ATTACHMENT A

UMAM Worksheets - Columbia County

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-002 (W-SRF-002)

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
641	Freshwater Marsh	Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

The area is an isolated wetland in a rural portion of Lake City

Assessment area description

The assessment area is a forested wetland that has been clear cut of trees for the transmission line easement.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
none	not unique

Functions	Mitigation for previous permit/other historic use
BIOLOGICAL: Amphibian breeding; wading bird feeding; sandhill crane feeding; and reptile (snake) feeding.. PHYSICAL/CHEMICAL: Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention.	

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Salamanders, newts, toads, frogs, white ibis, wood stork, sandhill crane, wading birds, snipe, marsh rabbit, white tailed deer, and raccoon.	Florida sandhill crane (T, foraging, nesting, seasonal), wood stork (FE, foraging, seasonal), alligator (FT, foraging, breeding, long-term), tricolored heron (T, foraging, long-term), and little blue heron (T, foraging, long-term).

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

Deer tracks, turkey tracks, racoon tracks, cardinals, woodpeckers, and crows.

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
Stephen R. Florey	30-Oct-18

Form 62-345.900(1), F.A.C. [effective date 02-04-2004]

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-002 (W-SRF-002)
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	Stephen R. Florey	10/30/2018

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	w/o pres or current: 5	with:
	Assessment area is surrounded by two electrical transmission sub-stations. Wildlife access is limited. Wetland is isolated and does not appear to contribute to any downstream habitat. No exotics were observed.	
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current: 4	with:
	Multiple hydrological indicators present. Soil moisture appears normal. Wetland is an isolated system and does not contribute to surrounding aquatic habitats. No evidence of use by wildlife with specific hydrologic requirements.	
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current: 4	with:
	The assessment area was originally a forested wetland system. The area was permitted for an overhead transmission line easement and is now clear cut of trees and shrubs. An emergent marsh wetland existed at the time of the site inspection	

Score = sum of above scores/30 (if uplands, divide by 20)	current or w/o pres	with
	0.43333	0

If preservation as mitigation,	
Preservation adjustment factor (0 - 1, 0.1 increments) =	
Adjusted mitigation delta =	0

For impact assessment areas	
FL = delta x acres =	0

Delta = [with-current]
-0.433333333

If mitigation	
Time lag (t-factor) (see tables) =	1
Risk factor (1 - 3, 0.25 increments) =	1

For mitigation assessment areas	
RFG = delta/(t-factor x risk) =	-0.433333

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-003 (W-SRF-003)

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
641	Freshwater Marsh	Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

The assessment area is an isolated wetland in a rural portion of Lake City that is potentially hydrologically connected to a larger wetland network to the west.

Assessment area description

The assessment area is a forested wetland that has been clear cut of trees for the transmission line easement.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
none	not unique

Functions	Mitigation for previous permit/other historic use
BIOLOGICAL: Amphibian breeding; wading bird feeding; sandhill crane feeding; and reptile (snake) feeding.. PHYSICAL/CHEMICAL: Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention.	

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Salamanders, newts, toads, frogs, white ibis, wood stork, sandhill crane, wading birds, snipe, marsh rabbit, white tailed deer, and raccoon.	Florida sandhill crane (T, foraging, nesting, seasonal), wood stork (FE, foraging, seasonal), alligator (FT, foraging, breeding, long-term), tricolored heron (T, foraging, long-term), and little blue heron (T, foraging, long-term).

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

Deer tracks, turkey tracks, racoon tracks, cardinals, woodpeckers, and crows.

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
Stephen R. Florey	30-Oct-18

Form 62-345.900(1), F.A.C. [effective date 02-04-2004]

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-003 (W-SRF-003)
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
impact	Stephen R. Florey	10/30/2018

Scoring Guidance	**Optimal (10)**	**Moderate(7)**	**Minimal (4)**	**Not Present (0)**
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

	w/o pres or current	with	
.500(6)(a) Location and Landscape Support	5		Assessment area is surrounded by two electrical transmission sub-stations. Wildlife access is limited. Wetland is isolated and does not appear to contribute to any downstream habitat. No exotics were observed.
.500(6)(b)Water Environment (n/a for uplands)	4		Multiple hydrological indicators present. Soil moisture appears normal. Wetland is an isolated system and does not contribute to surrounding aquatic habitats. No evidence of use by wildlife with specific hydrologic requirements.
nally 1. Vegetation and/or 2. Benthic Community	4		The assessment area was originally a forested wetland system. The area was permitted for an overhead transmission line easement and is now clear cut of trees and shrubs. An emergent marsh wetland existed at the time of the site inspection

Score = sum of above scores/30 (if uplands, divide by 20)	current or w/o pres	with
	0.43333	0

If preservation as mitigation,	
Preservation adjustment factor (0 - 1, 0.1 increments) =	
Adjusted mitigation delta =	0

For impact assessment areas	
FL = delta x acres =	0

Delta = [with-current]
-0.433333333

If mitigation	
Time lag (t-factor) (see tables) =	1
Risk factor (1 - 3, 0.25 increments) =	1

For mitigation assessment areas	
RFG = delta/(t-factor x risk) =	-0.433333

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-007 (W-RM-001)

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
641	Freshwater Marsh	Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

AA is between SE Price Creek Dr and SE County Club Road. AA is surrounded by a mixture of agricultural lands (row crops), residential, planted pine, and native uplands. AA appears to be isolated.

Assessment area description

AA is a depressional marsh surrounded by Bahia pasture. The AA is open to cattle and cattle use (waste and tracks) was evident. AA is isolated from W_RM_002 by pasture. AA receives discharge from surrounding pasture.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
none	not unique

Functions	Mitigation for previous permit/other historic use
BIOLOGICAL: Amphibian breeding; wading bird feeding; sandhill crane feeding; and reptile (snake) feeding.. PHYSICAL/CHEMICAL: Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention.	

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Salamanders, newts, toads, frogs, white ibis, wood stork, sandhill crane, wading birds, snipe, marsh rabbit, white tailed deer, and raccoon.	Florida sandhill crane (T, foraging, nesting, seasonal), wood stork (FE, foraging, seasonal), alligator (FT, foraging, breeding, long-term), tricolored heron (T, foraging, long-term), and little blue heron (T, foraging, long-term).

