

APPENDIX R

UMAM Datasheets

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

Site/Project Name FPID: 414506-1		Application Number		Assessment Area Name or Number WL-8, WL-SR8-0, WL-SR8-1, WL-SR8-3	
FLUCCs code 610-Wetland Hardwood Forests		Further classification (optional) PFO1C/PFO1/3C/PSS1/3C		Impact or Mitigation Site? Permanent Impact	
				Assessment Area Size 5.6	
Basin/Watershed Name/Number 30901011703		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Wetlands are adjacent to SR 70 towards the middle of the project. These wetlands have low-moderate connectivity to other wetlands.					
Assessment area description WL-8, WL-SR-0, & WL-SR8-3 were field verified as a Freshwater Forested/Shrub Wetland (PFO1C) and WL-SR8-1 was field verified as Freshwater Forested/Shrub Wetland (PSS1/3C and PFO1/3C) by USFWS's NWI. All wetlands were field verified as a Wetland Hardwood Forest (610) according to FDOT's FLUCFCS.					
Significant nearby features Wetlands are surrounded by open land, wetlands, train tracks, citrus groves, highway, and pine forests. Wetland 8 is approximately 250 feet northeast of Lake Annie.				Uniqueness (considering the relative rarity in relation to the regional Not unique to relative landscape.	
Functions Wetlands serve functions such as improving water quality, replenishing the groundwater, flood and erosion control, and food and habitat for wildlife.				Mitigation for previous permit/other historic use No	
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to Waterfowl and raptors (Order Anseriformes), large and small reptiles including alligators, snakes, and turtles (Class Reptilia), amphibians including frogs (Class Amphibia), butterflies and moths (Order Lepidoptera), Raccoons (<i>Procyon lotor</i>), wasps, bees, and ants (Order Hymenoptera)				Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the American alligator (<i>Alligator mississippiensis</i>) - FT (S/A); Little blue heron (<i>Egretta caerulea</i>) - ST; Roseate spoonbill (<i>Platalea ajaja</i>) - ST; Tricolored heron (<i>Egretta tricolor</i>) - ST	
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): Mammal droppings and raccoon tracks at Wetland 8. Frogs and minnows at WL-SR8-0, WL-SR8-1, and WL-SR8-3					
Additional relevant factors:					
Assessment conducted by: James Fine, Katherine Lawlor, Liliana Sikes, Logan Baxley, Sydney Norris, Madison Duclos, and Jonas Leicht				Assessment date(s): 5/30/2024 & 6/3&21/2024	

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

Site/Project Name FPID: 414506-1	Application Number	Assessment Area Name or Number WL-8, WL-SR8-0, WL-SR8-1, WL-SR8-3
Impact or Mitigation Permanent Impact	Assessment conducted by: James Fine, Katherine Lawlor, Liliana Sikes, Logan Baxley, Sydney Norris, Madison Duclos, and Jonas Leicht	Assessment date: 5/30/2024 & 6/3&21/2024

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

.500(6)(a) Location and Landscape Support w/o pres or current with 4 0	Wetlands are adjacent to SR 70 towards the middle of the project. . Wetlands are surrounded by open land, wetlands, train tracks, citrus groves, highway, and pine forests. Wetland 8 is approximately 250 feet northeast of Lake Annie.
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 4 0	WL-SR8-1 is not located within a 100-year floodplain, but WL-8, WL-SR8-0, and WL-SR8-3 are. These wetland systems are characterized as having water present throughout the growing season most years, with the water table near the land surface. Some petroleum from the road and fertilizer run-off from agricultural land could potentially cause algal blooms and water quality degradation.
1. Vegetation and/or 2. Benthic Community w/o pres or current with 4 0	Field Verified NWI - Freshwater Forested/Shrub Wetland (PFO1C, PSS1/3C, and PFO1/3C) Field Verified FLUCFCS - Wetland Hardwood Forests (610) Field observations for WL-8 included slow moving water while observations for WL-SR8-0 included standing water. Field observations for WL-SR8-1 and WL-SR8-3 included both slow moving and standing water. The wetland vegetation was dominated by Maidencane (<i>Hymenachne hemitomon</i>), Caesarsweed (<i>Urena lobata</i>), Willow (<i>Salix. spp.</i>), Cattail (<i>Typha latifolia</i>), Royal fern (<i>Osmunda regalis</i>), Leather fern (<i>Acrostichum spp.</i>) Peruvian primrose-willow (<i>Ludwigia peruviana</i>), Buttonbush (<i>Cephalanthus occidentalis</i>), Bald Cypress (<i>Taxodium distichum</i>), Sweetgum (<i>Liquidambar styraciflua</i>), Water Locust (<i>Gleditsia aquatica</i>), Climbing Maidenhair Fern (<i>Lygodium microphyllum</i>), and White beggarticks (<i>Bidens alba</i>).

Score = sum of above scores/30 (if uplands, divide by 20)	
current	with
0.4	0

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres = -2.24

Delta = [with-current]
-0.4

If mitigation
Time lag (t-factor) =
Risk factor =

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

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

Site/Project Name FPID: 414506-1		Application Number		Assessment Area Name or Number WL-8, WL-SR8-0, WL-SR8-1, WL-SR8-3	
FLUCCs code 610-Wetland Hardwood Forests		Further classification (optional) PFO1C/PFO1/3C/PSS1/3C		Impact or Mitigation Site? Secondary Impact	
				Assessment Area Size 1.96	
Basin/Watershed Name/Number 30901011703		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Wetlands are adjacent to SR 70 towards the middle of the project. These wetlands have low-moderate connectivity to other wetlands.					
Assessment area description WL-8, WL-SR-0, & WL-SR8-3 were field verified as a Freshwater Forested/Shrub Wetland (PFO1C) and WL-SR8-1 was field verified as Freshwater Forested/Shrub Wetland (PSS1/3C and PFO1/3C) by USFWS's NWI. All wetlands were field verified as a Wetland Hardwood Forest (610) according to FDOT's FLUCFCS.					
Significant nearby features Wetlands are surrounded by open land, wetlands, train tracks, citrus groves, highway, and pine forests. Wetland 8 is approximately 250 feet northeast of Lake Annie.			Uniqueness (considering the relative rarity in relation to the regional Not unique to relative landscape.		
Functions Wetlands serve functions such as improving water quality, replenishing the groundwater, flood and erosion control, and food and habitat for wildlife.			Mitigation for previous permit/other historic use No		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to Waterfowl and raptors (Order Anseriformes), large and small reptiles including alligators, snakes, and turtles (Class Reptilia), amphibians including frogs (Class Amphibia), butterflies and moths (Order Lepidoptera), Raccoons (<i>Procyon lotor</i>), wasps, bees, and ants (Order Hymenoptera)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the American alligator (<i>Alligator mississippiensis</i>) - FT (S/A); Little blue heron (<i>Egretta caerulea</i>) - ST; Roseate spoonbill (<i>Platalea ajaja</i>) - ST; Tricolored heron (<i>Egretta tricolor</i>) - ST		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): Mammal droppings and raccoon tracks at Wetland 8. Frogs and minnows at WL-SR8-0, WL-SR8-1, and WL-SR8-3					
Additional relevant factors:					
Assessment conducted by: James Fine, Katherine Lawlor, Liliana Sikes, Logan Baxley, Sydney Norris, Madison Duclos, and Jonas Leicht			Assessment date(s): 5/30/2024 & 6/3&21/2024		

