Lower Green Swamp Preserve

Hydrologic Restoration Project

Presented by

Scott Emery, Ph.D. Wetlands Director EPCHC

and

Ross Dickerson, Environmental Lands Manager HCCELM

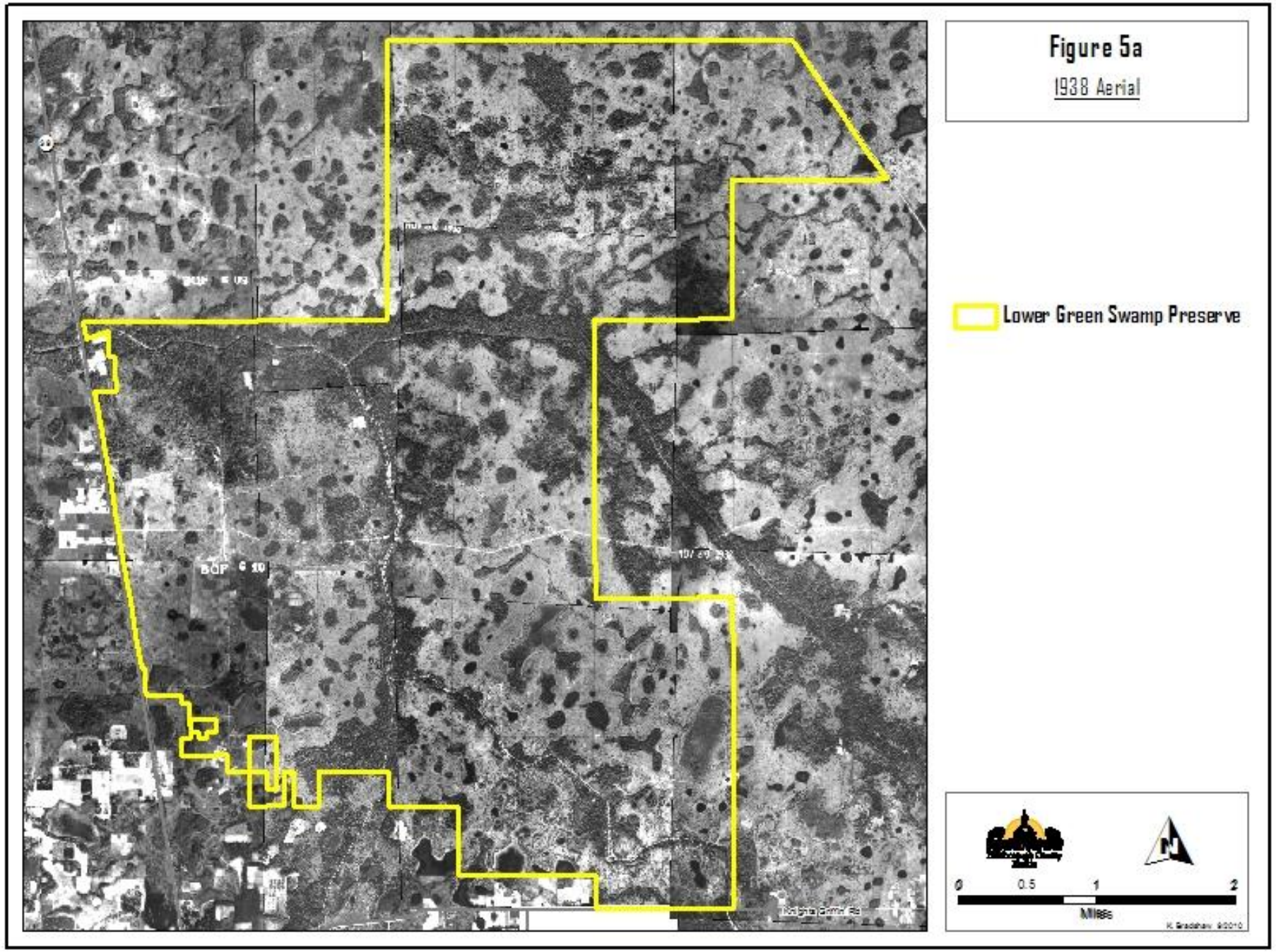
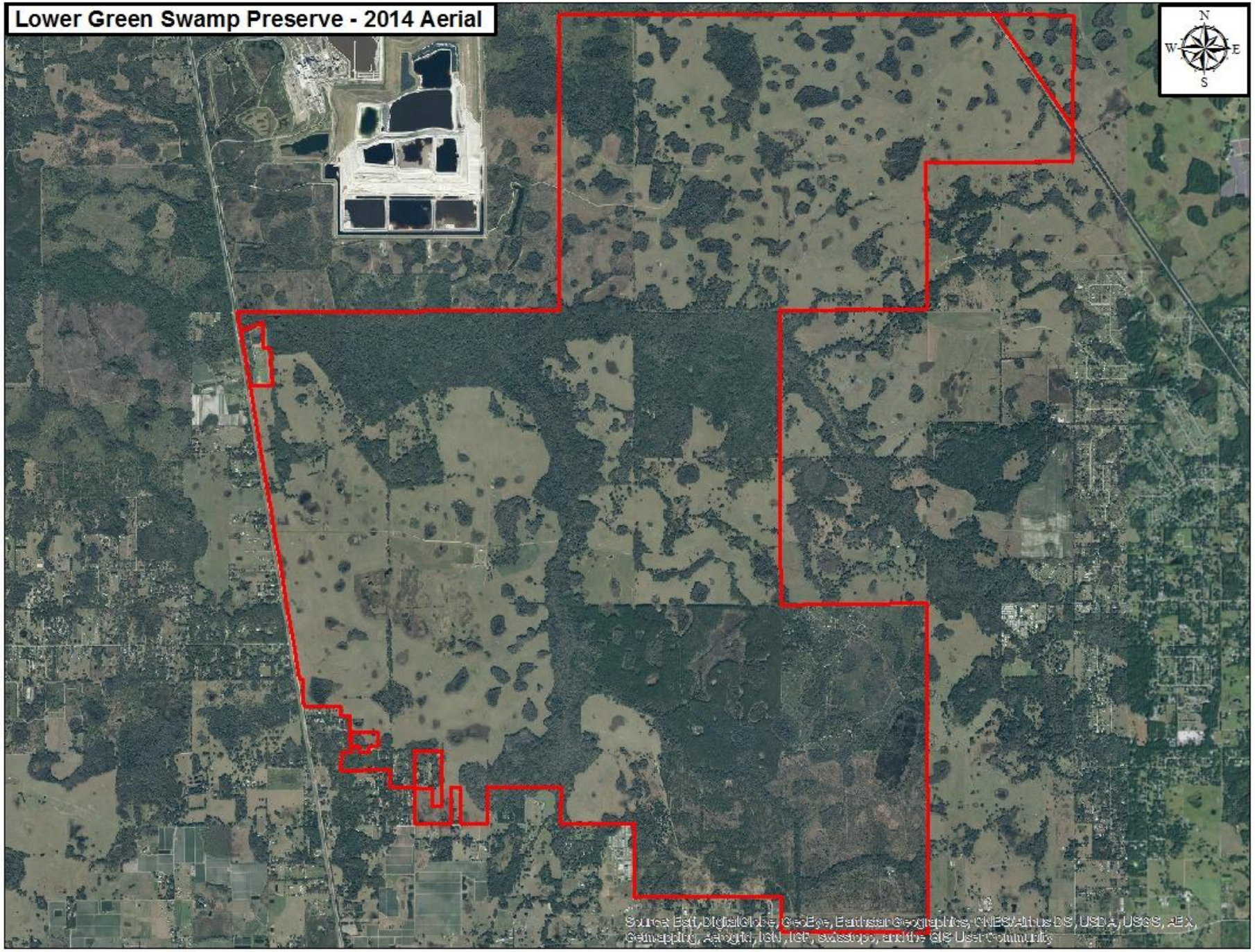


