ATTACHMENT A

UMAM Worksheets - Leon County

Site/Project Name		Application Number	er	Assessment Area Name or Number			
NFRC FGT Corridor Ali	gnment				W-ECT-N-2	31 (W-SRF 143)	
FLUCCs code	Further classification	ation (optional)		Impact	or Mitigation Site?	Assessment Area Size	
617	Mixe	ed Wetland Hardw	oods/		Impact		
Basin/Watershed Name/Number Af St. Marks River / 50990000	fected Waterbody (Cla	ss)	Special Classificat	tion (i.e.Ol	FW, AP, other local/state/fed	eral designation of importance)	
Geographic relationship to and hydro	logic connection with	n wetlands, other s	surface water, upl	ands			
This wetland is part of a larger syste	m to the south that c any possible connec					ts Tram Road dissecting	
Assessment area description							
The AA is a large PFO wetland syst	em that drains south se understory. The V					rate canopy cover and a	
Significant nearby features			Uniqueness (co landscape.)	onsideri	ng the relative rarity	in relation to the regional	
None			Not Unique				
Functions BIOLOGICAL: Vertical heterogeneity (3-4 strata); wading bir medium-large mammal habitat (cover, food, den				evious p	ermit/other historic เ	ıse	
PHYSICAL/CHEMICAL: Water quality treatment; sedime					N/A		
Anticipated Wildlife Utilization Based on Literat representative of the assessment area and rea				-	d Species (List species, tity of use of the assessm	heir legal classification (E, T, ent area)	
MAMMALS: opossum, raccoon, gray & flying squirrels, of downy, hairy & pileated woodpeckers, wood duck, turkey, hummingbird, yellow-throated & prothonotary warblers, her crowned night heron, wood stork, swallow-tailed and Missi chicken & box turtles, five-lined skink, ring-neck snake, gr AMPHIBIANS: cricket frog, marbled, mole, throad	chickadee, titmouse, Carolina wr mit thrush, yellow-billed cuckoo, l ssippi kites, red-shouldered hawk ay rat snake, eastern king snake,	en, cardinal, ruby-throated barred owl, limpkin, yellow- ;; REPTILES: green anole, water moccasin, alligator;	Florida panther (FE, hunting, incidental), American alligator (SSC, habitat, long-term), limpkin (SSC, foraging, frequent), wood stork (FE, foraging, roosting, seasonal), tricolored heron (SSC, foraging, roosting, nesting, seasonal), snowy egret (SSC, roosting, nesting, seasonal), little blue heron (SSC, roosting, nesting, seasonal).				
Observed Evidence of Wildlife Utiliza	tion (List species dire	ectly observed, or	other signs such	as trac	ks, droppings, casin	gs, nests, etc.):	
		None	;				
Additional relevant factors:							
None							
Assessment conducted by:			Assessment date	e(s):			
T.Callahan, R. Mcloughlin ECT Inc.			5/24/2019				

Site/Project Name		Application Number		Assessment Area	a Name or Numbe	r
NFRC FGT Corrid	lor Alignment			W-ECT-1	N-231 (W-SRF 143	3)
Impact or Mitigation		Assessment conducted by:		Assessment date	e:	
Impac	et	T.Callahan, R. Mcloughlin	ECT Inc.		5/24/2019	
Cooring Cuidones	Ontine at (40)		NA:	nima al (4)	Not Decord	(0)
Scoring Guidance The scoring of each	Optimal (10)	Moderate(7) Condition is less than	IVIII	nimal (4)	Not Present	: (0)
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	optimal, but sufficient to maintain most wetland/surface water functions	wetland	vel of support of /surface water unctions	Condition is insuf provide wetland, water functi	/surface
.500(6)(a) Location and Landscape Support w/o pres or current with 5	access from the north. To the Limestone Creek. The AA of significant benefits from	lorth by the FGT corridor and he south of the AA is more rei ffers optimal support for some om the AA as the old growth c e shrub fringe allows significar	mote with a but not all enter is well	continuing networ wildlife species. D protected from th	rk of wetlands drai Downstream habita ne surrounding frin	ning into its derive ge
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 5	appear slightly lower th	licators present (Saturation, m nan expected, however suffice opriate for most strata. Utaliza less than e	nt indicators tion of spec	s support a health	y interior. Evidenc	e of
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 6 3	dominated by Quercus and recruitment and plant cond FGT corridor. Land man	cross all stratum with a canop I llex and herbs primarily Osm ition appear near normal in th agement practices of maintair to herbaceous will remove st	undastrum are south of the corr	and Juncus on the ne AA and diminis ridor likely affect th	e perimeter. Reger sh in quality as it no he northern edge o	neration ears the of the
Score = sum of above scores/30 (if uplands, divide by 20) current or w/o pres with 0.53 0.43	If preservation as mitig Preservation adjustme Adjusted mitigation de	nt factor =		For impact assess = 0.10 x 0.412 =		
	If mitigation		Fo	or mitigation asse	essment areas	İ
Delta = [with-current] -0.1	Time lag (t-factor) = Risk factor =		RFG	= delta/(t-factor x	risk) #DIV/0!	l
-0.1	Mar lactor -			_		i

Site/Project Name		Application Number	er		Assessment Area Name	or Number			
NRFC FGT Corridor	Alignment				W-ECT-N-23	3 (W-SRF-141)			
FLUCCs code	Further classifi	ication (optional)		Impac	t or Mitigation Site?	Assessment Area Size			
617	Mi	ixed Wetland Hardw	/oods		Impact				
Basin/Watershed Name/Number St. Marks River / 50990000	Affected Waterbody (C	lass)	Special Classificati	on (i.e.C	DFW, AP, other local/state/federa	al designation of importance)			
Geographic relationship to and hyd	Irologic connection w	ith wetlands, other s	surface water, upla	nds					
This wetland is part of a larger syst		drains into the St. Mection to wetlands				s Tram Road dissecting			
Assessment area description	-								
The AA is a large PFO wetland s growth cypress tress. The AA									
Significant nearby features			Uniqueness (co landscape.)	nsider	ing the relative rarity in	relation to the regional			
St. Marks River, Limestone Creek			Not Unique						
Functions			Mitigation for pre	vious _l	permit/other historic us	e			
BIOLOGICAL: Vertical heterogeneity (3-4 strata); wading medium-large mammal habitat (cover, food,									
PHYSICAL/CHEMICAL: Water quality treatment; sed reten	liment/erosion control; recharge/dis ntion/detention.	scharge; detrital export; flood	N/A						
Anticipated Wildlife Utilization Based on Lite representative of the assessment area and	, ,				ed Species (List species, the sity of use of the assessmen				
MAMMALS: opossum, raccoon, gray & flying squirrels, of hairy & pileated woodpeckers, wood duck, turkey, chickar yellow-throated & prothonotary warblers, hermit thrush heron, wood stork, swallow-tailed and Mississippi kites turtles, five-lined skink, ring-neck snake, gray rat snak cricket frog, marbled, mole, three-li	dee, titmouse, Carolina wren, cardi n, yellow-billed cuckoo, barred owl, s, red-shouldered hawk; REPTILES te, eastern king snake, water mocc	inal, ruby-throated hummingbird limpkin, yellow-crowned night 5: green anole, chicken & box asin, alligator; AMPHIBIANS:	Florida panther (FE, hunting, incidental), American alligator (SSC, habitat, long-term), limpkin (SSC, foraging, frequent), wood stork (FE, foraging, roosting, seasonal), tricolored heron (SSC, foraging, roosting, nesting, seasonal), snowy egret (SSC, roosting, nesting, seasonal), little blue heron (SSC, roosting, nesting, seasonal).						
Observed Evidence of Wildlife Utili	zation (List species d	lirectly observed, or	other signs such a	as trac	ks, droppings, casings	, nests, etc.):			
	Deer tracks, e	vidence of crayfish,	anoles, several bi	ird spe	cies.				
Additional relevant factors:									
None									
Assessment conducted by:			Assessment date	e(s):					
T.Callahan, R. Mcloughlin ECT Inc	:•		5/17/2019						

Site/Project Name		Application Number		Assessment Area	a Name or Numbe	<u></u>
	dar Aligamant	7 Application Number				
NRFC FGT Corric	aoi Alighinent				N-233 (W-SRF-14	1)
Impact or Mitigation		Assessment conducted by:		Assessment date		
Impa	ot	T.Callahan, R. Mcloughlin	ECT Inc.		5/17/2019	
Scoring Guidance	Ontimal (40)	Modorato/7\	l Min	nimal (4)	Not Drocon	t (0)
The scoring of each	Optimal (10)	Moderate(7) Condition is less than	IVIII	nimal (4)	Not Present	1 (0)
indicator is based on what	Condition is optimal and fully supports	optimal, but sufficient to		vel of support of	Condition is insu	
would be suitable for the	wetland/surface water	maintain most		surface water	provide wetland	
type of wetland or surface water assessed	functions	wetland/surface waterfunctions	l tu	nctions	water functi	ons
water assessed		waterfullolions	l		l	
.500(6)(a) Location and Landscape Support w/o pres or current with	access from the north. To t the St. Marks river. The A derive significant benefits	lorth by the FGT corridor and he south of the AA is more ren A offers adequate support for s from the AA as the old grow s fringe allows significant wetla	mote with a c some but no th center is v	continuing networ ot all wildlife speci vell protected fror	rk of wetlands drai ies. Downstream h m the surrounding	ning into nabitats fringe
6 6	1					
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 6 6	crayfish). Flows appear s	indicators present (Standing v slightly lower than expected, h conation is appropriate for mos species such	owever suffi st strata. Evid	cent indicators su	upport a healthy in	terior.
.500(6)(c)Community structure						
Vegetation and/or Enthic Community w/o pres or current with	shrubs dominated by Cyrill and plant condition appear in Land management practice	across all startum with a cano a and Clethra and herbs prima near normal in the south of the s of maintaining the corridor li eous will remove structural ha	arily Woodwa AA and dim kely affect th	ardia and Carex. ninish in quality a ne northern edge	Regeneration recr s it nears the FGT of the wetland. Co	ruitment corridor.
Score = sum of above scores/30 (if	If preservation as mitig	gation,	F	or impact assess	sment areas	
uplands, divide by 20)	Preservation adjustme	ent factor =	<u> </u>	0.4. 0.455 -	. 0.1.1	
current pr w/o pres with	l		FL	= 0.1 x 0.106 = 0	.011	
0.6 0.5	Adjusted mitigation de	Ita = 0				
0.0	1					
	If mitigation		F	or mitigation	seement eress	
Delta = [with-current]	Time lag (t-factor) =		FC	or mitigation asse	:२२।।।दा।। वादवड	
	+		RFG	= delta/(t-factor x	risk) #DIV/0!	
-0.1	Risk factor =		į.	=	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1

Site/Project Name		Application Numb	er	Assessment Area Name or Number		
NFRC FGT Corridor A	lignment			W-ECT-I	N-235_3	
FLUCCs code	Further classifica	ation (optional)		Impact or Mitigation Site	? Assessment Area Size	
617	Mixe	ed Hardwood We	tland	Impact		
Basin/Watershed Name/Number A	Affected Waterbody (Cla	ess)	Special Classificat	tion (i.e.OFW, AP, other local/st	tate/federal designation of importance)	
Geographic relationship to and hyd	rologic connection wit	h wetlands, othe	surface water, u	plands		
This forested wetland is hydrologic is bordered to the east an	-					
Assessment area description						
The assessment area is charac		hardwood swamp Herbaceous strati	•	scrub shrub concentrate	ed around the perimeter.	
Significant nearby features			Uniqueness (consider	ing the relative rarity in relation to	o the regional landscape.)	
None				Not unique		
Functions				vious permit/other histo	oric use	
BIOLOGICAL: Vertical heterogeneity (3-4 strata); wading l medium-large mammal habitat (cover, food, de						
PHYSICAL/CHEMICAL: Water quality treatment; sedim retention	ent/erosion control; recharge/discha on/detention.	arge; detrital export; flood		NA		
Anticipated Wildlife Utilization Based on Liter representative of the assessment area and r	· · · · · · · · · · · · · · · · · · ·		· ·	n by Listed Species (List speci nd intensity of use of the asse	cies, their legal classification (E, T, essment area)	
MAMMALS: opossum, raccoon, gray & flying squirrels, downy, hairy & pileated woodpeckers, wood duck, turker hummingbird, yellow-throated & prothonotary warblers, h crowned night heron, wood stork, swallow-tailed and Mis chicken & box turtles, five-lined skink, ring-neck snake, & AMPHIBIANS: cricket frog, marbled, mole, the	y, chickadee, titmouse, Carolina wre ermit thrush, yellow-billed cuckoo, b ssissippi kites, red-shouldered hawk gray rat snake, eastern king snake, iree-lined, slimy and southern dusky	en, cardinal, ruby-throated parred owl, limpkin, yellow- ;; REPTILES: green anole, water moccasin, alligator; y salamanders.	American alligator (SSC, habitat, long-term), limpkin (SSC, foraging, frequent), wood stork (FE, foraging, roosting, seasonal), tricolored heron (SSC, foraging, roosting, nesting, seasonal), snowy egret (SSC, roosting, nesting, seasonal), little blue heron (SSC, roosting, nesting, seasonal).			
Observed Evidence of Wildlife Utiliz	ation (List species dir	rectly observed, o	or other signs suc	h as tracks, droppings,	casings, nests, etc.):	
	gambusi	a, deer (tracks),	Black Racer sight	ing		
Additional relevant factors:						
None						
Assessment conducted by:			Assessment date	e(s):		
T. Callahan, R. Mcloughlin ECT Inc	·•		16-May-19			

Site/Project Name		Application Number Assessment Area Name or Number						
NFRC FGT Corric	dor Alignment		W-ECT-	N-235_3				
Impact or Mitigation		Assessment conducted by:	Assessment date	<u> </u>				
Impac	ct	TC/ RM		5/16/2019				
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 with 7	wetland habitats by a pe Discharges from this we downstream habitats. Wildl	area part of a larger forested wetland system that is hydrologically connected to other large by a perennial stream. The system provides moderate benefits for most wildlife species. In this wetland are not limited by flow impediments, and likely provide moderate benefits to ts. Wildlife access is partially limited to the north by Tram Road, but is not limited to/from the e 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 with 6	(n/a for uplands) (n/a for upla							
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 7 3 Area is dominated by canopy (Nyssa, Taxodium) and sub-canopy species with a sparse herbaceous stratum-age and size distribution is near normal for a mixed hardwood swamp. Structural habitat is less than optimal due to the lack of herbaceous habitat. No invasive flora present. Topographic features are near optimal with the presence of vertical heterogeneity supporting a diversity of species throughout. Conversion to herbaceous with a sparse herbaceous stratum-age and size distribution is near normal for a mixed hardwood swamp. Structural habitat is less than optimal due to the lack of herbaceous habitat. No invasive flora present. Topographic features are near optimal with the presence of vertical heterogeneity supporting a diversity of species throughout. Conversion to herbaceous with a sparse herbaceous stratum-age and size distribution is near normal for a mixed hardwood swamp. Structural habitat is less than optimal due to the lack of herbaceous with a sparse herbaceous stratum-age and size distribution is near normal for a mixed hardwood swamp. Structural habitat is less than optimal due to the lack of herbaceous with a sparse herbaceous stratum-age and size distribution is near normal for a mixed hardwood swamp. Structural habitat is less than optimal due to the lack of herbaceous with a sparse herbaceous stratum-age and size distribution is near normal for a mixed hardwood swamp. Structural habitat is less than optimal due to the lack of herbaceous with a sparse herbaceous with a sparse herbaceous stratum-age and size distribution is near normal for a mixed hardwood swamp. Structural habitat is less than optimal due to the lack of herbaceous with a sparse								
Score = sum of above scores/30 (if uplands, divide by 20) current or w/o pres with 0.67 0.5	If preservation as mitig Preservation adjustment (0 - 1, 0.1 increments) = Adjusted mitigation de	t factor	For impact asses					
Delta = [with-current]	If mitigation Time lag (t-factor) (see	e tables) =	For mitigation asse	essment areas				
-0.17	Risk factor (1 - 3, 0.25 increments) =	,	RFG = delta/(t-factor x =	crisk)				

Site/Project Name		Application Number	er		Assessment Area Name	or Number		
NRFC FGT Corridor	Alignment				W-ECT-N-236	6_2 (W-TRC-013)		
FLUCCs code	Further classifica	ation (optional)		Impac	t or Mitigation Site?	Assessment Area Size		
617	Mixe	ed Wetland Hardw	roods		Impact			
Basin/Watershed Name/Number	Affected Waterbody (Clas	ss)	Special Classification	on (i.e.C	DFW, AP, other local/state/federa	I designation of importance)		
St. Marks River Basin/ 50990000								
Geographic relationship to and hyd This wetland is a small isolated appears to have historically bee	system that appears to	have historically	connected to a larg	ger sys				
Assessment area description								
This is a small isolated wetland th water	at is hardwood dominat marsh feature. The fore	•			_	rridor and has an open		
Significant nearby features			Uniqueness (collandscape.)	nsider	dering the relative rarity in relation to the regional			
None			Not Unique					
Functions			Mitigation for prev	vious p	permit/other historic us	e		
BIOLOGICAL: Vertical heterogeneity (3-4 strata); wadin medium-large mammal habitat (cover, food,								
PHYSICAL/CHEMICAL: Water quality treatment; sec reter	liment/erosion control; recharge/dischantion/detention.	arge; detrital export; flood	N/A					
Anticipated Wildlife Utilization Based on Lite representative of the assessment area and	,		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)					
MAMMALS: opossum, raccoon, gray & flying squirrels, of hairy & pileated woodpeckers, wood duck, turkey, chicka yellow-throated & prothonotary warblers, hermit thrust heron, wood stork, swallow-tailed and Mississipi kite turtles, five-lined skink, ring-neck snake, gray rat snal cricket frog, marbled, mole, three-l	dee, titmouse, Carolina wren, cardinal n, yellow-billed cuckoo, barred owl, lim s, red-shouldered hawk; REPTILES: gi	, ruby-throated hummingbird, pkin, yellow-crowned night reen anole, chicken & box n, alligator; AMPHIBIANS:						
Observed Evidence of Wildlife Utili	zation (List species dire	ectly observed, or	other signs such a	s tracl	ks, droppings, casings,	nests, etc.):		
	Crayfish, Small fish in o	pen water area. D	eer tracks, possib	le arm	nadillo holes.			
Additional relevant factors:								
N/A								
Assessment conducted by:			Assessment date	(s):				
T.Callahan, R. Mcloughlin ECT Inc			5/16/2019					

Site/Project Name		Application Number		Assessment Area	a Name or Numbe	ſ
NRFC FGT Corrie	dor Alignment			W-ECT-N	N-236_2 (W-TRC-0	13)
Impact or Mitigation		Assessment conducted by:		Assessment date):	
Impa	ct	T.Callahan, R. Mcloughlin	ECT Inc.		5/16/2019	
Scoring Guidance	Ontimal (40)	Moderate(7)	Mi	nimal (4)	Not Broson	· (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Optimal (10) Condition is optimal and fully supports wetland/surface water functions	Moderate(7) Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal le wetland	nimal (4) evel of support of /surface water unctions	Condition is insu provide wetland water functi	fficient to /surface
	•					
.500(6)(a) Location and Landscape Support v/o press or current with 6	barriers to the south howeve for most wildlife, howeve	ed south of Tram road. The AA r as the AA is bordered by und ver due to its proximity to Tram o been altered due to tram road access to t	listurbed pin n road it is se d. Overall th	ne upland. The AA omewhat limited b	provides moderat by barriers. Benefit	e support s to
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 6 7	presence). As an isolated sy has pooled as an emergen support the system the distri	s present (Inundation, saturati estem this AA has been dissec t marsh within the FGT corrido ibution is inconsistent and the nage from Tram road could ca	ted from its or. Although vegetation o	northern portion a the water levels a does not always ap	cross tram road. T and flow appear op ppear appropriate	he water timal to
.500(6)(c)Community structure The AA is both forested and herbaceous in equal portions. The forested portion is hardwood dominon Nyssa with representative Taxodium species. The understory is moderate to sparse as the canopy When the AA crosses the FGT corridor it become an emergent marsh with several inundated area roadside ditch. No exotic species were observed. Plant condition is good and age and size distribution altered appears normal for its current state. Conversion to herbaceous will remove structural habits understory species on the one have and will not alter the other half at all.				the canopy is quite ndated areas abut size distribution al ctural habitat, but	e dense. ting the though	
	<u> </u>					
Score = sum of above scores/30 (if uplands, divide by 20) current or w/o pres with 0.57 0.54	If preservation as mitigation and preservation adjustment Adjusted mitigation delayed.	nt factor =		For impact assess = 0.03 x 0.279 =		
	If mitigation			for mitigation assa	esmont areas	
Delta = [with-current]	Time lag (t-factor) =			For mitigation asse		
-0.03	Risk factor =		REG	G = delta/(t-factor x =	(TISK)	

Site/Project Name		Application Number	er	As	Assessment Area Name or Number		
NRFC FGT Corridor Al	ignment				W-ECT-N-2	37_2 (W-SRF-136)	
FLUCCs code	Further classifica	ation (optional)		Impact or	r Mitigation Site?	Assessment Area Size	
617	Mixe	ed Wetland Hardw	oods/		Impact		
Basin/Watershed Name/Number A	ffected Waterbody (Clas	ss)	Special Classificat	ion (i.e.OFV	V, AP, other local/state/fec	leral designation of importance)	
Geographic relationship to and hydro	ologic connection with	wetlands, other s	surface water, upl	ands			
This forested system is part of a larg	ge network of wetland wetlands to the north						
Assessment area description							
This wetland is a densely forested wetland	mixed hardwood syst contains some very la		•	•	•	erstory. The heart of the	
Significant nearby features			Uniqueness (considering the relative rarity in relation to the regional landscape.)				
None			Not Unique				
Functions BIOLOGICAL: Vertical heterogeneity (3-4 strata); wading bird feeding, roosting, nesting; macroinvertebrate habitat; sm. medium-large mammal habitat (cover, food, dens); amphibian/reptile cover, breeding, and feeding. PHYSICAL/CHEMICAL: Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention.			Mitigation for previous permit/other historic use N/A				
Anticipated Wildlife Utilization Based on Litera representative of the assessment area and re			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)				
MAMMALS: opossum, raccoon, gray & flying squirrels, downy, hairy & pileated woodpeckers, wood duck, turkey hummingbird, yellow-throated & prothonotary warblers, he crowned night heron, wood stork, swallow-tailed and Mischicken & box turtles, five-lined skink, ring-neck snake, and AMPHIBIANS: cricket frog, marbled, mole, the	r, chickadee, titmouse, Carolina wro ermit thrush, yellow-billed cuckoo, t sissippi kites, red-shouldered hawk gray rat snake, eastern king snake,	en, cardinal, ruby-throated parred owl, limpkin, yellow- ; REPTILES: green anole, water moccasin, alligator;	limpkin (SSC, fora	aging, frequ SSC, foragi	uent), wood stork (FE, fing, roosting, nesting, s	gator (SSC, habitat, long-term), oraging, roosting, seasonal), easonal), snowy egret (SSC, roosting, nesting, seasonal).	
Observed Evidence of Wildlife Utiliza	ation (List species dire	ectly observed, or	other signs such	as tracks	s, droppings, casin	gs, nests, etc.):	
	D	eer tracks, severa	al bird species.				
Additional relevant factors:							
		N/A					
Assessment conducted by:			Assessment date	e(s):			
T.Callahan, R. Mcloughlin ECT Inc.			5/16/2019				