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

Site/Project Name FPID: 414506-1	Application Number	Assessment Area Name or Number WL-8, WL-SR8-0, WL-SR8-1, WL-SR8-3
Impact or Mitigation Secondary Impact	Assessment conducted by: James Fine, Katherine Lawlor, Liliana Sikes, Logan Baxley, Sydney Norris, Madison Duclos, and Jonas Leicht	Assessment date: 5/30/2024 & 6/3&21/2024

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

.500(6)(a) Location and Landscape Support w/o pres or current 4 with 2.5	Wetlands are adjacent to SR 70 towards the middle of the project. . Wetlands are surrounded by open land, wetlands, train tracks, citrus groves, highway, and pine forests. Wetland 8 is approximately 250 feet northeast of Lake Annie.
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current 4 with 2	WL-SR8-1 is not located within a 100-year floodplain, but WL-8, WL-SR8-0, and WL-SR8-3 are. These wetland systems are characterized as having water present throughout the growing season most years, with the water table near the land surface. Some petroleum from the road and fertilizer run-off from agricultural land could potentially cause algal blooms and water quality degradation.
1. Vegetation and/or 2. Benthic Community w/o pres or current 4 with 2.5	Field Verified NWI - Freshwater Forested/Shrub Wetland (PFO1C, PSS1/3C, and PFO1/3C) Field Verified FLUCFCS - Wetland Hardwood Forests (610) Field observations for WL-8 included slow moving water while observations for WL-SR8-0 included standing water. Field observations for WL-SR8-1 and WL-SR8-3 included both slow moving and standing water. The wetland vegetation was dominated by Maidencane (<i>Hymenachne hemitomon</i>), Caesarsweed (<i>Urena lobata</i>), Willow (<i>Salix. spp.</i>), Cattail (<i>Typha latifolia</i>), Royal fern (<i>Osmunda regalis</i>), Leather fern (<i>Acrostichum spp.</i>) Peruvian primrose-willow (<i>Ludwigia peruviana</i>), Buttonbush (<i>Cephalanthus occidentalis</i>), Bald Cypress (<i>Taxodium distichum</i>), Sweetgum (<i>Liquidambar styraciflua</i>), Water Locust (<i>Gleditsia aquatica</i>), Climbing Maidenhair Fern (<i>Lygodium microphyllum</i>), and White beggarticks (<i>Bidens alba</i>).

Score = sum of above scores/30 (if uplands, divide by 20)	
current	with
or w/o pres	
0.4	0.24

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres = -0.32

Delta = [with-current]
-0.16

If mitigation
Time lag (t-factor) =
Risk factor =

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

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

Site/Project Name FPID: 414506-1		Application Number		Assessment Area Name or Number WL-7	
FLUCCs code 615-Wetland Hardwood Forest		Further classification (optional) PFO1C		Impact or Mitigation Site? Permanent Impact	
				Assessment Area Size 0.08 acre	
Basin/Watershed Name/Number 30901011703		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Wetland 7 is located north and south side of SR 70 towards the middle of the project. This wetland has moderate to good connectivity to other wetlands. Lake Annie is located approximately 200 ft south of Wetland 7. This wetland is located within a 100-year floodplain.					
Assessment area description Wetland 7 is classified as a Freshwater Forested/Shrub Wetland (PFO1C) by USFWS's NWI and is mapped as Non-Vegetated Wetlands by FDOT's FLUCFCS. This wetland was field verified as a Wetland Hardwood Forest (615) using FDOT's FLUCFCS.					
Significant nearby features Lake Annie is located approximately 200 feet south of this wetland. Wetland 7 is located approximately 1,000 ft west of Old State Road 8. This wetland is surrounded by open lands to the west and wetland hardwood forests to the south				Uniqueness (considering the relative rarity in relation to the regional Not unique to the relative landscape.	
Functions Wetlands serve functions such as improving water quality, replenishing the groundwater, flood and erosion control, and food and habitat for wildlife.				Mitigation for previous permit/other historic use No	
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to Fish, waterfowl and raptors (Order Anseriformes), large and small reptiles including alligators, snakes, and turtles (Class Reptilia), amphibians including frogs (Class Amphibia), butterflies and moths (Order Lepidoptera), wasps, bees, and ants (Order Hymenoptera)				Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the American alligator (<i>Alligator mississippiensis</i>) - FT (S/A); Little blue heron (<i>Egretta caerulea</i>) - ST; Roseate spoonbill (<i>Platalea ajaja</i>) - ST; Tricolored heron (<i>Egretta tricolor</i>) - ST	
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): Observed wildlife utilization included the American Alligator (<i>Alligator mississippiensis</i>), fish including the Florida Gar (<i>Lepisosteus platyrhincus</i>), and frogs (Class Amphibia).					
Additional relevant factors:					
Assessment conducted by: James Fine, Katherine Lawlor, and Liliana Sikes				Assessment date(s): 6/21/2024	

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

Site/Project Name FPID: 414506-1	Application Number	Assessment Area Name or Number WL-7
Impact or Mitigation Permanent Impact	Assessment conducted by: James Fine, Katherine Lawlor, and Liliana Sikes	Assessment date: 6/21/2024

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

.500(6)(a) Location and Landscape Support <table border="1"> <tr> <td>w/o pres or current</td> <td>with</td> </tr> <tr> <td>5</td> <td>0</td> </tr> </table>	w/o pres or current	with	5	0	Wetland 7 is located north and south side of SR 70 on the middle of the project. This wetland has moderate to good connectivity to other wetlands. Lake Annie is located approximately 200 ft south of wetland 7. There is no hydric soil mapped within this wetland based on NRCS soil mapping. Wetland 7 will be impacted by widening of ROW and construction of new lanes on SR 70.
w/o pres or current	with				
5	0				
.500(6)(b)Water Environment (n/a for uplands) <table border="1"> <tr> <td>w/o pres or current</td> <td>with</td> </tr> <tr> <td>5</td> <td>0</td> </tr> </table>	w/o pres or current	with	5	0	This wetland is located within a 100-year floodplain. This wetland system is characterized as having water present throughout the growing season most years, with the water table near the land surface. Some petroleum from the road and fertilizer run-off from agricultural land could potentially cause algal blooms and water quality degradation.
w/o pres or current	with				
5	0				
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community <table border="1"> <tr> <td>w/o pres or current</td> <td>with</td> </tr> <tr> <td>5</td> <td>0</td> </tr> </table>	w/o pres or current	with	5	0	Field Verified NWI - Freshwater Forested/Shrub Wetland (PFO1C) Field Verified FLUCFCS - Wetland Hardwood Forests (615) Field observations included slow moving water. This wetland was dominated by herbaceous vegetation including Cattail (<i>Typha latifolia</i>), Waterlily (<i>Nymphaeaceae spp.</i>), Caesarweed (<i>Urena lobata</i>), Peruvian primrose-willow (<i>Ludwigia peruviana</i>), and Southern live oak (<i>Quercus virginiana</i>).
w/o pres or current	with				
5	0				