Figure 5a
1938 Aerial
Lower Green Swamp Preserve
0
0.5
1
2
Miles


Lower Green Swamp Preserve - 2014 Aerial
N
W
E
S
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

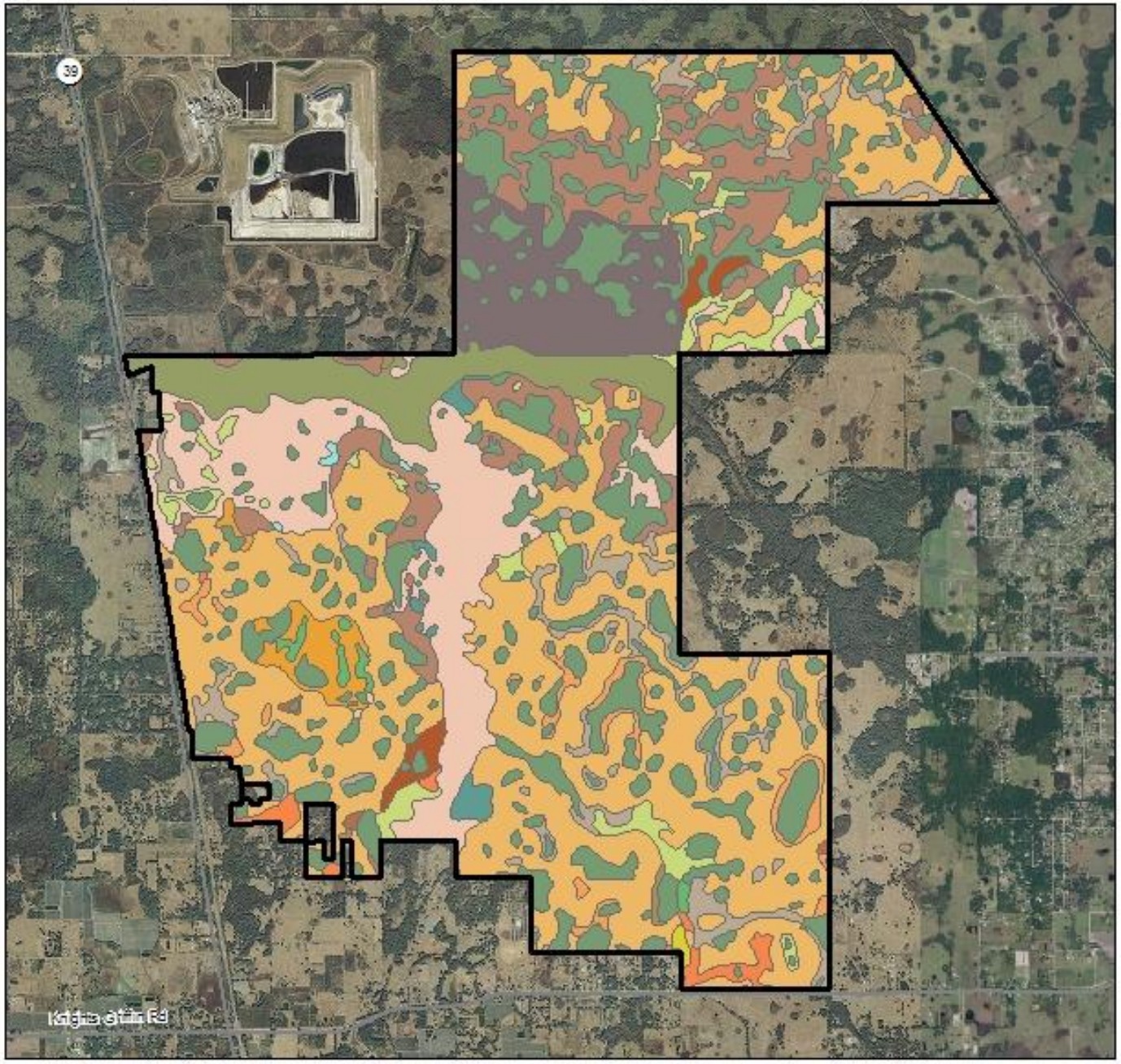


Figure 6

Soils

Legend

Lower Green Swamp Preserve

Xeric

- Candler, 007
- Gainesville, 019
- Orlando, 035
- Zolfo, 051

Mesic

- Adamsville, 001
- Eaton, 018
- Immokalee, 011
- Malabar, 017
- Myakka, 019
- Ona, 033
- Paisley, 037
- Seffner, 047
- Smyrna, 051
- St. Johns, 049
- Wabasso, 057
- Winder, 059

Hydric

- Basinger, depressional, 005
- Chobee, loamy fs, 010
- Chobee, sandy loam, 011
- Eaton, depressional, 014
- Felda, 015
- Floridana, 017

