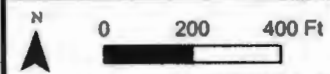
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|------------------------|----------------------|
| Fence | Direct Impacts |
| Orlando City Limits | Secondary Impacts |
| Limits of Construction | Surface Water Direct |
| Extent of Wetland | Surface Water |
| | AAF at GOAA* |

* (Application Number 160719-S, Permit Number 48-00063-S)



Wetland Impacts Along the E-W Corridor in Orange County

All Aboard Florida Intercity Passenger Rail Project



amec foster wheeler



OVERALL WETLAND IMPACT AND MITIGATION PLAN

The All Aboard Florida Railway project traverses along State Road 528 beginning at approximately the Goldenrod Overpass and ending at the Orange County line at the St. Johns River Bridge. This project proposes 106.12 acres of direct wetland impacts, 151.37 acres of secondary impacts and 16.61 acres of surface water impacts. To offset the proposed impacts, a multi-component mitigation plan will be implemented. These elements include the purchase of credits at mitigation banks and the preservation of large tracts of undeveloped lands that are contiguous to other State owned or County owned lands. All mitigation tracts will be donated to either St Johns River Water Management District (SJRWMD) or Orange County.

LAKE HART BASIN - 18

Within the Lake Hart Basin, 18.93 acres of direct wetland and 46.70 acres of secondary impacts are proposed resulting in a Functional Loss of 12.77. To offset these impacts, 12.57 forested credits and 0.20 herbaceous credit will be purchased from Lucky L Mitigation Bank. A Letter of Reservation has been provided.

The overall Functional Loss from the proposed wetland and upland RHPZ impacts is 12.77. The overall Functional Gain of the proposed purchased credits is 12.77. All mitigation is located within the same hydrologic basin and is appropriate mitigation as it provides greater long term ecological value than the wetlands proposed for impact.

ECONLOCKHATCHEE RIVER HYDROLOGIC NESTED BASIN – 19

Within the Econlockhatchee River Basin, the All Aboard Segment project proposes 38.40 acres of direct forested and herbaceous wetland impacts, 43.46 acres of secondary impacts and 15.11 acres of upland RHPZ impacts. These impacts include 19.88 acres of direct wetland RHPZ, 16.49 acres of secondary wetland RHPZ and 15.11 acres of direct upland RHPZ impacts. An overall Function Loss of 32.15 is anticipated based on the UMAM scores. To mitigate the loss of function, the Applicant proposes the preservation of high quality, mature wetland RHPZ, uplands RHPZ and uplands within the Econlockhatchee Basin at the Conley Mitigation Tract, Pietrzak Mitigation Tract and the Lowe Tract. A total of 102.51 acres of wetland RHPZ, 15.26 acres of upland RHPZ and 17.47 acres of uplands adjacent to the upland RHPZ will be preserved providing an overall Functional Gain of 28.62. A total of 3.53 credits will be purchased at TM Econ Phases 1-3 and TM Econ Phase IV Mitigation Banks to complete the overall mitigation plan. The debits will be deducted from the Mitigation Banks ledgers' prior to the wetlands being impacted.

The overall Functional Loss from the proposed wetland and upland RHPZ impacts is 32.15. The overall Functional Gain of the proposed preservation and purchased credits is 32.15. All

mitigation is located within the same hydrologic basin and is appropriate mitigation as it provides greater long term ecological value than the wetlands proposed for impact.

Conley Mitigation Tract

The Conley Mitigation Tract is located on the southern end of the Little Big Econ State Forest (SJRWMD owned) within Section 16 and 17, Township 21S and Range 32 East in Seminole County, Florida. This property is located within the Econlockhatchee River Hydrologic Basin (19). The mitigation tract totals 103.16 acres, of which, 87.55 acres are proposed for donation to St. Johns River Water Management District to mitigate impacts proposed within the Econlockhatchee River Hydrologic Basin (18) for Segment PE02. A portion of the property has been preserved (13.32 acres) as part of a previously issued SJRWMD Permit 65713-6. Approximately 2.29 acres of the remaining property will be donated but not utilized for mitigation as this portion of the property is encumbered by access easements dedicated to other third parties. These third parties consist of neighboring parcel owners with dedicated access rights through the property to access the former State Road 13 (aka Florida Trail). This access easement is located on the southeasterly boundary of the Conley Tract and borders the northern boundary of Osprey Lakes Phase 1.

The Off-site Land Preservation as Mitigation and Donation of the Conley Tract is an important piece of the regional conservation lands and extends SJRWMD conservation lands ownership. The Conley Tract provides unique fish and wildlife habitat and is located entirely within the Econlockhatchee River Basin. The preservation of the property prevents future development along State owned lands and prevents nuisance and exotic proliferation from the development of the single-family lots. Further, the preservation of the Conley Tract closes a physical gap and optimizes the preservation capabilities of this area of the Little Big Econ State Forest.

The Conley Tract will be donated and managed by SJRWMD with a deed restriction attached to the warranty deed requiring that the land be retained as conservation in perpetuity. This deed restriction also includes the Orange County Board of County Commissions as one of the authorizing entities to release or terminate the deed restriction. The land donation will be completed prior to the wetlands being impacted. The preservation and donation of the Conley Mitigation Tract to SJRWMD will provide a 17.54 Total Relative Functional Gain for the All Aboard project.

Pietrzak Mitigation Tract

The Pietrzak Mitigation Tract totals approximately 61.78 acres and is located northeast of the intersection of N. Tanner Road and Lake Pickett Road in Orange County, Florida. This property completes the corridor connection between Ken Bosserman Econlockhatchee River Preserve and

Rybolt Property, totaling in over 1,000 acres of forested wetland and upland conservation lands along the Econlockhatchee River. This property contains 45.60 acres of wetland RHPZ and 11.50 acres of Upland RHPZ. Several other SJRWMD permitted projects have already utilized credits to offset wetland impacts within the basin. Within this tract, 16.07 acres of wetland RHPZ and 8.06 acres of upland RHPZ will be preserved as mitigation for the All Aboard project. A total of 4.72 FG from this mitigation tract will be provided to offset wetland impacts within the Econlockhatchee River Basin. This entire property will be donated fee simple to Orange County with a management plan.

A conservation easement dedicated to SJRWMD will be recorded over the Pietrzak Tract and donated to Orange County. The land donations will be completed and the debits deducted from the Mitigation Banks ledgers' prior to the wetlands being impacted. The land donation will be completed prior to the wetlands being impacted.