Score = sum of above scores/30 (if uplands, divide by 20)	
current	with
or w/o pres	
0.5	0

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres = -0.04

Delta = [with-current]
-0.5

If mitigation
Time lag (t-factor) =
Risk factor =

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

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

Site/Project Name FPID: 414506-1		Application Number		Assessment Area Name or Number WL-7	
FLUCCs code 615-Wetland Hardwood Forest		Further classification (optional) PFO1C		Impact or Mitigation Site? Secondary Impact	Assessment Area Size 0.02 acre
Basin/Watershed Name/Number 30901011703		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Wetland 7 is located north and south side of SR 70 towards the middle of the project. This wetland has moderate to good connectivity to other wetlands. Lake Annie is located approximately 200 ft south of Wetland 7. This wetland is located within a 100-year floodplain.					
Assessment area description Wetland 7 is classified as a Freshwater Forested/Shrub Wetland (PFO1C) by USFWS's NWI and is mapped as Non-Vegetated Wetlands by FDOT's FLUCFCS. This wetland was field verified as a Wetland Hardwood Forest (615) using FDOT's FLUCFCS.					
Significant nearby features Lake Annie is located approximately 200 feet south of this wetland. Wetland 7 is located approximately 1,000 ft west of Old State Road 8. This wetland is surrounded by open lands to the west and wetland hardwood forests to the south			Uniqueness (considering the relative rarity in relation to the regional Not unique to the relative landscape.		
Functions Wetlands serve functions such as improving water quality, replenishing the groundwater, flood and erosion control, and food and habitat for wildlife.			Mitigation for previous permit/other historic use No		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to Fish, waterfowl and raptors (Order Anseriformes), large and small reptiles including alligators, snakes, and turtles (Class Reptilia), amphibians including frogs (Class Amphibia), butterflies and moths (Order Lepidoptera), wasps, bees, and ants (Order Hymenoptera)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the American alligator (<i>Alligator mississippiensis</i>) - FT (S/A); Little blue heron (<i>Egretta caerulea</i>) - ST; Roseate spoonbill (<i>Platalea ajaja</i>) - ST; Tricolored heron (<i>Egretta tricolor</i>) - ST		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): Observed wildlife utilization included the American Alligator (<i>Alligator mississippiensis</i>), fish including the Florida Gar (<i>Lepisosteus platyrhincus</i>), and frogs (Class Amphibia).					
Additional relevant factors:					
Assessment conducted by: James Fine, Katherine Lawlor, and Liliana Sikes			Assessment date(s): 6/21/2024		

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

Site/Project Name FPID: 414506-1	Application Number	Assessment Area Name or Number WL-7
Impact or Mitigation Secondary Impact	Assessment conducted by: James Fine, Katherine Lawlor, and Liliana Sikes	Assessment date: 6/21/2024

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

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

.500(6)(a) Location and Landscape Support w/o pres or current 5 with 4	Wetland 7 is located north and south side of SR 70 on the middle of the project. This wetland has moderate to good connectivity to other wetlands. Lake Annie is located approximately 200 ft south of wetland 7. There is no hydric soil mapped within this wetland based on NRCS soil mapping. Wetland 7 will be impacted by widening of ROW and construction of new lanes on SR 70.
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current 5 with 4	This wetland is located within a 100-year floodplain. This wetland system is characterized as having water present throughout the growing season most years, with the water table near the land surface. Some petroleum from the road and fertilizer run-off from agricultural land could potentially cause algal blooms and water quality degradation.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current 5 with 4	Field Verified NWI - Freshwater Forested/Shrub Wetland (PFO1C) Field Verified FLUCFCS - Wetland Hardwood Forests (615) Field observations included slow moving water. This wetland was dominated by herbaceous vegetation including Cattail (<i>Typha latifolia</i>), Waterlily (<i>Nymphaeaceae spp.</i>), Caesarweed (<i>Urena lobata</i>), Peruvian primrose-willow (<i>Ludwigia peruviana</i>), and Southern live oak (<i>Quercus virginiana</i>).

Score = sum of above scores/30 (if uplands, divide by 20)
current or w/o pres 5 with 4
0.5 0.4

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres = -0.01

Delta = [with-current]
-0.1

If mitigation
Time lag (t-factor) =
Risk factor =

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

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

Site/Project Name FPID: 414506-1		Application Number		Assessment Area Name or Number WL-SR8-5, WL-SR8-6, WL-SR8-7	
FLUCCs code 617-Mixed Wetland Hardwoods		Further classification (optional) PFO1C		Impact or Mitigation Site? Permanent Impact	
				Assessment Area Size 0.63 acre	
Basin/Watershed Name/Number 30901011703		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands These wetlands are located on the north side of SR 70 towards the middle of the project. These wetlands have moderate connectivity to other wetlands. These wetlands are located east of Old State Road 8 and north of State Road 70.					
Assessment area description These wetlands were field verified to be classified as Freshwater Forested/Shrub Wetland (PFO1C) using USFWS's NWI. They were also field verified as Mixed Wetland Hardwood (617) using FDOT's FLUCFCS.					
Significant nearby features Wetlands are east of Old State Road 8 and north of State Road 70. They are surrounded by wetlands, pastures, highways, forested areas, and cropland.				Uniqueness (considering the relative rarity in relation to the regional Not unique to relative landscape.	
Functions Wetlands serve functions such as improving water quality, replenishing the groundwater, flood and erosion control, and food and habitat for wildlife.				Mitigation for previous permit/other historic use No	
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to Fish, waterfowl and raptors (Order Anseriformes), large and small reptiles including alligators, snakes, and turtles (Class Reptilia), amphibians including frogs (Class Amphibia), butterflies and moths (Order Lepidoptera), wasps, bees, and ants (Order Hymenoptera)				Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the American alligator (<i>Alligator mississippiensis</i>) - FT (S/A); Little blue heron (<i>Egretta caerulea</i>) - ST; Roseate spoonbill (<i>Platalea ajaja</i>) - ST; Tricolored heron (<i>Egretta tricolor</i>) - ST	
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): Identified frogs and minnows as wildlife utilization during field reconnaissance for WL-SR8-5. No wildlife utilization was observed for WL-SR8-6 and WL-SR8-7.					
Additional relevant factors:					
Assessment conducted by: James Fine, Logan Baxley, Sydney Norris, Madison Duclos, and Jonas Leicht				Assessment date(s): 6/3&6/2025	

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

Site/Project Name FPID: 414506-1	Application Number	Assessment Area Name or Number WL-SR8-5, WL-SR8-6, WL-SR8-7
Impact or Mitigation Permanent Impact	Assessment conducted by: James Fine, Logan Baxley, Sydney Norris, Madison Duclos, Jonas Leicht	Assessment date: 6/3&6/2025