Other

- Arents, nearly level, 004

0 1 Miles

K. Bradshaw 6/2010

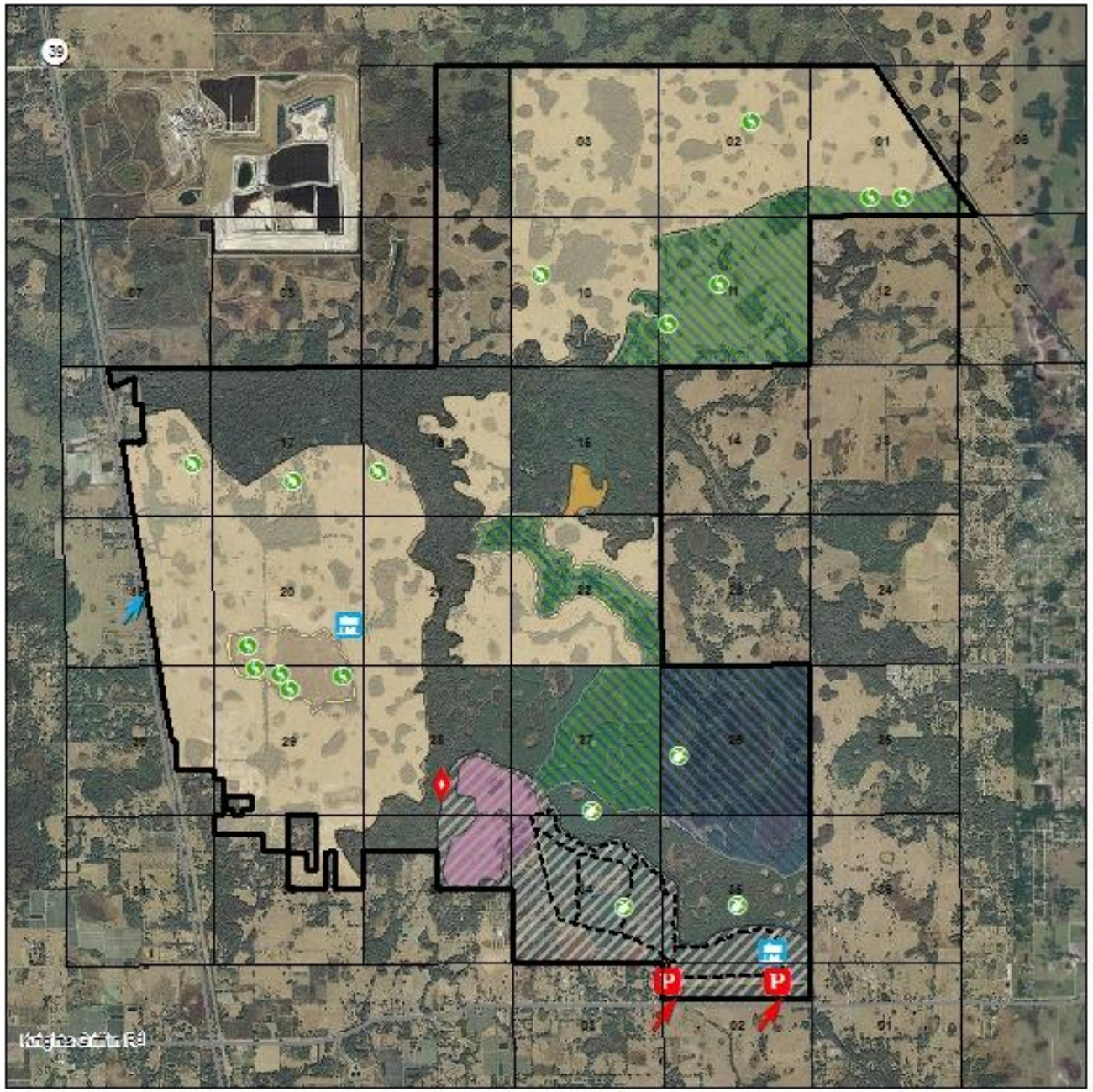


Figure 8

Projected Configuration In 2025

Legend

- Lower Green Swamp Preserve
- Major Roads
- Hiking Trails
- Public Access
- Public Parking
- Resident
- Ranch Access
- Derelict Bridge
- Public Access Area
- Fox Squirrel Habitat
- Gopher Tortoise Habitat
- Rookery

Planned Uses

- Cattle Ranching/Sod
- Wetland Mitigation Bank
- Stream Mitigation Bank/Hardwoods
- Native Range/Palmetto Area
- Native Plant Nursery
- Pilot Hardwood Tree Program
- Wildflowers and Honey