Lowe Mitigation Tract

The Lowe Mitigation Tract totals 122.81 acres and is located north of Partin Farms Road, approximately 1 mile west of the South County Road 13 and Partin Farms Road intersection; within Section 33, Township 22 South, Range 32 East in Orange County, Florida. The mitigation areas consist of approximately 82.48 acres of forest RHPZ wetlands, a 0.04-acre herbaceous RHPZ wetland and 36.43 acres of upland RHPZ. Within this tract, 21.11 acres of wetland RHPZ will be preserved as mitigation for the All Aboard project. A total of 6.36 Functional Gain from this mitigation tract will be provided to offset wetland impacts within the Econlockhatchee River Basin for the All Aboard project. The remaining 3.86 acres consists of a single-family homesite and existing powerline easement.

ST JOHNS RIVER (CANAVERAL MARSHES TO WEKIVA) – 18

Within the St Johns River (Canaveral Marshes to Wekiva) Basin, the All Aboard project proposes 48.79 acres of direct forested and herbaceous wetland impacts, 61.21 acres of secondary impacts. An overall Function Loss of 34.65 is anticipated based on the UMAM scores. To offset the proposed impacts, the Applicant proposes the preservation of 126.51 acres of forested and herbaceous wetlands and 167.46 acres of pine flatwoods at the Kemcho Mitigation Tract. The Functional Gain of this Mitigation Tract is 65.07. The overall Functional Loss of the proposed wetland impacts within the Orange County jurisdiction is 34.65. The excess mitigation provides for compensatory mitigation for wetland impacts located outside Orange County jurisdiction and within the SJRWMD jurisdiction for the All Aboard project.

Kemcho Mitigation Tract

The Kemcho Mitigation Tract is located east of the Deep Creek Preserve (SJRWMD owned) within Sections 26 and 35, Township 17S and Range 31 East in Volusia County, Florida and totals approximately 1,250 acres. This property is located within the St. Johns River (Canaveral Marshes to Wekiva) Hydrologic Basin (18). Lands donated as part of the Kemcho Tract will be part of a 30-mile wetland and wildlife corridor that extends through Volusia and Flagler Counties containing almost 11,000 acres of forested and herbaceous wetlands, as well as uplands. To date, 115.54 acres of the Kemcho Tract have been permitted for preservation and donation fee simple to SJRWMD for various ERP permits. The All Aboard Rail mitigation is contiguous to these already permitted mitigation areas and contiguous to Deep Creek Preserve.

The overall Functional Loss from the proposed wetland impacts is 34.65. The overall Functional Gain of the proposed preservation is 34.65. All mitigation is located within the same hydrologic basin and is appropriate mitigation as it provides greater long term ecological value than the wetlands proposed for impact.