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

.500(6)(a) Location and Landscape Support w/o pres or current with 5 0	These wetlands are located on the North Side of SR 70 towards the middle of the project. They have moderate connectivity to other wetlands and are surrounded by wetlands, pastures, highways, forested areas, and cropland.
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 5 0	WL-SR8-5 is not mapped within a 100-year floodplain however WL-SR8-6 & WL-SR8-7 are. These wetland systems are characterized as having water present throughout the growing season most years, with the water table usually at or very near the land surface. Some petroleum from the road and fertilizer run-off from cropland and pastureland could potentially cause algal blooms and water quality degradation.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 5 0	Field Verified NWI - Freshwater Forested/Shrub Wetland (PFO1C) Field Verified FLUCFCS - Mixed Wetland Hardwood (617) Field observations included slow moving and standing water. The vegetation was dominated by Sweetgum (<i>Liquidambar styraciflua</i>), Bald Cypress (<i>Taxodium distichum</i>), Water Locust (<i>Gleditsia aquatica</i>), Maidencane (<i>Hymenachne hemitomon</i>), Climbing Maidenhair Fern (<i>Lygodium microphyllum</i>), White beggarticks (<i>Bidens alba</i>), Red Maple (<i>Acer rubrum</i>), Water Oak (<i>Quercus nigra</i>) and Swamp Bay (<i>Tamala palustris</i>), and Fern (<i>Pteris</i> spp.).

Score = sum of above scores/30 (if uplands, divide by 20)	
current	with
or w/o pres	
0.5	0

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres = -0.32

Delta = [with-current]
-0.5

If mitigation
Time lag (t-factor) =
Risk factor =

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

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

Site/Project Name FPID: 414506-1		Application Number		Assessment Area Name or Number WL-SR8-5, WL-SR8-6, WL-SR8-7	
FLUCCs code 617-Mixed Wetland Hardwoods		Further classification (optional) PFO1C		Impact or Mitigation Site? Secondary Impact	
				Assessment Area Size 0.60	
Basin/Watershed Name/Number 30901011703		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands These wetlands are located on the north side of SR 70 towards the middle of the project. These wetlands have moderate connectivity to other wetlands. These wetlands are located east of Old State Road 8 and north of State Road 70.					
Assessment area description These wetlands were field verified to be classified as Freshwater Forested/Shrub Wetland (PFO1C) using USFWS's NWI. They were also field verified as Mixed Wetland Hardwood (617) using FDOT's FLUCFCS.					
Significant nearby features Wetlands are east of Old State Road 8 and north of State Road 70. Wetland 5 is surrounded by wetlands, pastures, highways, forested areas, and cropland.			Uniqueness (considering the relative rarity in relation to the regional Not unique to relative landscape.		
Functions Wetlands serve functions such as improving water quality, replenishing the groundwater, flood and erosion control, and food and habitat for wildlife.			Mitigation for previous permit/other historic use No		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to Fish, waterfowl and raptors (Order Anseriformes), large and small reptiles including alligators, snakes, and turtles (Class Reptilia), amphibians including frogs (Class Amphibia), butterflies and moths (Order Lepidoptera), wasps, bees, and ants (Order Hymenoptera)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the American alligator (<i>Alligator mississippiensis</i>) - FT (S/A); Little blue heron (<i>Egretta caerulea</i>) - ST; Roseate spoonbill (<i>Platalea ajaja</i>) - ST; Tricolored heron (<i>Egretta tricolor</i>) - ST		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): Identified frogs and minnows as wildlife utilization during field reconnaissance for WL-SR8-5. No wildlife utilization was observed for WL-SR8-6 and WL-SR8-7.					
Additional relevant factors:					
Assessment conducted by: James Fine, Logan Baxley, Sydney Norris, Madison Duclos, and Jonas Leicht			Assessment date(s): 6/3&6/2025		

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

Site/Project Name FPID: 414506-1	Application Number	Assessment Area Name or Number WL-SR8-5, WL-SR8-6, WL-SR8-7
Impact or Mitigation Secondary Impact	Assessment conducted by: James Fine, Logan Baxley, Sydney Norris, Madison Duclos, Jonas Leicht	Assessment date: 6/3&6/2025

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

.500(6)(a) Location and Landscape Support w/o pres or current with 5 4	These wetlands are located on the North Side of SR 70 towards the middle of the project. They have moderate connectivity to other wetlands and are surrounded by wetlands, pastures, highways, forested areas, and cropland.
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 5 4	WL-SR8-5 is not mapped within a 100-year floodplain however WL-SR8-6 & WL-SR8-7 are. These wetland systems are characterized as having water present throughout the growing season most years, with the water table usually at or very near the land surface. Some petroleum from the road and fertilizer run-off from cropland and pastureland could potentially cause algal blooms and water quality degradation.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 5 4	Field Verified NWI - Freshwater Forested/Shrub Wetland (PFO1C) Field Verified FLUCFCS - Mixed Wetland Hardwood (617) Field observations included slow moving and standing water. The vegetation was dominated by Sweetgum (<i>Liquidambar styraciflua</i>), Bald Cypress (<i>Taxodium distichum</i>), Water Locust (<i>Gleditsia aquatica</i>), Maidencane (<i>Hymenachne hemitomon</i>), Climbing Maidenhair Fern (<i>Lygodium microphyllum</i>), White beggarticks (<i>Bidens alba</i>), Red Maple (<i>Acer rubrum</i>), Water Oak (<i>Quercus nigra</i>) and Swamp Bay (<i>Tamala palustris</i>), and Fern (<i>Pteris</i> spp.).

Score = sum of above scores/30 (if uplands, divide by 20)	
current	with
or w/o pres	
0.5	0.4

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres = -0.06

Delta = [with-current]
-0.1

If mitigation
Time lag (t-factor) =
Risk factor =

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

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

Site/Project Name FPID: 414506-1		Application Number		Assessment Area Name or Number Wetlands 6, 18, 26	
FLUCCs code 630-Wetland Forested Mixed		Further classification (optional) R5UBHx/R5UBFx/PFO2/1Cd		Impact or Mitigation Site? Permanent Impact	
Assessment Area Size 0.11 acre					
Basin/Watershed Name/Number 30901011703		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Wetland 6 is located on the north and south side of SR 70 towards the western end of the project. This wetland has good connectivity to other wetlands and is located approximately 0.1 miles west of Placid View Dr. Wetland 18 is located on the north side of SR 70 towards the middle of the project. This wetland has moderate connectivity to other wetlands and is located approximately 500 feet west of Turner Rd. Both of these wetlands are located within a 100-year floodplain. Wetland 26 is located on the south side of SR 70 towards the eastern end of the project. This wetland has moderate connectivity to other wetlands. This wetland is approximately 100 feet southeast of County Rd 29.					
Assessment area description Wetlands 6, 18, & 26 are classified as a Riverine (R5UBHx & R5UBFx) by USFWS's NWI and were field verified as Wetland Forested Mixed (630) using FDOT's FLUCFCS. Wetland 26 was also classified as Freshwater Forested/Shrub Wetland (PFO2/1Cd).					
Significant nearby features Wetland 6 is surrounded by cropland and pastureland to the south and shrub and brushland to the north. This wetland is located approximately 0.2 miles west of R B Farm LLC. Wetland 18 is surrounded by residential low density area to the west and by cropland and pastureland to the east. Wetland 26 is located approximately 100 feet southeast of County Rd 29. Wetland 26 is surrounded by improved pastures to the east, west, and south.			Uniqueness (considering the relative rarity in relation to the regional Not unique to the relative landscape		
Functions Wetlands serve functions such as improving water quality, replenishing the groundwater, flood and erosion control, and food and habitat for wildlife.			Mitigation for previous permit/other historic use No		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to Fish, waterfowl and raptors (Order Anseriformes), large and small reptiles including alligators, snakes, and turtles (Class Reptilia), amphibians including frogs (Class Amphibia), butterflies and moths (Order Lepidoptera), wasps, bees, and ants (Order Hymenoptera)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the American alligator (<i>Alligator mississippiensis</i>) - FT (S/A); Little blue heron (<i>Egretta caerulea</i>) - ST; Roseate spoonbill (<i>Platalea ajaja</i>) - ST; Tricolored heron (<i>Egretta tricolor</i>) - ST		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): No wildlife utilization observed for wetland 6, but wetland 18 showed presence of amphibians such as frogs (Class Amphibia) and foraging behavior by a Great egret (<i>Ardea alba</i>) and wetland 26 showed evidence of wildlife utilization including pig frogs (<i>Rana grylio</i>).					
Additional relevant factors:					
Assessment conducted by: James Fine, Katherine Lawlor, and Liliana Sikes			Assessment date(s): 6/21,26,27/2024		