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

none

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
Ramon Mendieta, ECT, Inc.	31-10-18

Form 62-345.900(1), F.A.C. [effective date 02-04-2004]

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-007 (W-RM-001)
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	Ramon Mendieta, ECT Inc.	10/31/2018

Scoring Guidance	**Optimal (10)**	**Moderate(7)**	**Minimal (4)**	**Not Present (0)**
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	w/o pres or current: 6	with:
Habitats outside of AA are a mixture of agricultural lands and rural residential. Native uplands occur in surrounding area. Invasive and nuisance exotic species observed outside of AA (torpedo grass, old world climbing fern). Bahia pasture adjacent to AA. Cattle use of AA affects use by native wildlife species.		
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current: 6	with:
Water levels and flows are slightly lower than appropriate, considering seasonal variation and antecedent weather and other climatic effects. Vegetation does not exhibit zonation. Soil moisture appears normal. No evidence of use by wildlife with specific hydrologic requirements. Cattle waste observed in AA.		
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current: 4	with:
Species diversity has been affected by grazing of cattle. Little species diversity. Vegetation has been trampled by cattle. Majority of plant species are appropriate but no evidence of normal regeneration. Marsh pennywort is the dominant vegetation.		

Score = sum of above scores/30 (if uplands, divide by 20)	current or w/o pres	with
	0.53333	0

If preservation as mitigation,	
Preservation adjustment factor (0 - 1, 0.1 increments) =	
Adjusted mitigation delta =	0

For impact assessment areas	
FL = delta x acres =	0

Delta = [with-current]
-0.533333333

If mitigation	
Time lag (t-factor) (see tables) =	1
Risk factor (1 - 3, 0.25 increments) =	1

For mitigation assessment areas	
RFG = delta/(t-factor x risk) =	-0.533333

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-008 (W-RM-002)

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
641	Freshwater Marsh	Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

AA is between SE Price Creek Dr and SE County Club Road. AA is surrounded by a mixture of agricultural lands (row crops), residential, planted pine, and native uplands. AA appears to be isolated.

Assessment area description

AA is a depressional marsh surrounded by Bahia pasture. The AA is open to cattle and cattle use (waste and tracks) was evident. AA is isolated from W_RM_001 by pasture. AA receives discharge from surrounding pasture.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
none	not unique

Functions	Mitigation for previous permit/other historic use
BIOLOGICAL: Amphibian breeding; wading bird feeding; sandhill crane feeding; and reptile (snake) feeding.. PHYSICAL/CHEMICAL: Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention.	

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Salamanders, newts, toads, frogs, white ibis, wood stork, sandhill crane, wading birds, snipe, marsh rabbit, white tailed deer, and raccoon.	Florida sandhill crane (T, foraging, nesting, seasonal), wood stork (FE, foraging, seasonal), alligator (FT, foraging, breeding, long-term), tricolored heron (T, foraging, long-term), and little blue heron (T, foraging, long-term).

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

none

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
Ramon Mendieta, ECT, Inc.	31-10-18

Form 62-345.900(1), F.A.C. [effective date 02-04-2004]

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-008 (W-RM-002)
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	Ramon Mendieta, ECT Inc.	10/31/2018

Scoring Guidance	**Optimal (10)**	**Moderate(7)**	**Minimal (4)**	**Not Present (0)**
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

	w/o pres or current	with	
.500(6)(a) Location and Landscape Support	6		Habitats outside of AA are a mixture of agricultural lands and rural residential. Native uplands occur in surrounding area. Invasive and nuisance exotic species observed outside of AA (torpedo grass, old world climbing fern). Bahia pasture adjacent to AA. Cattle use of AA affects use by native wildlife species.
.500(6)(b)Water Environment (n/a for uplands)	6		Water levels and flows are slightly lower than appropriate, considering seasonal variation and antecedent weather and other climatic effects. Vegetation does not exhibit zonation. Soil moisture appears normal. No evidence of use by wildlife with specific hydrologic requirements. Cattle waste observed in AA.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	4		Species diversity has been affected by grazing of cattle. Little species diversity. Vegetation has been trampled by cattle. Majority of plant species are appropriate but no evidence of normal regeneration. AA dominant species is soft rush.

Score = sum of above scores/30 (if uplands, divide by 20)	current or w/o pres	with
	0.53333	0

If preservation as mitigation,	
Preservation adjustment factor (0 - 1, 0.1 increments) =	
Adjusted mitigation delta =	0

For impact assessment areas	
FL = delta x acres =	0

Delta = [with-current]
-0.533333333

If mitigation	
Time lag (t-factor) (see tables) =	1
Risk factor (1 - 3, 0.25 increments) =	1

For mitigation assessment areas	
RFG = delta/(t-factor x risk) =	-0.533333

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-009 (W-RM-003)

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
641	Freshwater Marsh	Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

AA is between SE Price Creek Dr and SE County Club Road. AA is surrounded by a mixture of agricultural lands (row crops), residential, planted pine, and native uplands. AA is part of larger wetland that appears to be connected to forested wetland habitat to the west.

Assessment area description

AA is a depressional marsh surrounded by Bahia pasture to the south and row crops to the north. AA is hydrologically connected to offsite wetland areas. Adjacent row crop fields discharge directly to AA. Cattle are able to enter and graze AA along southern boundary.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
none	not unique

Functions	Mitigation for previous permit/other historic use
BIOLOGICAL: Amphibian breeding; wading bird feeding; sandhill crane feeding; and reptile (snake) feeding.. PHYSICAL/CHEMICAL: Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention.	

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Salamanders, newts, toads, frogs, white ibis, wood stork, sandhill crane, wading birds, snipe, marsh rabbit, white tailed deer, and raccoon.	Florida sandhill crane (T, foraging, nesting, seasonal), wood stork (FE, foraging, seasonal), alligator (FT, foraging, breeding, long-term), tricolored heron (T, foraging, long-term), and little blue heron (T, foraging, long-term).

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

none

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
Ramon Mendieta, ECT, Inc.	31-10-18

Form 62-345.900(1), F.A.C. [effective date 02-04-2004]

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-009 (W-RM-003)
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact or Mitigation	Ramon Mendieta, ECT Inc.	10/31/2018

Scoring Guidance	**Optimal (10)**	**Moderate(7)**	**Minimal (4)**	**Not Present (0)**
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support w/o pres or current: 6 / with:	Habitats outside of AA are a mixture of agricultural lands and rural residential. Native uplands occur in surrounding area. Invasive and nuisance exotic species observed outside of AA (torpedo grass, old world climbing fern). Bahia pasture adjacent to AA. Cattle use of AA affects use by native wildlife species. Additional forested and wetland habitat occur outside of AA.
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current: 6 / with:	Water levels and flows are slightly higher than appropriate, considering seasonal variation and antecedent weather and other climatic effects. Larger open water feature part of AA. Soil moisture appears normal. No evidence of use by wildlife with specific hydrologic requirements. Cattle waste observed in AA.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current: 4 / with:	Majority of species within deeper marsh zones are exotic or nuissance species (water hyacinth, cattail, and cuban bulrush).