Site/Project Name		Application Number		Assessment Area	a Name or Numbe	r
NRFC FGT Corric	lor Alignment			W-ECT-N	N-237_2 (W-SRF-	136)
Impact or Mitigation		Assessment conducted by:		Assessment date	e:	
Impac	et	T.Callahan, R. Mcloughlin	ECT Inc.		5/16/2019	
Cooring Cuidonoo	Ontimal (40)	Madarata (7)	l M:	nimal (4)	Not Drocon	4 (0)
Scoring Guidance The scoring of each	Optimal (10)	Moderate(7) Condition is less than	IVII	nimal (4)	Not Present	τ (υ)
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	optimal, but sufficient to maintain most wetland/surface water functions	wetland	evel of support of /surface water unctions	Condition is insu provide wetland water functi	l/surface
.500(6)(a) Location and Landscape Support w/o pres or current with 7	encompasses a stream hydrologically connected to this system is in a relatively	etland system that is dissected which cuts through the FGT of large wetland systems both to remote location with few barrion significant. The traffic noise a inhibitor to larger r	corridor and the north a ers to wild li nd road cros	is culverted unde and to the south. C fe. Aquatic wildlife ssing of tram road	r Tram road. The A Other then the line e is uninhibited and	AA is r features d benefits
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 7	muck presence). Natural flow cannelization under Tram re Plant comunity composition	rs present (Standing water, saws patterns are somewhat alteroad. Water levels and flow are demonstrates relatively gooll contributor to water quality d	ered due to e appropriat d water qua	the maintained, but the to support healt folity especially furt	uilt up FGT corrido hy hydrophytic veo her south from Tra	or and the getation.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 7	Taxodium. The understor shrubby with species such a recruitment of native species	od mixed forested system. Th ry is more open especially in t as clethra and lyonia. No exoti s is normal and natural. Topog oad. Conversion to herbaceou spec	the heart of ic invasive s graphic feat us will remo	the wetland. The pecies were obse wres are slightly le	perimeter become erved and regenera ess than optimal as	e more ation and s the flow
Score = sum of above scores/30 (if uplands, divide by 20) current or w/o pres with 0.7 0.57	If preservation as mitig Preservation adjustme Adjusted mitigation del	nt factor =		For impact assess = 0.13 x 1.169 =		
	If mitigation			or mitigation asse	sement areas	i
Delta = [with-current]	Time lag (t-factor) =					
-0.13	Risk factor =		KFG	i = delta/(t-factor x =	(IISK)	

Site/Project Name	•	Application Number	er		Assessment Area Name	or Number
NRFC FGT Corridor	Alignment				W-ECT-N-238 ₋	_2 (W-SRF-136)
FLUCCs code	Further classification	ation (optional)		Impac	et or Mitigation Site?	Assessment Area Size
617	Mixe	ed Wetland Hardw	voods		Impact	
Basin/Watershed Name/Number St. Marks River / 50990000	Affected Waterbody (Cla	ss)	Special Classificati	on (i.e.(DFW, AP, other local/state/federa	al designation of importance)
Geographic relationship to and hyd	drologic connection with	n wetlands, other s	surface water, upla	ands		
This forested system is part of a land	arge network of wetland of wetlands to the north					gically connected to the
Assessment area description						
This wetland is a densely foreste wetlan	ed mixed hardwood syst d contains some very la					story. The heart of the
Significant nearby features			Uniqueness (considering the relative rarity in relation to the regional landscape.)			
	None				Not Unique	
Functions	_		Mitigation for pre	vious	permit/other historic us	e
BIOLOGICAL: Vertical heterogeneity (3-4 strata); wadir medium-large mammal habitat (cover, food,						
PHYSICAL/CHEMICAL: Water quality treatment; sec retei	diment/erosion control; recharge/dischantion/detention.	arge; detrital export; flood			N/A	
Anticipated Wildlife Utilization Based on Litrepresentative of the assessment area and			'	•	ed Species (List species, the sity of use of the assessmen	* * * *
MAMMALS: opossum, raccoon, gray & flying squirre downy, hairy & pileated woodpeckers, wood duck, tur hummingbird, yellow-throated & prothonotary warblers crowned night heron, wood stork, swallow-tailed and I chicken & box turtles, five-lined skink, ring-neck snak AMPHIBIANS: cricket frog, marbled, mole	key, chickadee, titmouse, Carolina wre s, hermit thrush, yellow-billed cuckoo, t Mississippi kites, red-shouldered hawk e, gray rat snake, eastern king snake,	en, cardinal, ruby-throated barred owl, limpkin, yellow- c; REPTILES: green anole, water moccasin, alligator;	Florida panther (FE, hunting, incidental), American alligator (SSC, habitat, long-term), limpkin (SSC, foraging, frequent), wood stork (FE, foraging, roosting, seasonal), tricolored heron (SSC, foraging, roosting, nesting, seasonal), snowy egret (SSC, roosting, nesting, seasonal), little blue heron (SSC, roosting, nesting, seasonal).			
Observed Evidence of Wildlife Util	ization (List species dire	ectly observed, or	other signs such	as trad	cks, droppings, casings	s, nests, etc.):
	D	eer tracks, severa	al bird species.			
Additional relevant factors:						
		N/A				
Accompany conducted by:			Management data	\(\alpha\).		
Assessment conducted by: T.Callahan, R. Mcloughlin ECT Ind	> .		Assessment date 5/16/2019	z(S).		
, , , , , , , , , , , , , , , , , , , ,			1			

Site/Project Name		Application Number		Assessment Area	a Name or Numbe	r
NRFC FGT Co	orridor Alignment			W-ECT-N	-238_2 (W-SRF-136)
Impact or Mitigation		Assessment conducted by:		Assessment date	9:	
Im	pact	T.Callahan, R. Mcloughlin	ECT Inc.		5/16/2019	
Scoring Guidanco	Ontimal (10)	Moderate(7)	l Mir	aimal (4)	Not Propent	· (0)
Scoring Guidance The scoring of each	Optimal (10)	Moderate(7) Condition is less than	IVIII	nimal (4)	Not Present	. (0)
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	optimal, but sufficient to maintain most wetland/surface water functions	wetland/	vel of support of /surface water inctions	Condition is insuf provide wetland/ water function	/surface
.500(6)(a) Location and Landscape Support w/o pres or current with 6	encompasses a stream hydrologically connected to this system is in a relatively to downstream habitats are	vetland system that is dissected in which cuts through the FGT of a large wetland systems both to by remote location with few barries a significant. The traffic noise a inhibitor to larger r	corridor and the north and ers to wild lift and road cros	is culverted unde nd to the south. C fe. Aquatic wildlife ssing of tram road	r Tram road. The A Other then the liner e is uninhibited and	AA is features d benefits
.500(6)(b)Water Environmer (n/a for uplands) w/o pres or current with	Distinct hydrologic indicate muck presence). Natural flocannelization under Tram Plant comunity composition. The main potential control of the main potentia	ors present (Standing water, sa ows patterns are somewhat alte road. Water levels and flow are on demonstrates relatively goo al contributor to water quality d	ered due to t e appropriate d water qual	he maintained, but to support healt lity especially furt	uilt up FGT corrido hy hydrophytic veg her south from Tra	or and the getation.
.500(6)(c)Community structure. 1. Vegetation and/or 2. Benthic Community w/o pres or current with 3	the AA is primarily hardwork Taxodium. The underston shrubby with species such recruitment of native species is channelized under tram	ood mixed forested system. Th ory is more open especially in t as clethra and lyonia. No exoti es is normal and natural. Topog road. Conversion to herbaceou spec	the heart of t ic invasive s graphic featu us will remov	the wetland. The pecies were obse ures are slightly le	perimeter become erved and regenera ess than optimal as	more ation and s the flow
Score = sum of above scores/30 uplands, divide by 20) current or w/o pres with 0.63 0.	Preservation adjustment Adjusted mitigation de	ent factor =		For impact asses: = 0.13 x 1.828 =		
	If mitigation		Fo	or mitigation asse	ssment areas	
Delta = [with-current]	Time lag (t-factor) =			= delta/(t-factor x	rick)	
-0.13	Risk factor =		I'' G	= 40110/(1-100101 X	#DIV/0!	

Site/Project Name		Application Number		Assessment Area	a Name or Numbe	r
NRFC FGT Corric	dor Alignment			W-ECT-N-238_2 (W-SRF-136A_1))		
Impact or Mitigation		Assessment conducted by:		Assessment date	e:	
Impac	et	T.Callahan, R. Mcloughlin ECT Inc.			5/16/2019	
				ļ		
Scoring Guidance	Optimal (10)	Moderate(7)	Mi	nimal (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	wetland	evel of support of /surface water unctions	Condition is insuf provide wetland, water functi	/surface
.500(6)(a) Location and Landscape Support w/o pres or current with	is connected to W-SRF-13 The AA is hydrologically continued liner features this system uninhibited and benefits to	etland system that is dissected 6 via stream which cuts throu connected to large wetland system is in a relatively remote loc downstream habitats are sign does pose as a major inhibito	igh the FGT tems both to ation with fe ificant. The	corridor and is cuent to the north and to sew barriers to wild traffic noise and r	ulverted under Tra the south. Other t life. Aquatic wildlif	m road. hen the fe is
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with	muck presence). Natural flow cannelization under Tram re	rs present (Standing water, sa ws patterns are somewhat alte oad. Water levels and flow are y degradation based on plant quality degredation is runoff	ered due to to the appropriate community	the maintained, but to support healt composition. Pot	uilt up FGT corrido hy hydrophytic veg	or and the getation.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with	Taxodium. The understor shrubby with species such a recruitment of native species	ood mixed forested system. The yis more open especially in the as clethra and lyonia. No exoting is normal and natural. Topogo and. Conversion to herbaceous spec	ne heart of t c invasive s graphic feato us will remov	he wetland. The page of the pecies were obsectives are slightly le	perimeter becomes erved and regenera ess than optimal as	more ation and the flow
	•					
Score = sum of above scores/30 (if	If preservation as mitig	ation		For impact assess	sment areas	
uplands, divide by 20)			- Tot impact		corii aroas	
current pr w/o pres with	Preservation adjustme			= delta x	0	
or w/o pres with 0.56667 0	Adjusted mitigation del	ta = 0		acres =		
0.0007	1					
	If mitigation			or mitigation case	sement aroas	
Delta = [with-current]	Time lag (t-factor) =			or mitigation asse		
-0.566666667	Risk factor =		RFG	= delta/(t-factor x =	risk) #DIV/0!	

Site/Project Name Application Num		Application Number	nber Assessment Area Name or Number			or Number	
NFRC FGT Corridor A		, application railing	•			1_4 (W-SRF-134)	
				1.		_ ` '	
FLUCCs code	Further classificat	tion (optional)		Impac	t or Mitigation Site?	Assessment Area Size	
630	We	tland Forested Mi	xed	Impact			
Basin/Watershed Name/Number	Affected Waterbody (Clas	s)	Special Classificati	ion (i.e.0	OFW, AP, other local/state/feder	al designation of importance)	
St. Marks River / 50990000							
Geographic relationship to and hydr	ologic connection with	wetlands, other si	urface water, upla	nds			
The area is a mature mixed fores	_	is a head water s ning south to the	•	s to se	everal other forested w	etland systems before	
Assessment area description							
The assessment area is a mixed for hards	prested wetland system woods. The System cor	-				swamps intermixed with	
Significant nearby features			Uniqueness (conside	ering the	e relative rarity in relation to	the regional landscape.)	
Lake Erie, St. Marks River, Old Plank road			Not unique				
Functions	Mitigation for pre	vious	permit/other historic us	e			
BIOLOGICAL: Vertical heterogeneity (3-4 strata); wading medium-large mammal habitat (cover, food, o							
PHYSICAL/CHEMICAL: Water quality treatment; sedin retent	ment/erosion control; recharge/dischargion/detention.	ge; detrital export; flood			NA		
Anticipated Wildlife Utilization Based on Liter representative of the assessment area and r	•		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)				
Black bear, bobcat, deer, gray squirrel, otter, racc barred owl, pileated woodpecker, turkey, wood duck limpkin, Carolina wren, five-lined skink, box turtle cottonmouth, red-shouldered hawk, ruby-throated h woodpecker, yellow-cro	k, chickadee, titmouse, yellow-bille e, ring neck snake, gray rate snak	ed cuckoo, chicken turtle, e, eastern king snake,	frequent), wood stork (FE, roosting, foraging, long-term), tricolored heron (SSC, foraging, nesting,				
Observed Evidence of Wildlife Utiliz	ation (List species direc	ctly observed, or	other signs such a	as trac	ks, droppings, casings	, nests, etc.):	
	Deer tracks, turkey track	ks, racoon tracks,	cardinals, woodpe	eckers	s, and crows.		
Additional relevant factors:							
None							
Assessment conducted by:			Assessment date	e(s):			
Stephen R. Florey / Kaylee August			15-May-19				

Site/Project Name		Application Number		Assessment Area	a Name or Numbe	r
NFRC FGT Corri	dor Alignment			W-ECT-N-241_4 (W-SRF-134)		
Impact or Mitigation		Assessment conducted by:		Assessment date):	
Impa	ct	Stephen R. Florey / Kayle	e August		5/15/2019	
Scoring Guidance	Optimal (10)	Moderate(7)	l Mi	inimal (4)	Not Preser	ot (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	Moderate(7) Minimal (4) Condition is less than optimal, but sufficient to maintain most wetland/surface water functions Minimal (4) Minimal (4) Minimal (4) Minimal (4) Minimal (4) Minimal (4)			Condition is insuprovide wetland	ufficient to
.500(6)(a) Location and Landscape Support w/o pres or current with 5	beyond the survey area. W	ea southeast of the City of Tall Vith the exception of the maint s optimal support for most wild benefits from	ained FGT life species	corridor there are a	no major barriers t	to wildlife
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with	are several strong hydrolog	mature forested wetland syster gical indicators present (Inunc he only potential for water qua surrounding p	lation, Satu lity degrada	ration, Water Mark ation is harvesting/	ks, Muck). Water l	evels and
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 5	The assessment area is a years. The canopy consists	forested wetland system that primarily of Cypress and vario sive species were observed. O structural habitat but prome	ous hardwoo Conversion	ods and there is a from forested to he	healthy understory	of shrubs
Score = sum of above scores/30 (if uplands, divide by 20) current or w/o pres with 0.5 0.4	If preservation as mitig Preservation adjustment (0 - 1, 0.1 increments) = Adjusted mitigation del	factor	FL =	For impact assess delta x acres = 0.7		
Delta = [with-current]	If mitigation	e tables) = 1	F	For mitigation asse	ssment areas	
-0.1	Risk factor (1 - 3, 0.25 increments) =) (see tables) = 1 0.25 RFG = delta/(t-factor x risk) =				

Site/Project Name Application Nur		Application Numbe	ber Assessment Area Name or Number			e or Number	
NFRC FGT Corridor Aliç	gnment				W-ECT-N-24	3A_2 (W-SRF-132)	
FLUCCs code	Further classificat	tion (optional)		Impact	or Mitigation Site?	Assessment Area Size	
630	We	tland Forested Mi	xed	Impact			
Basin/Watershed Name/Number Af	fected Waterbody (Clas	ss)	Special Classificati	on (i.e.O	FW, AP, other local/state/feder	al designation of importance)	
St. Marks River / 50990000							
Geographic relationship to and hydrol	ogic connection with	wetlands, other su	urface water, uplai	nds			
The area is a mature mixed foreste	_	t is a head water s ning south to the	•	s to se	veral other forested w	etland systems before	
Assessment area description							
The assessment area is a mixed fore hardwo	ested wetland system oods. The System cor	•				swamps intermixed with	
Significant nearby features			Uniqueness (conside	ering the	relative rarity in relation to	the regional landscape.)	
Lake Erie, St. Marks River, Old Plank road			Not unique				
Functions	Mitigation for pre	vious p	permit/other historic us	se			
BIOLOGICAL: Vertical heterogeneity (3-4 strata); wading bir medium-large mammal habitat (cover, food, den							
PHYSICAL/CHEMICAL: Water quality treatment; sediment retention	nt/erosion control; recharge/dischar /detention.	ge; detrital export; flood	NA				
Anticipated Wildlife Utilization Based on Literati representative of the assessment area and rea			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)				
Black bear, bobcat, deer, gray squirrel, otter, raccoo barred owl, pileated woodpecker, turkey, wood duck, c limpkin, Carolina wren, five-lined skink, box turtle, r cottonmouth, red-shouldered hawk, ruby-throated hun woodpecker, yellow-crown	chickadee, titmouse, yellow-bille ing neck snake, gray rate snak	ed cuckoo, chicken turtle, e, eastern king snake,	frequent), wood stork (FE, roosting, foraging, long-term), tricolored heron (SSC, foraging, nesting,				
Observed Evidence of Wildlife Utilizat	tion (List species dire	ctly observed, or	other signs such a	s track	s, droppings, casings	, nests, etc.):	
De	er tracks, turkey track	ks, racoon tracks,	cardinals, woodpe	eckers,	, and crows.		
Additional relevant factors:							
None							
Assessment conducted by:			Assessment date	e(s):			
•			14-May-19				

Site/Project Name	Application Number	Α	ssessment Area N	lame or Numbe	r
NFRC FGT Corridor Alignment			W-ECT-N-2	243A_2 (W-SRF	⁻ -132)
mpact or Mitigation	Assessment conducted by:	A	ssessment date:		
Impact	Stephen R. Florey / Kayle	ee August	5,	/14/2019	
Scoring Guidance Optimal (10)	Moderate(7)	Moderate(7) Minimal			t (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	el of support of (Condition is insu provide wetland water funct	ifficient to	
beyond the survey area.	area southeast of the City of Tal With the exception of the maint es optimal support for most wild benefits fron	tained FGT co	rridor there are no	major barriers t	o wildlife
are several strong hydrol	a mature forested wetlad syster ogical indicators present (Inund The only potential for water qua surrounding p	dation, Saturat	ion, Water Marks, on is harvesting/pla	Muck). Water le	evels and
2 Benthic Community years. The canopy consist	a forested wetland system that ts primarily of Cypress and vario asive species were observed. 0 structural habitat but prom	ous hardwoods Conversion fro	s and there is a he m forested to herb	althy understory	of shrubs
Score = sum of above scores/30 If preservation as mit	tigation,	F	or impact assessm	ent areas	
(if uplands, divide by 20) Preservation adjustmen	nt factor =		13 x 1.872 = 0.243		
or w/o pres with 0.7	lelta = 0				
or w/o pres with 0.7 0.57 Adjusted mitigation d	lelta = 0				
or w/o pres with Adjusted mitigation d		For	mitigation assess	ment areas	

Site/Project Name Application Num			nber Assessment Area Name or Number				
Site/Project Name		Application Number	er		Assessment Area Nam	e or Number	
NFRC FGT Corridor A	lignment				W-ECT-N-24	3B (W-SRF-132)	
FLUCCs code	Further classificat	tion (optional)		Impac	t or Mitigation Site?	Assessment Area Size	
630	We	tland Forested Mi	xed	Impact			
Basin/Watershed Name/Number	Affected Waterbody (Clas	s)	Special Classificati	ion (i.e.C	DFW, AP, other local/state/fede	al designation of importance)	
St. Marks River / 50990000							
Geographic relationship to and hydr	ologic connection with	wetlands, other s	urface water, upla	nds			
The area is a mature mixed fores	_	is a head water s ning south to the	•	s to se	everal other forested v	etland systems before	
Assessment area description							
The assessment area is a mixed for hardy	rested wetland system voods. The System cor	•				swamps intermixed with	
Significant nearby features			Uniqueness (conside	ering the	e relative rarity in relation to	the regional landscape.)	
Lake Erie, St. Marks River, Old Plank road			Not unique				
Functions	Mitigation for pre	vious p	permit/other historic u	se			
BIOLOGICAL: Vertical heterogeneity (3-4 strata); wading bird feeding, roosting, nesting; macroinvertebrate habitat; small-medium-large mammal habitat (cover, food, dens); amphibian/reptile cover, breeding, and feeding.							
PHYSICAL/CHEMICAL: Water quality treatment; sedin retent	nent/erosion control; recharge/dischar on/detention.	ge; detrital export; flood			NA		
Anticipated Wildlife Utilization Based on Liter representative of the assessment area and re			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)				
Black bear, bobcat, deer, gray squirrel, otter, racc barred owl, pileated woodpecker, turkey, wood duck limpkin, Carolina wren, five-lined skink, box turtle cottonmouth, red-shouldered hawk, ruby-throated h woodpecker, yellow-crov	t, chickadee, titmouse, yellow-bille e, ring neck snake, gray rate snak	ed cuckoo, chicken turtle, e, eastern king snake,	frequent), wood stork (FE, roosting, foraging, long-term), tricolored heron (SSC, foraging, nesting,				
Observed Evidence of Wildlife Utiliz	ation (List species dire	ctly observed, or	other signs such a	as tracl	ks, droppings, casings	, nests, etc.):	
D	eer tracks, turkey track	s, racoon tracks,	cardinals, woodpe	eckers	, and crows.		
Additional relevant factors:							
None							
Assessment conducted by:			Assessment date	e(s):			
Stephen R. Florey / Kaylee August			14-May-19				

Site/Project Name		Application Number		Assessment Area	a Name or Numbe	er		
NFRC FGT Cor	ridor Alignment			W-ECT-1	N-243B (W-SRF-	132)		
Impact or Mitigation		Assessment conducted by:		Assessment date	:			
Imp	act	Stephen R. Florey / Kayle	e August		5/14/2019	_		
Scoring Guidance	Optimal (10)	Moderate(7) Condition is less than optimal, but sufficient to maintain most wetland/surface water functions Minimal (4) Minimal (4) Minimal (evel of support wetland/surface water functions			Moderate(7) Minimal (4)		Not Prese	nt (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 ins provide wetlan water fund	ufficient to		
.500(6)(a) Location and Landscape Support w/o pres or current with	beyond the survey area. V	ea southeast of the City of Tal Vith the exception of the maint s optimal support for most wild benefits fron	ained FGT llife species	corridor there are r and downstream b	no major barriers	to wildlife		
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with	The assessment area is a are several strong hydrolog	mature forested wetlad syster gical indicators present (Inund The only potential for water qua surrounding p	dation, Satu ality degreda	ration, Water Mark ation is harvesting/p	s, Muck). Water	levels and		
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 7 3	The assessment area is a years. The canopy consists	n forested wetland system that primarily of Cypress and varion naive species were observed. Of structural habitat but prom	ous hardwoo Conversion	ods and there is a l from forested to he	healthy understor	y of shrubs		
Score = sum of above scores/30 (if uplands, divide by 20)	If preservation as mitig			For impact assess	sment areas			
current or w/o pres with 0.7 0.5	(0 - 1, 0.1 increments) = Adjusted mitigation de		FL =	0.13 x 0.077 = 0.0	10			
	If mitigation		F	or mitigation asses	ssment areas	1		
Delta = [with-current]	Time lag (t-factor) (see	,	RFG	= delta/(t-factor x	risk)	1		
-0.13	Risk factor (1 - 3, 0.25 increments) =	3, 0.25 = Tri G = deita/(Flactor x fisk)						

Site/Project Name Application Num			nber Assessment Area Name or Number				
		Application Number	;1				
NFRC FGT Corridor A	lignment				W-ECT-N-24	3D (W-SRF-132)	
FLUCCs code	Further classificat	tion (optional)		Impac	t or Mitigation Site?	Assessment Area Size	
630	We	tland Forested Mi	ixed	Impact			
Basin/Watershed Name/Number	Affected Waterbody (Clas	s)	Special Classificati	ion (i.e.C	DFW, AP, other local/state/fede	al designation of importance)	
St. Marks River / 50990000	,	,	·	·		, ,	
Geographic relationship to and hydr	ologic connection with	wetlands, other s	urface water, upla	nds			
The area is a mature mixed fores	_	is a head water s ning south to the	•	s to se	everal other forested v	etland systems before	
Assessment area description							
The assessment area is a mixed for hardy	rested wetland system voods. The System cor	•				swamps intermixed with	
Significant nearby features			Uniqueness (consid	ering the	e relative rarity in relation to	the regional landscape.)	
Lake Erie, St. Marks River, Old Plank road			Not unique				
Functions	Mitigation for pre	vious	permit/other historic u	se			
BIOLOGICAL: Vertical heterogeneity (3-4 strata); wading medium-large mammal habitat (cover, food, c							
PHYSICAL/CHEMICAL: Water quality treatment; sedin retent	nent/erosion control; recharge/dischar on/detention.	ge; detrital export; flood			NA		
Anticipated Wildlife Utilization Based on Liter representative of the assessment area and re			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)				
Black bear, bobcat, deer, gray squirrel, otter, racc barred owl, pileated woodpecker, turkey, wood duck limpkin, Carolina wren, five-lined skink, box turtle cottonmouth, red-shouldered hawk, ruby-throated h woodpecker, yellow-crov	t, chickadee, titmouse, yellow-bille e, ring neck snake, gray rate snak	ed cuckoo, chicken turtle, e, eastern king snake,	frequent), wood stork (FE, roosting, foraging, long-term), tricolored heron (SSC, foraging, nesting,				
Observed Evidence of Wildlife Utiliz	ation (List species dire	ctly observed, or	other signs such a	s trac	ks, droppings, casings	s, nests, etc.):	
D	eer tracks, turkey track	ks, racoon tracks,	cardinals, woodpe	eckers	, and crows.		
Additional relevant factors:							
None							
Assessment conducted by:			Assessment date	e(s):			
Stephen R. Florey / Kaylee August			14-May-19				