Table 1a. OCEPD Direct and Secondary Wetland Impacts Site/Project Name: AAF PE02/PE03 Orange County						Application Number:	Date: May 9, 2018
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Impact Summary			TEMP Sorting #	Impact Type	Classification	Direction	Assessment Area	Location and Landscape Support		Water Environment		Community Structure		Impact Delta	Impact Acres	Functional Loss
								Current	w/impact	Current	w/impact	Current	w/impact			
SFWM	Lake Hart Basin (83)	6300	147	Secondary	Class I	North	W142 (secondary north)	2	1	3	3	4	4	0.03	0.42	0.01
SFWM	Lake Hart Basin (83)	6210	140	Direct	Class I	Direct	W140 (direct)	2	0	3	0	4	0	0.30	0.12	0.04
SFWM	Lake Hart Basin (83)	6210	140	Secondary	Class I	North	W140 (secondary north)	2	1	3	3	4	4	0.03	3.58	0.12
SFWM	Lake Hart Basin (83)	6300	137	Direct/Secondary	Class I	Direct/South	W137 (direct/secondary south 75')	4	0	7	0	7	0	0.60	15.20	9.12
SFWM	Lake Hart Basin (83)	6300	137	Secondary	Class I	North	W137 (secondary north)	4	3	7	7	7	7	0.03	32.34	1.08
SFWM	Lake Hart Basin (83)	6300	134	Direct/Secondary	Class I	Direct/South	W134 (direct/secondary south 75')	2	0	3	0	4	0	0.30	0.12	0.04
SFWM	Lake Hart Basin (83)	6300	134	Secondary	Class I	North	W134 (secondary north)	2	1	3	2	4	4	0.07	4.41	0.29
SFWM	Lake Hart Basin (83)	6300	129	Secondary	Class I	Secondary	W129 (secondary east 75')	2	2	3	3	3	2	0.03	0.23	0.01
SFWM	Lake Hart Basin (83)	6300	124	Secondary	Class I	North	W124 (secondary north)	2	1	3	3	3	3	0.03	0.91	0.03
SFWM	Lake Hart Basin (83)	6210	122	Secondary	Class III	North	W122 (secondary north)	2	1	2	2	4	4	0.03	1.02	0.03
SFWM	Lake Hart Basin (83)	6300	120	Secondary	Class III	North	W120 (secondary north)	2	1	2	2	2	3	0.03	0.69	0.02
SFWM	Lake Hart Basin (83)	6170	118	Secondary	Class I	North	W118 (secondary north)	2	1	3	3	3	3	0.03	1.37	0.05
SFWM	Lake Hart Basin (83)	6410	116	Direct	Class I	Direct	W116 (direct)	2	0	2	0	2	0	0.20	0.69	0.20
SFWM	Lake Hart Basin (83)	6210	115	Direct	Class I	Direct	W115 (direct)	4	0	7	0	7	0	0.60	2.50	1.50
SFWM	Lake Hart Basin (83)	6210	115	Secondary	Class I	South	W115 (secondary south 75')	4	2	7	6	7	6	0.13	1.73	0.23
SFWM	Econlockhatchee River Nested (19)	6410	114	Direct	Class I	Direct	W114 (direct)	2	0	2	0	2	0	0.20	3.26	0.65
SFWM	Econlockhatchee River Nested (19)	6300/6410	113	Direct	Class I	Direct	W113 (direct)	4	0	5	0	5	0	0.47	3.44	1.61
SFWM	Econlockhatchee River Nested (19)	6300/6410	113	Secondary	Class I	South	W113 (secondary south 75'/125')	4	2	5	4	5	4	0.13	2.35	0.31
SJRWMD	Econlockhatchee River Nested (19)	6210	112	Direct	Class I	Direct	W112 (direct)	3	0	3	0	5	0	0.37	0.04	0.01
SJRWMD	Econlockhatchee River Nested (19)	6210	111	Secondary	Class I	North	W112 (secondary north)	3	2	3	3	5	5	0.03	0.66	0.02
SJRWMD	Econlockhatchee River Nested (19)	6210/6410	111	Direct	Class I	Direct	W111 (direct)	5	0	7	0	8	0	0.67	2.39	1.59
SJRWMD	Econlockhatchee River Nested (19)	6210/6410	111	Secondary	Class I	North	W111 (secondary north)	5	2	7	7	8	7	0.13	0.24	0.03
SJRWMD	Econlockhatchee River Nested (19)	6210/6410	111	Secondary	Class I	South	W111 (secondary south 75')	5	3	7	7	8	7	0.10	1.44	0.14
SJRWMD	Econlockhatchee River Nested (19)	6410	110	Direct	Class III	Direct	W110 (<0.5 acres)	5	0	7	0	7	0	0.63	0.06	0.04
SJRWMD	Econlockhatchee River Nested (19)	6410	110	Secondary	Class III	South	W110 (<0.5 acres)	5	0	7	0	7	0	0.63	0.15	0.10
SJRWMD	Econlockhatchee River Nested (19)	6410	109	Direct	Class III	Direct	W109 (<0.5 acres)	4	0	6	0	6	0	0.53	0.04	0.02
SJRWMD	Econlockhatchee River Nested (19)	6410	109	Secondary	Class III	North	W109 (<0.5 acres)	4	0	6	0	6	0	0.53	0.04	0.02
SJRWMD	Econlockhatchee River Nested (19)	6210	108	Direct	Class I	Direct	W108 (direct)	5	0	7	0	7	0	0.63	3.40	2.15
SJRWMD	Econlockhatchee River Nested (19)	6210	108	Secondary	Class I	North	W108 (secondary north)	5	3	7	6	7	6	0.13	1.07	0.14
SJRWMD	Econlockhatchee River Nested (19)	6210	108	Secondary	Class I	South	W108 (secondary south 75')	5	3	7	6	7	6	0.13	2.44	0.33
SJRWMD	Econlockhatchee River Nested (19)	6430	106	Direct	Class III	Direct	W106 (direct)	4	0	3	0	4	0	0.37	0.42	0.15
SJRWMD	Econlockhatchee River Nested (19)	6430	106	Secondary	Class III	South	W106 (secondary south 125')	4	0	3	0	4	0	0.37	0.42	0.15
SJRWMD	Econlockhatchee River Nested (19)	6300	105a	Direct	Class I	Direct	W105a (direct)	3	0	3	0	4	0	0.33	0.76	0.25
SJRWMD	Econlockhatchee River Nested (19)	6300	105a	Secondary	Class I	South	W105a (secondary south 75')	3	0	3	0	4	0	0.33	0.08	0.03
SJRWMD	Econlockhatchee River Nested (19)	6430	105b	Direct	Class I	Direct	W105b (direct)	3	0	3	0	5	0	0.37	0.45	0.17
SJRWMD	Econlockhatchee River Nested (19)	6430	105b	Secondary	Class I	North	W105b (secondary north)	3	2	3	3	5	4	0.07	2.67	0.18
SJRWMD	Econlockhatchee River Nested (19)	6170	104	Direct	Class III	Direct	W104 (direct)	2	0	2	0	3	0	0.23	0.14	0.03
SJRWMD	Econlockhatchee River Nested (19)	6170	104	Secondary	Class III	North	W104 (secondary north)	2	0	2	0	3	0	0.23	0.39	0.09
SJRWMD	Econlockhatchee River Nested (19)	6410	102	Direct	Class III	Direct	W102 (<0.5 acres)	4	0	6	0	6	0	0.53	0.01	0.01
SJRWMD	Econlockhatchee River Nested (19)	6410	102	Secondary	Class III	South	W102 (<0.5 acres)	4	0	6	0	6	0	0.53	0.06	0.03
SJRWMD	Econlockhatchee River Nested (19)	6300	101	Direct	Class III	Direct	W101 (direct)	4	0	6	0	7	0	0.57	0.21	0.12
SJRWMD	Econlockhatchee River Nested (19)	6300	100	Direct	Class III	Direct	W100 (direct)	4	0	5	0	7	0	0.53	1.38	0.74
SJRWMD	Econlockhatchee River Nested (19)	6300	100	Secondary	Class III	North	W100 (secondary north)	4	2	5	5	7	6	0.10	3.82	0.38
SJRWMD	Econlockhatchee River Nested (19)	6300	100	Secondary	Class III	South	W100 (secondary south 75')	4	0	5	0	7	0	0.53	0.14	0.07
SJRWMD	Econlockhatchee River Nested (19)	6210	99	Direct	Class III	Direct	W99 (direct)	5	0	7	0	7	0	0.63	0.85	0.54
SJRWMD	Econlockhatchee River Nested (19)	6210	99	Secondary	Class III	North	W99 (secondary north)	5	2	7	7	7	6	0.13	0.72	0.10
SJRWMD	Econlockhatchee River Nested (19)	6210	99	Secondary	Class III	South	W99 (secondary south 75')	5	0	7	0	7	0	0.63	0.14	0.09
SJRWMD	Econlockhatchee River Nested (19)	6300	96	Direct	Class III	Direct	W96 (direct)	5	0	4	0	5	0	0.47	0.84	0.39
SJRWMD	Econlockhatchee River Nested (19)	6300	96	Secondary	Class III	North	W96 (secondary north)	5	2	4	4	5	4	0.13	0.97	0.13
SJRWMD	Econlockhatchee River Nested (19)	6300	96	Secondary	Class III	South	W96 (secondary south 75')	5	0	4	0	5	0	0.47	0.42	0.20
SJRWMD	Econlockhatchee River Nested (19)	6400	95	Secondary	Class III	South	W95 (<0.5 acres)	4	0	5	0	6	0	0.50	0.01	0.01
SJRWMD	Econlockhatchee River Nested (19)	6400	94	Direct	Class III	Direct	W94 (<0.5 acres)	4	0	5	0	6	0	0.50	0.01	0.01
SJRWMD	Econlockhatchee River Nested (19)	6400	94	Secondary	Class III	South	W94 (<0.5 acres)	4	0	5	0	6	0	0.50	0.11	0.06
SJRWMD	Econlockhatchee River Nested (19)	6170	93	Secondary	Class III	South	W93 (secondary south 125')	4	2	5	5	6	5	0.10	0.50	0.05
SJRWMD	Econlockhatchee River Nested (19)	6170	92	Direct	Class I	Direct	W92 (direct)	6	0	7	0	8	0	0.70	2.21	1.65
SJRWMD	Econlockhatchee River Nested (19)	6170	92	Secondary	Class I	North	W92 (secondary north)	6	3	7	6	8	7	0.17	0.47	0.08
SJRWMD	Econlockhatchee River Nested (19)	6170	92	Secondary	Class I	South	W92 (secondary south 75')	6	4	7	7	8	7	0.10	0.82	0.08
SJRWMD	Econlockhatchee River Nested (19)	6170	91	Direct	Class I	Direct	W91 (direct)	3	0	3	0	4	0	0.33	0.28	0.09
SJRWMD	Econlockhatchee River Nested (19)	6170	91	Secondary	Class I	North	W91 (secondary north)	3	2	3	3	4	4	0.03	0.56	0.02
SJRWMD	Econlockhatchee River Nested (19)	6170	89	Secondary	Class I	North	W89 (secondary north)	3	2	3	3	4	4	0.03	0.30	0.01
SJRWMD	Econlockhatchee River Nested (19)	6170	88	Direct	Class I	Direct	W88 (direct)	5	0	6	0	7	0	0.60	1.34	0.80
SJRWMD	Econlockhatchee River Nested (19)	6170	88	Secondary	Class I	North	W88 (secondary north)	5	2	6	6	7	6	0.13	0.46	0.06
SJRWMD	Econlockhatchee River Nested (19)	6170	88	Secondary	Class I	South	W88 (secondary south 75')	5	3	6	6	7	6	0.10	0.75	0.08
SJRWMD	Econlockhatchee River Nested (19)	6170	86	Direct	Class I	Direct	W86 (direct AAF only)	6	0	7	0	8	0	0.63	0.56	0.35
SJRWMD	Econlockhatchee River Nested (19)	6170	86	Direct	Class I	Direct	W86 (direct AAF and CFX secondary)	6	0	8	0	6	0	0.60	0.17	0.10
SJRWMD	Econlockhatchee River Nested (19)	6170	86	Secondary	Class I	North	W86 (secondary north AAF only)	6	3	7	6	6	5	0.17	0.03	0.01