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

Site/Project Name FPID: 414506-1	Application Number	Assessment Area Name or Number Wetlands 6, 18, 26
Impact or Mitigation Permanent Impact	Assessment conducted by: James Fines, Katherine Lawlor, and Liliana Sikes	Assessment date: 6/21,26,27/2024

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

.500(6)(a) Location and Landscape Support w/o pres or current 4 with 0	Wetlands are adjacent to SR 70 and a combination of cropland/pastureland, shrub and brushland, and residential low density with good connectivity to other habitats.
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current 4 with 0	These wetlands are located within a 100-year floodplain. These wetland systems are characterized as having water present throughout the growing season most years, with the water table near the land surface. Some petroleum from the road and fertilizer run-off from agricultural land could potentially cause algal blooms and water quality degradation.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current 4 with 0	Field Verified NWI - Riverine (R5UBHx) Field Verified FLUCFCS - Wetland Forested Mixed (630) Field observations for Wetland 6 & 26 include slow moving water. The wetland vegetation was dominated by herbaceous vegetation such as Spatterdock (<i>Nuphar advena</i>), Maidencane (<i>Hymenachne hemitomon</i>), Dogfennel (<i>Eupatorium capillifolium</i>), Peruvian primrose-willow (<i>Ludwigia peruviana</i>), Caesarweed (<i>Urena lobata</i>), Wild taro (<i>Colocasia esculenta</i>), Southern live oak (<i>Quercus virginiana</i>), Saw palmetto (<i>Serenoa repens</i>), and Beggarticks (<i>Bidens alba</i>). Field observations for Wetland 18 included flowing water. The wetland was dominated by herbaceous vegetation including Brazilian pepper (<i>Schinus terebinthifolia</i>) and Sword fern (<i>Polystichum munitum</i>).

Score = sum of above scores/30 (if uplands, divide by 20)
current or w/o pres 0.4 with 0

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres = -0.05

Delta = [with-current]
-0.4

If mitigation
Time lag (t-factor) =
Risk factor =

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

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

Site/Project Name FPID: 414506-1		Application Number		Assessment Area Name or Number Wetlands 6, 18, 26	
FLUCCs code 630-Wetland Forested Mixed		Further classification (optional) R5UBHx/R5UBFx/PFO2/1Cd		Impact or Mitigation Site? Secondary Impact	
				Assessment Area Size 0.06 acre	
Basin/Watershed Name/Number 30901011703 & 030901030301		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Wetland 6 is located on the north and south side of SR 70 towards the western end of the project. This wetland has good connectivity to other wetlands and is located approximately 0.1 miles west of Placid View Dr. Wetland 18 is located on the north side of SR 70 towards the middle of the project. This wetland has moderate connectivity to other wetlands and is located approximately 500 feet west of Turner Rd. Both of these wetlands are located within a 100-year floodplain. Wetland 26 is located on the south side of SR 70 towards the eastern end of the project. This wetland has moderate connectivity to other wetlands. This wetland is approximately 100 feet southeast of County Rd 29.					
Assessment area description Wetlands 6, 18, & 26 are classified as a Riverine (R5UBHx & R5UBFx) by USFWS's NWI and were field verified as Wetland Forested Mixed (630) using FDOT's FLUCFCS. Wetland 26 was also classified as Freshwater Forested/Shrub Wetland (PFO2/1Cd).					
Significant nearby features Wetland 6 is surrounded by cropland and pastureland to the south and shrub and brushland to the north. This wetland is located approximately 0.2 miles west of R B Farm LLC. Wetland 18 is surrounded by residential low density area to the west and by cropland and pastureland to the east. Wetland 26 is located approximately 100 feet southeast of County Rd 29. Wetland 26 is surrounded by improved pastures to the east, west, and south.			Uniqueness (considering the relative rarity in relation to the regional) Not unique to the relative landscape		
Functions Wetlands serve functions such as improving water quality, replenishing the groundwater, flood and erosion control, and food and habitat for wildlife.			Mitigation for previous permit/other historic use No		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to) Fish, waterfowl and raptors (Order Anseriformes), large and small reptiles including alligators, snakes, and turtles (Class Reptilia), amphibians including frogs (Class Amphibia), butterflies and moths (Order Lepidoptera), wasps, bees, and ants (Order Hymenoptera)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the) American alligator (<i>Alligator mississippiensis</i>) - FT (S/A); Little blue heron (<i>Egretta caerulea</i>) - ST; Roseate spoonbill (<i>Platalea ajaja</i>) - ST; Tricolored heron (<i>Egretta tricolor</i>) - ST		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): No wildlife utilization observed for wetland 6, but wetland 18 showed presence of amphibians such as frogs (Class Amphibia) and foraging behavior by a Great egret (<i>Ardea alba</i>) and wetland 26 showed evidence of wildlife utilization including pig frogs (<i>Rana grylio</i>).					
Additional relevant factors:					
Assessment conducted by: James Fine, Katherine Lawlor, and Liliانا Sikes			Assessment date(s): 6/21,26,27/2024		

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

Site/Project Name FPID: 414506-1	Application Number	Assessment Area Name or Number Wetlands 6, 18, 26
Impact or Mitigation Secondary Impact	Assessment conducted by: James Fines, Katherine Lawlor, and Liliana Sikes	Assessment date: 6/21&27/2024