Site/Project Name		Application Number	Asse	ssment Area Name or Num	ber
NFRC FGT Corri	dor Alignment			W-ECT-N-243D (W-SRI	F-132)
Impact or Mitigation		Assessment conducted by:	Asse	ssment date:	
Impa	ct	Stephen R. Florey / Kayle	e August	5/14/2019	
Scoring Guidance	Optimal (10)	Moderate(7)	Minimal	(4) Not Pres	sent (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	support of Condition is ince water provide wetlens water fu	nsufficient to and/surface	
.500(6)(a) Location and Landscape Support w/o pres or current with 7	beyond the survey area. W	ea southeast of the City of Tal Vith the exception of the maint s optimal support for most wild benefits fron	ained FGT corrido	or there are no major barrie	rs to wildlife
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 7	are several strong hydrolog	mature forested wetlad syster gical indicators present (Inund he only potential for water qua surrounding p	dation, Saturation,	Water Marks, Muck). Water	er levels and
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 7 3	years. The canopy consists	forested wetland system that primarily of Cypress and vario sive species were observed. 0 structural habitat but prom	ous hardwoods an Conversion from fo	d there is a healthy underst prested to herbaceous will r	ory of shrubs
Score = sum of above scores/30	If preservation as mitig	gation.	For im	npact assessment areas	
(if uplands, divide by 20) current or w/o pres with 0.7 0.57	Preservation adjustment (0 - 1, 0.1 increments) = Adjusted mitigation del	factor		1.332 = 0.173	
Dolta - Swith overcant	If mitigation	o tables) = 1	For miti	gation assessment areas	
Delta = [with-current] -0.13	Risk factor (1 - 3, 0.25	(see tables) = 1 D.25 RFG = delta/(t-factor x risk) =			

Site/Project Name Application Nu		Application Numbe	ber Assessment Area Name or Number			e or Number	
NFRC FGT Corridor Aliq	gnment				W-ECT-N-24	3E_2 (W-SRF-132)	
FLUCCs code	Further classificat	tion (optional)		Impact	t or Mitigation Site?	Assessment Area Size	
630	We	tland Forested Mi	xed	Impact			
Basin/Watershed Name/Number Af	fected Waterbody (Clas	s)	Special Classificati	on (i.e.O	DFW, AP, other local/state/feder	al designation of importance)	
St. Marks River / 50990000							
Geographic relationship to and hydro	logic connection with	wetlands, other su	urface water, uplar	nds			
The area is a mature mixed foreste	_	is a head water s ning south to the	•	s to se	veral other forested w	etland systems before	
Assessment area description							
The assessment area is a mixed fore hardwo	ested wetland system oods. The System cor	•				swamps intermixed with	
Significant nearby features			Uniqueness (conside	ering the	e relative rarity in relation to	the regional landscape.)	
Lake Erie, St. Marks River, Old Plank road			Not unique				
Functions			Mitigation for pre	vious p	permit/other historic us	se .	
BIOLOGICAL: Vertical heterogeneity (3-4 strata); wading bir medium-large mammal habitat (cover, food, den							
PHYSICAL/CHEMICAL: Water quality treatment; sedime retention	nt/erosion control; recharge/dischar n/detention.	ge; detrital export; flood	NA				
Anticipated Wildlife Utilization Based on Literat representative of the assessment area and rea	,		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)				
Black bear, bobcat, deer, gray squirrel, otter, raccoo barred owl, pileated woodpecker, turkey, wood duck, o limpkin, Carolina wren, five-lined skink, box turtle, r cottonmouth, red-shouldered hawk, ruby-throated hun woodpecker, yellow-crown	chickadee, titmouse, yellow-bille ring neck snake, gray rate snak	ed cuckoo, chicken turtle, e, eastern king snake,	frequent), wood stork (FE, roosting, foraging, long-term), tricolored heron (SSC, foraging, nesting,				
Observed Evidence of Wildlife Utiliza	tion (List species dire	ctly observed, or	other signs such a	s track	s, droppings, casings	, nests, etc.):	
De	er tracks, turkey track	ks, racoon tracks,	cardinals, woodpe	eckers,	, and crows.		
Additional relevant factors:							
None							
Assessment conducted by:			Assessment date	e(s):			
Stephen R. Florey / Kaylee August			14-May-19				

Site/Project Name		Application Number		Assessment Area	a Name or Numbe	er
NFRC FGT Corr	idor Alignment		W-ECT-N-243E_2 (W-SRF-132)			
Impact or Mitigation		Assessment conducted by:		Assessment date	ate:	
Impa	act	Stephen R. Florey / Kayle	e August		5/14/2019	
Scoring Guidance	Optimal (10)	Moderate(7)	M	inimal (4) Not Pres		nt (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			Condition is ins provide wetlan water fund	ufficient to d/surface
.500(6)(a) Location and Landscape Support w/o pres or current with 7	beyond the survey area. V	ea southeast of the City of Tal Vith the exception of the maint s optimal support for most wild benefits fron	ained FGT llife species	corridor there are i and downstream l	no major barriers	to wildlife
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with	are several strong hydrolog	mature forested wetlad syster gical indicators present (Inunc he only potential for water qua surrounding p	dation, Satu ality degreda	ration, Water Mark ation is harvesting/	s, Muck). Water l	levels and
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 7 3	The assessment area is a years. The canopy consists	forested wetland system that primarily of Cypress and vario sive species were observed. O structural habitat but prom	ous hardwoo Conversion	ods and there is a l from forested to he	healthy understor	y of shrubs
Score = sum of above scores/30	If preservation as mitig	gation.		For impact assess	sment areas	 1
(if uplands, divide by 20) current or w/o pres with 0.7 0.57	Preservation adjustment (0 - 1, 0.1 increments) = Adjusted mitigation de	factor	FL =	0.13 x 1.619 = 0.2		
	If mitigation					1
Delta = [with-current]	If mitigation Time lag (t-factor) (see	e tables) = 1	F	or mitigation asse	ssment areas	
-0.13	Risk factor (1 - 3, 0.25 increments) =	REG = delta/(t_factor v_risk)				

Site/Project Name Application Nun		Application Number	hber Assessment Area Name or Number			or Number	
NRFC FGT Corridor	Alignment					0B_1 (W-TRC-006)	
FLUCCs code	Further classific	ation (optional)		Impac	t or Mitigation Site?	Assessment Area Size	
621		Cypress			Impact		
Basin/Watershed Name/Number St. Marks River Basin/ 50990000	Affected Waterbody (Cla	ass)	Special Classificati	on (i.e.C	DFW, AP, other local/state/federa	al designation of importance)	
Geographic relationship to and hyd This Forested system is part of a via several streams throughout Assessment area description This large wetland system begins	large network of cypres the systems. The uplar	ss domes to the no nd areas are active Road	orth of the AA. The ely planted with sla	wetla	e. To the west, the we	tland abuts Old Plank	
the system stays to the north of the	•	mes a large interc	onnected cypress	swam	p. The interior of the w		
Significant nearby features			Uniqueness (co landscape.)	nsider	ing the relative rarity in	relation to the regional	
None			Not Unique				
Functions BIOLOGICAL: Vertical heterogeneity (3-4 strata); wading bird feeding, roosting, nesting; macroinvertebrate habitat; small-medium-large mammal habitat (cover, food, dens); amphibian/reptile cover, breeding, and feeding. PHYSICAL/CHEMICAL: Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention.			Mitigation for previous permit/other historic use N/A				
Anticipated Wildlife Utilization Based on Lite representative of the assessment area and			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)				
MAMMALS: black bear, panther, bobcat, dee BIRDS: red-shouldered hawk, barred owl, pileate limpkin, prothonotary warbler, swallow-tailed k AMPHIBIANS: cricket frog, flatwoods & mole sale REPTILES: water moccasin, alligator, mu	d woodpecker, wood duck, egret ite, rusty blackbird, great crested amanders, oak & narrow mouth to	is, herons, purple gallinule, I flycatcher, wood stork; oads, pinewoods treefrog;	stork (FE, roosting, foraging, long-term), tricolored heron (SSC, foraging, nesting,				
Observed Evidence of Wildlife Util	ization (List species dire	ectly observed, or	other signs such a	s trac	ks, droppings, casings	, nests, etc.):	
		N/A					
Additional relevant factors:							
N/A							
Assessment conducted by:			Assessment date	e(s):			
T.Callahan, R. Mcloughlin ECT Inc.			5/14/2019				

Site/Project Name		Application Number		Assessment Area	nent Area Name or Number		
NRFC FGT Corrid	lor Alignment			W-ECT-N-250B_1 (W-TRC-006)			
Impact or Mitigation		Assessment conducted by:		Assessment date	:		
Impac	et	T.Callahan, R. Mcloughlin	ECT Inc.		5/14/2019		
0	0 (1 1/40)	Moderate(7)		Minimal (4) No		(0)	
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) Condition is optimal and fully supports wetland/surface water functions	Condition is less than				/surface	
.500(6)(a) Location and Landscape Support w/o pres or current with	a relatively remote undeve maintained and built up cau	of a larger wetland system that eloped property with all upland using channelization in some a pport for most wildlife species Plank road t	s currently p reas, howe and does n	olanted with slash ver culvers and cr	pine. The FGT cor eeks maintain coni	ridor is nection.	
Distinct hydrologic indicators present (saturation, stained leaves, water marks, muck presence). Natural from patterns are somewhat altered due to the maintained, built up FGT corridor. Wetland connectivity has be channelized by several individual streams crossing via culverts. Water levels are appropriate and consistent the heart of the wetlands while the perimeter remains saturated. The only potential hydrological stress come the pine production and all associated equipment. There are no nearby developed features that could pote contribute to water quality degradation.					been ent within nes from		
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 3 The forested portion of this wetland system is cypress dominated with other mixed coniferous and hardwood species diversity, however the perimeter is primarily Titi. Place of the feature has good species diversity, however the perimeter is primarily Titi. Place of the feature has good species diversity, however the perimeter is primarily Titi. Place of the feature has good species diversity, however the perimeter is primarily Titi. Place of the feature has good species diversity, however the perimeter is primarily Titi. Place of the feature has good species diversity, however the perimeter is primarily Titi. Place of the feature has good species diversity, however the perimeter is primarily Titi. Place of the feature has good species diversity, however the perimeter is primarily Titi. Place of the feature has good species diversity, however the perimeter is primarily Titi. Place of the feature has good species diversity, however the perimeter is primarily Titi. Place of the feature has good species diversity, however the perimeter is primarily Titi. Place of the feature has good species diversity, however the perimeter is primarily Titi. Place of the feature has good species diversity, however the perimeter is primarily Titi. Place of the feature has good species diversity, however the perimeter is primarily Titi. Place of the feature has good species diversity, however the perimeter is primarily Titi. Place of the feature has good species diversity, however the perimeter is primarily Titi. Place of the feature has good species diversity, however the perimeter is primarily Titi. Place of the feature has good species diversity, however the perimeter is primarily Titi. Place of the feature has good species diversity, however the perimeter is primarily Titi. Place of the feature has good species diversity, however the perimeter is primarily Titi. Place of the feature has good species diversity, however the perim						. Plant bserved	
Score = sum of above scores/30 (if uplands, divide by 20) current or w/o pres with 0.8 0.63	If preservation as mitigated Preservation adjustment Adjusted mitigation delt	nt factor =		= 0.17 x 0.501= 0			
	If mitigation		-		-	1	
Delta = [with-current]	Time lag (t-factor) =		F	or mitigation asse	ssment areas		
-0.17	Risk factor =		RFG	G = delta/(t-factor x =	risk) #DIV/0!		

Site/Project Name Application			er Assessment Area Name or Number			or Number	
NRFC FGT Corridor	Alignment			W-ECT-N-250B_2 (W-TRC-00			
FLUCCs code	Further classific	ation (optional)		Impac	et or Mitigation Site?	Assessment Area Size	
621		Cypress			Impact		
Basin/Watershed Name/Number St. Marks River Basin/ 50990000	Affected Waterbody (Cla	ass)	Special Classificati	on (i.e.(DFW, AP, other local/state/federa	al designation of importance)	
Geographic relationship to and hyd This Forested system is part of a via several streams throughout Assessment area description This large wetland system begins	large network of cypres the systems. The uplar	ss domes to the no nd areas are active Road	orth of the AA. The ely planted with sla	wetla	e. To the west, the we	tland abuts Old Plank	
the system stays to the north of the	•	mes a large interc	onnected cypress	swam	p. The interior of the w		
Significant nearby features			Uniqueness (considering the relative rarity in relation to the regional landscape.)				
None			Not Unique				
Functions BIOLOGICAL: Vertical heterogeneity (3-4 strata); wadin medium-large mammal habitat (cover, food PHYSICAL/CHEMICAL: Water quality treatment; see	, dens); amphibian/reptile cover, bree	eding, and feeding.	Mitigation for previous permit/other historic use N/A				
Anticipated Wildlife Utilization Based on Lite representative of the assessment area and			· ·	-	ed Species (List species, the		
MAMMALS: black bear, panther, bobcat, dee BIRDS: red-shouldered hawk, barred owl, pileate limpkin, prothonotary warbler, swallow-tailed k AMPHIBIANS: cricket frog, flatwoods & mole sala REPTILES: water moccasin, alligator, mu	d woodpecker, wood duck, egret ite, rusty blackbird, great crested amanders, oak & narrow mouth to	is, herons, purple gallinule, I flycatcher, wood stork; oads, pinewoods treefrog;	American alligator (stork (FE, roosting	SSC, ha	, ,	onal) little blue heron (SSC,	
Observed Evidence of Wildlife Util	ization (List species dire	ectly observed, or	other signs such a	ıs trac	ks, droppings, casings	, nests, etc.):	
		N/A					
Additional relevant factors:							
N/A							
Assessment conducted by:			Assessment date	e(s):			
T.Callahan, R. Mcloughlin ECT Inc) .		5/14/2019				

Site/Project Name		Application Number		Assessment Area Name or Number		
NRFC FGT Corrid	lor Alignment			W-ECT-N-250B_2 (W-TRC-006)		
Impact or Mitigation		Assessment conducted by:		Assessment date):	
Impac	et	T.Callahan, R. Mcloughlin	ECT Inc.		5/14/2019	
0	0 (1 1/40)				N 45	(0)
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) Condition is optimal and fully supports wetland/surface water functions	Moderate(7) Minimal (4) Not Present (0) Condition is less than optimal, but sufficient to maintain most wetland/surface water functions Minimal (4) Not Present (0) Condition is insufficient to wetland/surface water functions wetland/surface water functions				fficient to
.500(6)(a) Location and Landscape Support w/o pres or current with 6	a relatively remote undeve maintained and built up cau	of a larger wetland system that eloped property with all upland using channelization in some a pport for most wildlife species Plank road t	s currently p reas, howe and does n	olanted with slash presented w	pine. The FGT cor eeks maintain con	ridor is nection.
Distinct hydrologic indicators present (saturation, stained leaves, water marks, muck presence). Natural fit patterns are somewhat altered due to the maintained, built up FGT corridor. Wetland connectivity has be channelized by several individual streams crossing via culverts. Water levels are appropriate and consistent the heart of the wetlands while the perimeter remains saturated. The only potential hydrological stress come the pine production and all associated equipment. There are no nearby developed features that could pote contribute to water quality degradation.					been ent within nes from	
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 7 3 The forested portion of this wetland system is cypress dominated with other mixed coniferous and hardwood s throughout. The interior of the feature has good species diversity, however the perimeter is primarily Titi. Pl condition is good and regeneration and recruitment appears near normal. Minimal exotic presence was obse (Lygodium). Conversion to herbaceous will remove structural habitat, but promote understory species.					. Plant bserved	
Score = sum of above scores/30 (if uplands, divide by 20) current or w/o pres with 0.63 0.5	If preservation as mitigate Preservation adjustment Adjusted mitigation deltaring If mitigation	nt factor =	FL	For impact assess = 0.13 x 0.00000	1 = 0.000	
Delta = [with-current]	Time lag (t-factor) =					
-0.13	Risk factor =		RFG = delta/(t-factor x risk) =			

Site/Project Name		Application Number	er		Assessment Area Name	or Number	
NFRC FGT Corridor A	Alignment				W-ECT-N-25	3_2 (W-RM-116)	
FLUCCs code	Further classifica	ation (optional)		Impac	t or Mitigation Site?	Assessment Area Size	
621		Cypress			Impact		
Basin/Watershed Name/Number	Affected Waterbody (Cla	iss)	Special Classificat	ion (i.e.	OFW, AP, other local/state/fede	eral designation of importance)	
Geographic relationship to and hyd	drologic connection with	h wetlands, other	surface water, up	lands			
Pine plantation habitat surrounds <i>A</i> proximity to AA. Two lane roads ne		A has been harve	sted. AA is conne	cted to	o other wetlands off sit	e. Utility ROW in close	
Assessment area description							
AA is cypress wetland. Additional s been harvested.	species included titi and	d shiny lyonia. Sta	anding water in ar	eas of	AA. No native upland	buffer as pine has	
Significant nearby features			Uniqueness (conside	ering the	e relative rarity in relation to	the regional landscape.)	
	not unique						
Functions				vious	permit/other historic us	se	
BIOLOGICAL: Vertical heterogeneity (3-4 strata); wading medium-large mammal habitat (cover, food, c							
PHYSICAL/CHEMICAL: Water quality treatment; sedir retent	ment/erosion control; recharge/discha tion/detention.	arge; detrital export; flood	NA				
Anticipated Wildlife Utilization Based on Lite representative of the assessment area and					ed Species (List species, the sity of use of the assessmen		
MAMMALS: black bear, panther, bobcat, deer, BIRDS: red-shouldered hawk, barred owl, pile gallinule, limpkin, prothonotary warbler, swallowood stork; AMPHIBIANS: cricket frog, flatwood pinewoods treefrog; REPTILES: water moccaribb	ated woodpecker, wood duck, e w-tailed kite, rusty blackbird, gre ods & mole salamanders, oak &	egrets, herons, purple reat crested flycatcher, a narrow mouth toads,	Florida black bear (T, foraging, incidental), Florida panther (FE, hunting, incidental), American alligator (SSC, habitat, long-term), limpkin (SSC, foraging, frequent), wood stork (FE, roosting, foraging, long-term), tricolored heron (SSC, foraging, nesting, seasonal), snowy egret (SSC, foraging, nesting, seasonal) little blue heron (SSC, foraging, nesting, seasonal).				
Observed Evidence of Wildlife Utili	zation (List species dir	ectly observed, o	r other signs such	as tra	acks, droppings, casin	gs, nests, etc.):	
none							
Additional relevant factors:							
None							
Assessment conducted by:			Assessment date	e(s):			
Ramon Mendieta, ECT, Inc.			22-May-19				

Site/Proje	ect Name		Application Number	Assessment A	Assessment Area Name or Number		
NFRC FGT Corridor Alignment				W-EC	W-ECT-N-253_2 (W-RM-116)		
Impact or	Mitigation		Assessment conducted by:	Assessment d	ate:		
'	Imp	act	Ramon Mendieta, EC	5/22/2019			
	·						
	ng Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)		
indicator i would be type of we	coring of each is based on what e suitable for the etland or surface er assessed	Condition is optimal and fully supports wetland/surface water functions	rts maintain most wetland/surface water provide wetland				
	6)(a) Location and ndscape Support with	range of habitats needed to proximity to AA may limit ac	a predominately pine plantation fulfill live history requirement beess to wildlife. Invasive exoses outside the AA have an a	s of some wildlife listed in tic or other invasive plant s	Part 1. Two-lane roads in		
.500(6)(b)Water Environment (n/a for uplands) Water levels and flows appear as expected, considering seasonal variation and antecedent weather and other climatic effects. Soil moisture appears normal. Drainage patterns affected by past impacts to surrounding uplands and past agricultural practices outside of the AA. No evidence of use by wildlife with specific hydrology requirements. Wetland receives runoff from pine plantation.							
1. V	Community Structure /egetation and/or enthic Community with	All or nearly all plant cover i	is appropriate and desirable. ide little to no vegetative cove		gh. Invasive exotic or other		
	sum of above scores/30 lands, divide by 20) with	Preservation adjustment (0 - 1, 0.1 increments) = Adjusted mitigation de	t factor	For impact asse			
		If mitigation		For mitigation as	sessment areas		
	a = [with-current] -0.13	Time lag (t-factor) (se Risk factor (1 - 3, 0.25 increments) =	,	RFG = delta/(t-factor	x risk)		
							

Site/Project Name		Application Numb	er		Assessment Area Nam	e or Number
NFRC FGT Corridor A	Alignment				W-ECT-N-2	55 (W-RM-115)
FLUCCs code	Further classifica	ition (optional)		Impac	t or Mitigation Site?	Assessment Area Size
617	Mixe	d Wetland Hardw	voods		Impact	
Basin/Watershed Name/Number	Affected Waterbody (Cla	ss)	Special Classificat	tion (i.e.	OFW, AP, other local/state/fe	deral designation of importance)
Geographic relationship to and hyd	rologic connection with	n wetlands, other	<u>l</u> surface water, up	olands		
Pine plantation habitat surrounds A proximity to AA. Two lane roads ne		A has been harve	sted. AA is conne	ected to	o other wetlands off s	ite. Utility ROW in close
Assessment area description						
AA is mixed wetland hardwood wet included titi, shiny lyonia, St. John's western boundary as pine has bee	s wort, and red root. St				•	•
Significant nearby features			Uniqueness (consid	lering th	e relative rarity in relation t	o the regional landscape.)
ı	none				not unique	
Functions BIOLOGICAL: Vertical heterogeneity (3-4 strata); wading medium-large mammal habitat (cover, food, d PHYSICAL/CHEMICAL: Water quality treatment; sedir retent	ens); amphibian/reptile cover, breedi	ng, and feeding.		vious	permit/other historic u	use
Anticipated Wildlife Utilization Based on Lite representative of the assessment area and MAMMALS: opossum, raccoon, gray & flying squirrels downy, hairy & pileated woodpeckers, wood duck, turki hummingbird, yellow-throated & prothonotary warblers, crowned night heron, wood stork, swallow-tailed and M chicken & box turtles, five-lined skink, ring-neck snake, AMPHIBIANS: cricket frog, marbled, mole, the processing of the same control of the control of th	reasonably expected to be for , otter, gray fox, white-tailed deer, bo py, chickadee, titmouse, Carolina wre hermit thrush, yellow-billed cuckoo, b ississippi kites, red-shouldered hawk gray rat snake, eastern king snake,	bund) bcat, black bear; BIRDS: en, cardinal, ruby-throated sarred owl, limpkin, yellow- ; REPTILES: green anole, water moccasin, alligator;	SSC), type of use, ar Florida panther (FE, limpkin (SSC, fora tricolored heron (S	hunting aging, fro	sity of use of the assessment, incidental), American alligequent), wood stork (FE, for aging, roosting, nesting, se	neir legal classification (E, T, ent area) ator (SSC, habitat, long-term), braging, roosting, seasonal), easonal), snowy egret (SSC, oosting, nesting, seasonal).
Observed Evidence of Wildlife Utili	zation (List species dir	ectly observed, o	I r other signs such	n as tra	acks, droppings, casi	ngs, nests, etc.):
none						
Additional relevant factors:						
None						
Assessment conducted by:			Assessment date	e(s):		
Ramon Mendieta, ECT, Inc.	21-May-19					