Table 1a. OCEPD Direct and Secondary Wetland Impacts Site/Project Name: AAP P602/PE03 Orange County						Application Number:		Date: May 9, 2016	
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Impact Summary										Location and Landscape Support		Water Environment		Community Structure		Impact Delta	Impact Acres	Functional Loss
District	Basin	FLUCCS	TEMP Sorting #	Impact Type	Classification	Direction	Assessment Area	Current	w/Impact	Current	w/Impact	Current	w/Impact					
SJRWMD	Econlockhatchee River Nested (19)	6170	86	Secondary	Class I	North	W86 (secondary north AAF and CFX)	6	3	6	6	6	5	0.13	0.23	0.03		
SJRWMD	Econlockhatchee River Nested (19)	6170	86	Secondary	Class I	South	W86 (secondary south 75')	6	4	7	7	6	5	0.10	0.43	0.04		
SJRWMD	Econlockhatchee River Nested (19)	6410	85	Direct	Class I	Direct	W85 (direct AAF only)	6	0	7	0	4	0	0.57	0.29	0.16		
SJRWMD	Econlockhatchee River Nested (19)	6410	85	Direct	Class I	Direct	W85 (direct AAF and CFX secondary)	5	0	7	0	4	0	0.53	0.04	0.02		
SJRWMD	Econlockhatchee River Nested (19)	6410	85	Secondary	Class I	North	W85 (secondary north AAF only)	6	4	7	7	4	4	0.07	0.26	0.02		
SJRWMD	Econlockhatchee River Nested (19)	6410	85	Secondary	Class I	North	W85 (secondary north AAF and CFX)	5	4	7	7	4	4	0.03	0.64	0.02		
SJRWMD	Econlockhatchee River Nested (19)	6410	85	Secondary	Class I	South	W85 (secondary south 75')	6	4	7	7	3	3	0.07	0.08	0.01		
SJRWMD	Econlockhatchee River Nested (19)	6170	83	Direct	Class I	Direct	W83 (direct AAF only)	6	0	8	0	8	0	0.73	6.20	4.55		
SJRWMD	Econlockhatchee River Nested (19)	6170	83	Direct	Class I	Direct	W83 (direct AAF and CFX secondary)	6	0	6	0	6	0	0.60	1.45	0.87		
SJRWMD	Econlockhatchee River Nested (19)	6170	83	Secondary	Class I	North	W83 (secondary north AAF only)	6	3	8	7	8	7	0.17	0.93	0.16		
SJRWMD	Econlockhatchee River Nested (19)	6170	83	Secondary	Class I	South	W83 (secondary south 75')	6	4	8	8	8	7	0.10	2.84	0.28		
SJRWMD	Econlockhatchee River Nested (19)	6170	83a	Direct	Class I	Direct	W83a (direct)	3	0	5	0	5	0	0.43	0.06	0.03		
SJRWMD	Econlockhatchee River Nested (19)	6170	83a	Secondary	Class I	North	W83a (secondary north)	3	2	5	5	5	4	0.07	0.07	0.00		
SJRWMD	Econlockhatchee River Nested (19)	6300	82	Direct	Class II	Direct	W82 (direct)	4	0	3	0	4	0	0.37	5.36	1.97		
SJRWMD	Econlockhatchee River Nested (19)	6300	82	Secondary	Class II	North	W82 (secondary north)	4	2	3	3	4	3	0.10	5.25	0.53		
SJRWMD	Econlockhatchee River Nested (19)	6300	82	Secondary	Class II	South	W82 (secondary south 75')	4	2	3	2	4	3	0.13	1.73	0.23		
SJRWMD	Econlockhatchee River Nested (19)	6410	81a	Secondary	Class II	North	W81a (secondary north)	3	2	3	3	3	3	0.03	1.82	0.05		
SJRWMD	Econlockhatchee River Nested (19)	6300	81b	Secondary	Class II	North	W81b (secondary north)	4	2	3	3	4	4	0.07	3.18	0.21		
SJRWMD	Econlockhatchee River Nested (19)	6410	80	Secondary	Class II	South	W80 (secondary south 75'/125')	4	3	5	5	5	5	0.03	0.01	0.00		
SJRWMD	Econlockhatchee River Nested (19)	6410	79	Direct	Class III	Direct	W79 (direct)	3	0	2	0	2	0	0.23	0.05	0.01		
SJRWMD	Econlockhatchee River Nested (19)	6410	79	Secondary	Class III	North	W79 (secondary north)	3	2	2	2	2	2	0.03	0.26	0.01		
SJRWMD	Econlockhatchee River Nested (19)	6300	78	Direct	Class III	Direct	W78 (direct)	4	0	5	0	6	0	0.50	0.91	0.46		
SJRWMD	Econlockhatchee River Nested (19)	6300	78	Secondary	Class III	North	W78 (secondary north)	4	0	5	0	6	0	0.50	0.28	0.14		
SJRWMD	Econlockhatchee River Nested (19)	6300	78	Secondary	Class III	South	W78 (secondary south 75')	4	2	5	4	6	4	0.17	0.63	0.11		
SJRWMD	Econlockhatchee River Nested (19)	6210	76	Direct	Class III	Direct	W76 (direct)	3	0	2	0	2	0	0.23	0.07	0.02		
SJRWMD	Econlockhatchee River Nested (19)	6210	76	Secondary	Class III	North	W76 (secondary north)	3	2	2	2	2	2	0.03	0.22	0.01		
SJRWMD	Econlockhatchee River Nested (19)	6210	75	Direct	Class III	Direct	W75 (direct)	4	0	5	0	6	0	0.60	0.53	0.27		
SJRWMD	Econlockhatchee River Nested (19)	6210	75	Secondary	Class III	North	W75 (secondary north)	4	2	5	5	6	5	0.10	0.65	0.07		
SJRWMD	Econlockhatchee River Nested (19)	6480	72	Secondary	Class III	South	W72 (<0.5 acres)	5	0	6	0	7	0	0.60	0.02	0.01		
SJRWMD	Econlockhatchee River Nested (19)	6210/6410	71	Direct	Class II	Direct	W71 (direct)	5	0	6	0	7	0	0.60	0.40	0.24		
SJRWMD	Econlockhatchee River Nested (19)	6210/6410	71	Secondary	Class II	North	W71 (secondary north)	5	0	6	0	7	0	0.60	0.32	0.19		
SJRWMD	Econlockhatchee River Nested (19)	6210	71	Secondary	Class II	South	W71 (secondary south 125')	5	3	6	6	7	6	0.10	0.56	0.06		
SJRWMD	Econlockhatchee River Nested (19)	6210	70	Direct	Class III	Direct	W70 (<0.5 acres)	3	0	5	0	6	0	0.47	0.41	0.19		
SJRWMD	Econlockhatchee River Nested (19)	6210/6410	69	Direct	Class I	Direct	W69 (direct)	4	0	6	0	6	0	0.50	0.65	0.33		
SJRWMD	Econlockhatchee River Nested (19)	6210/6410	69	Secondary	Class I	South	W69 (secondary south 75'/125')	4	2	5	5	6	5	0.10	1.01	0.10		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	68	Direct	Class III	Direct	W68 (direct)	4	0	4	0	4	0	0.40	0.23	0.09		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	68	Secondary	Class III	North	W68 (secondary north)	4	0	4	0	4	0	0.40	0.09	0.04		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	68	Secondary	Class III	South	W68 (secondary south 125')	4	0	4	0	4	0	0.40	0.18	0.07		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	67	Direct	Class III	Direct	W67 (direct)	4	0	4	0	4	0	0.40	0.15	0.06		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	67	Secondary	Class III	South	W67 (secondary south 125')	4	0	4	0	4	0	0.40	0.41	0.16		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6400	66	Direct	Class III	Direct	W65 (<0.5 acres)	4	0	4	0	4	0	0.40	0.08	0.02		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6400	66	Secondary	Class III	Secondary	W65 (<0.5 acres)	4	0	4	0	4	0	0.40	0.39	0.16		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6400	64	Secondary	Class III	Secondary	W64 (<0.5 acres)	4	0	4	0	4	0	0.40	0.04	0.02		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6400	63	Direct	Class III	Direct	W63 (<0.5 acres)	4	0	4	0	4	0	0.40	0.03	0.01		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6400	62	Direct	Class III	Direct	W62 (<0.5 acres)	4	0	4	0	4	0	0.40	0.02	0.01		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6400	62	Secondary	Class III	Secondary	W62 (<0.5 acres)	4	0	4	0	4	0	0.40	0.03	0.01		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6400	61	Direct	Class III	Direct	W61 (<0.5 acres)	4	0	4	0	4	0	0.40	0.02	0.01		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6400	60	Direct	Class III	Direct	W60 (<0.5 acres)	4	0	4	0	4	0	0.40	0.05	0.02		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6400	60	Secondary	Class III	Secondary	W60 (<0.5 acres)	4	0	4	0	4	0	0.40	0.14	0.06		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	59	Direct	Class I	Direct	W59 (direct)	5	0	7	0	7	0	0.63	1.78	1.13		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	59	Previously Mitigated	Class I	NA	W59A (<0.5 acres)									0.00		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	59	Secondary	Class I	North	W59 (secondary north)	5	2	7	6	7	6	0.17	0.73	0.12		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	59	Secondary	Class I	South	W59 (secondary south 75')	5	3	7	7	7	6	0.10	0.81	0.08		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	58	Direct	Class III	Direct	W58 (direct)	4	0	4	0	4	0	0.40	0.07	0.03		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	58	Secondary	Class III	South	W58 (secondary south 125')	4	2	4	4	4	3	0.10	0.45	0.05		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	57	Direct	Class I	Direct	W57 (direct)	5	0	7	0	7	0	0.63	3.65	2.31		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	57	Secondary	Class I	North	W57 (secondary north)	5	2	7	5	7	6	0.20	0.44	0.05		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	57	Secondary	Class I	South	W57 (secondary south 75')	5	3	7	7	7	6	0.10	1.97	0.20		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	56	Direct	Class I	Direct	W56 (direct)	3	0	2	0	3	0	0.27	0.34	0.09		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	56	Secondary	Class I	North	W56 (secondary north)	3	2	2	2	3	2	0.07	0.45	0.03		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	55	Direct	Class I	Direct	W55 (direct)	5	0	7	0	7	0	0.63	2.27	1.44		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	55	Secondary	Class I	North	W55 (secondary north)	5	2	7	5	7	6	0.20	1.80	0.36		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	55	Secondary	Class I	South	W55 (secondary south 75')	5	3	7	6	7	6	0.13	1.32	0.18		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	54	Direct	Class I	Direct	W54 (direct)	3	0	4	0	5	0	0.40	0.09	0.04		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	54	Secondary	Class I	North	W54 (secondary north)	3	2	4	4	5	4	0.07	2.00	0.13		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	52	Direct	Class III	Direct	W52 (direct)	4	0	4	0	4	0	0.40	0.43	0.17		