0 1 2
Miles

K. Bradshaw 6/2010

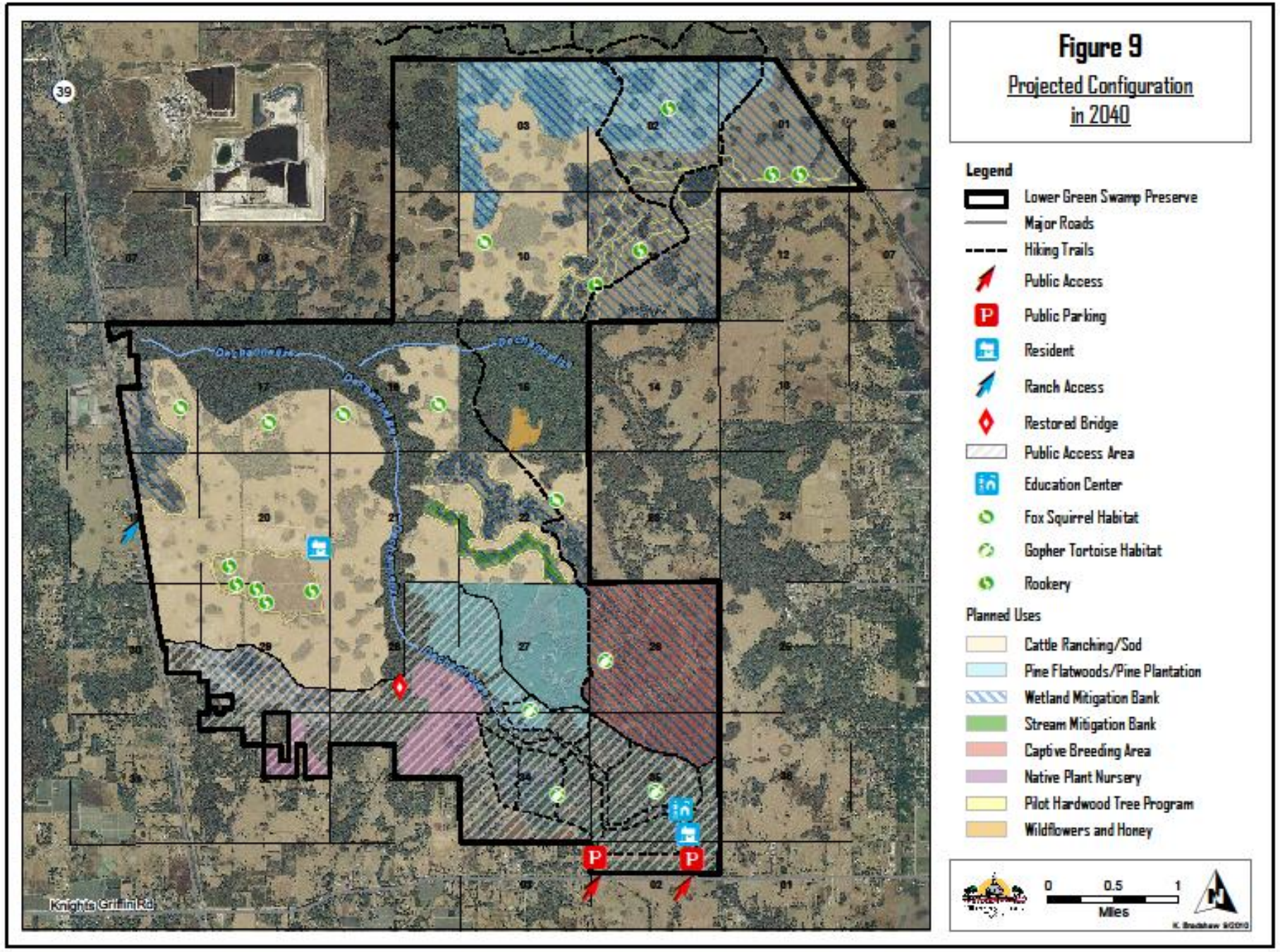


Figure 9
Projected Configuration in 2040
Legend
Lower Green Swamp Preserve
Major Roads
Hiking Trails
Public Access
Public Parking
Resident
Ranch Access
Restored Bridge
Public Access Area
Education Center
Fox Squirrel Habitat
Gopher Tortoise Habitat
Rookery
Planned Uses
Cattle Ranching/Sod
Pine Flatwoods/Pine Plantation
Wetland Mitigation Bank
Stream Mitigation Bank
Captive Breeding Area
Native Plant Nursery
Pilot Hardwood Tree Program
Wildflowers and Honey
0
0.5
1
Miles
Knights Griffin Rd
39