Site/Project Nam	е		Application Number	Assessment A	Assessment Area Name or Number		
NFRC FGT Corridor Alignment			W-ECT-N-255 (W-RM-1				
Impact or Mitigat	ion		Assessment conducted by:	Assessment da	ate:		
	Impa	ct	Ramon Mendieta, EC	5/21/2019			
	·						
Scoring Guid		Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)		
The scoring o indicator is based would be suitable type of wetland o water asses	d on what e for the or surface	Condition is optimal and fully supports wetland/surface water functions	fully supports maintain most wetland/surface water wetland/surface water wetland/surface water functions fully support of corrections wetland/surface water				
.500(6)(a) Lo Landscape w/o pres or current 6		range of habitats needed to proximity to AA may limit ac	a predominately pine plantation fulfill live history requirement cess to wildlife. Invasive exotoses outside the AA have an a	s of some wildlife listed in l tic or other invasive plant s	Part 1. Two-lane roads in		
.500(6)(b)Water Environment (n/a for uplands) Water levels and flows appear as expected, considering seasonal variation and antecedent weather and other climatic effects. Soil moisture appears normal. Drainage patterns affected by past impacts to surrounding uplands and past agricultural practices outside of the AA. No evidence of use by wildlife with specific hydrologous requirements. Wetland receives runoff from pine plantation.							
.500(7)(c)Comm 1. Vegetati 2. Benthic C w/o pres or current 7	on and/or	All or nearly all plant cover i	s appropriate and desirable. (de little to no vegetative cove		gh. Invasive exotic or other		
Score = sum of a (if uplands, di current or w/o pres 0.67		If preservation as mitig Preservation adjustment (0 - 1, 0.1 increments) = Adjusted mitigation de	factor	For impact asse			
		If mitigation		For mitigation ass	sessment areas		
Delta = [wit	h-current]	Time lag (t-factor) (see Risk factor (1 - 3, 0.25	,	RFG = delta/(t-factor	x risk)		
-0.13		increments) =					

Site/Project Name Application Number			Der Assessment Area Name or Number			or Number	
NFRC FGT Corridor	Alignment		W-ECT-N-259_4 (W-RGK-006)			9_4 (W-RGK-006)	
FLUCCs code	Further classifica	ation (optional)		Impac	t or Mitigation Site?	Assessment Area Size	
630, 646	Cypress,	Mixed Scrub-shru	ıb wetland		Impact		
Basin/Watershed Name/Number Chicken Branch HUC031200010503	Affected Waterbody (Clas	ss)	Special Classification	on (i.e.C	DFW, AP, other local/state/federa	I designation of importance)	
Geographic relationship to and hyd	Irologic connection with	wetlands, other s	urface water, uplar	nds			
Wetland appears to drain south		is connected to a surrounds this we	-	nplex.	Upland forest dominat	ed by Long Leaf Pine	
Assessment area description							
The assessment area is character culvert under the access road and wetland which enters the s	is connected by a ditch	through the main	tained easement. S	Severa	al piles of excess sedim	nent are placed near the	
Significant nearby features			Uniqueness (collandscape.)	nsider	ing the relative rarity in	relation to the regional	
Eagle Lake		Not unique.					
Functions			Mitigation for prev	vious _l	permit/other historic use	e	
BIOLOGICAL: Vertical heterogeneity (3-4 strata); wadir medium-large mammal habitat (cover, food,							
PHYSICAL/CHEMICAL: Water quality treatment; sec reter	diment/erosion control; recharge/dischantion/detention.	arge; detrital export; flood	NA				
Anticipated Wildlife Utilization Base that are representative of the asse be found)		•	· ·	T, SS	y Listed Species (List s C), type of use, and inte		
Black bear, bobcat, deer, gray squirrel, otter, rac barred owl, pileated woodpecker, turkey, wood turtle, limpkin, Carolina wren, five-lined skink, b snake, cottonmouth, red-shouldered hawk, rul warbler, hairy woodpecker, ye	duck, chickadee, titmouse, yellow oox turtle, ring neck snake, gray ra	r-billed cuckoo, chicken ate snake, eastern king hrush, yellow-throated	Florida black bear (T, foraging, incidental), Florida panther (FE, hunting, incidental), bald eagle (T, foraging, nesting, long-term), American alligator (SSC, habitat, long-term), limpkin (SSC, foraging, frequent), wood stork (FE, roosting, foraging, long-term), tricolored heron (SSC, foraging, nesting, seasonal), snowy egret (SSC, foraging, nesting, seasonal), little blue heron (SSC, foraging, nesting, seasonal), and eastern indigo snake (FE, hunting, incidental).				
Observed Evidence of Wildlife Utili	zation (List species dire	ectly observed, or	other signs such a	s trac	ks, droppings, casings,	nests, etc.):	
fish	n sp., bullfrogs, red belli	ed woodpecker, tu	ırkey vulture, deer	tracks	s, toad tadpoles		
Additional relevant factors:							
NA							
Assessment conducted by:			Assessment date	(s):			
RK, RM			5/16/2019				

Site/Project Name		Application Number	Asse	essment Area i	Name or Number	Ĩ
NFRC FGT Corri	dor Alignment			W-ECT-N-259_4 (W-RGK-006)		
Impact or Mitigation		Assessment conducted by:	Asse	essment date:		,
Impa	ct	RK, RM		5/	/16/2019	
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 Minimal level of support of wetland/surface water provide				fficient to /surface ons
.500(6)(a) Location and Landscape Support w/o pres or current with 7	extends into the maintained across the access road an moderate benefits for most	ystem is located within and ext d easement and is connected o nd by a culvert under the acces wildlife species. Discharges fr enefits to downstream habitats bisecting the wetland. No inv	on both the north/s s road that drains om this wetland a s. Wildlife access	south portions s through a dito re not limited b is partially limi	of the wetland a ch. The system p by flow impedime	s it flows provides ents, and
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 7	patterns are somewhat alter appear appropriate to support quality degradation based of tertiary treated spray field	ors present (presence of surfaced due to the access road dare ort obligate wetland species and on the suite of specie present, is north of the wetland are a point pollution retention is expected habi	ming the flow and ad the development however, stormworkential source of the ded from the wetland	channelizing i nt of mucky so ater runoff fror untreated runo	it through a culve oils. No indication on the City of Tall off inputs to the s	ert. Flows of water ahassee system.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 7	marsh has formed that is m a cypress swamp. No inva heterogeneity supporting	nopy (Cypress and Titi) and su nainly dominated by herbaceou isive flora present. Topographi g a diversity of species through ere observed within the wetland amphibians we	s vegetation. Age c features are nea nout. Conversion t d, several species	e and size distr ar optimal with to herbaceous	ribution is near no the presence of will remove stru	ormal for vertical ctural
Score = sum of above scores/30 (in uplands, divide by 20) current or w/o pres with 0.7 0.57	Preservation adjustme Adjusted mitigation de	ent factor =		mpact assessn 3 x 1.139 = 0.14		
	If mitigation		For mit	tigation assess	sment areas	l
Delta = [with-current]	Time lag (t-factor) =					l
-0.13	Risk factor =		KrG = del	lta/(t-factor x ri =	19K)	

Site/Project Name Application N			ber Assessment Area Name or Number			or Number
NFRC FGT Corridor	Alignment	, application realise				_3 (W-RGK-004)
FLUCCs code	Further classifica	ition (optional)		Impac	t or Mitigation Site?	Assessment Area Size
630	We	etland Forested M	ixed		Impact	
Basin/Watershed Name/Number Chicken Branch HUC031200010503	Affected Waterbody (Clas	es)	Special Classification	on (i.e.C	PFW, AP, other local/state/federal	designation of importance)
Geographic relationship to and hyd	Irologic connection with	wetlands, other s	urface water, upla	nds		
Wetland appears to drain so	outh to large wetland cor	mplex. Upland for	est dominated by l	ong L	eaf Pine surrounds this	s wetland feature.
Assessment area description The assessment area is character maintained easement connecting wetland system. Additionally, the under the	the wetland. Several pile	es of excess sedi	ment are placed no el for the northern p ajority of the water	ear the portion flows	e wetland which enable of the wetland. Two co over the access road.	s sediment to enter the ulverts were identified
Significant nearby features			Uniqueness (co landscape.)	nsider	ing the relative rarity in	relation to the regional
Eagle Lak		Not unique.				
Functions BIOLOGICAL: Vertical heterogeneity (3-4 strata) habitat; small-medium-large mammal habitat (c		-	Mitigation for pre	vious ∤	permit/other historic use	9
PHYSICAL/CHEMICAL: Water quality treatme	9	arge/discharge: detrital			NA	
	d retention/detention ed on Literature Review	(List of species	•	T, SS	y Listed Species (List s C), type of use, and inte	
Black bear, bobcat, deer, gray squirrel, otter, ran barred owl, pileated woodpecker, turkey, wood turtle, limpkin, Carolina wren, five-lined skink, to snake, cottonmouth, red-shouldered hawk, ru warbler, hairy woodpecker, ye	duck, chickadee, titmouse, yellow- oox turtle, ring neck snake, gray ra	-billed cuckoo, chicken te snake, eastern king hrush, yellow-throated	foraging, nesting, long- frequent), wood stork (f seasonal), snowy egret (term), An E, roost SSC, for	nerican alligator (SSC, habitat, lo ing, foraging, long-term), tricolore	nunting, incidental), bald eagle (T, ng-term), limpkin (SSC, foraging, d heron (SSC, foraging, nesting, ue heron (SSC, foraging, nesting, ng, incidental).
Observed Evidence of Wildlife Util	zation (List species dire	ctly observed, or	other signs such a	s tracl	ks, droppings, casings,	nests, etc.):
fisł	n sp., bullfrogs, red bellie	ed woodpecker, tu	ırkey vulture, deer	tracks	s, toad tadpoles	
Additional relevant factors:						
NA						
Assessment conducted by:			Assessment date	(s):		
RK, RM			5/16/2019			

Site/Projec	ct Name			Application Number		Assessment Area	Assessment Area Name or Number	
_	NFRC I	GT Corrid	lor Alignment			W-ECT-N-261_3 (W-RGK-004)		
Impact or	Mitigation			Assessment conducted by:		Assessment date	Assessment date:	
		Impac	et	RK, RM			5/16/2019	
0	0	_	0(1	M = d = 4 = (?)	541		Not Door out	(0)
	ng Guidance oring of each		Optimal (10)	Moderate(7) Condition is less than	Mii	nimal (4)	Not Present	(0)
	s based on wh	nat	Condition is optimal and fully	optimal, but sufficient to	Minimal le	vel of support of	Condition is insuf	ficient to
would be	suitable for th	e	supports wetland/surface	maintain most		/surface water	provide wetland	/surface
	etland or surfa	ce	water functions	wetland/surface water	fu	ınctions	water functi	ons
wate	r assessed			functions				
Lai w/o pres or current	(6)(a) Locatior ndscape Supp	with	had standing water across the benefits for most wildlife s	stem is located within and extence cleared easement which flooperies. Discharges from this woodownstream habitats. Wildlift the wetland. No invasive	ws over the wetland are e access is	access road. The not limited by flow partially limited by	system provides n impediments, and	noderate likely
6		6						
Distinct hydrologic indicators present (presence of surface water, high water table, stained leaves). Natural fix patterns are somewhat altered due to the access road damming the flow through the assessment area and the undersized culverts under the access road. Flows appear appropriate to support obligate wetland species and development of mucky soils. No indication of water quality degradation based on the suite of specie present however, stormwater runoff from the City of Tallahassee tertiary treated spray fields north of the wetland are potential source of untreated runoff inputs to the system. Less water absorption and pollution retention is expectation from the wetland system if it changes to a herbaceous dominated habitat.						nd the and the sent, are a		
.500(6)(c)Community	structure						
	Vegetation and enthic Commo		has formed that is mainly cypress swamp. No invasi heterogeneity supporting a d	(Cypress and Titi) and sub-ca dominated by herbaceous veo ve flora present. Topographic iversity of species throughout. n. Aquatic species were obser aquatic larval stages of am	getation. Aggetation. Aggetatures are features are Conversion ved within the	e and size distribu e near optimal with n to herbaceous w ne wetland, severa	tion is near normanthe the presence of vill remove structura	l for a ertical al habitat
5		3						
_			1					
	um of above sco ands, divide by	`	If preservation as mitiga			For impact assess	sment areas	
current		·	Preservation adjustmer	t factor =	FL	= 0.07 x 0.362 = 0	0.025	
or w/o pres	} 	with	Adjusted mitigation delt	a = 0				
0.6		0.53			<u> </u>			
			If mitigation		—		<u> </u>	
Del	ta = [with-curr	ent]	Time lag (t-factor) =		F	or mitigation asse	ssment areas	
	-0.07	•	Risk factor =		RFG	= delta/(t-factor x =	risk) #DIV/0!	
-0.07 Risk factor = = "= "= "= "= "= "= "= "= "= "= "= "=								

Site/Project Name		Application Numbe	ər	1	Assessment Area Name o	or Number
Gulf NFRC Phas	se 3					DL-272B
FLUCCs code	Further classifica	ation (optional)		Impact	or Mitigation Site?	Assessment Area Size
621				Е	Existing Condition	
Basin/Watershed Name/Number	Affected Waterbody (Clas	.ss)	Special Classification	ion (i.e.Of	FW, AP, other local/state/federa	al designation of importance)
Ochlockonee River						
Geographic relationship to and hyd	drologic connection with	h wetlands, other	surface water, upl	lands		
Surrounded by upland forests (App downstream.	oalachicola National Fo	rest)/silviculture, o	connects directly to	o other	wetland systems upst	tream and
Assessment area description						
This is a cypress slough dominated	d by bald cypress.					
Significant nearby features			Uniqueness (co regional landscap		ing the relative rarity in	relation to the
Silvicultural operations, electrial power lines					n relation to regional la	andscape
Functions			Mitigation for pre	vious p	permit/other historic use	е
Wildlife habitat, wat	ter treatment and storaç	ge			N/A	
Anticipated Wildlife Utilization Base that are representative of the asset 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)			
Wading bire	rds, herpetofauna			i), little b	se by wading birds such blue heron (SSC), snow tricolor heron (SSC).	
Observed Evidence of Wildlife Utili	ization (List species dire	ectly observed, or	other signs such	as trac	ks, droppings, casings	s, nests, etc.):
Additional relevant factors:						
Assessment conducted by:			Assessment date	e(s):		
M. Harrington/M. Goff			4/16/2019			

Site/Project Name		Application Number		Assessment Are	ea Name or Number	
		Application Number		Assessificit Ale		
Gulf NFRC	Phase 3				W-GOL-272B	
Impact or Mitigation		Assessment conducted by:		Assessment date	e:	
Impact (Cl	learing)	M. Harrington			4/16/2019	
Scoring Guidance	Optimal (10)	Moderate(7)	Mir	nimal (4)	Not Present	(0)
The scoring of each	Condition is optimal and	Condition is less than		vel of support of		` '
indicator is based on what would be suitable	fully supports wetland/surface water	optimal, but sufficient to maintain most		surface water	Condition is insuffice provide wetland/surfa	
for the type of wetland or surface water assessed	functions	wetland/surface waterfunctions	fu	nctions	functions	
surface water assessed		wateridictions				
.500(6)(a) Location and Landscape Support w/o pres or current with 8	landscape support variable herbaceous community. Ind (reduced by proximity of silv from outside = 7 (reduced to barriers = 7; e) Impacts to w	sociated with clearing the trans for wetland forests through lo lividual parameter scores: a) viculture); b) Invasive exotic s to proximity of silviculture); d) to vildlife listed in Part 1 by outsi sment area = 9 (connects dire is are highly dependent).	ss of contigues of contigues of continuity o	uous forested par wildlife listed in Pa (very low covera at benefit fish & w s = 7 (silviculture	rcels and conversion t art 1 by outside habita ge); c) Wildlife access vildlife downstream-dis); f) Hydrologically cor	ats = 7 s to and stance or nnected
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 8	freshwater marsh, although water levels and flows = 8 (c) c) soil moisture = 8 (consist landuses); e) evidence of fir with expected); g) hydrologi specific hydrological require with water quality degradation	nporarily impact the water envisit fencing will reduce tempo appropriate for time of year; beent with expected); d) soil endie history = 10 (area is fire materials of the second of the	rary turbidity) water leve esion or deporanaged); f) v ensistent with expected); i) v et observatio	r impacts. Individ I indicators = 8 (hosition = 6 (some egetation commun expected); h) uregetative specie on of water quality	dual parameter scores nydroperiod appears not existing erosion adja- unity zonation = 8 (cor se by animal species as tolerant of and asso y = 8 (water appears of description of seconds seconds and seconds y = 8 (water appears of seconds)	a: a) cormal); cent nsistent with ciated
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 7	Clearing of canopy will conv compared to existing foreste shrub, or ground stratum = species = 8 (very little nuisa somewhat lacking); d) age 8 debris, snag, den, and cavit management practices = 6	vert the system to a freshwate ed system. Individual parame 7 (generally consistent with example as the species); c) regeneration & size distribution = 7 (typical by = 7 (consistent with expecte (silvicultural practices and acquatic plant communities = 7	eter scores: expected); b) and recruite of forested ved); f) plant occess roads),	a) plant commun invasive exotics ment = 7 (recruitr wetland); e) dens condition = 7 (cor	ity species in the cand s or other invasive plar ment of canopy specie sity and quality of coar nsistent with expected	opy, nt es se woody l); g) land
Score = sum of above scores/30 (if	f If preservation as miti	gation.		For impact asse	essment areas	
uplands, divide by 20)	Preservation adjustme			FL = delta		
or w/o pres with	Adjusted mitigation de	elta =		FL = 0.17 x 0	.003 = 0.001	
0.77						
	If mitigation			For mitigation as:	sessment areas	
Delta = [with-current]	Time lag (t-factor) =		<u> </u>			
-0.17	Risk factor =		RFG	= delta/(t-factor x	(risk) =	

Site/Project Name			Application Numbe	er		Assessment Area Name	or Number
Gulf NFRC Pha	se 3					W-GC	DL-271
FLUCCs code		Further classifica	tion (optional)		Impac	t or Mitigation Site?	Assessment Area Size
641					I	Existing Condition	
Basin/Watershed Name/Number	Affecte	ed Waterbody (Clas	ss)	Special Classificati	on (i.e.0	DFW, AP, other local/state/federa	al designation of importance)
Ochlockonee River							
Geographic relationship to and hyd	drologi	c connection with	wetlands, other	surface water, upl	ands		
Smaller isloated and outer edges o	of mixe	ed forested wetlar	nds that are isolat	ed and receive su	ırface	water runoff from adjac	cent silviculture lands.
Assessment area description The canopy stratum in the outer ecsweetgum, slash pine (recruited), athe edges. The subcanopy stratum fetterbush, highbush blueberry, wachain fern, flatsedge, greenbrier, d(Eleocharis sp.), among others.	and da n comp ax myrtl	thoon (llex cassinorises red maple, site, and saw palmo	e), with occurrence slash pine, lobloll etto. The groundo	ces of loblolly bay y bay, and wax m cover comprises o ern, blackberry, ma	(Gord yrtle. ⁻ If a va aidend	lonia lasianthus) and pl The shrub stratum compriety of species includin cane, fetterbush, grape	anted slash pine along prises slash pine, g wax myrtle, Virginia vine, and spikerush
Significant nearby features				Uniqueness (co regional landsca		ring the relative rarity in	relation to the
Silvicultural operations, roadways				Not rare in relation to regional landscape			
Functions				Mitigation for pre	vious	permit/other historic us	е
Wildlife habitat, wat	ter trea	atment and storag	ge			N/A	
Anticipated Wildlife Utilization Bas that are representative of the asse to be found)					T, SS	by Listed Species (List s C), type of use, and inte	
Wading bir	ds, her	rpetofauna				use by wading birds such blue heron (SSC), sno tricolor heron (SSC).	
Observed Evidence of Wildlife Util	ization	(List species dire	ectly observed, or	other signs such	as tra	cks, droppings, casings	s, nests, etc.):
Additional relevant factors:							
Assessment conducted by:				Assessment date	e(s):		
M Harrington/M Goff				4/16/2019	. ,		

[O'' /D :]		TA P P AL I		
Site/Project Name		Application Number	Assessment Are	ea Name or Number
Gulf NFRC F	Phase 3			W-GOL-271
Impact or Mitigation		Assessment conducted by:	Assessment da	te:
Impact (Cle	earing)	M. Harrington		4/16/2019
Coordinate Outliness	0 (1 1/40)		- 1/A)	N 1 D 1 (0)
Scoring Guidance The scoring of each	Optimal (10)	Moderate(7) Condition is less than	Minimal (4)	Not Present (0)
indicator is based on	Condition is optimal and fully supports	optimal, but sufficient to	Minimal level of support of	
what would be suitable for the type of wetland or	wetland/surface water	maintain most wetland/surface	wetland/surface water functions	provide wetland/surface water functions
surface water assessed	functions	waterfunctions	Turicuoris	idilotions
.500(6)(a) Location and Landscape Support w/o pres or current with 8	landscape support variable herbaceous community. Ind b) Invasive exotic species = downstream-distance or bar	8; c) Wildlife access to and triers = 7; e) Impacts to wildlifm of assessment area = 8; g	ss of contiguous forested pa Support to wildlife listed in F from outside = 7; d) functions e listed in Part 1 by outside	arcels and conversion to Part 1 by outside habitats = 6;
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 8	freshwater marsh, although water levels and flows = 7; I moisture = 7, consistent wit existing erosion from roadw 5, removal of canopy, convemaintenance; h) use by animand associated with water queering coupled with existing the sisting the statement of the sta	n expected; d) soil erosion or ay, adjacent landuses; e) evicersion to herbaceous; g) hydronal species with specific hydrouality degradation = 7; j) direction	rary turbidity impacts. Indivilered hydroperiod due to to deposition = 5, erosion duridence of fire history = 6; f) vologic stress on vegetation = ological requirements = 8; i) of observation of water qualiderecreational activities. K) e	dual parameter scores: a) silvicultural practices; c) soil ng clearing, coupled with egetation community zonation =
.500(6)(c)Community structure	Clearing of canopy will conv	ert the system to a freshwate	r marsh community with sig	nificant loss of functional value
Vegetation and/or Benthic Community	shrub, or ground stratum = c c) regeneration and recruitn distribution = 4, atypical of f	nent = 3, removal of canopy, orested wetland; e) density a	er invasive plant species = 7 recruitment affected by mair nd quality of coarse woody d	7, very little nuisance species;
w/o pres or	features = 7, ; i) siltation or	algal growth in submerged aq	uatic plant communities = 8	very minor.
current with				
8 8				
Score = sum of above scores/30 (if	If preservation as mitig	gation.	For impact ass	essment areas
uplands, divide by 20)	Preservation adjustme	•		x acres =
current				
or w/o pres with	Adjusted mitigation de	elta =		
0.80 0.8				
	If mitigation			
Delta = [with-current]	Time lag (t-factor) =		For mitigation as	ssessment areas
			RFG = delta/(t-factor	x risk) =
0.00	Risk factor =		.,	′