Table 1a. OCEPD Direct and Secondary Wetland Impacts								Application Number:		Date:								
Site/Project Name: AAF PE02/PE03 Orange County										May 9, 2018								
Impact Summary																		
District	Basin	FLUCCS	TEMP Sorting #	Impact Type	Classification	Direction	Assessment Area	Location and Landscape Support		Water Environment		Community Structure		Impact Delta	Impact Acres	Functional Loss		
								Current	w/Impact	Current	w/Impact	Current	w/Impact					
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	52	Secondary	Class III	North	W52 (secondary north)	4	2	4	2	4	2	0.20	0.49	0.10		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	52	Secondary	Class III	South	W52 (secondary south 125')	4	0	4	0	4	0	0.40	0.29	0.12		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6400	51	Direct	Class III	Direct	W51 (<0.5 acres)	4	0	4	0	4	0	0.40	0.14	0.06		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6400	51	Secondary	Class III	Secondary	W51 (<0.5 acres)	4	0	4	0	4	0	0.40	0.24	0.10		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	50	Direct	Class III	Direct	W50 (direct)	4	0	4	0	4	0	0.40	0.37	0.15		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	50	Secondary	Class III	North	W50 (secondary north)	4	0	4	0	4	0	0.40	0.33	0.13		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	50	Secondary	Class III	South	W50 (secondary south 125')	4	2	4	4	4	3	0.10	0.49	0.05		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	49	Direct	Class II	Direct	W49 (direct)	4	0	6	0	7	0	0.57	0.69	0.39		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	49	Secondary	Class II	North	W49 (secondary north)	4	0	6	0	7	0	0.57	0.03	0.02		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	49	Secondary	Class II	South	W49 (secondary south 75')	4	2	6	6	7	6	0.10	0.36	0.04		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	48a	Direct	Class I	Direct	W48a (direct)	5	0	6	0	7	0	0.60	4.38	2.63		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	48a	Secondary	Class I	North	W48a (secondary north)	5	2	6	5	7	6	0.17	1.57	0.26		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	48a	Secondary	Class I	South	W48a (secondary south 75')	5	3	8	5	7	6	0.13	1.07	0.14		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	48b	Direct	Class I	Direct	W48b (direct)*	3	0	3	0	3	0	0.30	0.01	0.00		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	48b	Secondary	Class I	South	W48b (secondary south 125')	3	2	3	3	2	2	0.07	0.18	0.01		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	47	Direct	Class I	Direct	W47 (direct)	3	0	2	0	3	0	0.27	0.09	0.02		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	47	Secondary	Class I	North	W47 (secondary north)	3	2	2	2	3	2	0.07	3.11	0.21		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	46	Direct	Class I	Direct	W46 (direct)	5	0	8	0	8	0	0.70	2.20	1.54		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	46	Secondary	Class I	North	W46 (secondary north)	5	2	8	6	8	7	0.20	0.91	0.18		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	46	Secondary	Class I	South	W46 (secondary south 75')	5	3	8	8	8	7	0.10	2.18	0.22		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	45	Direct	Class I	Direct	W45 (direct)	5	0	8	0	8	0	0.70	1.21	0.85		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	45	Secondary	Class I	North	W45 (secondary north)	5	2	8	8	8	7	0.20	0.48	0.10		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	45	Secondary	Class I	South	W45 (secondary south 75')	5	3	8	8	8	7	0.10	0.68	0.07		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	44	Direct	Class I	Direct	W44 (direct)	3	0	2	0	4	0	0.30	0.47	0.14		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	44	Secondary	Class I	North	W44 (secondary north)	3	2	2	2	4	3	0.07	7.43	0.50		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6210	43	Direct	Class III	Direct	W43 (<0.5 acres)	5	0	5	0	8	0	0.53	0.06	0.03		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	42	Direct	Class I	Direct	W42 (direct)	4	0	3	0	4	0	0.37	1.05	0.39		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	42	Secondary	Class I	North	W42 (secondary north)	4	2	3	2	4	3	0.13	0.45	0.06		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	42	Secondary	Class I	South	W42 (secondary south 75')	4	2	3	3	4	3	0.10	1.23	0.12		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	40a	Direct	Class I	Direct	W40a (direct)	4	0	5	0	6	0	0.50	2.05	1.03		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	40a	Secondary	Class I	North	W40a (secondary north)	4	2	5	4	6	4	0.17	0.39	0.07		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	40a	Secondary	Class I	South	W40a (secondary south 125')	4	0	5	0	6	0	0.50	0.05	0.03		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6200	40b	Direct	Class I	Direct	W40b (direct)	4	0	4	0	5	0	0.43	0.78	0.34		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6200	40b	Secondary	Class I	South	W40b (secondary south 75')	4	0	4	0	5	0	0.43	0.25	0.13		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	39	Direct	Class I	Direct	W39 (direct)	4	0	4	0	5	0	0.43	0.40	0.17		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	39	Secondary	Class I	North	W39 (secondary north)	4	2	4	4	5	4	0.10	3.21	0.32		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6170	38	Direct	Class I	Direct	W38 (direct)	5	0	7	0	8	0	0.67	0.21	0.14		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6170	38	Secondary	Class I	South	W38 (secondary south 75')	5	3	7	7	8	7	0.10	0.45	0.05		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6170	37	Direct	Class III	Direct	W37 (direct)	5	0	4	0	5	0	0.47	1.37	0.64		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	37	Direct	Class III	Direct	W37 (FDOT)	5	0	4	0	5	0	0.47	0.19	0.09		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	36a	Direct	Class I	Direct	W36a (FDOT)	5	0	5	0	6	0	0.53	4.79	2.55		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	36a	Secondary	Class I	South	W36a (sec 50') (FDOT)	7	5	8	8	9	6	0.13	3.20	0.43		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6150	36b	Direct	Class I	Direct	W36b (FDOT)	6	0	7	0	7	0	0.67	0.67	0.45		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6150	36b	Secondary	Class I	South	W36b (sec 50') (FDOT)	7	5	8	8	7	6	0.10	1.04	0.10		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6150	36b	Secondary	Class I	North	W36b (sec north) (FDOT)	6	0	7	0	7	0	0.67	0.96	0.37		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	36c	Direct	Class I	Direct	W36c (FDOT)	5	0	4	0	5	0	0.47	4.71	2.20		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	36c	Secondary	Class I	North	W36c (sec north) (FDOT)	5	0	4	0	5	0	0.47	0.03	0.01		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	36c	Secondary	Class I	South	W36c (sec 50') (FDOT)	5	3	4	4	5	4	0.10	2.89	0.29		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	35	Direct	Class I	Direct	W35 (FDOT)	5	0	4	0	5	0	0.47	5.46	2.55		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	35	Secondary	Class I	South	W35 (sec 50') (FDOT)	7	5	8	8	7	5	0.13	3.52	0.47		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	34	Direct	Class I	Direct	W34 (FDOT)	6	0	5	0	5	0	0.53	4.98	2.66		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	34	Secondary	Class I	North	W34 (sec north) (FDOT)	6	0	5	0	5	0	0.53	0.23	0.12		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6300	34	Secondary	Class I	South	W34 (sec 50' and 100') (FDOT)	7	5	8	8	7	5	0.13	5.78	0.77		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	33	Direct	Class I	Direct	W33 (FDOT)	7	0	7	0	5	0	0.63	3.31	2.10		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	33	Secondary	Class I	South	W33 (sec 100' south) (FDOT)	7	6	8	8	7	5	0.10	6.98	0.67		
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	33	Secondary	Class I	North	W33 (sec north) (FDOT)	7	0	7	0	5	0	0.63	0.12	0.08		
SJSF	(Hart, Econ. SJR)	6300/6400		Direct	Class I, II, III	North	Fencing	Average Impact Data of Herbaceous and Forested Wetlands								0.52	0.015	0.010
SJRWMD	SJR (Canaveral Marshes to Wekiva) (18)	6410	SW15	Direct	Class I	North	SW15	7	0	7	0	1	0	0.50	0.006	0.003		
														257.48	73.09			