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) Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal (4) Minimal level of support of wetland/surface water functions	Not Present (0) Condition is insufficient to provide wetland/surface water functions
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.500(6)(a) Location and Landscape Support w/o pres or current 4 with 3	Wetlands are adjacent to SR 70 and a combination of cropland/pastureland, shrub and brushland, and residential low density with good connectivity to other habitats.
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current 4 with 3	These wetlands are located within a 100-year floodplain. These wetland systems are characterized as having water present throughout the growing season most years, with the water table near the land surface. Some petroleum from the road and fertilizer run-off from agricultural land could potentially cause algal blooms and water quality degradation.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current 4 with 3	Field Verified NWI - Riverine (R5UBHx) Field Verified FLUCFCS - Wetland Forested Mixed (630) Field observations for Wetland 6 & 26 include slow moving water. The wetland vegetation was dominated by herbaceous vegetation such as Spatterdock (<i>Nuphar advena</i>), Maidencane (<i>Hymenachne hemitomon</i>), Dogfennel (<i>Eupatorium capillifolium</i>), Peruvian primrose-willow (<i>Ludwigia peruviana</i>), Caesarweed (<i>Urena lobata</i>), Wild taro (<i>Colocasia esculenta</i>), Southern live oak (<i>Quercus virginiana</i>), Saw palmetto (<i>Serenoa repens</i>), and Beggarticks (<i>Bidens alba</i>). Field observations for Wetland 18 included flowing water. The wetland was dominated by herbaceous vegetation including Brazilian pepper (<i>Schinus terebinthifolia</i>) and Sword fern (<i>Polystichum munitum</i>).

Score = sum of above scores/30 (if uplands, divide by 20)
current or w/o pres 0.4 with 0.3

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres = -0.01

Delta = [with-current]
-0.1

If mitigation
Time lag (t-factor) =
Risk factor =

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

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

Site/Project Name FPID: 414506-1		Application Number		Assessment Area Name or Number WL-2, WL-3, WL-4, WL-5, WL-10, WL-12, WL-19, WL-21, WL-23, WL-27	
FLUCCs code 640-Vegetated Non-Forested Wetlands		Further classification (optional) PEM1A/C/F & R5UBFx		Impact or Mitigation Site? Permanent Impact	
				Assessment Area Size 2.45 acres	
Basin/Watershed Name/Number 30901011703 & 030901030301		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands All wetlands are adjacent to SR 70. Wetlands 2, 3, 4, 5, 10, 12 are near the middle of the project and Wetlands 19, 21, 23, and 27 are near the eastern end of the project. These wetlands are located within a 100-year floodplain except for except for Wetlands 4, 10, 12, 23, and 27. These wetland systems have low-high connectivity to other wetlands.					
Assessment area description Wetlands 2, 3, 4, 5, 10, and 12 were field verified as Freshwater Emergent Wetlands (PEM1F/PEM1A/PEM1C) and Wetlands 19, 21, 23, and 27 were field verified as Riverine (R5UBFx) by USFWS's NWI. All wetlands were field verified as Vegetated Non-Forested Wetlands (640) by FDOT's FLUCFCS.					
Significant nearby features These wetlands are surrounded by other open lands, shrub and brushland, upland mixed forest, cropland, pastureland, upland hardwood-coniferous mix, vegetated non-forested wetlands, and residential low density.			Uniqueness (considering the relative rarity in relation to the regional Not unique to relative landscape.		
Functions Wetlands serve functions such as improving water quality, replenishing the groundwater, flood and erosion control, and food and habitat for wildlife.			Mitigation for previous permit/other historic use No		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to Fish, waterfowl and raptors (Order Anseriformes), large and small reptiles including alligators, snakes, and turtles (Class Reptilia), amphibians including frogs (Class Amphibia), butterflies and moths (Order Lepidoptera), wasps, bees, and ants (Order Hymenoptera)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the American alligator (<i>Alligator mississippiensis</i>) - FT (S/A); Little blue heron (<i>Egretta caerulea</i>) - ST; Roseate spoonbill (<i>Platalea ajaja</i>) - ST; Tricolored heron (<i>Egretta tricolor</i>) - ST		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): Pig frogs (<i>Rana grylio</i>) were located at Wetland 27. No other wildlife utilization observed during field reconnaissance.					
Additional relevant factors:					
Assessment conducted by: James Fine, Katherine Lawlor, and Liliana Sikes			Assessment date(s): 6/19, 20, 25, & 26 /2024 and 7/1/2024		

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

Site/Project Name FPID: 414506-1	Application Number	Assessment Area Name or Number WL-2, WL-3, WL-4, WL-5, WL-10, WL-12, WL-19, WL-21, WL-23, WL-27
Impact or Mitigation Permanent Impact	Assessment conducted by: James Fine, Katherine Lawlor, and Liliana Sikes	Assessment date: 6/19, 20, 25, & 26 /2024 and 7/1/2024

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

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

.500(6)(a) Location and Landscape Support w/o pres or current 3 with 0	All wetlands are adjacent to SR 70. Wetlands 2, 3, 4, 5, 10, 12 are near the middle of the project and Wetlands 19, 21, 23, and 27 are near the eastern end of the project. These wetlands are surrounded by other open lands, shrub and brushland, upland mixed forest, cropland, pastureland, upland hardwood-coniferous mix, vegetated non-forested wetlands, and residential low density.
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current 2 with 0	These wetlands are located within a 100-year floodplain except for except for Wetlands 4, 10, 12, 23, and 27. These wetland systems have low-high connectivity to other wetlands. These wetland systems are characterized as having water present throughout the growing season most years, with the water table near the land surface. Some petroleum from the road and fertilizer run-off from agricultural land could potentially cause algal blooms and water quality degradation.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current 2 with 0	Field Verified NWI - Freshwater Emergent Wetlands (PEM1F/PEM1A/PEM1C) and Riverine (R5UBFx) Field Verified FLUCFCS - Vegetated Non-Forested Wetland (640) Field observations include slow moving water. These wetlands are dominated by vegetation such as Maidencane (<i>Hymenachne hemitomom</i>), Mud flower (<i>Micranthemum</i>), Caesarweed (<i>Urena lobata</i>), Creeping primrose-willow (<i>Ludwigia repens</i>), Mexican primrose-willow (<i>Ludwigia octavalis</i>), Southern live oak (<i>Quercus virginiana</i>), Beggarticks (<i>Bidens alba</i>), Lanceleaf arrowhead (<i>Sagittaria lancifolia</i>), Rush (<i>Juncus spp.</i>), Brazilian pepper (<i>Schinus terebinthfolia</i>), Common water-hyacinth (<i>Eichhornia crassipes</i>), Water spangles (<i>Salvinia minima</i>), Willow (<i>Salix L. spp.</i>), Tuberous sword fern (<i>Nephrolepis cordifolia</i>), Sword fern (<i>Nephrolepis exaltata</i>), Wild taro (<i>Colocasia esculenta</i>), Peruvian primrose-willow (<i>Ludwigia peruviana</i>), and Toothed midsorus fern (<i>Telmatoblechnum serrulatum</i>).