Site/Project Name		Application Numbe	ər	1	Assessment Area Name o	or Number
Gulf NFRC Phas	se 3					DL-272B
FLUCCs code	Further classifica	ation (optional)		Impact	or Mitigation Site?	Assessment Area Size
621				Е	Existing Condition	
Basin/Watershed Name/Number	Affected Waterbody (Clas	.ss)	Special Classification	ion (i.e.Of	FW, AP, other local/state/federa	al designation of importance)
Ochlockonee River						
Geographic relationship to and hyd	drologic connection with	h wetlands, other	surface water, upl	lands		
Surrounded by upland forests (App downstream.	oalachicola National Fo	rest)/silviculture, o	connects directly to	o other	wetland systems upst	tream and
Assessment area description						
This is a cypress slough dominated	d by bald cypress.					
Significant nearby features			Uniqueness (co regional landscap		ing the relative rarity in	relation to the
Silvicultural operations, electrial power lines					n relation to regional la	andscape
Functions			Mitigation for pre	vious p	permit/other historic use	е
Wildlife habitat, wat	ter treatment and storaç	ge			N/A	
Anticipated Wildlife Utilization Base that are representative of the asset 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)			
Wading bire	rds, herpetofauna			i), little b	se by wading birds such blue heron (SSC), snow tricolor heron (SSC).	
Observed Evidence of Wildlife Utili	ization (List species dire	ectly observed, or	other signs such	as trac	ks, droppings, casings	s, nests, etc.):
Additional relevant factors:						
Assessment conducted by:			Assessment date	e(s):		
M. Harrington/M. Goff			4/16/2019			

Site/Project Name		Application Number	1.	Assessment Are	a Name or Number	
	Dhana 2	11				
Gulf NFRC F	-nase 3				W-GOL-272B	
Impact or Mitigation		Assessment conducted by:		Assessment date		
Impact (Cle	earing)	M. Harrington			4/16/2019	
Scoring Guidance	Optimal (10)	Moderate(7)	Min	nimal (4)	Not Present	(0)
The scoring of each	Condition is optimal and	Condition is less than				
indicator is based on what would be suitable	fully supports	optimal, but sufficient to maintain most		vel of support of surface water	Condition is insuffice provide wetland/surfa	
for the type of wetland or	wetland/surface water functions	wetland/surface		nctions	functions	ioc water
surface water assessed	Turions	waterfunctions				
.500(6)(a) Location and Landscape Support w/o pres or current with 8 7	landscape support variable herbaceous community. Ind (reduced by proximity of silv from outside = 7 (reduced to barriers = 7; e) Impacts to w	ociated with clearing the trans for wetland forests through lo ividual parameter scores: a) riculture); b) Invasive exotic s o proximity of silviculture); d) to idlife listed in Part 1 by outsisment area = 9 (connects dire is are highly dependent).	ss of contigues of contigues of continuities of contigues of contigues of continuities of continuities of continuities of contigues of contig	uous forested par vildlife listed in Pa (very low covera at benefit fish & w s = 7 (silviculture)	rcels and conversion t art 1 by outside habita ge); c) Wildlife access vildlife downstream-dis); f) Hydrologically cor	its = 7 to and stance or inected
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 8	freshwater marsh, although water levels and flows = 8 (a c) soil moisture = 8 (consiste landuses); e) evidence of fir with expected); g) hydrologic specific hydrological require with water quality degradation	approarily impact the water envisit fencing will reduce tempo appropriate for time of year; beent with expected); d) soil erose history = 10 (area is fire mate stress on vegetation = 8 (comments = 8 (consistent with expense 18 (few observed); j) direct N/A; I) water depth wave, water	rary turbidity) water level ssion or depo anaged); f) vo onsistent with apected); i) v ot observatio	r impacts. Individual indicators = 8 (hosition = 6 (some egetation communexpected); h) usegetative species of water quality	dual parameter scores hydroperiod appears n existing erosion adjac unity zonation = 8 (cor se by animal species s tolerant of and asso y = 8 (water appears c	: a) ormal); cent sistent with ciated
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 7 3	compared to existing foreste shrub, or ground stratum = 7 species = 8 (very little nuisa somewhat lacking); d) age 8 debris, snag, den, and cavit management practices = 6 (rert the system to a freshwate ed system. Individual parame 7 (generally consistent with exince species); c) regeneration & size distribution = 7 (typical y = 7 (consistent with expecte (silvicultural practices and acquatic plant communities = 7	eter scores: a xpected); b) a and recruitr of forested v ed); f) plant o cess roads),	a) plant communi invasive exotics ment = 7 (recruitr vetland); e) dens condition = 7 (cor	ity species in the canc or other invasive plar ment of canopy specie ity and quality of coars asistent with expected	ppy, nt es se woody); g) land
Score = sum of above scores/30 (if	If preservation as mitig	gation,		For impact asse	essment areas	
uplands, divide by 20)	Preservation adjustme			FL = delta		
or w/o pres with	Adjusted mitigation de	elta =	F	FL = 0.17 x 0.003	s = 0.001	
	J					
	If mitigation		F	or mitigation ass	sessment areas	
Delta = [with-current]	Time lag (t-factor) =		<u> </u>			
-0.17	Risk factor =		RFG :	= delta/(t-factor x	risk) =	

Site/Project Name		Application Number	er		Assessment Area Name	or Number
Gulf NFRC Pha	se 3				W-GC	DL-276B
FLUCCs code	Further classifica	ation (optional)		Impac	t or Mitigation Site?	Assessment Area Size
641				E	Existing Condition	
Basin/Watershed Name/Number	Affected Waterbody (Clas	ss)	Special Classificati	on (i.e.C	DFW, AP, other local/state/federa	al designation of importance)
Ochlockonee River						
Geographic relationship to and hyd	drologic connection with	n wetlands, other	surface water, upl	ands		
Smaller isloated and outer edges o	of mixed forested wetlan	nds that are isolat	ed and receive su	ırface	water runoff from adjac	ent silviculture lands.
Assessment area description The canopy stratum in the outer ed sweetgum, slash pine (recruited), at the edges. The subcanopy stratum fetterbush, highbush blueberry, wachain fern, flatsedge, greenbrier, d(Eleocharis sp.), among others.	and dahoon (Ilex cassir n comprises red maple, ax myrtle, and saw palm	ne), with occurrent slash pine, lobloll netto. The groundd	ces of loblolly bay ly bay, and wax m cover comprises o ern, blackberry, ma	(Gord yrtle. T of a var aidenc	onia lasianthus) and pl The shrub stratum compriety of species includin cane, fetterbush, grape	anted slash pine along prises slash pine, g wax myrtle, Virginia vine, and spikerush
Significant nearby features			Uniqueness (co regional landsca		ing the relative rarity in	relation to the
Silvicultural operations, roadways			Not rare in relation to regional landscape			
Functions			Mitigation for pre	vious	permit/other historic us	e
Wildlife habitat, wa	ter treatment and stora	ge			N/A	
Anticipated Wildlife Utilization Bas that are representative of the asse to be found)				T, SS	by Listed Species (List s C), type of use, and inte	
Wading bir	ds, herpetofauna		Possible occasi wood stork (E	onal u), little	se by wading birds suc blue heron (SSC), sno tricolor heron (SSC).	ch as white ibis (SSC), wy egret (SSC), and
Observed Evidence of Wildlife Util	ization (List species dire	ectly observed, or	other signs such	as tra	cks, droppings, casings	s, nests, etc.):
Additional relevant factors:						
Assessment conducted by:			Assessment date	e(s):		
M Harrington/M Goff			4/16/2019			

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Ú&[¦ā]* ÄÖ` ããæ) &^	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
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Site/Project Name		Application Number	er		Assessment Area Name	or Number
Gulf NFRC Pha	se 3				W-GC	DL-276D
FLUCCs code	Further classifica	ation (optional)		Impac	t or Mitigation Site?	Assessment Area Size
641				ŀ	Existing Condition	
Basin/Watershed Name/Number	Affected Waterbody (Class	ss)	Special Classificati	on (i.e.C	DFW, AP, other local/state/federa	al designation of importance)
Ochlockonee River						
Geographic relationship to and hyd	drologic connection with	n wetlands, other	surface water, upl	ands		
Smaller isloated and outer edges o	of mixed forested wetlan	nds that are isolat	ted and receive su	ırface	water runoff from adjac	ent silviculture lands.
Assessment area description The canopy stratum in the outer ed sweetgum, slash pine (recruited), at the edges. The subcanopy stratum fetterbush, highbush blueberry, wachain fern, flatsedge, greenbrier, d(Eleocharis sp.), among others.	and dahoon (Ilex cassir n comprises red maple, ax myrtle, and saw palm	ne), with occurrent slash pine, lobloll netto. The ground	ces of loblolly bay ly bay, and wax m cover comprises o ern, blackberry, m	(Gord yrtle. T of a var aidence	lonia lasianthus) and pl The shrub stratum com riety of species includin cane, fetterbush, grape	anted slash pine along prises slash pine, g wax myrtle, Virginia vine, and spikerush
Significant nearby features			Uniqueness (co regional landsca		ring the relative rarity in	relation to the
Silvicultural operations, roadways			Not rare in relation to regional landscape			
Functions			Mitigation for pre	vious	permit/other historic us	e
Wildlife habitat, wa	ter treatment and storag	ge			N/A	
Anticipated Wildlife Utilization Bas that are representative of the asse to be found)				T, SS	by Listed Species (List : C), type of use, and inte	
Wading bir	ds, herpetofauna				se by wading birds such blue heron (SSC), sno tricolor heron (SSC).	
Observed Evidence of Wildlife Util	ization (List species dire	ectly observed, or	other signs such	as tra	cks, droppings, casings	s, nests, etc.):
Additional relevant factors:						
Assessment conducted by:			Assessment date	e(s):		
M. Harrington/M. Goff			4/16/2019	. ,		

Site/Project Name		Application Number	Assessment Are	ea Name or Number	
Gulf NFRC	Phase 3			W-GOL-276D	
Impact or Mitigation		Assessment conducted by:	Minimal (4) Minimal (4) Minimal level of support of wetland/surface water functions Insmission line ROW would reduce the functions of contiguous forested part of the functions of the functions of the functions of the functions of the function of the f	te:	
Impact (Cle	earing)	M. Harrington		4/16/2019	
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		cient to
.500(6)(a) Location and Landscape Support w/o pres or current with 7	landscape support variable herbaceous community. Ind b) Invasive exotic species = downstream-distance or bar	for wetland forests through lo lividual parameter scores: a) 8; c) Wildlife access to and triers = 7; e) Impacts to wildlif m of assessment area = 8; g	ss of contiguous forested pa Support to wildlife listed in F from outside = 7; d) functions te listed in Part 1 by outside	arcels and conversion to Part 1 by outside habita is that benefit fish & wild and uses = 6; f) Hydro	its = 6; dlife logically
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 8	freshwater marsh, although water levels and flows = 7; t moisture = 7, consistent witl existing erosion from roadw 5, removal of canopy, convemaintenance; h) use by anir and associated with water q clearing coupled with existir	silt fencing will reduce tempo b) water level indicators = 7, a h expected; d) soil erosion or ay, adjacent landuses; e) evicersion to herbaceous; g) hydr mal species with specific hydr quality degradation = 7; j) directions	prary turbidity impacts. Individence hydroperiod due to to deposition = 5, erosion during dence of fire history = 6; f) voologic stress on vegetation = rological requirements = 8; i) ct observation of water quality recreational activities. K) expressions of the control of the	dual parameter scores silvicultural practices; ag clearing, coupled wiegetation community zero, canopy removal, rovegetative species tol ty = 6, temporary impa	c) soil th onation = outine erant of ct during
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 7	compared to existing foreste shrub, or ground stratum = c) regeneration and recruitn distribution = 4, atypical of f 4; f) plant condition = 4, ; g)	ed system. Individual parameta,; b) invasive exotics or othernent = 3, removal of canopy, orested wetland; e) density all land management practices	eter scores: a) plant communer invasive plant species = 7 recruitment affected by main nd quality of coarse woody defected invalues are silvicultural practices are	nity species in the cance, very little nuisance s tenance; d) age & size ebris, snag, den, and of access roads, h) top	ppy, pecies; e cavity =
Score = sum of above scores/30 (if uplands, divide by 20) current br w/o pres with 0.73	If preservation as mitigation and preservation adjustments adjusted mitigation defined as mitigation as	ent factor =	FL = delta	x acres =	
	If mitigation				
Delta = [with-current]	Time lag (t-factor) =		For mitigation as	sessment areas	
0.13	Risk factor =		RFG = delta/(t-factor	x risk) =	

Site/Project Name		Application Number	ar .		Assessment Area Name	or Number
Gulf NFRC Pha	se 3	Application Number)L-277A
FLUCCs code	Further classifica	ation (optional)		Impact	or Mitigation Site?	Assessment Area Size
630				E	Existing Condition	
Basin/Watershed Name/Number	Affected Waterbody (Clas	ss)	Special Classificati	on (i.e.C	PFW, AP, other local/state/federa	al designation of importance)
Ochlockonee River						
Geographic relationship to and hyd		n wetlands, other	surface water, upl	ands		
Surrounded by upland forests (App downstream.	palachicola National Fo	rest)/silviculture,	connects directly t	o othe	r wetland systems upst	ream and
Assessment area description						
This is a cypress slough dominated	d by bald cypress.					
Significant nearby features			Uniqueness (co regional landsca		ing the relative rarity in	relation to the
Silvicultural operati	ons, electrial power line	es	No	t rare i	n relation to regional la	andscape
Functions			Mitigation for pre	vious p	permit/other historic us	e
Wildlife habitat, wa	ter treatment and storaç	ge			N/A	
Anticipated Wildlife Utilization Bas that are representative of the asse to be found)				T, SS	y Listed Species (List s C), type of use, and inte	
Wading bir	ds, herpetofauna				se by wading birds suc blue heron (SSC), sno tricolor heron (SSC).	
Observed Evidence of Wildlife Util	ization (List species dire	ectly observed, or	other signs such	as trad	cks, droppings, casings	s, nests, etc.):
Additional relevant factors:						
Assessment conducted by:			Assessment date	e(s):		
M. Harrington/M. Goff			4/16/2019			

Site/Project Name			Application Number		Assessment Are	a Name or Number	
	IK NIEDO 1	2haaa 2	- FERRAL CONTROL				
Gu	ulf NFRC F	rnase 3				W-GOL-277A	
Impact or Mitigation			Assessment conducted by:		Assessment date	e:	
lı	mpact (Cle	earing)	M. Harrington			4/16/2019	
Scoring Guidance		Optimal (10)	Moderate(7)	Mi	nimal (4)	Not Present (0)	`
The scoring of each		Condition is optimal and	Condition is less than			,	
indicator is based on what would be suitable		fully supports	optimal, but sufficient to maintain most		vel of support of /surface water	Condition is insufficie provide wetland/surface	
for the type of wetland		wetland/surface water functions	wetland/surface		inctions	functions	o water
surface water assesse	d	Turicuoris	waterfunctions				
.500(6)(a) Locatior Landscape Supp w/o pres or current 8		landscape support variable herbaceous community. Ind (reduced by proximity of silv from outside = 7 (reduced to barriers = 7; e) Impacts to w	ociated with clearing the trans for wetland forests through lo lividual parameter scores: a) viculture); b) Invasive exotic s o proximity of silviculture); d) to vildlife listed in Part 1 by outsi- sment area = 9 (connects dire is are highly dependent).	ss of contig Support to pecies = 10 functions that de land use	uous forested par wildlife listed in Pa (very low covera at benefit fish & w s = 7 (silviculture	cels and conversion to art 1 by outside habitats ge); c) Wildlife access to rildlife downstream-dista); f) Hydrologically conno	o and ince or ected
Clearing the canopy will temporarily impact the water environment variable, converting forested system to a freshwater marsh, although silt fencing will reduce temporary turbidity impacts. Individual parameter scores: a) water levels and flows = 8 (appropriate for time of year; b) water level indicators = 8 (hydroperiod appears normal c) soil moisture = 8 (consistent with expected); d) soil erosion or deposition = 6 (some existing erosion adjacent landuses); e) evidence of fire history = 10 (area is fire managed); f) vegetation community zonation = 8 (consistent with expected); h) use by animal species with expected); g) hydrological requirements = 8 (consistent with expected); i) vegetative species tolerant of and associate with water quality degradation = 8 (few observed); j) direct observation of water quality = 8 (water appears clean; existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.						mal); ent stent th ated	
.500(6)(c)Community 1. Vegetation and 2. Benthic Community w/o pres or current	d/or	compared to existing foreste shrub, or ground stratum = 7 species = 8 (very little nuisa somewhat lacking); d) age 8 debris, snag, den, and cavit management practices = 6 (rert the system to a freshwate ed system. Individual parame 7 (generally consistent with exince species); c) regeneration & size distribution = 7 (typical by = 7 (consistent with expected (silvicultural practices and acquatic plant communities = 7	eter scores: expected); b and recruit of forested ed); f) plant cess roads)	a) plant communi) invasive exotics ment = 7 (recruitr wetland); e) dens condition = 7 (cor	ity species in the canopy or other invasive plant ment of canopy species ity and quality of coarse asistent with expected);	y, woody g) land
Score = sum of above sco		If preservation as mitig	gation,		For impact asse		
uplands, divide by current	20)	Preservation adjustme	ent factor =		FL = delta	x acres =	
pr w/o pres	with	Adimate desiring the	lto -		FL = 0.2 x 0.06	2 = 0.012	
0.77	0.57	Adjusted mitigation de	शाय = -				
		J					
		If mitigation			For mitigation ass	sessment areas	
Delta = [with-curr	ent]	Time lag (t-factor) =					
-0.2		Risk factor =		RFG	= delta/(t-factor x	risk) =	

Site/Project Name Application Nu			lication Numbe	ber Assessment Area Name or Number			e or Number		
NFRC FGT Corridor	Alignr	nent				W-ECT-N-27	8B (W-TRC-004)		
FLUCCs code		Further classification	(optional)		Impad	ct or Mitigation Site?	Assessment Area Size		
653		Inter	mittent Pond	s	Impact				
Basin/Watershed Name/Number Wakulla Basin	Affect	ed Waterbody (Class)	aterbody (Class) Special Cla			cial Classification (i.e.OFW, AP, other local/state/federal designation of importance)			
Geographic relationship to and hy	drolog	ic connection with wetl	lands, other s	surface water, upl	ands				
This wetland is classified as an emphemeral pond and is located within located near this feature and during peak wet season may connect. Upla									
Assessment area description									
The assessment area mainly Hypericum. Other ephemer			to the North,	all of which are s	urrour	nded by upland Long L			
Significant nearby features				Uniqueness (co landscape.)	nside	ring the relative rarity i	n relation to the regional		
Munson Slough to the West				Not unique to the area.					
Functions				Mitigation for pre	vious	permit/other historic us	se		
BIOLOGICAL: Amphibian breeding; wading bird	l feeding; s	andhill crane feeding; and reptile (sn	nake) feeding						
PHYSICAL/CHEMICAL: Water quality treatment; se retr	ediment/ero ention/dete		etrital export; flood			NA			
Anticipated Wildlife Utilization Bas that are representative of the asso 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)					
Flatwoods salamander, mole salamander oak toad, cricket frog, pinewoods tree fi frog, southern chorus frog, narrow mouth ibis, wood stork, sandhill crane, wa	og, bark n toad, e	ing tree frog, squirrel tree fro astern spade foot toad, gop	og, little grass oher frog, white	foraging, nesting, seasonal), wood stork (FE, foraging, seasonal), baid eagle (1,					
Observed Evidence of Wildlife Ut	ilizatior	(List species directly	observed, or	other signs such	as tra	cks, droppings, casing	s, nests, etc.):		
Red Headed W	oodpe	cker, Fence Swifts, Gr	een Anoles, I	Deer Tracks, Rac	coon [Droppings, Crayfish Bu	ırrows.		
Additional relevant factors:									
Surrounding Oaks were artificially Woodpecker (Dryobates borealis)				bitat for breeding	amphi	bians. Active endange	red Red Cockaded		
Assessment conducted by:				Assessment date	e(s):				
TC,RM				5/8/2019					

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

Site/Project Name		Application Number		Assessment Area Name or Number		
NFRC FGT Corrid	or Alignment	W-ECT-N-278B		N-278B (W-TRC-00	04)	
Impact or Mitigation		Assessment conducted by:	ļ	Assessment date	e:	
Impac	Impact TC,RM				5/8/2019	
Scoring Guidance The scoring of each	Optimal (10)	Moderate(7) Condition is less than	Min	imal (4)	Not Present	(0)
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	optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions Condition is provide we water f			surface
.500(6)(a) Location and Landscape Support w/o pres or current with 7	surrounded by uplands dom breeding habitat for amp extripated and reintroduced the wetland but should not si	is a isolated ephemeral pond ninated by Long Leaf Pines. T shibians, specifically the Stripe I into the area. An existing tran ignificantly impact the feature of trail does intersect the wetlan	This wetland for the Newt (Note the Newt (Note the Newtland Income the Newtland Income	eature is believe ophthalmus pers e corridor is loca ess is not limited	d to serve as an in triatus) which has ited directly to the s by distance or ba	nportant been south of
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 8	feature was dry but still ma	this wetland only has water pr aintained hydrologic indicators s.Community zonations was a effect wate	such as wat appropriate in	er stained leaves	s, dried algal mattii	ng, and
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 7		nerbacious stratum consisting ant conditions were good des obser	pite apparent			
Score = sum of above scores/30 (if	If preservation as mitig	ation,	F	or impact assess	sment areas	
uplands, divide by 20) current or w/o pres with	Preservation adjustme Adjusted mitigation del		FL =	= 0.13 x 0.056 =	0.007	
0.73 0.6						
	If mitigation		F	r mitigation ass-	acomont cross	
Delta = [with-current]	Time lag (t-factor) =			r mitigation asse		
-0.13 Risk factor = RFG = delta/(t-factor x risk) #DIV/0!						