Table 1b. Econ RHPZ Impacts										
Assessment Area	Direction	Location and Landscape Support		Water Environment		Community Structure		Impact Delta	Impact Acres	Functional Loss
		Current	w/Impact	Current	w/Impact	Current	w/Impact			
RHPZ_1 Little Creek trib East (50') Pasture	East	3	0	N/A	N/A	2	0	0.25	0.15	0.04
RHPZ_10 Turkey Creek East and West 550' forested	E/W	3	0	N/A	N/A	5	0	0.4	0.13	0.05
RHPZ_11 SW92a East and West (50')	E/W	2	0	N/A	N/A	2	0	0.2	0.34	0.07
RHPZ_12 SW96c/d East and West (50')	E/W	2	0	N/A	N/A	2	0	0.2	0.79	0.16
RHPZ_13 W99 East and West (50')	E/W	2	0	N/A	N/A	3	0	0.25	0.29	0.07
RHPZ_14 W100/W101 East (50') Pasture	East	2	0	N/A	N/A	3	0	0.25	0.31	0.08
RHPZ_15 W100 East and West (50') Forested	E/W	2	0	N/A	N/A	3	0	0.25	0.35	0.09
RHPZ_16 SW100 50' forested	West	2	0	N/A	N/A	3	0	0.25	0.08	0.02
RHPZ_17 SW100 50' pasture	West	2	0	N/A	N/A	2	0	0.2	0.06	0.01
RHPZ_18 SW105a (50') pasture	North	2	0	N/A	N/A	2	0	0.2	0.10	0.02
RHPZ_19 W105a East and West (50') Forested	E/W	2	0	N/A	N/A	3	0	0.25	0.19	0.05
RHPZ_2 Little Creek trib East (50') Forested	East	6	0	N/A	N/A	7	0	0.65	0.31	0.20
RHPZ_20 W105a west 50' pasture	West	2	0	N/A	N/A	2	0	0.2	0.13	0.03
RHPZ_21 W105b (50') forested	South	2	0	N/A	N/A	3	0	0.25	0.51	0.13
RHPZ_22 W108 Green Branch East (50') pasture	East	5	0	N/A	N/A	4	0	0.45	0.16	0.07
RHPZ_23 W108 Green Branch West (50') forested	West	5	0	N/A	N/A	4	0	0.45	0.57	0.26
RHPZ_24 W111/W112 East and West (50') Forested	E/W	5	0	N/A	N/A	4	0	0.45	0.86	0.39
RHPZ_25 SW112 East (50') forested	East	2	0	N/A	N/A	3	0	0.25	0.45	0.11
RHPZ_26 SW112 East and West (50') pasture	E/W	2	0	N/A	N/A	2	0	0.2	0.34	0.07
RHPZ_3 Little Creek trib West (50')	West	6	0	N/A	N/A	7	0	0.65	0.29	0.19
RHPZ_4 Little Creek North (550')*	North	6	0	N/A	N/A	7	0	0.65	5.19	3.37
RHPZ_5 Econ River West forested (550')*	West	3	0	N/A	N/A	5	0	0.4	0.63	0.25
RHPZ_6 Econ River West pasture (550')*	West	3	0	N/A	N/A	2	0	0.25	0.43	0.11
RHPZ_7 W88 East and West (50') pasture	E/W	3	0	N/A	N/A	2	0	0.25	0.19	0.05
RHPZ_8 W88 East and West (50') forested	E/W	3	0	N/A	N/A	5	0	0.4	0.15	0.06
RHPZ_9 Turkey Creek East and West 550' pasture	E/W	3	0	N/A	N/A	2	0	0.25	2.11	0.53
TOTAL									15.11	6.48