Score = sum of above scores/30 (if uplands, divide by 20)
current or w/o pres 0.24 with 0

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres = -0.59

Delta = [with-current]
-0.24

If mitigation
Time lag (t-factor) =
Risk factor =

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

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

Site/Project Name FPID: 414506-1		Application Number		Assessment Area Name or Number WL-2, WL-3, WL-4, WL-5, WL-10, WL-12, WL-19, WL-21, WL-23, WL-27	
FLUCCs code 640-Vegetated Non-Forested Wetlands		Further classification (optional) PEM1A/C/F & R5UBFx		Impact or Mitigation Site? Secondary Impact	
				Assessment Area Size 0.18 acre	
Basin/Watershed Name/Number 30901011703 & 030901030301		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands All wetlands are adjacent to SR 70. Wetlands 2, 3, 4, 5, 10, 12 are near the middle of the project and Wetlands 19, 21, 23, and 27 are near the eastern end of the project. These wetlands are located within a 100-year floodplain except for except for Wetlands 4, 10, 12, 23, and 27. These wetland systems have low-high connectivity to other wetlands.					
Assessment area description Wetlands 2, 3, 4, 5, 10, and 12 were field verified as Freshwater Emergent Wetlands (PEM1F/PEM1A/PEM1C) and Wetlands 19, 21, 23, and 27 were field verified as Riverine (R5UBFx) by USFWS's NWI. All wetlands were field verified as Vegetated Non-Forested Wetlands (640) by FDOT's FLUCFCS.					
Significant nearby features These wetlands are surrounded by other open lands, shrub and brushland, upland mixed forest, cropland, pastureland, upland hardwood-coniferous mix, vegetated non-forested wetlands, and residential low density.			Uniqueness (considering the relative rarity in relation to the regional Not unique to relative landscape.		
Functions Wetlands serve functions such as improving water quality, replenishing the groundwater, flood and erosion control, and food and habitat for wildlife.			Mitigation for previous permit/other historic use No		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to Fish, waterfowl and raptors (Order Anseriformes), large and small reptiles including alligators, snakes, and turtles (Class Reptilia), amphibians including frogs (Class Amphibia), butterflies and moths (Order Lepidoptera), wasps, bees, and ants (Order Hymenoptera)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the American alligator (<i>Alligator mississippiensis</i>) - FT (S/A); Little blue heron (<i>Egretta caerulea</i>) - ST; Roseate spoonbill (<i>Platalea ajaja</i>) - ST; Tricolored heron (<i>Egretta tricolor</i>) - ST		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): Pig frogs (<i>Rana grylio</i>) were located at Wetland 27. No other wildlife utilization observed during field reconnaissance.					
Additional relevant factors:					
Assessment conducted by: James Fine, Katherine Lawlor, and Liliana Sikes			Assessment date(s): 6/19, 20, 25, & 26 /2024 and 7/1/2024		

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

Site/Project Name FPID: 414506-1	Application Number	Assessment Area Name or Number WL-2, WL-3, WL-4, WL-5, WL-10, WL-12, WL-19, WL-21, WL-23, WL-27
Impact or Mitigation Secondary Impact	Assessment conducted by: James Fine, Katherine Lawlor, and Liliana Sikes	Assessment date: 6/19, 20, 25, & 26 /2024 and 7/1/2024

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

.500(6)(a) Location and Landscape Support w/o pres or current 3 with 2	All wetlands are adjacent to SR 70. Wetlands 2, 3, 4, 5, 10, 12 are near the middle of the project and Wetlands 19, 21, 23, and 27 are near the eastern end of the project. These wetlands are surrounded by other open lands, shrub and brushland, upland mixed forest, cropland, pastureland, upland hardwood-coniferous mix, vegetated non-forested wetlands, and residential low density.
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current 2 with 1	These wetlands are located within a 100-year floodplain except for except for Wetlands 4, 10, 12, 23, and 27. These wetland systems have low-high connectivity to other wetlands. These wetland systems are characterized as having water present throughout the growing season most years, with the water table near the land surface. Some petroleum from the road and fertilizer run-off from agricultural land could potentially cause algal blooms and water quality degradation.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current 2 with 1	Field Verified NWI - Freshwater Emergent Wetlands (PEM1F/PEM1A/PEM1C) and Riverine (R5UBFx) Field Verified FLUCFCS - Vegetated Non-Forested Wetland (640) Field observations include slow moving water. These wetlands are dominated by vegetation such as Maidencane (<i>Hymenachne hemitomom</i>), Mud flower (<i>Micranthemum</i>), Caesarweed (<i>Urena lobata</i>), Creeping primrose-willow (<i>Ludwigia repens</i>), Mexican primrose-willow (<i>Ludwigia octavalis</i>), Southern live oak (<i>Quercus virginiana</i>), Beggarticks (<i>Bidens alba</i>), Lanceleaf arrowhead (<i>Sagittaria lancifolia</i>), Rush (<i>Juncus spp.</i>), Brazilian pepper (<i>Schinus terebinthfolia</i>), Common water-hyacinth (<i>Eichhornia crassipes</i>), Water spangles (<i>Salvinia minima</i>), Willow (<i>Salix L. spp.</i>), Tuberous sword fern (<i>Nephrolepis cordifolia</i>), Sword fern (<i>Nephrolepis exaltata</i>), Wild taro (<i>Colocasia esculenta</i>), Peruvian primrose-willow (<i>Ludwigia peruviana</i>), and Toothed midsorus fern (<i>Telmatoblechnum serrulatum</i>).

Score = sum of above scores/30 (if uplands, divide by 20)
current or w/o pres 0.24 with 0.14

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres = -0.02

Delta = [with-current]
-0.1

If mitigation
Time lag (t-factor) =
Risk factor =

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

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

Site/Project Name FPID: 414506-1		Application Number		Assessment Area Name or Number WL-11, WL-14, WL-15, WL-17, WL-24, WL-25	
FLUCCs code 641-Freshwater Marshes		Further classification (optional) PEM1C, PEM1Ad, PEM1A, R5UBFx		Impact or Mitigation Site? Permanent Impact	
				Assessment Area Size 1.67	
Basin/Watershed Name/Number 30901011703 & 030901030301		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands These wetlands are located adjacent to SR 70 with Wetland 11, 14, 15, 17 near the middle of the project and Wetlands 24 and 25 towards the eastern end of the project. These wetlands, with the exception of Wetlands 24 & 25, are located within a 100-year floodplain and have low-moderate connectivity to other wetlands.					
Assessment area description Wetlands 11, 14, 15, 17 were field verified as a Freshwater Emergent Wetland (PEM1C, PEM1Ad, PEM1A) and Wetlands 24 & 25 were field verified as Riverine (R5UBFx) by USFWS's NWI. All were field verified as Vegetated Non-Forested Wetlands - Freshwater Marshes (641) by FDOT's FLUCFCS.					
Significant nearby features These wetlands are surrounded by upland mixed forests, industrial land, tree crops, open land, residential low density, pastures, and shrub and cropland.				Uniqueness (considering the relative rarity in relation to the regional Not unique to relative landscape.	
Functions Wetlands serve functions such as improving water quality, replenishing the groundwater, flood and erosion control, and food and habitat for wildlife.				Mitigation for previous permit/other historic use No	
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to Fish, waterfowl and raptors (Order Anseriformes), large and small reptiles including alligators, snakes, and turtles (Class Reptilia), amphibians including frogs (Class Amphibia), butterflies and moths (Order Lepidoptera), wasps, bees, and ants (Order Hymenoptera)				Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the American alligator (<i>Alligator mississippiensis</i>) - FT (S/A); Little blue heron (<i>Egretta caerulea</i>) - ST; Roseate spoonbill (<i>Platalea ajaja</i>) - ST; Tricolored heron (<i>Egretta tricolor</i>) - ST	
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): Pig frogs (<i>Rana grylio</i>) were observed at WL-24. No other wildlife utilization observed during field reconnaissance.					
Additional relevant factors:					
Assessment conducted by: James Fine, Katherine Lawlor, and Liliana Sikes				Assessment date(s): 6/18, 19, 25, & 26/2025	