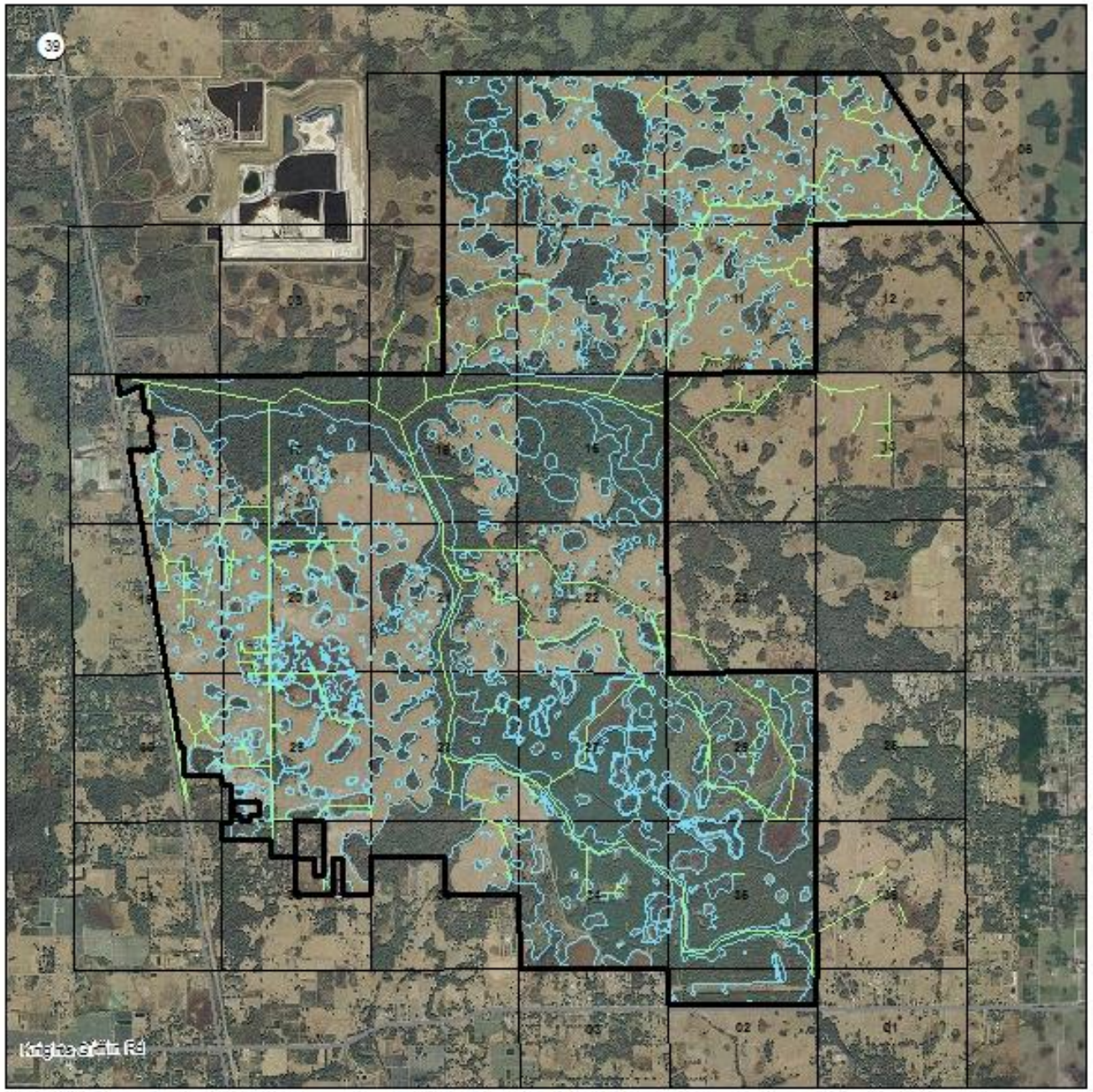


Figure 10

Significant Wetlands and Ditches

Legend

- Lower Green Swamp Preserve
- Ditches
- Significant Wetlands
- Major Roads

0 1 2

Miles

K. Bradshaw 6/2010

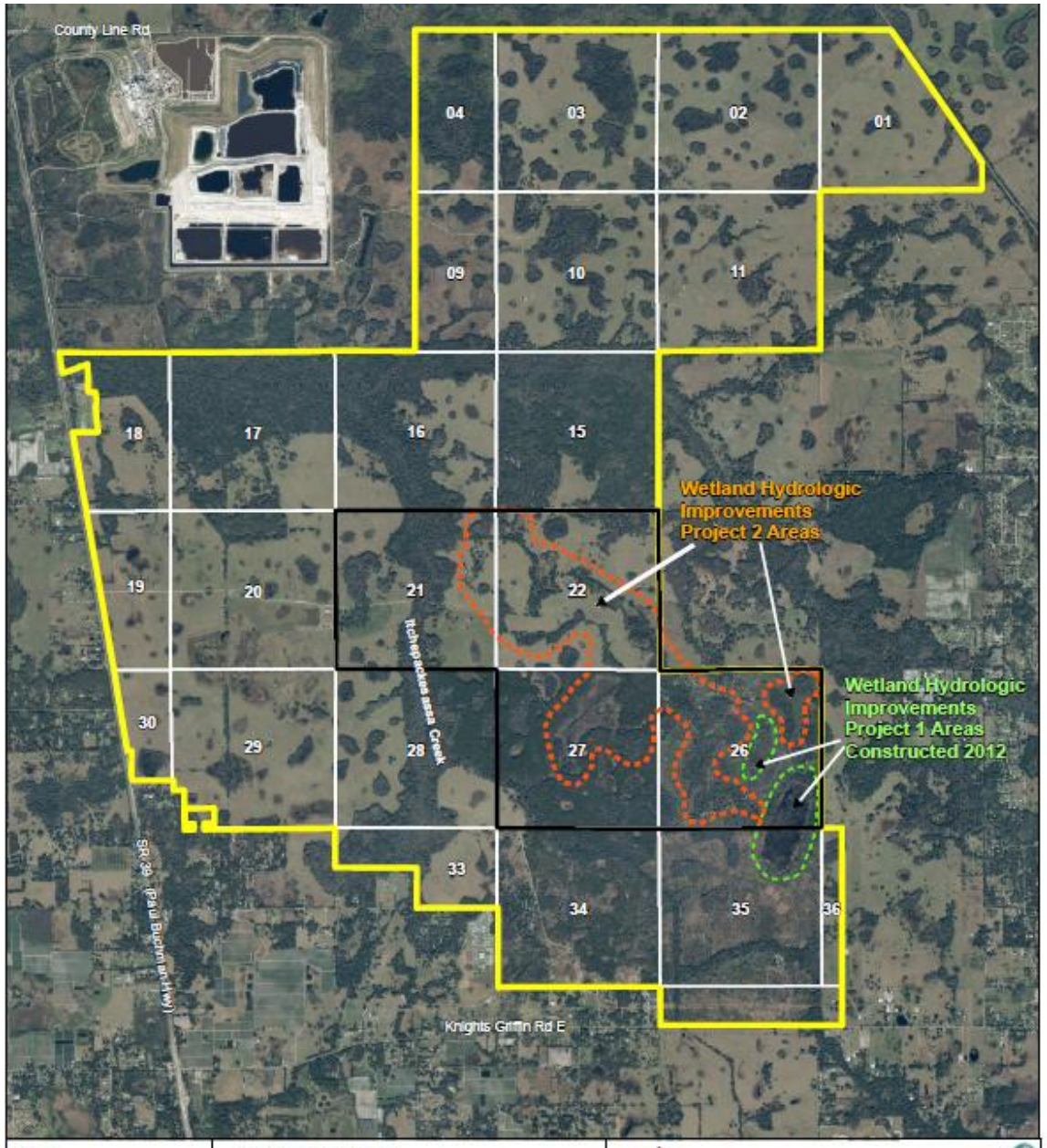
Wetland Restoration Projects 1 and 2

Purpose:

1. Direct water flow into historic tributaries
2. Increase extent and hydro period of historic wetlands
3. Restore hydrology as a whole to help identify mesic and xeric communities for restoration.

Proposed Techniques:

1. Replace failing culverts
2. Raise or partially fill culverts
3. Ditch blocks
4. Wet crossings



Notes:

1- Project No.: 600099.2
2- Data Sources - Hillsborough County
3- This map is intended to be used for planning purposes only. It is not a survey.

Date: Dec 12, 2014
Prepared By: JG
Checked By:

Explanation of Features

N

Parcel Boundary

PLSS Section

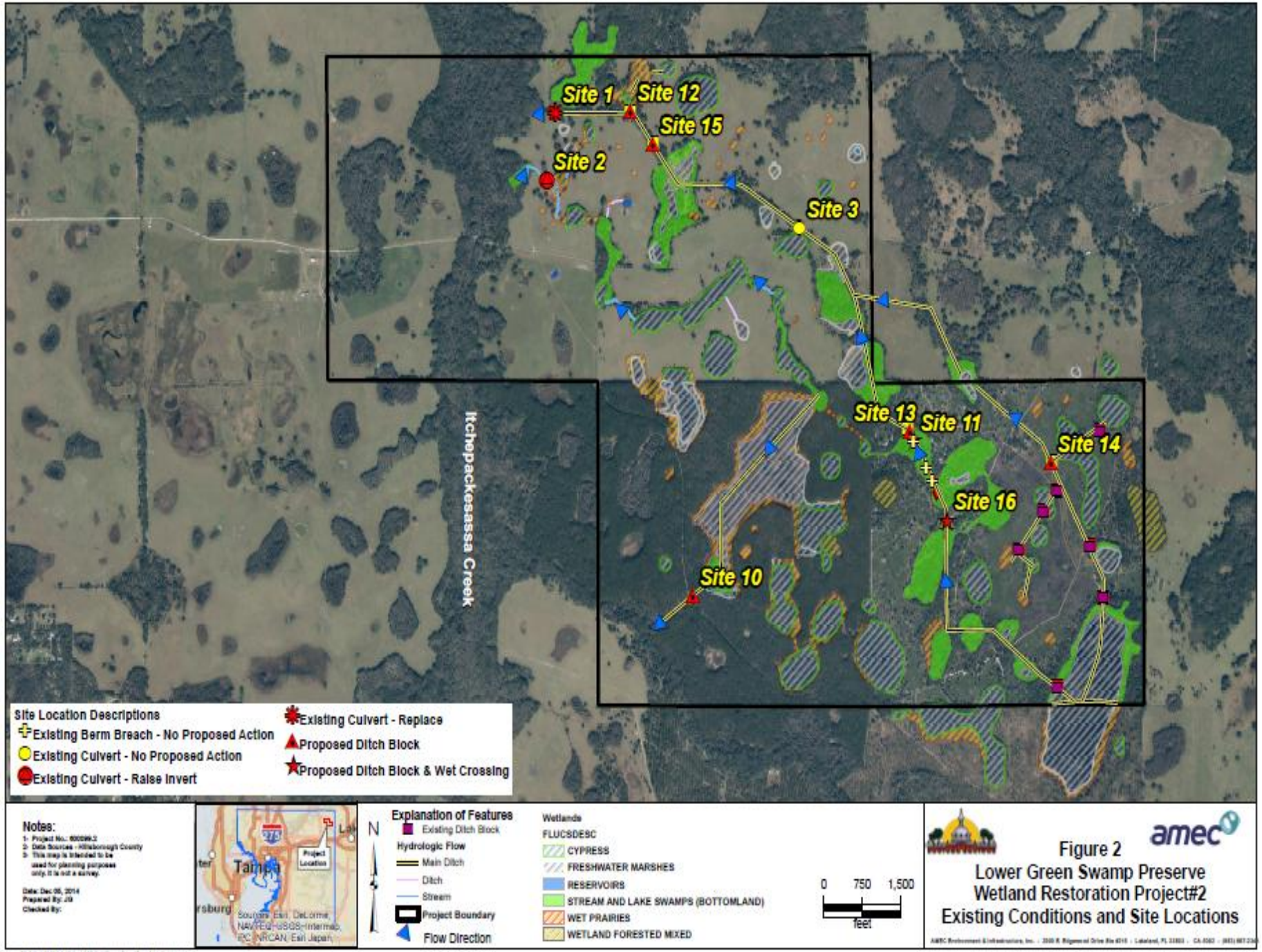
Project Boundary

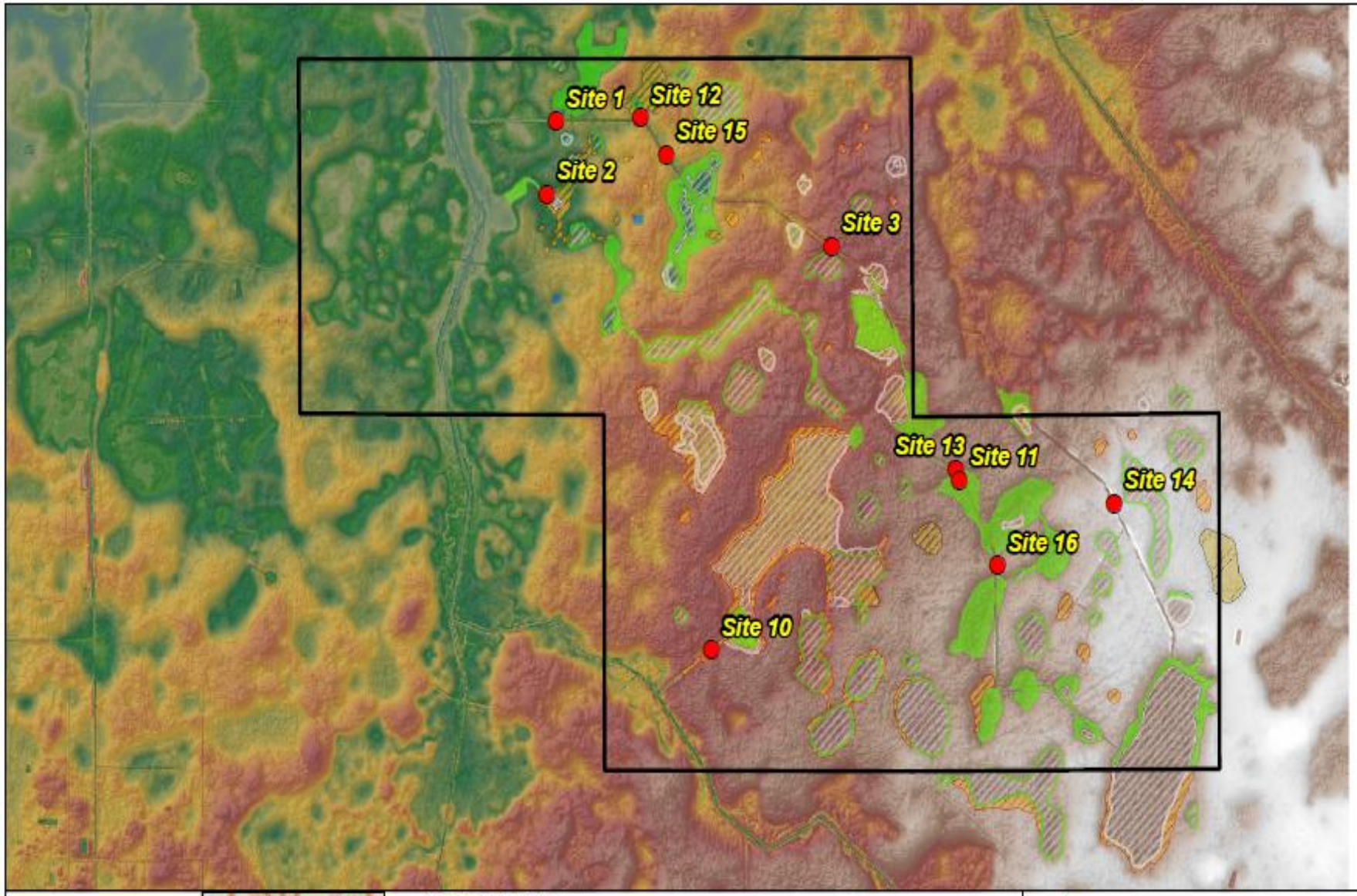
0 0.5 1
Miles

amec

Figure 1
Lower Green Swamp Preserve
Location Map

LGSP - Ditch Block Locations
N
W
E
S
Ditch Block 1
Ditch Block 2
Ditch Block 3
Ditch Block 4
Ditch Block 5


Site 1
Site 12
Site 15
Site 2
Site 3
Site 13
Site 11
Site 14
Site 16
Site 10
Itchepackesassa Creek
Site Location Descriptions
Existing Berm Breach - No Proposed Action
Existing Culvert - No Proposed Action
Existing Culvert - Raise Invert
Existing Culvert - Replace
Proposed Ditch Block
Proposed Ditch Block & Wet Crossing
Notes:
1- Project No.: 600099.2
2- Data Sources - Hillsborough County
3- This map is intended to be used for planning purposes only. It is not a survey.
Date: Dec 08, 2014
Prepared By: JB
Checked By:
Project Location
Tampa
Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, INCREMENT P, NRCAN, Esri Japan
N
Explanation of Features
Existing Ditch Block
Hydrologic Flow
Main Ditch
Ditch
Stream
Project Boundary
Flow Direction
Wetlands
FLUCSDESC
CYPRESS
FRESHWATER MARSHES
RESERVOIRS
STREAM AND LAKE SWAMPS (BOTTOMLAND)
WET PRAIRIES
WETLAND FORESTED MIXED
0 750 1,500
feet
amec
Figure 2
Lower Green Swamp Preserve
Wetland Restoration Project#2
Existing Conditions and Site Locations



Notes:
1- Project No.: 600096.2
2- Data Sources - Hillsborough County & SWFWMD
3- This map is intended to be used for planning purposes only. It is not a survey.

Date: Dec 08, 2014
Prepared By: JB
Checked By:

N

Explanation of Features

Wetlands
FLUCSDESC
CYPRESS
FRESHWATER MARSHES
Project Boundary

SiteLocation
RESERVOIRS
STREAM AND LAKE SWAMPS (BOTTOMLAND)
WET PRAIRIES
WETLAND FORESTED MIXED

DEM
ft, NAVD
High : 115.857
Low : 80.6361

0 750 1,500
feet

amec

Figure 3
Lower Green Swamp Preserve
Wetland Restoration Project#2
Topographic Map