Score = sum of above scores/30 (if uplands, divide by 20)	current or w/o pres	with
	0.53333	0

If preservation as mitigation,	
Preservation adjustment factor (0 - 1, 0.1 increments) =	
Adjusted mitigation delta =	0

For impact assessment areas	
FL = delta x acres =	0

Delta = [with-current]
-0.533333333

If mitigation	
Time lag (t-factor) (see tables) =	1
Risk factor (1 - 3, 0.25 increments) =	1

For mitigation assessment areas	
RFG = delta/(t-factor x risk) =	-0.533333

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-014 (W-RM-018)

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
641	Freshwater Marsh	Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

AA is between SE Price Creek Dr and SE County Club Road. AA is surrounded by a mixture of agricultural lands (row crops), residential, planted pine, and native uplands. Mixed wetland hardwood habitat adjacent and to the west of AA.

Assessment area description

AA is a depressional marsh surrounded by mixed wetland hardwood to the west, forested upland to the east, and maintenance transmission ROW to the north and south. AA is hydrologically connected to Mixed wetland hardwood habitat. Elevated utility corridor have affected natural drainage patterns. AA likely part of mixed wetland hardwood habitat prior to existing transmission line.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
none	not unique

Functions	Mitigation for previous permit/other historic use
BIOLOGICAL: Amphibian breeding; wading bird feeding; sandhill crane feeding; and reptile (snake) feeding.. PHYSICAL/CHEMICAL: Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention.	

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Salamanders, newts, toads, frogs, white ibis, wood stork, sandhill crane, wading birds, snipe, marsh rabbit, white tailed deer, and raccoon.	Florida sandhill crane (T, foraging, nesting, seasonal), wood stork (FE, foraging, seasonal), alligator (FT, foraging, breeding, long-term), tricolored heron (T, foraging, long-term), and little blue heron (T, foraging, long-term).

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

none

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
Ramon Mendieta, ECT, Inc.	31-10-18

Form 62-345.900(1), F.A.C. [effective date 02-04-2004]

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-014 (W-RM-018)
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	Ramon Mendieta, ECT Inc.	10/31/2018

Scoring Guidance	**Optimal (10)**	**Moderate(7)**	**Minimal (4)**	**Not Present (0)**
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

	w/o pres or current	with	
.500(6)(a) Location and Landscape Support	7		Habitats outside of AA are a mixture of agricultural lands and rural residential. Native uplands occur in surrounding area. Invasive and nuisance exotic species observed outside of AA (torpedo grass, old world climbing fern, water hyacinth). AA occurs near rural residential area.
.500(6)(b)Water Environment (n/a for uplands)	5		Water levels and flows are slightly lower than appropriate, considering seasonal variation and antecedent weather and other climatic effects. Soil moisture appears drier than normal. Drainage patterns affected by past transmission line installation. No evidence of use by wildlife with specific hydrologic requirements.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	6		Mixture of marsh species. No apparent zonation. No exotics observed.

Score = sum of above scores/30 (if uplands, divide by 20)	current or w/o pres	with
	0.6	0

If preservation as mitigation,	
Preservation adjustment factor (0 - 1, 0.1 increments) =	
Adjusted mitigation delta =	0

For impact assessment areas	
FL = delta x acres =	0

Delta = [with-current]
-0.6

If mitigation	
Time lag (t-factor) (see tables) =	1
Risk factor (1 - 3, 0.25 increments) =	1

For mitigation assessment areas	
RFG = delta/(t-factor x risk) =	-0.6

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-017 (W-SRF-017)

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
630	Wetland Forested Mixed	Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

The area is an isolated wetland in a rural portion of Lake City. Surrounded by residential properties, the only hydrological connections appears to be a stream system to the east of the assessment area.

Assessment area description

The assessment area is a forested wetland with sparse ground cover. The assessment area is surrounded by maintained residential properties and a stream feature heading south beyond the survey area.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
none	not unique

Functions	Mitigation for previous permit/other historic use
BIOLOGICAL: Amphibian breeding; wading bird feeding; sandhill crane feeding; and reptile (snake) feeding.. PHYSICAL/CHEMICAL: Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention.	

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Salamanders, newts, toads, frogs, white ibis, wood stork, sandhill crane, wading birds, snipe, marsh rabbit, white tailed deer, and raccoon.	Florida sandhill crane (T, foraging, nesting, seasonal), wood stork (FE, foraging, seasonal), alligator (FT, foraging, breeding, long-term), tricolored heron (T, foraging, long-term), and little blue heron (T, foraging, long-term).

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

Deer tracks, turkey tracks, racoon tracks, cardinals, woodpeckers, and crows.

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
Stephen R. Florey	31-Oct-18

Form 62-345.900(1), F.A.C. [effective date 02-04-2004]

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-017 (W-SRF-017)
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	Stephen R. Florey	10/31/2018

Scoring Guidance	**Optimal (10)**	**Moderate(7)**	**Minimal (4)**	**Not Present (0)**
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	w/o pres or current: 4	with: 3
Area is surrounded rural residential properties. Minimal support provided to wildlife species due to small assessment area and surrounding residential land use. Area assumed to be hydrologically connected to stream system to the east, however, no benefit is provided to downstream habitat.		
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current: 4	with: 4
The assessment area displays several hydrologic indicators such as water marks and water stained leaves. Water levels and soil moisture appear less than ideal to support diverse wetland vegetation.		
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o press or current: 6	with: 3
The assessment area is a forested wetland surrounded by development. The species diversity and distribution are slightly less than optimal. Plant condition, regeneration and recruitment are near normal for this type of system. No exotic invasive species were observed.		

Score = sum of above scores/30 (if uplands, divide by 20)	current or w/o pres	with
	0.46	0.33

If preservation as mitigation,	
Preservation adjustment factor (0 - 1, 0.1 increments) =	
Adjusted mitigation delta =	0

For impact assessment areas
FL = delta x acres = 0.13x0.002=0.0003

Delta = [with-current]
-0.13

If mitigation	
Time lag (t-factor) (see tables) =	1
Risk factor (1 - 3, 0.25 increments) =	1

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-020 (W-SRF-020)

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
630	Wetland Forested Mixed	Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

The area is an isolated wetland in a rural portion of Lake City. It is on the corner of a major intersection and does not provide any support to surrounding ecosystems.