Site/Project Name		Application Number	ber Assessment Area Name or Number				
Gulf NFRC Pha	se 3			W-GO	L-279A		
FLUCCs code	Further classifica	ation (optional)		Impact or Mitigation Site?	Assessment Area Size		
630				Existing Condition			
Basin/Watershed Name/Number	Affected Waterbody (Clas	ss)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)				
Ochlockonee River							
Geographic relationship to and hyd	drologic connection with	n wetlands, other	surface water, upl	ands			
Surrounded by upland forests (App downstream.	palachicola National Fo	rest)/silviculture,	connects directly t	o other wetland systems ups	tream and		
Assessment area description							
The canopy stratum in the Mixed F stratum and ground cover are dom cinnamon fern.			uthern bayberry, h	ighbush blueberry, myrtle-lea	aved holly, and		
Significant nearby features			Uniqueness (co regional landsca	nsidering the relative rarity in pe.)	relation to the		
Silvicultural operations, electrial power lines			Not rare in relation to regional landscape				
Functions			Mitigation for pre	vious permit/other historic us	se		
Wildlife habitat, wa	ter treatment and stora	ge	N/A				
Anticipated Wildlife Utilization Bas that are representative of the asse to be found)				ation by Listed Species (List T, SSC), type of use, and into I)			
Wading bir	rds, herpetofauna		Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC).				
Observed Evidence of Wildlife Util	ization (List species dir	ectly observed, or	other signs such	as tracks, droppings, casings	s, nests, etc.):		
Additional relevant factors:							
Assessment conducted by:			Assessment date	e(s):			
M. Harrington/M. Goff			4/16/2019				

Site/Project Name		Application Number	Assessment Are	Assessment Area Name or Number		
Gulf NFRC I	Phase 3			W-GOL-279A		
Impact or Mitigation		Assessment conducted by:	Assessment dat	sessment date:		
Impact ((Fill)	M. Harrington	4/16/2019			
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 functions				
.500(6)(a) Location and Landscape Support w/o pres or current with 7 0	landscape support variable herbaceous community. Ind (reduced by proximity of silv access to and from outside downstream-distance or bal Hydrologically connected ar	ociated with clearing the tran- for wetland forests through lo lividual parameter scores: a) viculture); b) Invasive exotic s = 6 (reduced to proximity of s rriers = 6; e) Impacts to wildlift leas downstream of assessment area = 8 (downstream	ss of contiguous forested pa Support to wildlife listed in F pecies = 7 (minimal coverage silviculture); d) functions that fe listed in Part 1 by outside lent area = 8 (connects direct	rcels and conversion to Part 1 by outside habitats = 7 le of Lygodium); c) Wildlife benefit fish & wildlife land uses = 7 (silviculture); f) lty); g) Dependency of		
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 8	freshwater marsh, although water levels and flows = 8 (a c) soil moisture = 8 (consist landuses); e) evidence of fir with expected); g) hydrologi specific hydrological require with water quality degradation	will temporarily impact the water environment variable, converting forested system to a although silt fencing will reduce temporary turbidity impacts. Individual parameter scores: ws = 8 (appropriate for time of year; b) water level indicators = 8 (hydroperiod appears nor (consistent with expected); d) soil erosion or deposition = 6 (some existing erosion adjace nee of fire history = 10 (area is fire managed); f) vegetation community zonation = 8 (consydrologic stress on vegetation = 8 (consistent with expected); h) use by animal species will requirements = 8 (consistent with expected); i) vegetative species tolerant of and associated associated as a species of the system of the system of the system of the system and light penetration = N/A. Will convert the system to a freshwater marsh community with significant loss of functional g forested system. Individual parameter scores: a) plant community species in the canop atum = 7 (generally consistent with expected); b) invasive exotics or other invasive plant the nuisance species); c) regeneration and recruitment = 7 (recruitment of canopy species d) age & size distribution = 7 (typical of forested wetland); e) density and quality of coarse and cavity = 7 (consistent with expected); f) plant condition = 7 (consistent with expected); ces = 6 (silvicultural practices and access roads), h) topographic features = 7, ; i) siltation nerged aquatic plant communities = 7 (minor).				
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 7	compared to existing foreste shrub, or ground stratum = species = 8 (very little nuisa somewhat lacking); d) age 8 debris, snag, den, and cavit management practices = 6					
Score = sum of above scores/30 (if uplands, divide by 20) current br w/o pres with	If preservation as miti- Preservation adjustme Adjusted mitigation de	ent factor =	For impact ass FL = delta FL: 0.005 ac.			
0.73 0	If mitigation		For mitigation as	ssessment areas		
Delta = [with-current]	Time lag (t-factor) =		1 of fillingation as	Secondition areas		
-0.73	Risk factor =	RFG = delta/(t-factor x risk) =				

Site/Project Name	Application Number	ber Assessment Area Name or Number						
Oller Toject Name		Application Number	,, , , , , , , , , , , , , , , , , , , ,			or radifiber		
Gulf NFRC Pha	se 3				W-GO	L-280A		
FLUCCs code	Further classification	ation (optional)		Impac	t or Mitigation Site?	Assessment Area Size		
630					Existing Condition			
Basin/Watershed Name/Number	Affected Waterbody (Cla	uss)	Special Classificati	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)				
		,		•		, ,		
Ochlockonee River								
Geographic relationship to and hyd	drologic connection wit	h wetlands, other	surface water, upl	ands				
Surrounded by upland forests (App	palachicola National Fo	orest)/silviculture,	connects directly t	o othe	r wetland systems upsi	tream and		
downstream.								
Assessment area description								
	- , , , , , , , , , , , , , , , , , , ,					· · · · · · ·		
The canopy stratum in the Mixed F stratum and ground cover are dom								
cinnamon fern.	illiated by sweet bay, g	nam cano, ana so	autom baybony, n	igi ibu	on blackerry, myrae ice	ivod nony, dna		
Significant nearby features					ring the relative rarity in	relation to the		
			regional landsca	pe.)				
Silvipultural aparet	iona alastrial navvar lin	00	Not rare in relation to regional landscape					
Silviculturai operati	ions, electrial power lin	es	NO	liale	in relation to regional ia	inuscape		
Functions			Mitigation for pre	vious	permit/other historic us	e		
Wildlife habitat, wa	ter treatment and stora	ige	N/A					
Anticipated Wildlife Utilization Bas	ad an Literatura Pavia	w (List of appoint	Anticipated Litiliz	otion k	by Listed Species (List	anagina thair lagal		
that are representative of the asse					C), type of use, and inte			
to be found)		, ,	assessment area)					
Wading hir	ds, herpetofauna				ise by wading birds suc			
wading bil	us, nerpetorauria		wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC).					
Observed Evidence of Wildlife Util	ization (List species dir	rectly observed, or	r other signs such	as tra	cks, droppings, casings	s, nests, etc.):		
Additional relevant factors:								
Assessment conducted by:			Assessment date	e(s):				
M. Harrington/M. Goff			4/16/2019					

Site/Project Name		Application Number		Assessment Are	a Name or Number	
	Db 0	, technodion radilisor				
Gulf NFRC	Pnase 3				W-GOL-280A	
Impact or Mitigation		Assessment conducted by:		Assessment date		
Impact (Cle	earing)	M. Harrington		4/16/2019		
Scoring Guidance	Optimal (10)	Moderate(7)	Mii	nimal (4)	Not Present	(0)
The scoring of each indicator is based on	Condition is optimal and	Condition is less than optimal, but sufficient to		vel of support of	Condition is insuffi	
what would be suitable	fully supports wetland/surface water	maintain most	wetland	/surface water	provide wetland/surf	
for the type of wetland or surface water assessed	functions	wetland/surface waterfunctions	fu	ınctions	functions	
			l		I	
.500(6)(a) Location and Landscape Support w/o pres or current with 7	landscape support variable herbaceous community. Ind (reduced by proximity of silv access to and from outside downstream-distance or bar Hydrologically connected ar	s associated with clearing the transmission line ROW would reduce the location and liable for wetland forests through loss of contiguous forested parcels and conversion to y. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = of silviculture); b) Invasive exotic species = 7 (minimal coverage of Lygodium); c) Wildlife tside = 6 (reduced to proximity of silviculture); d) functions that benefit fish & wildlife or barriers = 6; e) Impacts to wildlife listed in Part 1 by outside land uses = 7 (silviculture); ed areas downstream of assessment area = 8 (connects directly); g) Dependency of assessment area = 8 (downstream areas are moderately dependent).				
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 8	freshwater marsh, although water levels and flows = 8 (a c) soil moisture = 8 (consist landuses); e) evidence of fir with expected); g) hydrologi specific hydrological require with water quality degradation	will temporarily impact the water environment variable, converting forested system to a though silt fencing will reduce temporary turbidity impacts. Individual parameter scores: a) is = 8 (appropriate for time of year; b) water level indicators = 8 (hydroperiod appears normal) consistent with expected); d) soil erosion or deposition = 6 (some existing erosion adjacent coe of fire history = 10 (area is fire managed); f) vegetation community zonation = 8 (consistent drologic stress on vegetation = 8 (consistent with expected); h) use by animal species with requirements = 8 (consistent with expected); i) vegetative species tolerant of and associated gradation = 8 (few observed); j) direct observation of water quality = 8 (water appears clean; k data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.				
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 7 3	Clearing of canopy will convert the system to a freshwater marsh community with significant loss of functional va compared to existing forested system. Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 7 (generally consistent with expected); b) invasive exotics or other invasive plant species = 8 (very little nuisance species); c) regeneration and recruitment = 7 (recruitment of canopy species somewhat lacking); d) age & size distribution = 7 (typical of forested wetland); e) density and quality of coarse we debris, snag, den, and cavity = 7 (consistent with expected); f) plant condition = 7 (consistent with expected); g) management practices = 6 (silvicultural practices and access roads), h) topographic features = 7, ; i) siltation or algal growth in submerged aquatic plant communities = 7 (minor).					opy, nt es se woody l); g) land
Score = sum of above scores/30 (if	If preservation as mitig	gation,		For impact asse	essment areas	
uplands, divide by 20)	Preservation adjustme			FL = delta		
or w/o pres with	Adjusted mitigation de	FI = 0.13 x 0.042 = 0.005				
0.73 0.6	J					•
	If mitigation			For mitigation as	sessment areas	
Delta = [with-current]	Time lag (t-factor) =			. or mangadori as:	occomon areas	
0.13	Risk factor =		RFG	= delta/(t-factor x	(risk) =	

	Application Number	ber Assessment Area Name or Number					
se 3			W-GO	L-280C			
Further classifica	ation (optional)		Impact or Mitigation Site?	Assessment Area Size			
			Existing Condition				
Affected Waterbody (Cla	ss)	Special Classification	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)				
Ochlockonee River							
rologic connection with	h wetlands, other	surface water, upl	ands				
alachicola National Fo	orest)/silviculture,	connects directly to	o other wetland systems ups	tream and			
Significant nearby features				relation to the			
Silvicultural operations, electrial power lines			Not rare in relation to regional landscape				
Functions			vious permit/other historic us	se			
er treatment and stora	ge	N/A					
		classification (E,	T, SSC), type of use, and into				
Wading birds, herpetofauna			Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC).				
ds, herpetofauna), little blue heron (SSC), sno				
•	ectly observed, or	wood stork (E)), little blue heron (SSC), sno	owy egret (SSC), and			
•	ectly observed, or	wood stork (E)), little blue heron (SSC), sno tricolor heron (SSC).	owy egret (SSC), and			
•	ectly observed, or	wood stork (E)), little blue heron (SSC), sno tricolor heron (SSC).	owy egret (SSC), and			
•	ectly observed, or	wood stork (E)), little blue heron (SSC), sno tricolor heron (SSC).	owy egret (SSC), and			
•	ectly observed, or	wood stork (E)), little blue heron (SSC), sno tricolor heron (SSC).	owy egret (SSC), and			
•	ectly observed, or	wood stork (E)), little blue heron (SSC), sno tricolor heron (SSC). as tracks, droppings, casing	owy egret (SSC), and			
	Further classification of the composition of the composition with a composition of the co	Further classification (optional) Affected Waterbody (Class) rologic connection with wetlands, other alachicola National Forest)/silviculture, or orested wetlands (630) comprises red minated by sweet bay, giant cane, and so	Further classification (optional) Affected Waterbody (Class) Foliation of the surface water	Further classification (optional) Impact or Mitigation Site?			

Site/Project Name		Application Number		Assessment Area Name or Number		
Gulf NFRC F	Phase 3				W-GOL-280C	
Impact or Mitigation		Assessment conducted by:		Assessment date		
Impact (Cle	earing)	M. Harrington		, wacaament date	4/16/2019	
Scoring Guidance	Optimal (10)	Moderate(7)	Mir	nimal (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 wate functions	
.500(6)(a) Location and Landscape Support w/o pres or current with 7	landscape support variable herbaceous community. Ind (reduced by proximity of silv access to and from outside downstream-distance or bar Hydrologically connected ar	s associated with clearing the transmission line ROW would reduce the location and able for wetland forests through loss of contiguous forested parcels and conversion to a Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = of silviculture); b) Invasive exotic species = 7 (minimal coverage of Lygodium); c) Wildlife side = 6 (reduced to proximity of silviculture); d) functions that benefit fish & wildlife or barriers = 6; e) Impacts to wildlife listed in Part 1 by outside land uses = 7 (silviculture); and areas downstream of assessment area = 8 (connects directly); g) Dependency of assessment area = 8 (downstream areas are moderately dependent).				
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 8	freshwater marsh, although water levels and flows = 8 (a c) soil moisture = 8 (consist landuses); e) evidence of fir with expected); g) hydrologic specific hydrological require with water quality degradation	will temporarily impact the water environment variable, converting forested system to a though silt fencing will reduce temporary turbidity impacts. Individual parameter scores: a) is = 8 (appropriate for time of year; b) water level indicators = 8 (hydroperiod appears normal); consistent with expected); d) soil erosion or deposition = 6 (some existing erosion adjacent coe of fire history = 10 (area is fire managed); f) vegetation community zonation = 8 (consistent drologic stress on vegetation = 8 (consistent with expected); h) use by animal species with requirements = 8 (consistent with expected); i) vegetative species tolerant of and associated gradation = 8 (few observed); j) direct observation of water quality = 8 (water appears clean; K) and a = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.				
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 7 3	compared to existing foreste shrub, or ground stratum = species = 8 (very little nuisa somewhat lacking); d) age 8 debris, snag, den, and cavit management practices = 6	ed system. Individual parame 7 (generally consistent with ex nce species); c) regeneration & size distribution = 7 (typical	eter scores: expected); by and recruit of forested ved); f) plant of cess roads),	a) plant communi) invasive exotics ment = 7 (recruitr wetland); e) dens condition = 7 (cor	or other invasive plant ment of canopy species ity and quality of coarse wood asistent with expected); g) land	
Score = sum of above scores/30 (if uplands, divide by 20) current or w/o pres with 0.73	If preservation as mition Preservation adjustment Adjusted mitigation de	ent factor =		For impact asse FL = delta FL = 0.13 x 0.00	x acres =	
Delta = [with-current]	If mitigation Time lag (t-factor) =			For mitigation ass	sessment areas	
0.13	Risk factor =	RFG = delta/(t-factor x risk) =				

Site/Project Name		Application Number	ber Assessment Area Name or Number				
Gulf NFRC Pha	ise 3				W-GC	DL-283	
FLUCCs code	Further classific	ation (optional)		Impact or Mitigation	Site?	Assessment Area Size	
630				Existing Condition			
Basin/Watershed Name/Number	Affected Waterbody (Cla	ass)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)				
Ochlockonee River							
Geographic relationship to and hyd	drologic connection wit	h wetlands, other	surface water, upl	ands			
Surrounded by distrubed uplands	(residential developme	ent), may connect t	o other wetlands v	via ditches.			
Assessment area description							
The canopy stratum in the Mixed F are dominated by southern magno							
Significant nearby features			Uniqueness (co regional landsca	nsidering the relat be.)	ive rarity in	relation to the	
Residential development, roadways, electrical power lines, light industrial operations			Not rare in relation to regional landscape				
Functions			Mitigation for pre	vious permit/other	historic us	е	
Wildlife habitat, wa	ter treatment and stora	age	N/A				
Anticipated Wildlife Utilization Bas that are representative of the asse to be found)				T, SSC), type of us		species, their legal ensity of use of the	
Wading bir	rds, herpetofauna		Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC).				
Observed Evidence of Wildlife Util	lization (List species di	rectly observed, or	other signs such	as tracks, droppin	gs, casings	s, nests, etc.):	
Additional relevant factors:							
Assessment conducted by:			Assessment date	e(s):			
M. Harrington/M. Goff			4/16/2019				

Site/Project Name		Application Number	Assessment Ar	Assessment Area Name or Number		
Gulf NFRC F	Phase 3			W-GOL-283		
Impact or Mitigation		Assessment conducted by:	Assessment da	te:		
Impact (Cle	earing)	M. Harrington		4/16/2019		
Searing Cuidence	Ontimal (40)	Madarata (7)	Minimal (4)	Not Dropout (0)		
Scoring Guidance The scoring of each	Optimal (10)	Moderate(7) Condition is less than	Minimal (4)	Not Present (0)		
indicator is based on	Condition is optimal and fully supports	optimal, but sufficient to	Minimal level of support of	Condition is insufficient to		
what would be suitable	wetland/surface water	maintain most	wetland/surface water	provide wetland/surface wate		
for the type of wetland or surface water assessed	functions	wetland/surface waterfunctions	functions	functions		
Surface water assessed		Wateriunctions				
.500(6)(a) Location and Landscape Support w/o pres or current with 6	landscape support variable herbaceous community. Ind (reduced by proximity of but Wildlife access to and from wildlife downstream-distanc to wildlife listed in Part 1 by connected areas downstrea	outside = 5 (reduced to proxile e or barriers = 6 (downstream outside land uses = 5 (reduce	ss of contiguous forested pa Support to wildlife listed in F sive exotic species = 7 (mir mity of roads and houses); o flow somewhat limited by road ad due to residential develop ffected by ditches); g) Depel	arcels and conversion to Part 1 by outside habitats = 5 himal coverage of Lygodium); c; d) functions that benefit fish & boads and ditching); e) Impacts		
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 7	freshwater marsh, although water levels and flows = 7 (a to to ditching); c) soil moistu erosion from adjacent landu zonation = 7 (consistent with animal species with specific associated with water qualit	will temporarily impact the water environment variable, converting forested system to a hough silt fencing will reduce temporary turbidity impacts. Individual parameter scores: a) is = 7 (appropriate for time of year; b) water level indicators = 6 (slightly altered hydroperiod of moisture = 8 (consistent with expected); d) soil erosion or deposition = 6 (some existing to tanduses); e) evidence of fire history = 7 (consistent with expected); f) vegetation communent with expected); g) hydrologic stress on vegetation = 7 (consistent with expected); h) use specific hydrological requirements = 3 (none observed); i) vegetative species tolerant of and requality degradation = 8 (few observed); j) direct observation of water quality = 6 (water unoff); K) existing water quality data = N/A; l) water depth wave, wave energy, currents and A.				
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 6 6	compared to existing foreste shrub, or ground stratum = species = 5 (moderate cove species somewhat lacking; coarse woody debris, snag, expected); g) land manager	by will convert the system to a freshwater marsh community with significant loss of functional string forested system. Individual parameter scores: a) plant community species in the canopy stratum = 7 (generally consistent with expected); b) invasive exotics or other invasive plant elerate coverage of nuisance species); c) regeneration and recruitment = 6 (recruitment of can at lacking; d) age & size distribution = 7 (typical of forested wetland); e) density and quality of bris, snag, den, and cavity = 5 (lower than expected); f) plant condition = 7 (consistent with d management practices = 5 (residential), h) topographic features = 7, ; i) siltation or algal grottic plant communities = 6 (average).				
Score = sum of above scores/30 (if	If preservation as miti	gation	For impact ass	sessment areas		
uplands, divide by 20)	Preservation adjustme			x acres =		
current	1 10301 Valion aujustine	511. 1d0t01 =				
pr w/o pres with	Adjusted mitigation de	elta =				
0.63 0.63333	, tajaotoa miagadon de					
3.3000	J					
	If mitigation		Fa(x)			
Delta = [with-current]	Time lag (t-factor) =		For mitigation as	ssessment areas		
0.00	Risk factor =	RFG = delta/(t-factor x risk) =				

Site/Project Name		Application Number Assessment Area Name or Number				
Gulf NFRC F	Phase 3			W-GOL-283		
Impact or Mitigation		Assessment conducted by:	Assessment dat	e:		
Impact (Fill)	M. Harrington		4/16/2019		
Scoring Guidance The scoring of each	Optimal (10)			Not Present (0)		
indicator is based on	Condition is optimal and	Condition is less than optimal, but sufficient to	Minimal level of support of	Condition is insufficient to		
what would be suitable	fully supports wetland/surface water	maintain most	wetland/surface water	provide wetland/surface water		
for the type of wetland or	functions	wetland/surface	functions	functions		
surface water assessed		waterfunctions				
.500(6)(a) Location and Landscape Support Wo pres or current with 6	landscape support variable herbaceous community. Ind (reduced by proximity of bus Wildlife access to and from wildlife downstream-distanct to wildlife listed in Part 1 by connected areas downstrea	outside = 5 (reduced to proxile e or barriers = 6 (downstream outside land uses = 5 (reduce	ss of contiguous forested pa Support to wildlife listed in P sive exotic species = 7 (min mity of roads and houses); d i flow somewhat limited by ro ed due to residential develop ffected by ditches); g) Deper	rcels and conversion to lart 1 by outside habitats = 5 imal coverage of Lygodium); c)) functions that benefit fish & lads and ditching); e) Impacts		
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 7	freshwater marsh, although water levels and flows = 7 (a to to ditching); c) soil moistu erosion from adjacent landu zonation = 7 (consistent with animal species with specific associated with water qualit	will temporarily impact the water environment variable, converting forested system to a though silt fencing will reduce temporary turbidity impacts. Individual parameter scores: a) is = 7 (appropriate for time of year; b) water level indicators = 6 (slightly altered hydroperiod of moisture = 8 (consistent with expected); d) soil erosion or deposition = 6 (some existing it landuses); e) evidence of fire history = 7 (consistent with expected); f) vegetation communicent with expected); g) hydrologic stress on vegetation = 7 (consistent with expected); h) use specific hydrological requirements = 3 (none observed); i) vegetative species tolerant of and or quality degradation = 8 (few observed); j) direct observation of water quality = 6 (water unoff); K) existing water quality data = N/A; I) water depth wave, wave energy, currents and A.				
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 6 0	compared to existing foreste shrub, or ground stratum = species = 5 (moderate cove species somewhat lacking; coarse woody debris, snag, expected); g) land manager	earing of canopy will convert the system to a freshwater marsh community with significant loss of functional mpared to existing forested system. Individual parameter scores: a) plant community species in the canopy rub, or ground stratum = 7 (generally consistent with expected); b) invasive exotics or other invasive plant excises = 5 (moderate coverage of nuisance species); c) regeneration and recruitment = 6 (recruitment of can excise somewhat lacking; d) age & size distribution = 7 (typical of forested wetland); e) density and quality of arse woody debris, snag, den, and cavity = 5 (lower than expected); f) plant condition = 7 (consistent with prected); g) land management practices = 5 (residential), h) topographic features = 7, ; i) siltation or algal ground aquatic plant communities = 6 (average).				
Score = sum of above scores/30 (if	If preservation as mitig	gation.	For impact ass	essment areas		
uplands, divide by 20)	Preservation adjustme		FL = delta	x acres =		
current	1. 1. 3301 Valion aujustine			7		
or w/o pres with	Adjusted mitigation de	pation delta = FL: 0.005 ac. x 0.63 = 0.003		(0.63 = 0.003		
0.63						
	I					
	If mitigation		For mitigation as	sessment areas		
Delta = [with-current]	Time lag (t-factor) =		-			
-0.63 Risk factor = RFG = delta/(t-factor x risk) =				(risk) =		

Site/Project Name			Application Numbe	ber Assessment Area Name or Number				
Gulf NFRC Pha	se 3					W-GOL	288_2	
FLUCCs code	F	Further classifica	tion (optional)		Impac	t or Mitigation Site?	Assessment Area Size	
630					l	Existing Condition		
Basin/Watershed Name/Number	Affected	ed Waterbody (Class) Special Classification (i.e.OFW, AP,			DFW, AP, other local/state/federa	al designation of importance)		
Ochlockonee River								
Geographic relationship to and hyd	drologic	connection with	wetlands, other	surface water, upl	ands			
Smaller isloated and outer edges o	of mixed	d forested wetlan	ids that are isolat	ed and receive su	ırface	water runoff from adjac	cent silviculture lands.	
Assessment area description The canopy stratum in the outer ec sweetgum, slash pine (recruited), a the edges. The subcanopy stratum fetterbush, highbush blueberry, wa chain fern, flatsedge, greenbrier, d (Eleocharis sp.), among others.	and dah n compr ax myrtle	hoon (Ilex cassing rises red maple, s le, and saw palmo	e), with occurrend slash pine, lobloll etto. The groundd	ces of loblolly bay y bay, and wax m cover comprises o ern, blackberry, ma	(Gord yrtle. ⁻ If a va aidend	lonia lasianthus) and pl The shrub stratum compriety of species includin cane, fetterbush, grape	anted slash pine along prises slash pine, g wax myrtle, Virginia vine, and spikerush	
Significant nearby features				Uniqueness (considering the relative rarity in relation to the regional landscape.)				
Silvicultural operations, roadways				Not rare in relation to regional landscape				
Functions				Mitigation for previous permit/other historic use				
Wildlife habitat, wat	ter treat	tment and storag	je	N/A				
Anticipated Wildlife Utilization Bas that are representative of the asse 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)				
Wading bir	ds, her	petofauna		Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC).				
Observed Evidence of Wildlife Util	ization	(List species dire	ectly observed, or	other signs such	as tra	cks, droppings, casings	s, nests, etc.):	
Additional relevant factors:								
Assessment conducted by:				Assessment date	e(s):			
Assessment conducted by: M. Harrington/M. Goff				4/16/2019				