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

Site/Project Name FPID: 414506-1	Application Number	Assessment Area Name or Number WL-11, WL-14, WL-15, WL-17, WL-24, WL-25
Impact or Mitigation Permanent Impact	Assessment conducted by: James Fine, Katherine Lawlor, and Liliana Sikes	Assessment date: 6/18, 19, 25, & 26/2025

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

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

.500(6)(a) Location and Landscape Support w/o pres or current 4 with 0	These wetlands are located adjacent to SR 70 with Wetland 11, 14, 15, 17 near the middle of the project and Wetlands 24 and 25 towards the eastern end of the project. These wetlands are surrounded by upland mixed forests, industrial land, tree crops, open land, residential low density, pastures, and shrub and cropland.
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current 4 with 0	These wetlands, with the exception of Wetlands 24 & 25, are located within a 100-year floodplain and have low-moderate connectivity to other wetlands. These wetland systems are characterized as having water present throughout the growing season most years, with the water table near the land surface. Some petroleum from the road and fertilizer run-off from agricultural land could potentially cause algal blooms and water quality degradation.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current 3.5 with 0	Field Verified NWI - Freshwater Emergent Wetland (PEM1C, PEM1Ad, PEM1A) & Riverine (R5UBFx) Field Verified FLUCFCS - Freshwater Marshes (641) This wetland is dominated by vegetation such as Primrosewillow (<i>Ludwigia spp.</i>), Maidencane (<i>Hymenachne hemitomom</i>), Royal fern (<i>Osmunda regalis</i>), Caesarsweed (<i>Urena lobata</i>), Cattail (<i>Typha latifolia</i>), Willow (<i>Salix spp.</i>), Goldenclub (<i>Orontium aquaticum</i>), Brazilian pepper (<i>Schinus terebinthifolia</i>), Knotted spikerush (<i>Eleocharis interstincta</i>), and Dogfennel (<i>Eupatorium capillifolium</i>).

Score = sum of above scores/30 (if uplands, divide by 20)
current or w/o pres 0.39 with 0

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres = -0.66

Delta = [with-current]
-0.39

If mitigation
Time lag (t-factor) =
Risk factor =

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

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

Site/Project Name FPID: 414506-1		Application Number		Assessment Area Name or Number WL-11, WL-14, WL-15, WL-17, WL-24, WL-25	
FLUCCs code 641-Freshwater Marshes		Further classification (optional) PEM1C, PEM1Ad, PEM1A, R5UBFx		Impact or Mitigation Site? Secondary Impact	
				Assessment Area Size 0.3	
Basin/Watershed Name/Number 30901011703 & 030901030301		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands These wetlands are located adjacent to SR 70 with Wetland 11, 14, 15, 17 near the middle of the project and Wetlands 24 and 25 towards the eastern end of the project. These wetlands, with the exception of Wetlands 24 & 25, are located within a 100-year floodplain and have low-moderate connectivity to other wetlands.					
Assessment area description Wetlands 11, 14, 15, 17 were field verified as a Freshwater Emergent Wetland (PEM1C, PEM1Ad, PEM1A) and Wetlands 24 & 25 were field verified as Riverine (R5UBFx) by USFWS's NWI. All were field verified as Vegetated Non-Forested Wetlands - Freshwater Marshes (641) by FDOT's FLUCFCS.					
Significant nearby features These wetlands are surrounded by upland mixed forests, industrial land, tree crops, open land, residential low density, pastures, and shrub and cropland.				Uniqueness (considering the relative rarity in relation to the regional Not unique to relative landscape.	
Functions Wetlands serve functions such as improving water quality, replenishing the groundwater, flood and erosion control, and food and habitat for wildlife.				Mitigation for previous permit/other historic use No	
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to Fish, waterfowl and raptors (Order Anseriformes), large and small reptiles including alligators, snakes, and turtles (Class Reptilia), amphibians including frogs (Class Amphibia), butterflies and moths (Order Lepidoptera), wasps, bees, and ants (Order Hymenoptera)				Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the American alligator (<i>Alligator mississippiensis</i>) - FT (S/A); Little blue heron (<i>Egretta caerulea</i>) - ST; Roseate spoonbill (<i>Platalea ajaja</i>) - ST; Tricolored heron (<i>Egretta tricolor</i>) - ST	
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): Pig frogs (<i>Rana grylio</i>) were observed at WL-24. No other wildlife utilization observed during field reconnaissance.					
Additional relevant factors:					
Assessment conducted by: James Fine, Katherine Lawlor, and Liliana Sikes				Assessment date(s): 6/18, 19, 25, & 26/2025	

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

Site/Project Name FPID: 414506-1	Application Number	Assessment Area Name or Number WL-11, WL-14, WL-15, WL-17, WL-24, WL-25
Impact or Mitigation Secondary Impact	Assessment conducted by: James Fine, Katherine Lawlor, and Liliana Sikes	Assessment date: 6/18, 19, 25, & 26/2025

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

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

.500(6)(a) Location and Landscape Support w/o pres or current with 4 3	These wetlands are located adjacent to SR 70 with Wetland 11, 14, 15, 17 near the middle of the project and Wetlands 24 and 25 towards the eastern end of the project. These wetlands are surrounded by upland mixed forests, industrial land, tree crops, open land, residential low density, pastures, and shrub and cropland.
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 4 3	These wetlands, with the exception of Wetlands 24 & 25, are located within a 100-year floodplain and have low-moderate connectivity to other wetlands. These wetland systems are characterized as having water present throughout the growing season most years, with the water table near the land surface. Some petroleum from the road and fertilizer run-off from agricultural land could potentially cause algal blooms and water quality degradation.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 3.5 2.5	Field Verified NWI - Freshwater Emergent Wetland (PEM1C, PEM1Ad, PEM1A) & Riverine (R5UBFx) Field Verified FLUCFCS - Freshwater Marshes (641) This wetland is dominated by vegetation such as Primrosewillow (<i>Ludwigia spp.</i>), Maidencane (<i>Hymenachne hemitomom</i>), Royal fern (<i>Osmunda regalis</i>), Caesarsweed (<i>Urena lobata</i>), Cattail (<i>Typha latifolia</i>), Willow (<i>Salix spp.</i>), Goldenclub (<i>Orontium aquaticum</i>), Brazilianian pepper (<i>Schinus terebinthifolia</i>), Knotted spikerush (<i>Eleocharis interstincta</i>), and Dogfennel (<i>Eupatorium capillifolium</i>).

Score = sum of above scores/30 (if uplands, divide by 20)
current with
or w/o pres with
0.39 0.29

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres = -0.03

Delta = [with-current]
-0.1

If mitigation
Time lag (t-factor) =
Risk factor =

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