Assessment area description

The assessment area is a forested wetland. With a dense canopy and sparse understory. The assessment are is bordered to the west and south by major roads and to the north by commercial property.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
none	not unique

Functions	Mitigation for previous permit/other historic use
BIOLOGICAL: Amphibian breeding; wading bird feeding; sandhill crane feeding; and reptile (snake) feeding.. PHYSICAL/CHEMICAL: Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention.	NA

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Salamanders, newts, toads, frogs, white ibis, wood stork, sandhill crane, wading birds, snipe, marsh rabbit, white tailed deer, and raccoon.	Florida sandhill crane (T, foraging, nesting, seasonal), wood stork (FE, foraging, seasonal), alligator (FT, foraging, breeding, long-term), tricolored heron (T, foraging, long-term), and little blue heron (T, foraging, long-term).

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

Deer tracks, turkey tracks, racoon tracks, cardinals, woodpeckers, and crows.

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
Stephen R. Florey	31-Oct-18

Form 62-345.900(1), F.A.C. [effective date 02-04-2004]

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-020 (W-SRF-020)
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	Stephen R. Florey	10/31/2018

Scoring Guidance	**Optimal (10)**	**Moderate(7)**	**Minimal (4)**	**Not Present (0)**
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

	w/o pres or current	with	
.500(6)(a) Location and Landscape Support	4	3	Area is surrounded by development. Support to wildlife by outside habitats is minimal. Several barriers such as roads and commercial properties prevent most benefit to any potential downstream or surrounding ecosystems.
.500(6)(b)Water Environment (n/a for uplands)	4	6	The assessment area is associated with an isolated wetland system in rural Lake City, Florida. Several hydrologic indicators such as saturation and high water table are sufficient to support obligate wetland vegetation. However, there does not appear to be any hydrologic connection or benefit to surrounding ecosystems.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	6	3	The assessment area is a forested wetland system that is surrounded by development. Plant condition and distribution are generally good with a majority of desirable species and little exotic invasive presence. Topographic features are less than optimal with little to no utilization.

Score = sum of above scores/30 (if uplands, divide by 20)	current or w/o pres	with
	0.47	0.4

If preservation as mitigation,	
Preservation adjustment factor (0 - 1, 0.1 increments) =	
Adjusted mitigation delta =	0

For impact assessment areas
FL = delta x acres =0.7 x0.431 = 0.030

Delta = [with-current]
-0.07

If mitigation	
Time lag (t-factor) (see tables) =	1
Risk factor (1 - 3, 0.25 increments) =	1

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-022 (W-SRF-022)

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
630	Wetland Forested Mixed	Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

The area is an isolated wetland in a rural portion of Lake City. The assessment area sits southwest of a major roadway and is hydrologically connected to a ponded system to the south. The wetland extends beyond the survey area connecting hydrologically south.

Assessment area description

The assessment area is a forested wetland. Bordered to the northeast by SW Marvin Burnett Road the assessment area is somewhat fragmented in connectivity to surrounding ecosystems. The feature continues south beyond the assessment area where it is hydrologically connected to a series of waterbodies.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
None	Not unique

Functions	Mitigation for previous permit/other historic use
BIOLOGICAL: Amphibian breeding; wading bird feeding; sandhill crane feeding; and reptile (snake) feeding.. PHYSICAL/CHEMICAL: Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention.	NA

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Salamanders, newts, toads, frogs, white ibis, wood stork, sandhill crane, wading birds, snipe, marsh rabbit, white tailed deer, and raccoon.	Florida sandhill crane (T, foraging, nesting, seasonal), wood stork (FE, foraging, seasonal), alligator (FT, foraging, breeding, long-term), tricolored heron (T, foraging, long-term), and little blue heron (T, foraging, long-term).

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

Deer tracks, turkey tracks, racoon tracks, cardinals, woodpeckers, and crows.

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
Stephen R. Florey	31-Oct-18

Form 62-345.900(1), F.A.C. [effective date 02-04-2004]

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-022 (W-SRF-022)
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	Stephen R. Florey	10/31/2018

Scoring Guidance	**Optimal (10)**	**Moderate(7)**	**Minimal (4)**	**Not Present (0)**
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	w/o pres or current: 5	with: 4
The assessment area provides moderate access to wildlife from the south, however, the northeast is completely fragmented by Marvin Burnett Rd. AA provides moderate benefits to downstream habitats as it is hydrologically connected to a series of waterbodies beyond the survey area.		
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current: 6	with: 6
The AA displays several distinct hydrologic features such as saturation, water stained leaves and a high water table. Natural flows patterns are somewhat altered due to the road to the north of the AA, however the hydrological connection to the wetland system to the south is strong. Flows appear appropriate to support obligate wetland species. No indication of water quality degradation based on the suite of specie present, however, stormwater runoff from the roadside ditch is a potential source of untreated runoff inputs to the system.		
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current: 6	with: 3
The assessment area is a forested wetland system that is surrounded by development. Trees are approximately 25 years of age and size distribution appears near normal. Plant condition appears generally good and there are no exotic invasive species present.		

Score = sum of above scores/30 (if uplands, divide by 20)	current or w/o pres	with
	0.57	0.43

If preservation as mitigation,	
Preservation adjustment factor (0 - 1, 0.1 increments) =	
Adjusted mitigation delta =	0

For impact assessment areas
FL = delta x acres = 0.13x0.308 = 0.040

Delta = [with-current]
-0.13

If mitigation	
Time lag (t-factor) (see tables) =	1
Risk factor (1 - 3, 0.25 increments) =	1

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-024 (W-RM-022)

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
643	Wet Prairies	Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Surrounding habitats include a City park, SW Bascom Norris Drive, rural residential. AA is hydrologically connected to adjacent roadside ditch. Uplands immediately surrounding AA have been classified as forest regeneration area (SRWMD).

Assessment area description

AA is a wet prairie surrounded by former pine plantation (based on historic aerials). AA appears to be isolated. Red root and southern beaksedge is the dominant wetland species.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
none	not unique

Functions	Mitigation for previous permit/other historic use
BIOLOGICAL: Amphibian breeding; wading bird feeding; sandhill crane feeding; and reptile (snake) feeding.. PHYSICAL/CHEMICAL: Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention.	