		T				
Site/Project Name		Application Number	Assessment Are	Assessment Area Name or Number		
Gulf NFRC F	Phase 3			W-GOL-288_2		
Impact or Mitigation		Assessment conducted by:	Assessment date	te:		
Impact (Cle	earing)	M. Harrington		4/16/2019		
Saaring Cuidanaa	0::4:	M - d - m - 4 - (7)	M:::::::	Not Donos and (0)		
Scoring Guidance The scoring of each	Optimal (10)	Moderate(7) Condition is less than	Minimal (4)	Not Present (0)		
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	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 wate functions		
.500(6)(a) Location and Landscape Support w/o pres or current with 7	landscape support variable herbaceous community. Ind b) Invasive exotic species = downstream-distance or bal	8; c) Wildlife access to and friers = 7; e) Impacts to wildlifm of assessment area = 8; g	ss of contiguous forested pa Support to wildlife listed in F from outside = 7; d) functions e listed in Part 1 by outside l	rcels and conversion to Part 1 by outside habitats = 6;		
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with	freshwater marsh, although water levels and flows = 7; I moisture = 7, consistent wit existing erosion from roadw 5, removal of canopy, convemaintenance; h) use by anii and associated with water q clearing coupled with existir	ersion to herbaceous; g) hydr mal species with specific hydr uality degradation = 7; j) dire	rary turbidity impacts. Indivi- altered hydroperiod due to to deposition = 5, erosion during dence of fire history = 6; f) vo- ologic stress on vegetation = rological requirements = 8; i) ct observation of water quality or recreational activities. K) ex	dual parameter scores: a) silvicultural practices; c) soil g clearing, coupled with egetation community zonation		
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 7 3	compared to existing foreste shrub, or ground stratum = c) regeneration and recruitn distribution = 4, atypical of f 4; f) plant condition = 4, ; g)	ed system. Individual parame 4,; b) invasive exotics or oth nent = 3, removal of canopy, orested wetland; e) density a	eter scores: a) plant commun der invasive plant species = 7 recruitment affected by main and quality of coarse woody d = 6, silvicultural practices an	7, very little nuisance species; tenance; d) age & size ebris, snag, den, and cavity = id access roads, h) topograph		
			- ·	,		
Score = sum of above scores/30 (if uplands, divide by 20)	If preservation as miti		For impact ass FL = delta			
current	Preservation adjustme	ent factor =	i E dolla			
or w/o pres with	Adjusted mitigation de	elta =				
0.73 0.53333						
	If mitigation					
Delta - Indah			For mitigation as	sessment areas		
Delta = [with-current]	Time lag (t-factor) =		RFG = delta/(t-factor)	x risk) =		
-0.20	Risk factor =		a non			

Site/Project Name		Application Number Assessment Area Name or Number					
Gulf NFRC I	Phase 3		W-GOL-288_2				
Impact or Mitigation		Assessment conducted by:	Assessment da	date:			
Impact ((Fill)	M. Harrington		4/16/2019			
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				
.500(6)(a) Location and Landscape Support w/o pres or current with 7	landscape support variable herbaceous community. Ind b) Invasive exotic species = downstream-distance or bar	ociated with clearing the transfor wetland forests through lo ividual parameter scores: a) s; c) Wildlife access to and striers = 7; e) Impacts to wildlifm of assessment area = 8; greas.	ss of contiguous forested pa Support to wildlife listed in F from outside = 7; d) functions e listed in Part 1 by outside	rcels and conversion to Part 1 by outside habitats = 6 s that benefit fish & wildlife and uses = 6; f) Hydrologica			
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with	freshwater marsh, although water levels and flows = 7; t moisture = 7, consistent witl existing erosion from roadw 5, removal of canopy, convemaintenance; h) use by anir and associated with water q clearing coupled with existir	nporarily impact the water envisit fencing will reduce tempor by water level indicators = 7, and hexpected; d) soil erosion or ay, adjacent landuses; e) evicersion to herbaceous; g) hydromal species with specific hydrouality degradation = 7; j) directly dispersion of the properties	orary turbidity impacts. Indivibilitered hydroperiod due to to deposition = 5, erosion during dence of fire history = 6; f) voologic stress on vegetation = rological requirements = 8; i) ct observation of water quality recreational activities. K) expressions	dual parameter scores: a) silvicultural practices; c) soing clearing, coupled with egetation community zonatios 5, canopy removal, routine vegetative species tolerant by = 6, temporary impact duri			
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 7 0	compared to existing foreste shrub, or ground stratum = 4 c) regeneration and recruitn distribution = 4, atypical of f 4; f) plant condition = 4, ; g)	rert the system to a freshwate ed system. Individual parame 4,; b) invasive exotics or oth nent = 3, removal of canopy, orested wetland; e) density a land management practices algal growth in submerged ac	eter scores: a) plant communitier invasive plant species = 7 recruitment affected by main and quality of coarse woody defected in the first plant of the first plant	nity species in the canopy, 7, very little nuisance species tenance; d) age & size ebris, snag, den, and cavity d access roads, h) topograp			
Score = sum of above scores/30 (if uplands, divide by 20) current br w/o pres with	If preservation as mitigation de	ent factor =	For impact ass FL = delta FL: 0.01 ac. x				
0.73 0 Delta = [with-current]	If mitigation Time lag (t-factor) =		For mitigation as	sessment areas			
-0.73	Risk factor =		RFG = delta/(t-factor x risk) =				

Site/Project Name			Application Numbe	mber Assessment Area Name or Number				
Gulf NFRC Pha	se 3					W-GOL	288_1	
FLUCCs code	Fur	rther classificat	tion (optional)		Impac	t or Mitigation Site?	Assessment Area Size	
630					Existing Condition			
Basin/Watershed Name/Number	Affected V	Waterbody (Clas	s)	Special Classification	ation (i.e.OFW, AP, other local/state/federal designation of importance)			
Ochlockonee River								
Geographic relationship to and hyd	drologic co	onnection with	wetlands, other	surface water, upl	ands			
Smaller isloated and outer edges o	of mixed for	orested wetlan	ds that are isolat	ed and receive su	ırface	water runoff from adjac	ent silviculture lands.	
Assessment area description The canopy stratum in the outer ecsweetgum, slash pine (recruited), athe edges. The subcanopy stratum fetterbush, highbush blueberry, wachain fern, flatsedge, greenbrier, d(Eleocharis sp.), among others.	and dahoo n comprise ax myrtle, a	on (llex cassing es red maple, s and saw palme	e), with occurrend slash pine, lobloll etto. The groundd	ces of loblolly bay y bay, and wax m cover comprises o ern, blackberry, ma	(Gord yrtle. I f a val aidend	lonia lasianthus) and pl The shrub stratum compriety of species includin cane, fetterbush, grape	anted slash pine along orises slash pine, g wax myrtle, Virginia vine, and spikerush	
Significant nearby features				Uniqueness (considering the relative rarity in relation to the regional landscape.)				
Silvicultural operations, roadways				Not rare in relation to regional landscape				
Functions				Mitigation for previous permit/other historic use				
Wildlife habitat, wat	ter treatm	ent and storag	e	N/A				
Anticipated Wildlife Utilization Bas that are representative of the asse 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)				
Wading bir	ds, herpe	etofauna		Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC).				
Observed Evidence of Wildlife Util	ization (Li	ist species dire	ectly observed, or	other signs such	as tra	cks, droppings, casings	s, nests, etc.):	
Additional relevant factors:								
Assessment conducted by:				Assessment date	e(s):			
M Harrington/M Goff				4/16/2019				

Site/Project Name		Application Number	Assessm	Assessment Area Name or Number		
	71 A	/ Application Number				
Gulf NFRC F	Phase 3			W-GOL-288_1		
Impact or Mitigation		Assessment conducted by:	ent date:			
Impact (Cle	earing)	M. Harrington		4/16/2019		
Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)		
The scoring of each	Condition is optimal and	Condition is less than		· ·		
indicator is based on what would be suitable	fully supports	optimal, but sufficient to maintain most	Minimal level of sup wetland/surface w	· I		
for the type of wetland or	wetland/surface water functions	wetland/surface	functions	functions	watci	
surface water assessed	Turictions	waterfunctions				
.500(6)(a) Location and Landscape Support w/o pres or current with 7 5	Landscape Support Landscape Sup					
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with	freshwater marsh, although water levels and flows = 7; k moisture = 7, consistent with existing erosion from roadw. 5, removal of canopy, convemaintenance; h) use by anir and associated with water q clearing coupled with existing	will temporarily impact the water environment variable, converting forested system to a though silt fencing will reduce temporary turbidity impacts. Individual parameter scores: a) $w_s = 7$; b) water level indicators = 7, altered hydroperiod due to to silvicultural practices; c) soil tent with expected; d) soil erosion or deposition = 5, erosion during clearing, coupled with a roadway, adjacent landuses; e) evidence of fire history = 6; f) vegetation community zonation w_s , conversion to herbaceous; g) hydrologic stress on vegetation = 5, canopy removal, routine w_s by animal species with specific hydrological requirements = 8; i) vegetative species tolerant of water quality degradation = 7; j) direct observation of water quality = 6, temporary impact during the existing minor sedimentation due to recreational activities. K) existing water quality data = w_s wave energy, currents and light penetration = w_s .				
.500(6)(c)Community structure Clearing of canopy will convert the system to a freshwater marsh community with significant loss of functional compared to existing forested system. Individual parameter scores: a) plant community species in the canop shrub, or ground stratum = 4,; b) invasive exotics or other invasive plant species = 7, very little nuisance species in the canop shrub, or ground stratum = 3, removal of canopy, recruitment affected by maintenance; d) age & size distribution = 4, atypical of forested wetland; e) density and quality of coarse woody debris, snag, den, and can denote the canop shrub, or ground stratum = 4, ; b) invasive exotics or other invasive plant species = 7, very little nuisance species in the canop shrub, or ground stratum = 4, ; b) invasive exotics or other invasive plant species = 7, very little nuisance species in the canop shrub, or ground stratum = 4, ; b) invasive exotics or other invasive plant species = 7, very little nuisance species = 7, very little nuisance species = 7, very little nuisance species = 6, invasive exotics or other invasive plant species = 7, very little nuisance species = 7, very little nuisance species = 7, very little nuisance species = 6, invasive exotics or other invasive plant species = 7, very little nuisance spec						
Score = sum of above scores/30 (if	If preservation as mitig	gation.	For impa	act assessment areas		
uplands, divide by 20)	Preservation adjustme			= delta x acres =		
current or w/o pres with	Adjusted mitigation de			FL = 0.2 x 0.306 = 0.061		
0.73 0.53						
	If mitigation					
Delta = [with-current]	Time lag (t-factor) =		For mitiga	For mitigation assessment areas		
-0.20	Risk factor =		RFG = delta/(t-factor x risk) =			

Cita /Duningt Name		A I' A I I	IA	- N Nbb		
Site/Project Name		Application Number	Assessment Are	Assessment Area Name or Number		
Gulf NFRC P	hase 3			W-GOL-288_1		
Impact or Mitigation		Assessment conducted by:	Assessment dat	Assessment date:		
Impact (F	-ill)	M. Harrington		4/16/2019		
Occario a Occidence	0 (1 1/40)			N (B ((0)		
Scoring Guidance The scoring of each	Optimal (10)	Moderate(7) Condition is less than	Minimal (4)	Not Present (0))	
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	optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficie provide wetland/surface functions		
	landscape support variable herbaceous community. Ind b) Invasive exotic species = downstream-distance or bar	sociated with clearing the transfor wetland forests through lo lividual parameter scores: a) # 8; c) Wildlife access to and triers = 7; e) Impacts to wildlife m of assessment area = 8; greas.	ss of contiguous forested pa Support to wildlife listed in P from outside = 7; d) functions e listed in Part 1 by outside I	rcels and conversion to Part 1 by outside habitats s that benefit fish & wildli and uses = 6; f) Hydrolo	s = 6; ife ogically	
(n/a for uplands)	freshwater marsh, although water levels and flows = 7; b moisture = 7, consistent with existing erosion from roadw. 5, removal of canopy, convemaintenance; h) use by anir and associated with water q clearing coupled with existing	nporarily impact the water envisit fencing will reduce temposity water level indicators = 7, and hexpected; d) soil erosion or eay, adjacent landuses; e) evicersion to herbaceous; g) hydromal species with specific hydrough dispersion to the specific hydrough dispersion = 7; j) directly dispersion of the specific hydrough many dispersion in the specific hydrough dispersion in the specific hydrough many d	rary turbidity impacts. Indivi- altered hydroperiod due to to deposition = 5, erosion durin- dence of fire history = 6; f) vo- ologic stress on vegetation = cological requirements = 8; i) ct observation of water quality or recreational activities. K) ex-	dual parameter scores: silvicultural practices; cong clearing, coupled with egetation community zone; 5, canopy removal, rouvegetative species toler by = 6, temporary impact	e) soil nation = atine rant of during	
Senthic Community	compared to existing foreste shrub, or ground stratum = 4 c) regeneration and recruitm distribution = 4, atypical of fo 4; f) plant condition = 4, ; g)	vert the system to a freshwate ed system. Individual parame 4,; b) invasive exotics or oth nent = 3, removal of canopy, orested wetland; e) density a land management practices algal growth in submerged ac	eter scores: a) plant communer invasive plant species = 7 recruitment affected by main d quality of coarse woody d = 6, silvicultural practices an	nity species in the canopy 7, very little nuisance spectenance; d) age & size ebris, snag, den, and ca d access roads, h) topog	oy, ecies; avity =	
0 ()	If process of the second	gation	Fax income of	ocomont		
Score = sum of above scores/30 (if uplands, divide by 20)	If preservation as mitig		For impact ass FL = delta			
current pr w/o pres with	Preservation adjustme		FL: 0.01 ac. x	0.73 = 0.007		
0.73	Adjusted mitigation de	eita =				
·	If mitigation		For mitigation as	sessment areas		
Delta = [with-current]	Time lag (t-factor) =		. or magadon as	a coostillation arous		
-0.73	RFG = delta/(t-factor	x risk) =				

Site/Project Name			Application Numbe	mber Assessment Area Name or Number				
Gulf NFRC Pha	se 3					W-GOL	289_1	
FLUCCs code		urther classificat	tion (optional)		Impac	t or Mitigation Site?	Assessment Area Size	
630					Existing Condition			
Basin/Watershed Name/Number	Affected	d Waterbody (Clas	s)	Special Classification	ation (i.e.OFW, AP, other local/state/federal designation of importance)			
Ochlockonee River								
Geographic relationship to and hyd	drologic	connection with	wetlands, other	surface water, upl	ands			
Smaller isloated and outer edges o	of mixed	d forested wetlan	ids that are isolat	ed and receive su	ırface	water runoff from adjac	ent silviculture lands.	
Assessment area description The canopy stratum in the outer ed sweetgum, slash pine (recruited), athe edges. The subcanopy stratum fetterbush, highbush blueberry, wachain fern, flatsedge, greenbrier, d(Eleocharis sp.), among others.	and dah n compri ax myrtle	noon (llex cassing rises red maple, s e, and saw palme	e), with occurrend slash pine, lobloll etto. The groundd	ces of loblolly bay y bay, and wax m cover comprises o ern, blackberry, ma	(Gord yrtle. ⁻ If a va aidend	lonia lasianthus) and pl The shrub stratum compriety of species includin cane, fetterbush, grape	anted slash pine along prises slash pine, g wax myrtle, Virginia vine, and spikerush	
Significant nearby features			Uniqueness (considering the relative rarity in relation to the regional landscape.)					
Silvicultural operations, roadways				Not rare in relation to regional landscape				
Functions				Mitigation for previous permit/other historic use				
Wildlife habitat, wat	ter treat	tment and storag	je	N/A				
Anticipated Wildlife Utilization Bas that are representative of the asse 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)				
Wading bir	ds, herp	petofauna		Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC).				
Observed Evidence of Wildlife Util	ization ((List species dire	ectly observed, or	other signs such	as tra	cks, droppings, casings	s, nests, etc.):	
Additional relevant factors:								
Assessment conducted by:				Assessment date	e(s).			
M Harrington/M Goff				4/16/2019				

Site/Project Name		Application Number	lΔs	Assessment Area Name or Number			
	Db 0	7 cocosment					
Gulf NFRC I	Phase 3			`	W-GOL-289_1		
Impact or Mitigation		Assessment conducted by:	ssessment date:				
Impact (Cle	earing)	M. Harrington		4/16/2019			
Scoring Guidance	Optimal (10)	Moderate(7)	Minir	inimal (4) Not Present (0)			
The scoring of each	Condition is optimal and	Condition is less than		110011100011		. ,	
indicator is based on what would be suitable	fully supports	optimal, but sufficient to maintain most		of support of urface water	Condition is insuffi provide wetland/surfa		
for the type of wetland or	wetland/surface water functions			ctions	functions	acc water	
surface water assessed	lufictions	waterfunctions					
Loss of canopy species associated with clearing the transmission line ROW would reduce the location and landscape Support variable for wetland forests through loss of contiguous forested parcels and conversion to herbaceous community. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitate b) Invasive exotic species = 8; c) Wildlife access to and from outside = 7; d) functions that benefit fish & wild downstream-distance or barriers = 7; e) Impacts to wildlife listed in Part 1 by outside land uses = 6; f) Hydro connected areas downstream of assessment area = 8; g) Dependency of downstream areas on assessmen 6, benefit to downstream areas.						ats = 6; dlife ologically	
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 8	water levels and flows = 7; t moisture = 7, consistent with existing erosion from roadw 5, removal of canopy, conve- maintenance; h) use by aninand associated with water q clearing coupled with existing	though silt fencing will reduce temporary turbidity impacts. Individual parameter scores: a) $vs = 7$; b) water level indicators = 7, altered hydroperiod due to to silvicultural practices; c) soil tent with expected; d) soil erosion or deposition = 5, erosion during clearing, coupled with a roadway, adjacent landuses; e) evidence of fire history = 6; f) vegetation community zonation v_i , conversion to herbaceous; g) hydrologic stress on vegetation = 5, canopy removal, routine v_i by animal species with specific hydrological requirements = 8; i) vegetative species tolerant of water quality degradation = 7; j) direct observation of water quality = 6, temporary impact during the existing minor sedimentation due to recreational activities. K) existing water quality data = v_i wave energy, currents and light penetration = v_i					
.500(6)(c)Community structure Clearing of canopy will convert the system to a freshwater marsh community with significant loss of functional compared to existing forested system. Individual parameter scores: a) plant community species in the canop shrub, or ground stratum = 4,; b) invasive exotics or other invasive plant species = 7, very little nuisance species and recruitment = 3, removal of canopy, recruitment affected by maintenance; d) age & size of sit in the canopy of canopy, recruitment affected by maintenance; d) age & size of sit in the canopy of canopy, recruitment affected by maintenance; d) age & size of sit in the canopy of canopy, recruitment affected by maintenance; d) age & size of sit in the canopy of canopy, recruitment affected by maintenance; d) age & size of sit in the canopy of canopy, recruitment affected by maintenance; d) age & size of sit in the canopy of canopy, recruitment affected by maintenance; d) age & size of sit in the canopy of canopy, recruitment affected by maintenance; d) age & size of sit in the canopy of canopy, recruitment affected by maintenance; d) age & size of sit in the canopy of canopy, recruitment affected by maintenance; d) age & size of sit in the canopy of canopy, recruitment affected by maintenance; d) age & size of sit in the canopy of canopy, recruitment affected by maintenance; d) age & size of sit in the canopy of canopy, recruitment affected by maintenance; d) age & size of sit in the canopy of canopy, recruitment affected by maintenance; d) age & size of sit in the canopy of canopy of canopy, recruitment affected by maintenance; d) age & size of canopy of canopy, recruitment affected by maintenance; d) age & size of canopy of canopy, recruitment affected by maintenance; d) age & size of canopy of canopy, recruitment affected by maintenance; d) age & size of canopy of canopy, recruitment affected by maintenance; d) age & size of canopy						opy, species; e cavity =	
Score = sum of share secret/00 //s	If preservation as mitig	gation		or impact asse	esement areas		
Score = sum of above scores/30 (if uplands, divide by 20)	Preservation adjustme			FL = delta			
current or w/o pres with	Adjusted mitigation de		F	FL = 0.2 x 0.089	9 = 0.018		
0.73 0.53	,						
	J					ı	
Delta = [with-current]	If mitigation Time lag (t-factor) =		Fo	For mitigation assessment areas			
	 		RFG =	= delta/(t-factor x risk) =			
-0.20	Risk factor =						

Site/Project Name Application N			imber Assessment Area Name or Number			
Gulf NFRC Phas	ise 3				W-GOL	290_1
FLUCCs code	Further classifica	ation (optional)		Impact	t or Mitigation Site?	Assessment Area Size
630				E	Existing Condition	
Basin/Watershed Name/Number	Affected Waterbody (Clas	ass)	Special Classification	on (i.e.O	DFW, AP, other local/state/federa	al designation of importance)
Ochlockonee River						
Geographic relationship to and hyd	drologic connection wit	h wetlands, other	surface water, upla	ands		
Upper portion of wetlands draining	j to the Ochlockonee R	liver, surrounded b	у a forested uplar	ıds (St	tate Forest)	
Assessment area description						
The canopy stratum in the Mixed F are dominated by southern magnol					•	-
Significant nearby features			Uniqueness (cor regional landscap		ing the relative rarity in	relation to the
Electrical power lines, roadways			Not rare in relation to regional landscape			
Functions			Mitigation for pre	vious p	permit/other historic use	е
Wildlife habitat, wat	iter treatment and stora	ıge	N/A			
Anticipated Wildlife Utilization Base that are representative of the asset 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)			
Wading bire	rds, herpetofauna		Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC).			
Observed Evidence of Wildlife Utili	ization (List species dir	rectly observed, or	other signs such	as trac	cks, droppings, casings	s, nests, etc.):
Additional relevant factors:		-				
Assessment conducted by:			Assessment date	e(s):		
M. Harrington/M. Goff		4/16/2019				

Site/Project Name		Application Number		Assessment Are	a Name or Number		
	Dhara 0	, cossession range					
Gulf NFRC	Phase 3				W-GOL-290_1		
Impact or Mitigation		Assessment conducted by: Assessment da			e:		
Impact (C	learing)	M. Harrington		4/16/2019			
Scoring Guidance	Optimal (10)	Moderate(7)	Mir	nimal (4)	Not Present (0)	
The scoring of each	Condition is optimal and	Condition is less than		a. (-)	THOU THOU THE	<u>, </u>	
indicator is based on what would be suitable	fully supports	optimal, but sufficient to maintain most		vel of support of surface water	Condition is insuffici provide wetland/surface		
for the type of wetland or	wetland/surface water functions	wetland/surface		nctions	functions	oo watoi	
surface water assessed	Turiotions	waterfunctions					
Loss of canopy species associated with clearing the transmission line ROW would reduce the location and landscape Support landscape Support (reduced by proximity of busy roads); b) Invasive exotic species = 8 (minimal coverage of Lygodium); c) Williams of course or current with with the state of the sta						s = 6 dlife tream- d in Part s via	
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 8	freshwater marsh, although water levels and flows = 8 (a ditching); c) soil moisture = adjacent landuses); e) evide (consistent with expected); species with specific hydrole associated with water qualit	will temporarily impact the water environment variable, converting forested system to a lthough silt fencing will reduce temporary turbidity impacts. Individual parameter scores: a) ws = 8 (appropriate for time of year; b) water level indicators = 7 (altered hydroperiod due to to stature = 8 (consistent with expected); d) soil erosion or deposition = 6 (some existing erosion e) evidence of fire history = 10 (area is fire managed); f) vegetation community zonation = 8 ected); g) hydrologic stress on vegetation = 8 (consistent with expected); h) use by animal c hydrological requirements = 8 (consistent with expected); i) vegetative species tolerant of an er quality degradation = 9 (none observed); j) direct observation of water quality = 8 (water xisting water quality data = N/A; I) water depth wave, wave energy, currents and light					
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 7	Clearing of canopy will conv compared to existing forests shrub, or ground stratum = exotics or other invasive pla (recruitment of canopy spec density and quality of coars 7 (consistent with expected)	canopy will convert the system to a freshwater marsh community with significant loss of functional varieting forested system. Individual parameter scores: a) plant community species in the canopy, and stratum = 7 (generally consistent eith expected, grouncover somewhat lacking); b) invasive her invasive plant species = 8 (very little nuisance species); c) regeneration and recruitment = 7 of canopy species somewhat lacking; d) age & size distribution = 7 (typical of forested wetland); e) quality of coarse woody debris, snag, den, and cavity = 7 (consistent with expected); f) plant condition to the expected; g) land management practices = 6 (silvicultural practices and access roads), h) features = 7, ; i) siltation or algal growth in submerged aquatic plant communities = 8 (very minor).					
Score = sum of above scores/30 (i	f If preservation as miti	gation,		For impact asse	essment areas		
uplands, divide by 20)	Preservation adjustme			FL = delta			
current pr w/o pres with				FL = 0.2 x 0.04	2 = 0. 008		
0.73 0.53	Adjusted mitigation de	elta =					
0.70							
	If mitigation			For mitigation ass	sessment areas		
Delta = [with-current]	Time lag (t-factor) =		<u> </u>				
-0.20 Risk factor = RFG = delta/(t-factor x risk) =					risk) =		