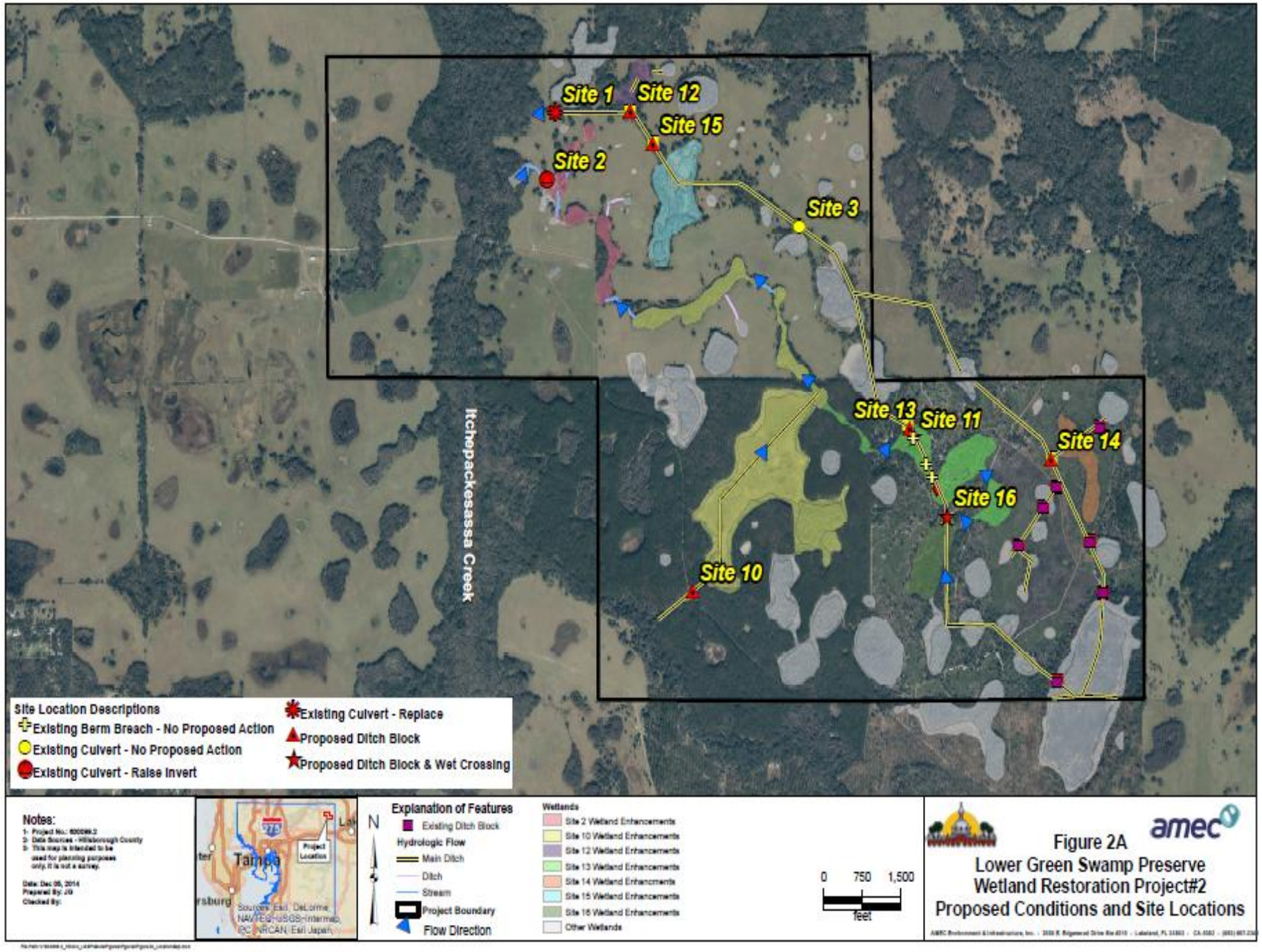
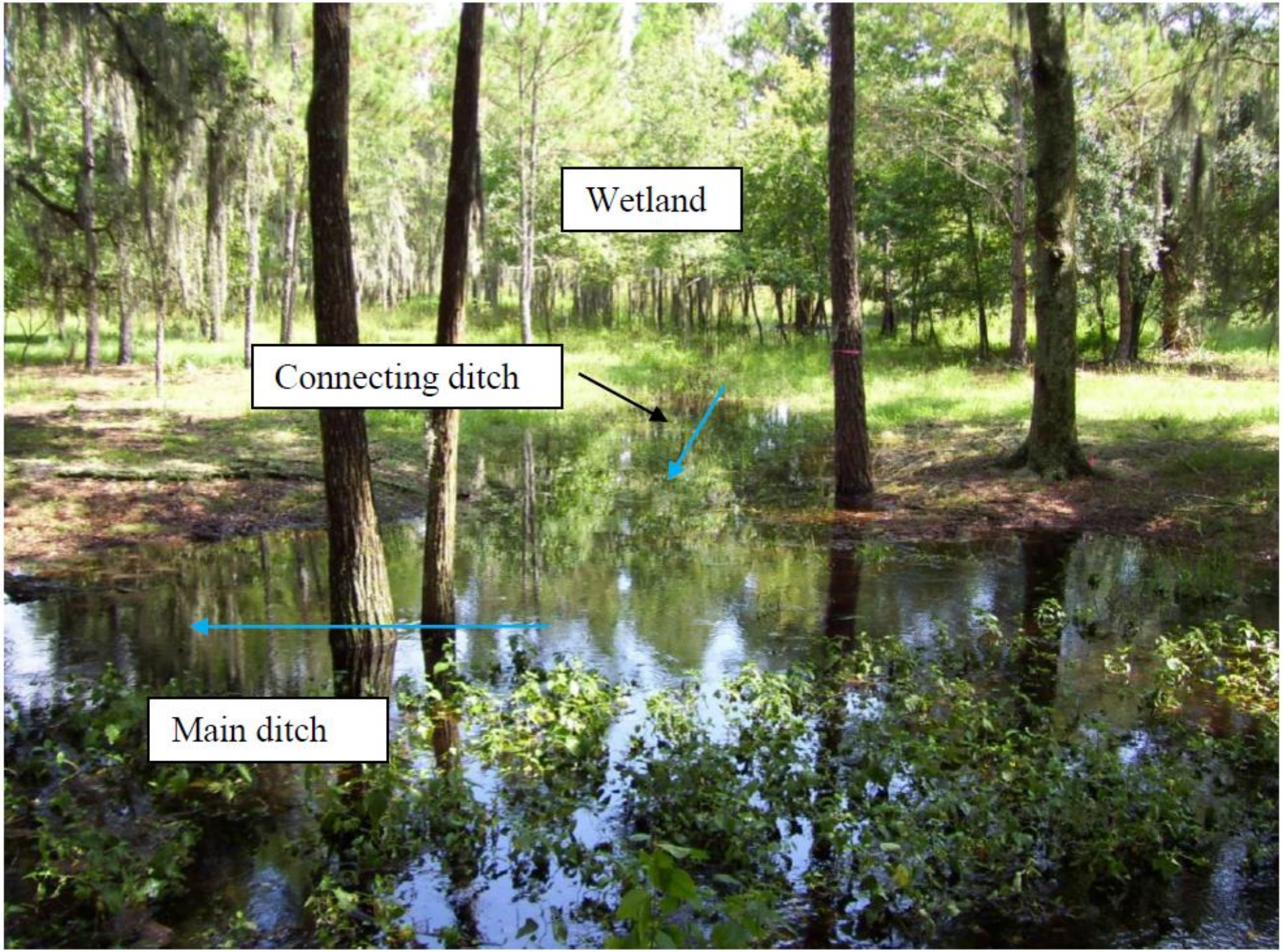
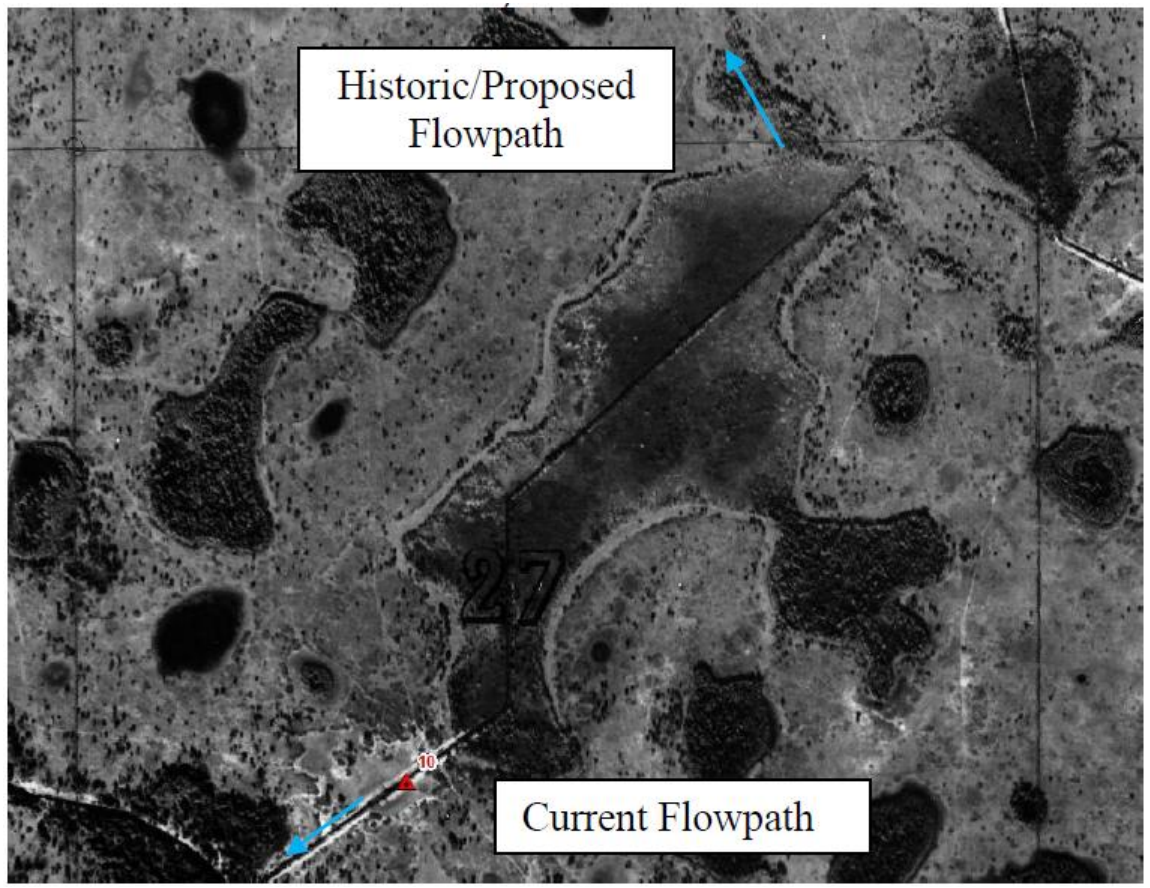