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Salamanders, newts, toads, frogs, white ibis, wood stork, sandhill crane, wading birds, snipe, marsh rabbit, white tailed deer, and raccoon.	Florida sandhill crane (T, foraging, nesting, seasonal), wood stork (FE, foraging, seasonal), alligator (FT, foraging, breeding, long-term), tricolored heron (T, foraging, long-term), and little blue heron (T, foraging, long-term).

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

none

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
Ramon Mendieta, ECT, Inc.	1-Nov-18

Form 62-345.900(1), F.A.C. [effective date 02-04-2004]

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-024 (W-RM-022)
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	Ramon Mendieta, ECT Inc.	11/1/2018

Scoring Guidance	**Optimal (10)**	**Moderate(7)**	**Minimal (4)**	**Not Present (0)**
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

	w/o pres or current	with	
.500(6)(a) Location and Landscape Support	6		Habitats outside of AA are a mixture of urban and rural residential and services. Native uplands occur in surrounding area. Invasive and nuisance exotic species observed outside of AA (torpedo grass, old world climbing fern, cattail). Major city roadway is adjacent to wetland
.500(6)(b)Water Environment (n/a for uplands)	6		Water levels and flows appear appropriate, considering seasonal variation and antecedent weather and other climatic effects. Soil moisture appears normal. Drainage patterns affected by past pine plantation. No evidence of use by wildlife with specific hydrologic requirements. Vegetation shows no signs of hydrologic stress.
.500(7)(c)Community Structure 1. Vegetation and/or 2. Benthic Community	7		All or nearly all plant cover is appropriate and desirable. Invasive exotic or other invasive plant species provide minimal vegetative cover. Land management activities not optimal for long term viability of plant community.

Score = sum of above scores/30 (if uplands, divide by 20)	current or w/o pres	with
	0.63333	0

Delta = [with-current]
-0.633333333

If preservation as mitigation,	
Preservation adjustment factor (0 - 1, 0.1 increments) =	
Adjusted mitigation delta =	0

If mitigation	
Time lag (t-factor) (see tables) =	1
Risk factor (1 - 3, 0.25 increments) =	1

For impact assessment areas	
FL = delta x acres =	0

For mitigation assessment areas	
RFG = delta/(t-factor x risk) =	-0.63333

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-025 (W-RM-020)

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
641	Freshwater Marsh	Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Surrounding habitats include a City park, SW Bascom Norris Drive, rural residential. AA is hydrologically connected to adjacent roadside ditch. Uplands immediately surrounding AA have been classified as forest regeneration area (SRWMD)

Assessment area description

AA is a depressional marsh/wet prairie surrounded by former pine plantation (based on historic aerials). AA hydrologically connected to roadside ditch. Cattail is the dominant wetland species.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
none	not unique

Functions	Mitigation for previous permit/other historic use
BIOLOGICAL: Amphibian breeding; wading bird feeding; sandhill crane feeding; and reptile (snake) feeding.. PHYSICAL/CHEMICAL: Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention.	

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Salamanders, newts, toads, frogs, white ibis, wood stork, sandhill crane, wading birds, snipe, marsh rabbit, white tailed deer, and raccoon.	Florida sandhill crane (T, foraging, nesting, seasonal), wood stork (FE, foraging, seasonal), alligator (FT, foraging, breeding, long-term), tricolored heron (T, foraging, long-term), and little blue heron (T, foraging, long-term).

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

none

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
Ramon Mendieta, ECT, Inc.	31-10-18

Form 62-345.900(1), F.A.C. [effective date 02-04-2004]

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-025 (W-RM-020)
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	Ramon Mendieta, ECT Inc.	10/31/2018

Scoring Guidance	**Optimal (10)**	**Moderate(7)**	**Minimal (4)**	**Not Present (0)**
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	w/o pres or current: 6	with:
	Habitats outside of AA are a mixture of urban and rural residential and services. Native uplands occur in surrounding area. Invasive and nuisance exotic species observed outside of AA (torpedo grass, old world climbing fern). Major city roadway is adjacent to wetland	
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current: 5	with:
	Water levels and flows are slightly lower than appropriate, considering seasonal variation and antecedent weather and other climatic effects. Soil moisture appears drier than normal. Drainage patterns affected by past pine plantation. No evidence of use by wildlife with specific hydrologic requirements.	
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current: 5	with:
	Mixture of marsh and wet prairie species. No apparent zonation. Cattail is the dominant species.	

Score = sum of above scores/30 (if uplands, divide by 20)	current or w/o pres	with
	0.53333	0

If preservation as mitigation,	
Preservation adjustment factor (0 - 1, 0.1 increments) =	
Adjusted mitigation delta =	0

For impact assessment areas	
FL = delta x acres =	0

Delta = [with-current]
-0.533333333

If mitigation	
Time lag (t-factor) (see tables) =	1
Risk factor (1 - 3, 0.25 increments) =	1

For mitigation assessment areas	
RFG = delta/(t-factor x risk) =	-0.533333

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-036 (W-SRF-023)

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
630	Wetland Forested Mixed	Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

The area is an isolated cypress dome in a congested potion of Lake City. There is a newly dug retention pond to the east of the wetland but this is recent non-natural hydrological connection.

Assessment area description

The assessment area is a predominantly cypress forested depressional wetland. The wetland is isolated and surrounded on all sides by commercial properties.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
None	Not unique

Functions	Mitigation for previous permit/other historic use
BIOLOGICAL: Amphibian breeding; wading bird feeding; sandhill crane feeding; and reptile (snake) feeding.. PHYSICAL/CHEMICAL: Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention.	NA

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Salamanders, newts, toads, frogs, white ibis, wood stork, sandhill crane, wading birds, snipe, marsh rabbit, white tailed deer, and raccoon.	Florida sandhill crane (T, foraging, nesting, seasonal), wood stork (FE, foraging, seasonal), alligator (FT, foraging, breeding, long-term), tricolored heron (T, foraging, long-term), and little blue heron (T, foraging, long-term).

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

Deer tracks, turkey tracks, racoon tracks, cardinals, woodpeckers, and crows.