Site/Project Name	Application Numbe	umber Assessment Area Name or Number					
Gulf NFRC Pha	se 3					DL-292	
FLUCCs code	Further classifica	ation (optional)		Impact	t or Mitigation Site?	Assessment Area Size	
630				E	Existing Condition		
Basin/Watershed Name/Number	Affected Waterbody (Class	iss)	Special Classification	on (i.e.O	DFW, AP, other local/state/federa	al designation of importance)	
Ochlockonee River							
Geographic relationship to and hyd	drologic connection with	h wetlands, other	surface water, upla	ands			
Upper portion of wetlands draining	ι to the Ochlockonee Ri	iver adjacent to a	road and connecto	ed thro	ough a culvert to smalle	er upstream wetlands.	
Assessment area description							
The canopy stratum in the Mixed F are dominated by southern magno					·		
Significant nearby features			Uniqueness (considering the relative rarity in relation to the regional landscape.)				
State forest, surface streets			Not rare in relation to regional landscape				
Functions			Mitigation for pre	vious p	permit/other historic use	е	
Wildlife habitat, wat	iter treatment and stora	ge	N/A				
Anticipated Wildlife Utilization Base that are representative of the asset 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)				
Wading bire	rds, herpetofauna		Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC).				
Observed Evidence of Wildlife Utili	ization (List species dir	ectly observed, or	other signs such	as trac	cks, droppings, casings	s, nests, etc.):	
Additional relevant factors:							
Assessment conducted by:			Assessment date	e(s):			
M. Harrington/M. Goff	4/16/2019						

Site/Project Name		Application Number	Α	Assessment Area Name or Number			
Gulf NFRC F	Phase 3				W-GOL-292		
Impact or Mitigation		Accompany conducted by:					
Impact or Mitigation Impact (Cle	earing)	Assessment conducted by: M. Harrington	l A	Assessment date	e: 4/16/2019		
impact (Oic	·····3/	W. Harrington		4/10/2019			
Scoring Guidance	Optimal (10)	Moderate(7)	Mini	mal (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	maintain most wetland/s		evel of support of /surface water unctions Condition is insufficie provide wetland/surface functions			
Loss of canopy species associated with clearing the transmission line ROW would reduce the location and landscape Support Landscape Support Loss of canopy species associated with clearing the transmission line ROW would reduce the location and landscape support variable for wetland forests through loss of contiguous forested parcels and conversion to herbaceous community. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats (reduced by proximity of busy roads; b) Invasive exotic species = 7 (minimal coverage of Lygodium); c) Wildlife downst distance or barriers = 7 (downstream flow somewhat limited by roads and ditching; e) Impacts to wildlife listed to by outside land uses = 5 (adjacent to industrial facility and/or silviculture); f) Hydrologically connected areas downstream of assessment area = 6 (downstream areas on assessment area = 6 (downstream areas somewhat dependent).						ats = 6 dlife stream- ed in Part as	
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with	freshwater marsh, although water levels and flows = 8 (a silvicultural practices and/or 7 (some existing erosion fro expected); f) vegetation con (consistent with expected); l expected); i) vegetative spe direct observation of water of	rill temporarily impact the water environment variable, converting forested system to a lough silt fencing will reduce temporary turbidity impacts. Individual parameter scores: a) = 8 (appropriate for time of year; b) water level indicators = 7 (altered hydroperiod due to to and/or ditching); c) soil moisture = 9 (consistent with expected); d) soil erosion or deposition on from roadway, adjacent landuses); e) evidence of fire history = 8 (consistent with non community zonation = 8 (consistent with expected); g) hydrologic stress on vegetation = 8 ted); h) use by animal species with specific hydrological requirements = 8 (consistent with expecies tolerant of and associated with water quality degradation = 8 (none observed); j) water quality = 8 (water appears clean but does receive road runoff); K) existing water quality epth wave, wave energy, currents and light penetration = N/A.					
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 7	.500(6)(c)Community structure Clearing of canopy will convert the system to a freshwater marsh community with significant loss of function compared to existing forested system. Individual parameter scores: a) plant community shrub, or ground stratum = 7 (generally consistent eith expected, grouncover somewhat lacking); b) invasive exotics or other invasive plant species = 8 (very little nuisance species); c) regeneration and recruitment = 7 (recruitment of canopy species somewhat lacking; d) age & size distribution = 7 (typical of forested wetland) density and quality of coarse woody debris, snag, den, and cavity = 7 (consistent with expected); f) plant coarse woody debris, snag, den, and cavity = 7 (consistent with expected); g) land management practices = 6 (silvicultural practices and access roads), for topographic features = 7, ; i) siltation or algal growth in submerged aquatic plant communities = 7 (very min						
Score = sum of above scores/30 (if	If preservation as mitig	gation,		For impact asse	essment areas		
uplands, divide by 20) current	Preservation adjustme			FL = delta			
pr w/o pres with	Adjusted mitigation de	elta =		FL = 0.20 x	0.283= 0.057		
0.70 0.5	,						
	I					Ī	
Delta = [with-current]	If mitigation Time lag (t-factor) =		Fo	For mitigation assessment areas			
-0.20	Risk factor =		RFG =	= delta/(t-factor x risk) =			

Site/Project Name Application I				imber Assessment Area Name or Number				
Gulf NFRC Pha	se 3				W-GOL-293			
FLUCCs code	Further	classifica	ation (optional)		Impac	ct or Mitigation Site?	Assessment Area Size	
630					ļ	Existing Condition		
Basin/Watershed Name/Number	Affected Water	rbody (Clas	ss)	Special Classificati	ion (i.e.(OFW, AP, other local/state/federa	al designation of importance)	
Ochlockonee River								
Geographic relationship to and hyd	drologic conne	ection with	n wetlands, other	surface water, upl	ands			
Wetland that has been isolated by	a road and ra	ıil line anc	d adjacent to light	industrial facilities	š			
Assessment area description The canopy stratum in the outer ec sweetgum, loblolly pine (recruited), subcanopy stratum comprises red blueberry, wax myrtle, giant cane, t species including Virginia chain fer (Thelvpteris sp.), among others.	, water oak, ar maple, loblolly fetterbush, ne	nd swamp y pine, sw eedlepalm	p chestnut oak, wi veetbay, American n, Florida anise, an	ith occurrences of n hornbeam, and s nd bluestem palme oweyed grass, cinr	f plante sweeto etto. T namor	ed loblolly pine along th gum. The shrub stratum he groundcover compr n fern, blackberry, grap	ne edges. The n comprises highbush ises of a variety of e vine, and shield ferns	
Significant nearby features				Uniqueness (considering the relative rarity in relation to the regional landscape.)				
Industrial operations, roadways, rail				Not rare in relation to regional landscape				
Functions				Mitigation for pre	vious	permit/other historic us	e e	
Wildlife habitat, wat	er treatment a	and storaç	ge	N/A				
Anticipated Wildlife Utilization Base that are representative of the asset 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)				
Wading bird	ds, herpetofau	una		Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC).				
Observed Evidence of Wildlife Utili	zation (List sp	pecies dire	ectly observed, or	other signs such	as tra	cks, droppings, casing	s, nests, etc.):	
Additional relevant factors:								
Assessment conducted by:				Assessment date	e(s):			
M. Harrington/M. Goff				4/16/2019				

Site/Project Name		Application Number	Δος	sessment Are	a Name or Number			
	Application Number		Assessment Area Name or Number					
Gulf NFRC F				W-GOL-293				
Impact or Mitigation	Assessment conducted by:	Ass	sessment date	e:				
Impact (Cle	M. Harrington		4/16/2019					
Scoring Guidance	Optimal (40)	Moderate/7\	Minim	Simple (4) Not Discount (0)				
The scoring of each	Optimal (10)	Moderate(7) Condition is less than	Minim	aı (4)	Not Present	(U)		
indicator is based on	Condition is optimal and fully supports	optimal, but sufficient to		Minimal level of support of Condition is				
what would be suitable for the type of wetland or	wetland/surface water			d/surface water provide wetland/surface functions functions		ace water		
surface water assessed	functions	waterfunctions						
	<u> </u>							
		ociated with clearing the trans for wetland forests through lo				0		
.500(6)(a) Location and Landscape Support	herbaceous community. Ind	ividual parameter scores: a)	Support to wildl	life listed in Pa	art 1 by outside habita	ıts = 5		
<u> Εαπασσαρο σαρροπ</u>		sy roads; b) Invasive exotic sp = 5 (reduced to proximity of re						
Wo proc or		= 5 (reduced to proximity of re wnstream flow limited by road						
w/o pres or current with	outside land uses = 5 (adjac	cent to industrial facility and/o	r silviculture); f)	Hydrologicall	ly connected areas			
5 3	downstream of assessment areas somewhat dependent	area = 5; g) Dependency of (uowristream are	as on assess	ment area = 5 (downs	ueam		
	<u>'</u>	,						
	Clearing the canopy will tem	nnorarily impact the water env	vironment variah	ole converting	r forested system to a			
	freshwater marsh, although	silt fencing will reduce tempo	porarily impact the water environment variable, converting forested system to a silt fencing will reduce temporary turbidity impacts. Individual parameter scores: a)					
.500(6)(b)Water Environment (n/a for uplands)		appropriate for time of year; b) water level indicators = 7 (altered hydroperiod due to to ditching); c) soil moisture = 8 (consistent with expected); d) soil erosion or deposition = m roadway, adjacent landuses); e) evidence of fire history = 7 (consistent with						
(III/a IOI upiailus)								
	expected); f) vegetation con	nmunity zonation = 7 (consistent with expected); g) hydrologic stress on vegetation = 7						
		h) use by animal species with specific hydrological requirements = 7 (consistent with ecies tolerant of and associated with water quality degradation = 8 (few observed); j) quality = 7 (water appears clean but does receive road runoff); K) existing water quality wave, wave energy, currents and light penetration = N/A.						
w/o pres or current with								
	data = N/A; I) water depth v							
7 7								
500/6)/a)Community structure								
.500(6)(c)Community structure	0 17	vert the system to a freshwater marsh community with significant loss of functional value						
		ed system. Individual parameter scores: a) plant community species in the canopy, 7 (generally consistent eith expected, grouncover somewhat lacking); b) invasive						
Vegetation and/or	exotics or other invasive pla	int species = 6 (moderate nui	sance species);	c) regenerati	ion and recruitment =	6		
Benthic Community		ies somewhat lacking; d) age e woody debris, snag, den, ar						
		g) land management practice	,	•	,. , ·	511 - U		
w/o pres or) siltation or algal growth in su	ubmerged aquat	tic plant comn	nunities = 6 (minor silt	tation		
current with	from road runoff).							
6 3								
Score = sum of above scores/30 (if	If preservation as mitig	gation.	Fo	or impact asse	essment areas			
uplands, divide by 20)	Preservation adjustme			FL = delta				
current	1 10001 valion adjustine	stment factor =			105 0.000			
or w/o pres with	Adjusted mitigation de	elta =		FL = 0.17 x 0.	.105= 0.028			
0.60 0.43								
	<u></u>							
	If mitigation		For	mitigation ass	sessment areas			
Delta = [with-current]	Time lag (t-factor) =							
-0.17	Risk factor =	RFG = delta/(t-factor x risk) =			risk) =			

Site/Project Name Application Number			er Assessment Area Name or Number					
Gulf NFRC Phase 3					W-GC)L-294		
FLUCCs code	Further classifica	Further classification (optional)		Impact	or Mitigation Site?	Assessment Area Size		
630				E	Existing Condition			
Basin/Watershed Name/Number	Affected Waterbody (Class	ss)	Special Classification	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)				
Ochlockonee River								
Geographic relationship to and hyd	drologic connection with	h wetlands, other	surface water, upla	ands				
Wetland that has been isolated by	a road and rail line and	d adjacent to light	industrial facilities	i.				
Assessment area description								
The canopy and shrub strata in the cover is dominated by slender crow			ern.					
Significant nearby features				Uniqueness (considering the relative rarity in relation to the regional landscape.)				
Industrial operations, roadways, rail			Not rare in relation to regional landscape					
Functions			Mitigation for prev	vious p	permit/other historic use	e		
Industrial opera	ations, roadways, rail				N/A			
Anticipated Wildlife Utilization Base that are representative of the assest to be found)				T, SSC	y Listed Species (List s C), type of use, and inte			
Wading birds, herpetofauna			Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC).					
Observed Evidence of Wildlife Utili	ization (List species dir	ectly observed, or	other signs such	as trac	ks, droppings, casings	s, nests, etc.):		
Additional relevant factors:								
Assessment conducted by:			Assessment date	e(s):				
M. Harrington/M. Goff			4/16/2019					

Site/Project Name		Application Number	As	sessment Area	a Name or Number	
	Application Number		Assessment Area Name or Number			
Gulf NFRC F			W-GOL-294			
Impact or Mitigation	Assessment conducted by:	As	sessment date			
Impact (Cle	M. Harrington		4/16/2019			
Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)		Not Present (0)	
The scoring of each	Condition is optimal and	Condition is less than				` '
indicator is based on what would be suitable	fully supports	optimal, but sufficient to maintain most		of support of rface water	Condition is insuffi provide wetland/surfa	
for the type of wetland or	wetland/surface water functions	wetland/surface	funct		functions	
surface water assessed		waterfunctions				
.500(6)(a) Location and Landscape Support w/o pres or current with 6 4	ociated with clearing the transfor wetland forests through lo ividual parameter scores: a) sy roads; b) Invasive exotic sy = 6 (reduced to proximity of rewistream flow somewhat limit adjacent to industrial facility a area = 6; g) Dependency of co.	ss of contiguou Support to wild pecies = 7 (min oads); d) functi ted by roads an and/or silvicultu	us forested par dlife listed in Pa nimal coverage ions that benef nd ditching; e) l ure); f) Hydrolog	rcels and conversion for the sound of the sound of the sound of Lygodium); c) Wild fit fish & wildlife downstrong to wildlife list operated are.	ats = 6 dlife stream- ed in Part as	
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with	porarily impact the water envisit fencing will reduce tempo appropriate for time of year; by ditching); c) soil moisture = 8 m roadway, adjacent landuse munity zonation = 7 (consist n) use by animal species with cies tolerant of and associate quality = 7 (water appears cleavave, wave energy, currents a	rary turbidity in a) water level in b) (consistent wi cs); e) evidence ent with expect specific hydrol ed with water qu an but does rec	npacts. Individual Ind	Jual parameter scores altered hydroperiod du d) soil erosion or depo y = 7 (consistent with ogic stress on vegetat ments = 7 (consistent tion = 8 (few observec	s: a) e to to osition = ion = 7 with l); j)	
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 6 3	ert the system to a freshwate ed system. Individual parame 7 (generally consistent eith eo int species = 6 (moderate nui ies somewhat lacking; d) age e woody debris, snag, den, ar g) land management practice) siltation or algal growth in su	eter scores: a) per pected, ground sance species) et size distribund cavity = 5 (los s = 6 (silvicultus)	plant communi cover somewh); c) regenerati ition = 7 (typica ower than expe iral practices a	ity species in the cand at lacking); b) invasivition and recruitment = al of forested wetland ected); f) plant condition and access roads), h)	opy, /e 6); e) on = 6	
Score = sum of above scores/30 (if	If preservation as mitig	gation,	F	or impact asse	essment areas	
uplands, divide by 20)		EL - delta y acres -				
current or w/o pres with	Adjusted mitigation de	n delta = FL = 0.17 x 0.528 = (0.528 = 0.090		
0.63 0.47]					
	If mitigation	1	_			
Delta = [with-current]	Time lag (t-factor) =		For	r mitigation ass	sessment areas	
-0.17	Risk factor =		RFG = delta/(t-factor x risk) =			

Site/Project Name		Application Number	Assessment Are	Assessment Area Name or Number W-GOL-294		
Gulf NFRC Phase 3						
Impact or Mitigation			Assessment conducted by:	Assessment dat	e:	
Impact (Fill)			M. Harrington		4/16/2019	
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		Optimal (10) Condition is optimal and fully supports wetland/surface water functions	ndition is optimal and fully supports etland/surface water Condition is less than optimal, but sufficient to maintain most wetland/surface		Not Present (0) Condition is insufficie provide wetland/surface functions	ent to
.500(6)(a) Location and Landscape Support variable herbaceous community (reduced by proximity of access to and from outdistance or barriers = 7 to youtside land uses			ociated with clearing the transfor wetland forests through lo ividual parameter scores: a) sy roads; b) Invasive exotic specifications of the control of the	ss of contiguous forested pa Support to wildlife listed in P pecies = 7 (minimal coverage pads); d) functions that bene ed by roads and ditching; e) and/or silviculture); f) Hydrolo	rcels and conversion to art 1 by outside habitats e of Lygodium); c) Wildlif fit fish & wildlife downstr Impacts to wildlife listed ogically connected areas	fe ream- I in Part
freshwater marsh, although water levels and flows = 8 silvicultural practices and/o 5 (some existing erosion frexpected); f) vegetation concomplete (consistent with expected); with expected); i) vegetative specification of water observation of water in the specification of the spec			apporarily impact the water envisit fencing will reduce tempo appropriate for time of year; by ditching); c) soil moisture = 8 m roadway, adjacent landuse annunity zonation = 7 (consist n) use by animal species with cies tolerant of and associate quality = 7 (water appears cleavave, wave energy, currents a	rary turbidity impacts. Indivi) water level indicators = 7 (a 3 (consistent with expected); ss); e) evidence of fire history ent with expected); g) hydrol specific hydrological require d with water quality degrada an but does receive road rur	dual parameter scores: altered hydroperiod due (d) soil erosion or deposi y = 7 (consistent with ogic stress on vegetation ments = 7 (consistent with tion = 8 (few observed);	to to ition = n = 7 ith j)
	.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community Wo pres or current with 6	compared to existing foreste shrub, or ground stratum = 1 exotics or other invasive pla (recruitment of canopy spec density and quality of coarse (consistent with expected); of	ert the system to a freshwate ed system. Individual parame 7 (generally consistent eith ex int species = 6 (moderate nuis ies somewhat lacking; d) age e woody debris, snag, den, ar g) land management practices) siltation or algal growth in su	eter scores: a) plant communicated, grouncover somewhat sance species); c) regenerate & size distribution = 7 (typical cavity = 5 (lower than expose = 6 (silvicultural practices a	ity species in the canopy nat lacking); b) invasive ion and recruitment = 6 al of forested wetland); e ected); f) plant condition and access roads), h)	y, e) ı = 6
	Score = sum of above scores/30 (if uplands, divide by 20) current or w/o pres with 0.63 0	If preservation as mitig Preservation adjustme Adjusted mitigation de	ent factor =	For impact ass FL = delta FL: 0.01 ac. x	x acres =	
		If mitigation		For mitigation as	sessment areas	
	Delta = [with-current]	Time lag (t-factor) =				
-0.63		Risk factor =		RFG = delta/(t-factor x risk) =		

Site/Project Name Application Number			er Assessment Area Name or Number					
Gulf NFRC Phase 3					W-GC	DL-295		
FLUCCs code	Further classification (optional)			Impact or Mitigation Site?		Assessment Area Size		
630				E				
Basin/Watershed Name/Number Affected Waterbody (Class)			Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)					
Ochlockonee River								
Geographic relationship to and hyd	drologic connection with	h wetlands, other	surface water, upla	ands				
Wetland that has been isolated by	a road and rail line and	d adjacent to light	industrial facilities	; .				
Assessment area description								
The canopy and shrub strata in the cover is dominated by slender crow			ern.					
Significant nearby features				Uniqueness (considering the relative rarity in relation to the regional landscape.)				
Industrial operations, roadways, rail			Not rare in relation to regional landscape					
Functions			Mitigation for pre	vious	permit/other historic use	e		
Wildlife habitat, water treatment and storage					N/A			
Anticipated Wildlife Utilization Base that are representative of the asset to be found)			classification (E,	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)				
Wading birds, herpetofauna			Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC).					
Observed Evidence of Wildlife Utili	ization (List species dir	ectly observed, or	other signs such	as trad	cks, droppings, casings	s, nests, etc.):		
Additional relevant factors:								
Assessment conducted by:			Assessment date	e(s):				
M. Harrington/M. Goff			4/16/2019					

Site/Project Name		Application Number	As	sessment Area	a Name or Number	
Gulf NFRC F				W-GOL-295		
Impact or Mitigation	Assessment conducted by:	Δε	Assessment date:			
Impact of Willigation	M. Harrington		4/16/2019			
Scoring Guidance The scoring of each	Optimal (10)	Moderate(7) Condition is less than	Minim	ial (4)	Not Present (0)	(0)
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	optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level wetland/sur funct	face water	Condition is insuffi provide wetland/surf functions	
.500(6)(a) Location and Landscape Support w/o pres or current with 6 4	landscape support variable herbaceous community. Incommunity of but access to and from outside distance or barriers = 7 (dot 1 by outside land uses = 5 (sociated with clearing the transfor wetland forests through lodividual parameter scores: a) sy roads; b) Invasive exotic s = 6 (reduced to proximity of rwnstream flow somewhat limit (adjacent to industrial facility at area = 6; g) Dependency of (t).	oss of contiguou Support to wild pecies = 7 (min roads); d) functi ted by roads an and/or silvicultu	is forested pare life listed in Pa imal coverage ons that benefi d ditching; e) li re); f) Hydrolog	cels and conversion art 1 by outside habita of Lygodium); c) Wil it fish & wildlife down mpacts to wildlife list gically connected are	to ats = 6 Idlife astream- ted in Part eas
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 6 6	nporarily impact the water envisit fencing will reduce temporappropriate for time of year; by 7 (consistent with expected); duses); e) evidence of fire his the expected); g) hydrologic structure that the expected is expected in the expected of the expected in the expect	orary turbidity imply water level indexed by water level indexed by soil erosion externs a few services on vegetating 7 (consistent whe was sisten with expension of the consisten with expension was a second with expension with expension was a second was a seco	npacts. Individual ind	lual parameter score: Itered hydroperiod du = 5 (some existing er- cted); f) vegetation c tent with expected); f i) vegetative species t observation of wate	s: a) ue to to osion community h) use by s tolerant er quality	
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 6 3	vert the system to a freshwate ed system. Individual parame 7 (generally consistent eith ex ant species = 6 (moderate nui cies somewhat lacking; d) age e woody debris, snag, den, ar g) land management practice i) siltation or algal growth in su	eter scores: a) p xpected, ground isance species) e & size distribu nd cavity = 5 (lo es = 6 (silvicultur	clant communit cover somewhat; c) regeneration tion = 7 (typical ower than experal practices ar	ty species in the can- at lacking); b) invasi- on and recruitment = al of forested wetland acted); f) plant conditi- and access roads), h)	opy, ve : 6 I); e) ion = 6	
Score = sum of above scores/30 (if	If preservation as miti	gation.	Fr	or impact asses	ssment areas	1
uplands, divide by 20)	Preservation adjustme			FL = delta x		j
current or w/o pres with Adjusted mitigation				FL = 0.17 x 0	0.286 = 0.049	
0.60 0.43						1
	If we have a					1
	If mitigation		For	mitigation ass	sessment areas	
Delta = [with-current]	Time lag (t-factor) =					1
-0.17 Risk factor =			RFG = d	RFG = delta/(t-factor x risk) =		