Table 1c. Wetland and Upland RHPZ Impacts per Basin and Land Ownership						
Orange County PE02/PE03 Wetland Impacts	Direct Impacts		Secondary Impacts		Overall Functional Loss	
	Direct Forested Impacts (ac)	Direct Herbaceous Impacts (ac)	Secondary Forested Impacts (ac)	Secondary Herbaceous Impacts (ac)	Forested FL	Herbaceous FL
Total for Lake Hart Basin (83)	17.94	0.99	46.70	0.00	12.57	0.20
Total for Econlockhatchee River Nested (19)	33.86	4.54	37.10	6.36	23.75	1.92
Total for St. Johns River (Canaveral Marshes to Wekiva) (18)	40.88	7.91	37.58	23.63	27.66	6.99
Wetland Totals	92.68	13.44	121.38	29.99	63.98	9.11
Upland RHPZ	9.71	5.40			5.17	1.31
Impacts by Land Ownership	Direct Impacts		Secondary Impacts		Totals	
CFX Impacts	82.00		127.32		209.32	
FDOT Impacts	24.12		24.05		48.166	
Total Impacts					257.48	
Impacts by Wetland Classification	Direct Impacts	Secondary Impacts				Totals
Class I Wetlands	90.84	123.08				
Class II Wetlands	6.45	13.06				
Class III Wetlands	8.82	15.23				257.48
Class I Surface Waters	10.89					
Class II Surface Waters	0.12					
Class III Surface Waters	5.60					16.61

Table 2. Orange County Mitigation								
Lucky L Mitigation Bank (SFWMD PE02)	Lake Hart							12.77
TM Econ Mitigation Bank IV (SFWMD PE02)	Econ							2.57
Conley Mitigation Tract (CMT) (SJRWMD PE02)	Econ	62.88	7.54	7.20	1.30	17.47	8.7	17.54
Pietrzak Mitigation Tract (PMT) (SJRWMD PE02)	Econ	16.07	2.14	8.06	2.58			4.72
Low Property (LMT) (SJRWMD PE02)	Econ	21.11	6.36					6.36
TM Econ Mitigation Bank Ph IV (SJRWMD PE02)	Econ							0.38
TM Econ Mitigation Bank PH I-3 (SJRWMD PE02) isolated wetlands + fence	Econ							0.58
Kemcho Mitigation Tract (SJRWMD PE02) + isolated wetlands	SJR	28.24	4.08			50.52	14.55	18.63
Kemcho Mitigation Tract (SJRWMD PE03)	SJR	98.27	13.29			116.94	33.15	16.02
Total		226.57	33.41	15.26	3.88	181.91	56.40	79.57