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
Stephen R. Florey	1-Nov-18

Form 62-345.900(1), F.A.C. [effective date 02-04-2004]

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-036 (W-SRF-023)
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	Stephen R. Florey	10/31/2018

Scoring Guidance	**Optimal (10)**	**Moderate(7)**	**Minimal (4)**	**Not Present (0)**
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

	w/o pres or current	with	
.500(6)(a) Location and Landscape Support	4	3	Area is surrounded by development and does not provide much support to outside wildlife. The system is isolated and other than a recently manufactured retention pond, does not have any hydrological connections. The System therefor does not provide any benefit to downstream or surrounding habitats.
.500(6)(b)Water Environment (n/a for uplands)	5	5	The AA displays several distinct hydrologic features such as saturation, water stained leaves and a high water table. Natural flows patterns are completely altered due to surrounding development. Hydrology appears appropriate to support obligate wetland species. No indication of water quality degradation based on the suite of specie present, however, stormwater runoff from surrounding development is a potential source of untreated runoff inputs to the system.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	6	3	The assessment area is a forested wetland system that is surrounded by development. Trees are approximately 25 years of age and size distribution appears normal. Plant condition appears generally good however, 25 % exotics occupy the wetland

Score = sum of above scores/30 (if uplands, divide by 20)	current or w/o pres	with
	0.5	0.37

If preservation as mitigation,	
Preservation adjustment factor (0 - 1, 0.1 increments) =	
Adjusted mitigation delta =	0

For impact assessment areas
FL = delta x acres = 0.13 x 0.51 = 0.066

Delta = [with-current]
-0.13

If mitigation	
Time lag (t-factor) (see tables) =	1
Risk factor (1 - 3, 0.25 increments) =	1

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-038 (W-SRF-025)

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
630	Wetland Forested Mixed	Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

The area is an isolated forested wetland in a congested potion of Lake City. The AA is hydrologically connected to a larger wetland that continues west beyond the survey area.

Assessment area description

The assessment area is an inundated forested wetland predominantly cypress that is bordered to the east by Interstate 75. The isolated wetland continues further west beyond the survey area before abutting a residential development.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
None	Not unique

Functions	Mitigation for previous permit/other historic use
BIOLOGICAL: Amphibian breeding; wading bird feeding; sandhill crane feeding; and reptile (snake) feeding.. PHYSICAL/CHEMICAL: Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention.	NA

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Salamanders, newts, toads, frogs, white ibis, wood stork, sandhill crane, wading birds, snipe, marsh rabbit, white tailed deer, and raccoon.	Florida sandhill crane (T, foraging, nesting, seasonal), wood stork (FE, foraging, seasonal), alligator (FT, foraging, breeding, long-term), tricolored heron (T, foraging, long-term), and little blue heron (T, foraging, long-term).

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

Deer tracks, turkey tracks, racoon tracks, cardinals, woodpeckers, and crows.

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
Stephen R. Florey	1-Nov-18

Form 62-345.900(1), F.A.C. [effective date 02-04-2004]

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-038 (W-SRF-025)
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	Stephen R. Florey	11/1/2018

Scoring Guidance	**Optimal (10)**	**Moderate(7)**	**Minimal (4)**	**Not Present (0)**
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

	w/o pres or current	with	
.500(6)(a) Location and Landscape Support	4	3	The AA is part of an isolated wetland that is surrounded by development and is adjacent to I-75. The interstate prevents/deters wildlife utilization of the AA from outside habitats. There is minimal to no benefit to downstream or surrounding habitats.
.500(6)(b)Water Environment (n/a for uplands)	6	6	The AA displays several distinct hydrologic features such as inundation, saturation, water stained leaves and a high water table. Natural flows patterns are somewhat altered due to the road to the northeast of the AA, however the hydrological connection to the wetland system to the south is strong. Flows appear appropriate to support obligate wetland species. No indication of water quality degradation based on the suite of specie present, however, stormwater runoff from the roadside ditch is a potential source of untreated runoff inputs to the system.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	7	3	The assessment area is a forested wetland system that is surrounded by development. Trees are approximately 25 years of age and size distribution appears near normal. Plant condition appears generally good and there are no exotic invasive species present.

Score = sum of above scores/30 (if uplands, divide by 20)	
current or w/o pres	with
0.57	0.4

If preservation as mitigation,	
Preservation adjustment factor (0 - 1, 0.1 increments) =	
Adjusted mitigation delta =	0

For impact assessment areas
FL = delta x acres = 0.17x0.595 = 0.101

Delta = [with-current]
-0.17

If mitigation	
Time lag (t-factor) (see tables) =	1
Risk factor (1 - 3, 0.25 increments) =	1

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-041 (W-SRF-030)

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
630	Wetland Forested Mixed	Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

The AA is a part of a larger NWI wetland that is presumably hydrologically connected to a larger wetland system to the west.

Assessment area description

The AA is part of an isolated system that abuts Interstate 75. The Wetland has a dense sub-canopy and sparse understory. With the exception of the interstate the isolated wetland is surrounded by forested uplands.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
None	Not unique

Functions	Mitigation for previous permit/other historic use
BIOLOGICAL: Amphibian breeding; wading bird feeding; sandhill crane feeding; and reptile (snake) feeding.. PHYSICAL/CHEMICAL: Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention.	

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Salamanders, newts, toads, frogs, white ibis, wood stork, sandhill crane, wading birds, snipe, marsh rabbit, white tailed deer, and raccoon.	Florida sandhill crane (T, foraging, nesting, seasonal), wood stork (FE, foraging, seasonal), alligator (FT, foraging, breeding, long-term), tricolored heron (T, foraging, long-term), and little blue heron (T, foraging, long-term).

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

Deer tracks, turkey tracks, racoon tracks, cardinals, woodpeckers, and crows.

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
Stephen R. Florey	1-Nov-18

Form 62-345.900(1), F.A.C. [effective date 02-04-2004]

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-041 (W-SRF-030)
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	Stephen R. Florey	11/1/2018

Scoring Guidance	**Optimal (10)**	**Moderate(7)**	**Minimal (4)**	**Not Present (0)**
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

	w/o pres or current	with	
.500(6)(a) Location and Landscape Support	4	3	The assessment area provides moderate access to wildlife from the southwest, however, the northeast is completely fragmented by Interstate 75. AA provides moderate benefits to downstream habitats as it appears to be hydrologically connected to a larger wetland system to the west.
.500(6)(b)Water Environment (n/a for uplands)	5	5	The AA displays several distinct hydrologic features such as inundation, saturation and a high water table. Natural flows patterns are somewhat altered due to the interstate to the north of the AA, however there appears to be a strong hydrological connection to the large NWI wetland to the west. Flows appear appropriate to support obligate wetland species. No indication of water quality degradation based on the suite of specie present, however, stormwater runoff from the roadside ditch is a potential source of untreated runoff inputs to the system.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	6	3	The assessment area is a forested wetland system that is surrounded by both forested uplands and interstate development. Salix is the dominant canopy species, the age and size distribution appear near normal. Plant condition appears generally good and there are no exotic invasive species present.

Score = sum of above scores/30 (if uplands, divide by 20)	
current or w/o pres	with
0.5	0.37

Delta = [with-current]
-0.13

If preservation as mitigation,	
Preservation adjustment factor (0 - 1, 0.1 increments) =	
Adjusted mitigation delta =	0

If mitigation	
Time lag (t-factor) (see tables) =	1
Risk factor (1 - 3, 0.25 increments) =	1

For impact assessment areas
FL = delta x acres = 0.13 0.080 = 0.011

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-042 (W-RM-030)

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
621	Cypress	Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Surrounding habitats are a mixture of agricultural lands and native habitats. Agricultural lands include pine plantations, hay fields, and row crops. AA is 0.50 miles from I-10 and 0.25 miles from NW lake Jeffery Road. Historically larger wetland system occurred outside of AA.

Assessment area description

AA is cypress/mixed hardwood habitat. Cypress wetland appears to have been part of larger wetland that has been reduced by surrounding land activities. Southern portion of wetland contains dense cover of sawtooth blackberry (Rubus pensilvanicus). Southern portion of AA receives direct runoff from agricultural fields. AA is hydrologically connected to larger wetland habitat that occurs offsite.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
none	not unique

Functions	Mitigation for previous permit/other historic use
BIOLOGICAL: Amphibian breeding; wading bird feeding; sandhill crane feeding; and reptile (snake) feeding.. PHYSICAL/CHEMICAL: Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention.	

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Salamanders, newts, toads, frogs, white ibis, wood stork, sandhill crane, wading birds, snipe, marsh rabbit, white tailed deer, and raccoon.	Florida sandhill crane (T, foraging, nesting, seasonal), wood stork (FE, foraging, seasonal), alligator (FT, foraging, breeding, long-term), tricolored heron (T, foraging, long-term), and little blue heron (T, foraging, long-term).

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

none

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
Ramon Mendieta, ECT, Inc.	2-Nov-18

Form 62-345.900(1), F.A.C. [effective date 02-04-2004]

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase I		W-ECT-042 (W-RM-030)
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	Ramon Mendieta, ECT Inc.	11/2/2018

Scoring Guidance	**Optimal (10)**	**Moderate(7)**	**Minimal (4)**	**Not Present (0)**
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

	w/o pres or current	with	
.500(6)(a) Location and Landscape Support	7	6	Habitats outside of AA are a mixture of agricultural and native habitats. I-10 and NW Lake Jefferies Road are in close proximity to the AA. Invasive and nuisance exotic species observed outside of AA (torpedo grass, old world climbing fern, skunkvine).
.500(6)(b)Water Environment (n/a for uplands)	6	6	Water levels and flows appear appropriate, considering seasonal variation and antecedent weather and other climatic effects. Soil moisture appears normal. Drainage patterns affected by past impacts to AA and agricultural practices, outside of the project area. No evidence of use by wildlife with specific hydrologic requirements. Wetland receives runoff from agricultural fields.
.500(7)(c)Community Structure 1. Vegetation and/or 2. Benthic Community	7	3	All or nearly all plant cover is appropriate and desirable. Invasive exotic or other invasive plant species provide minimal vegetative cover. Rubus cover high in southern portion of AA. Plant condition is generally good.

Score = sum of above scores/30 (if uplands, divide by 20)	
current or w/o pres	0.67
with	0.5

If preservation as mitigation,	
Preservation adjustment factor (0 - 1, 0.1 increments) =	
Adjusted mitigation delta =	0

For impact assessment areas
FL = delta x acres =0.17x0.619 = 0.105

Delta = [with-current]
-0.17

If mitigation	
Time lag (t-factor) (see tables) =	1
Risk factor (1 - 3, 0.25 increments) =	1

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase 1		W-ECT-045A (W-MJS-001)

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
617	Mixed Wetland Hardwoods	Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

This Forested Wetland is part of a larger system that leads southeast beyond the survey area. The survey area encompasses and existing transmission line on the west edge, therefor hydrologic flow has already been altered.

Assessment area description

This wetland is characterized as forested hardwood swamp surrounded by forested upland to the north and south and mixed wetland hardwoods to the west and east. The elevated utility corridor may have affected natural drainage patterns.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
Orange Pond	Not Unique

Functions	Mitigation for previous permit/other historic use
BIOLOGICAL: Amphibian breeding; wading bird feeding; sandhill crane feeding; and reptile (snake) feeding.. PHYSICAL/CHEMICAL: Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention.	

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Salamanders, newts, toads, frogs, white ibis, wood stork, sandhill crane, wading birds, snipe, marsh rabbit, white tailed deer, and raccoon.	Florida sandhill crane (T, foraging, nesting, seasonal), wood stork (FE, foraging, seasonal), alligator (FT, foraging, breeding, long-term), tricolored heron (T, foraging, long-term), and little blue heron (T, foraging, long-term).

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

None

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
Michael Savage / David Flake ECT Inc.	5-Nov-18

Form 62-345.900(1), F.A.C. [effective date 02-04-2004]

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase 1		W-ECT-045A (W-MJS-001)
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	Michael Savage / David Flake ECT Inc.	11/5/2018

Scoring Guidance
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed

Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

	w/o pres or current	with	
.500(6)(a) Location and Landscape Support	7	6	The system is part of a larger NWI wetland leading further southeast, providing moderate benefits for wildlife species. Discharges from this wetland are not limited by flow impediments, and likely provide moderate benefits to downstream habitats. Wildlife access is not limited in any directing from surrounding forested areas. No invasive flora were observed. Conversion from forested to herbaceous will not significantly alter the LL support.
.500(6)(b)Water Environment (n/a for uplands)	5	5	Distinct hydrologic indicators present (high water table, stained leaves, water marks and muck presence). Although slightly altered from maintained transmission ROW, flows appear appropriate to support obligate wetland species. No indication of water quality degradation based on the suite of specie present, and due to its location within a large forested system stormwater inputs will not pose a threat. No adverse changes in the water environment are expected with the conversion to herbaceous
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	6	3	Area is dominated by a dense canopy (Nyssa), no prevalent sub-canopy and a strong fern herbaceous stratum. No invasive flora was observed. Topographic features are near optimal with the presence of vertical heterogeneity supporting a diversity of species throughout. Conversion to herbaceous will remove structural habitat, but promote understory species.