* FG credit attributed to impacts within Orange County Jurisdiction. Actual FG credit attributed to the entire preservation area may be more for each mitigation area to accommodate SJRWMD mitigation

Surface Water Impacts

SW ID	FLUCCS	WL & SW SIZE (ACRES)	Classification	WL & SW NOT IMPACTED (ACRES)	Surface Water Impact (Acres)
OSW 12	5100	0.02	Class III	0.00	0.02
OSW 13	5100	1.23	Class I	0.00	1.23
OSW 14	5100	0.26	Class III	0.19	0.07
OSW 15	5100	1.45	Class I	0.00	1.45
OSW 16	5100	0.85	Class III	0.84	0.01
OSW 17	5100	0.06	Class III	0.06	0.00
OSW 18	5100	0.18	Class I	0.18	0.00
OSW 19	5100	0.64	Class I	0.64	0.00
OSW 20	5100	0.47	Class I	0.47	0.00
OSW 21	5100	0.89	Class I	0.89	0.00
OSW 22	5100	0.36	Class III	0.36	0.00
OSW 23	5100	0.59	Class III	0.59	0.00
OSW 24	5100	1.45	Class I	1.45	0.00
OSW 25	5100	0.48	Class III	0.48	0.00
OSW 26	5100	0.21	Class III	0.21	0.00
OSW 27	5100	0.16	Class III	0.16	0.00
OSW 28	5100	0.17	Class III	0.17	0.00
OSW 29	5100	0.79	Class I	0.79	0.00
OSW 30	5100	0.82	Class III	0.80	0.02
OSW 32	5100	3.32	Class I	3.32	0.00
OSW 33	5100	2.70	Class I	2.70	0.00
OSW 34	5100	0.33	Class III	0.33	0.00
OSW 35	5100	0.85	Class II	0.85	0.00
OSW 36	5100	0.35	Class III	0.35	0.00
OSW 37	5100	1.20	Class I	1.20	0.00
OSW 38	5100	2.35	Class I	2.35	0.00
OSW 39	5100	0.20	Class III	0.20	0.00
OSW 40	5100	0.05	Class III	0.05	0.00
OSW 41	5100	3.05	Class I	3.05	0.00
OSW 42	5100	0.28	Class III	0.27	0.01
OSW 45	5100	0.16	Class III	0.16	0.00
OSW 46	5100	0.53	Class III	0.53	0.00
OSW 47	5100	0.08	Class III	0.08	0.00
OSW 48	5100	0.73	Class III	0.73	0.00
OSW 49	5100	2.15	Class III	2.15	0.00
OSW 50	5100	3.30	Class III	3.30	0.00
OSW 51	5100	1.71	Class III	0.00	1.71
OSW 52	5100	0.26	Class III	0.00	0.26
OSW 53	5100	0.65	Class I	0.00	0.65
OSW 54	5100	4.05	Class I	4.05	0.00
OSW 55	5100	3.61	Class I	2.91	0.71
OSW 56	5100	0.11	Class III	0.09	0.02
OSW 57	5100	0.75	Class III	0.52	0.23
OSW 58	5100	0.44	Class III	0.00	0.44
SW-RHP-111	5100	1.57	Class I	1.21	0.36
OSW 59	5100	2.03	Class III	2.03	0.00
OSW 60	5100	0.15	Class III	0.14	0.01
SW-RHP 96D	5100	0.90	Class III	0.82	0.08
SW-RHP 96C	5100	5.30	Class II	5.18	0.12
SW-RHP 96B	5100	0.02	Class III	0.02	0.00
SW-RHP 96A	5100	0.22	Class III	0.01	0.21
SW-RHP 92A	5100	0.26	Class III	0.22	0.04
OSW 61	5100	0.20	Class III	0.01	0.18
OSW 62	5100	0.21	Class III	0.11	0.10
OSW 63	5100	3.12	Class III	3.12	0.00
OSW 64	5100	1.37	Class III	1.37	0.00
OSW 65	5100	2.12	Class III	2.12	0.00

Surface Water Impacts

SW ID	FLUCCS	WL & SW SIZE (ACRES)	Classification	WL & SW NOT IMPACTED (ACRES)	Surface Water Impact (Acres)
OSW 66	5100	0.27	Class III	0.27	0.00
OSW 67	5100	0.39	Class III	0.39	0.00
OSW 68	5100	0.43	Class III	0.43	0.00
OSW 69	5100	1.06	Class I	1.06	0.00
OSW 70	5100	0.03	Class III	0.03	0.00
OSW 71	5100	2.78	Class III	2.74	0.04
SW-RHP 78	5100	0.06	Class III	0.05	0.02
OSW 72	5100	0.02	Class III	0.02	0.00
OSW 73	5100	5.04	Class I	2.12	2.92
OSW 74	5100	0.03	Class III	0.03	0.00
OSW 75	5100	0.08	Class III	0.08	0.00
OSW 76	5100	0.10	Class III	0.09	0.01
OSW 77	5100	0.34	Class III	0.08	0.26
OSW 78	5100	5.76	Class I	3.13	2.63
OSW 79	5100	0.03	Class III	0.01	0.02
OSW 80	5100	0.02	Class III	0.00	0.01
SW-RHP 57	5100	0.02	Class III	0.02	0.00
OSW 81	5100	0.14	Class III	0.14	0.00
OSW 82	5100	0.28	Class III	0.28	0.00
OSW 83	5100	2.11	Class III	1.62	0.49
OSW 84	5100	0.24	Class III	0.13	0.11
OSW 85	5100	0.21	Class III	0.08	0.13
SW-RHP 49	5100	2.78	Class III	2.24	0.54
OSW 86	5100	0.41	Class III	0.39	0.02
OSW 87	5100	0.07	Class III	0.07	0.00
OSW 88	5100	0.86	Class III	0.86	0.00
OSW 89	5100	1.49	Class III	1.49	0.00
OSW 90	5100	0.27	Class III	0.19	0.07
OSW 91	5100	0.77	Class III	0.45	0.32
OSW 92	5100	0.29	Class III	0.29	0.00
OSW 93 - un-named creek system	5100	2.68	Class I	1.75	0.93
SW-RHP 38A	5100	0.12	Class III	0.05	0.08
SW-RHP 38B	5100	0.16	Class III	0.10	0.06
SW16	5100	0.06	Class III	0.06	0.00
SW15 SJR System	5100	1.28	Class I	1.27	0.006
Surface Water Totals		92.47		75.86	16.61