Score = sum of above scores/30 (if uplands, divide by 20)	
current or w/o pres	with
0.6	0.47

If preservation as mitigation,	
Preservation adjustment factor (0 - 1, 0.1 increments) =	
Adjusted mitigation delta =	0

For impact assessment areas
FL = delta x acres = 0.13x0.662= 0.086

Delta = [with-current]
-0.13

If mitigation	
Time lag (t-factor) (see tables) =	1
Risk factor (1 - 3, 0.25 increments) =	1

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase 1		W-ECT-045B (W-MJS-001)

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
617	Mixed Wetland Hardwoods	Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

This Forested Wetland is part of a larger system that leads southeast beyond the survey area. The survey area encompasses and existing transmission line on the west edge, therefor hydrologic flow has already been altered.

Assessment area description

This wetland is characterized as forested hardwood swamp surrounded by forested upland to the north and south and mixed wetland hardwoods to the west and east. The elevated utility corridor may have affected natural drainage patterns.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
Orange Pond	Not Unique

Functions	Mitigation for previous permit/other historic use
BIOLOGICAL: Amphibian breeding; wading bird feeding; sandhill crane feeding; and reptile (snake) feeding.. PHYSICAL/CHEMICAL: Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention.	

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Salamanders, newts, toads, frogs, white ibis, wood stork, sandhill crane, wading birds, snipe, marsh rabbit, white tailed deer, and raccoon.	Florida sandhill crane (T, foraging, nesting, seasonal), wood stork (FE, foraging, seasonal), alligator (FT, foraging, breeding, long-term), tricolored heron (T, foraging, long-term), and little blue heron (T, foraging, long-term).

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

None

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
Michael Savage / David Flake ECT Inc.	5-Nov-18

Form 62-345.900(1), F.A.C. [effective date 02-04-2004]

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase 1		W-ECT-045B (W-MJS-001)
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	Michael Savage / David Flake ECT Inc.	11/5/2018

Scoring Guidance
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed

Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	w/o pres or current: 7 / with: 6	The system is part of a larger NWI wetland leading further southeast, providing moderate benefits for wildlife species. Discharges from this wetland are not limited by flow impediments, and likely provide moderate benefits to downstream habitats. Wildlife access is not limited in any directing from surrounding forested areas. No invasive flora were observed. Conversion from forested to herbaceous will not significantly alter the LL support.
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current: 5 / with: 5	Distinct hydrologic indicators present (high water table, stained leaves, water marks and muck presence). Although slightly altered from maintained transmission ROW, flows appear appropriate to support obligate wetland species. No indication of water quality degradation based on the suite of specie present, and due to its location within a large forested system stormwater inputs will not pose a threat. No adverse changes in the water environment are expected with the conversion to herbaceous
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current: 6 / with: 3	Area is dominated by a dense canopy (Nyssa), no prevalent sub-canopy and a strong fern herbaceous stratum. No invasive flora was observed. Topographic features are near optimal with the presence of vertical heterogeneity supporting a diversity of species throughout. Conversion to herbaceous will remove structural habitat, but promote understory species.

Score = sum of above scores/30 (if uplands, divide by 20)	
current or w/o pres	with
0.6	0.47

If preservation as mitigation,	
Preservation adjustment factor (0 - 1, 0.1 increments) =	
Adjusted mitigation delta =	0

For impact assessment areas
FL = 0.13 x 0.023 = 0.003

Delta = [with-current]
-0.13

If mitigation	
Time lag (t-factor) (see tables) =	1
Risk factor (1 - 3, 0.25 increments) =	1

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase 1		W-ECT-046 (W-MJS-002)

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
617	Mixed Wetland Hardwoods	Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

This Forested Wetland is located on residential land. The survey area is bordered to the west by NW Parnell Road as well as an existing transmission line ROW resulting in an altered hydrologic flow from the west.

Assessment area description

This wetland is characterized as forested hardwood swamp surrounded by forested residential upland to the north and south, mixed wetland hardwoods to the east and Parnell Road to the west. The elevated road and utility corridor have affected natural drainage patterns as well as wildlife access.

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
None	Not Unique

Functions	Mitigation for previous permit/other historic use
BIOLOGICAL: Amphibian breeding; wading bird feeding; sandhill crane feeding; and reptile (snake) feeding.. PHYSICAL/CHEMICAL: Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention.	

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
Salamanders, newts, toads, frogs, white ibis, wood stork, sandhill crane, wading birds, snipe, marsh rabbit, white tailed deer, and raccoon.	Florida sandhill crane (T, foraging, nesting, seasonal), wood stork (FE, foraging, seasonal), alligator (FT, foraging, breeding, long-term), tricolored heron (T, foraging, long-term), and little blue heron (T, foraging, long-term).

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

Deer Tracks

Additional relevant factors:

None

Assessment conducted by:	Assessment date(s):
Michael Savage / David Flake ECT Inc.	5-Nov-18

Form 62-345.900(1), F.A.C. [effective date 02-04-2004]

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
NFRC Phase 1		W-ECT-046 (W-MJS-002)
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	Michael Savage / David Flake ECT Inc.	11/5/2018

Scoring Guidance
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed

Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

	w/o pres or current	with	
.500(6)(a) Location and Landscape Support	5	4	The assessment area is part of a larger system. Due to its location within residential property with restricting fences the feature provides minimal benefits for wildlife species. Discharges from this wetland are not limited by flow impediments to the east, and likely provide moderate benefits to downstream habitats. No invasive flora were observed. Conversion from forested to herbaceous will not significantly alter the LL support.
.500(6)(b)Water Environment (n/a for uplands)	4	4	Hydrologic indicators present (high water table, stained leaves and water marks). Although greatly altered from Parnell Road to the west, flows appear appropriate to support obligate wetland species. No indication of water quality degradation based on the suite of specie present, however, stormwater runoff from the roadside ditch is a potential source of untreated runoff inputs to the system. No adverse changes in the water environment are expected with the conversion to herbaceous
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	6	3	Area is dominated by canopy (Quercus), no prevalent sub-canopy and a moderate herbaceous stratum. No invasive flora was observed. Topographic features are near optimal with the presence of vertical heterogeneity supporting a diversity of species throughout. Conversion to herbaceous will remove structural habitat, but promote understory species.

Score = sum of above scores/30 (if uplands, divide by 20)	current or w/o pres	with
	0.5	0.37

If preservation as mitigation,	
Preservation adjustment factor (0 - 1, 0.1 increments) =	
Adjusted mitigation delta =	0

For impact assessment areas
FL = delta x acres = 0.13x0.042 = 0.005

Delta = [with-current]
-0.13

If mitigation	
Time lag (t-factor) (see tables) =	1
Risk factor (1 - 3, 0.25 increments) =	1

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]