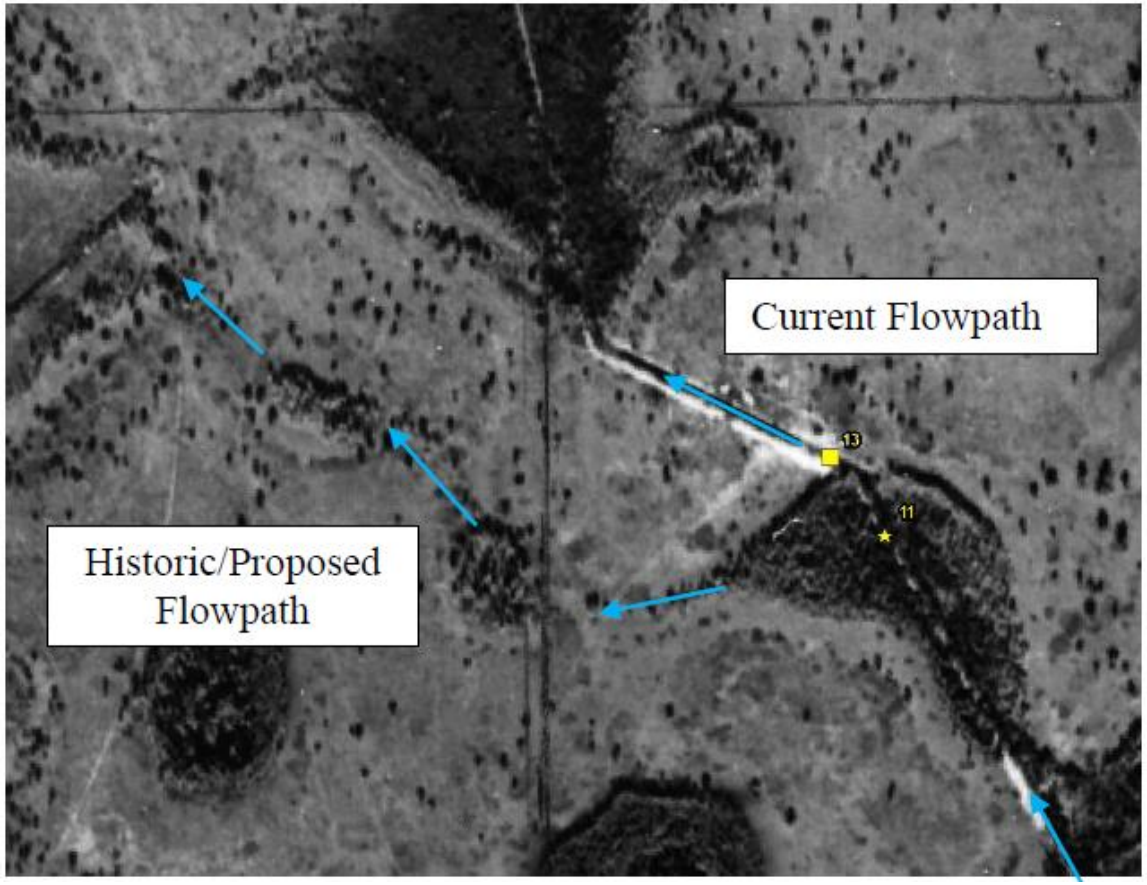
Figure 2A
Lower Green Swamp Preserve
Wetland Restoration Project#2
Proposed Conditions and Site Locations

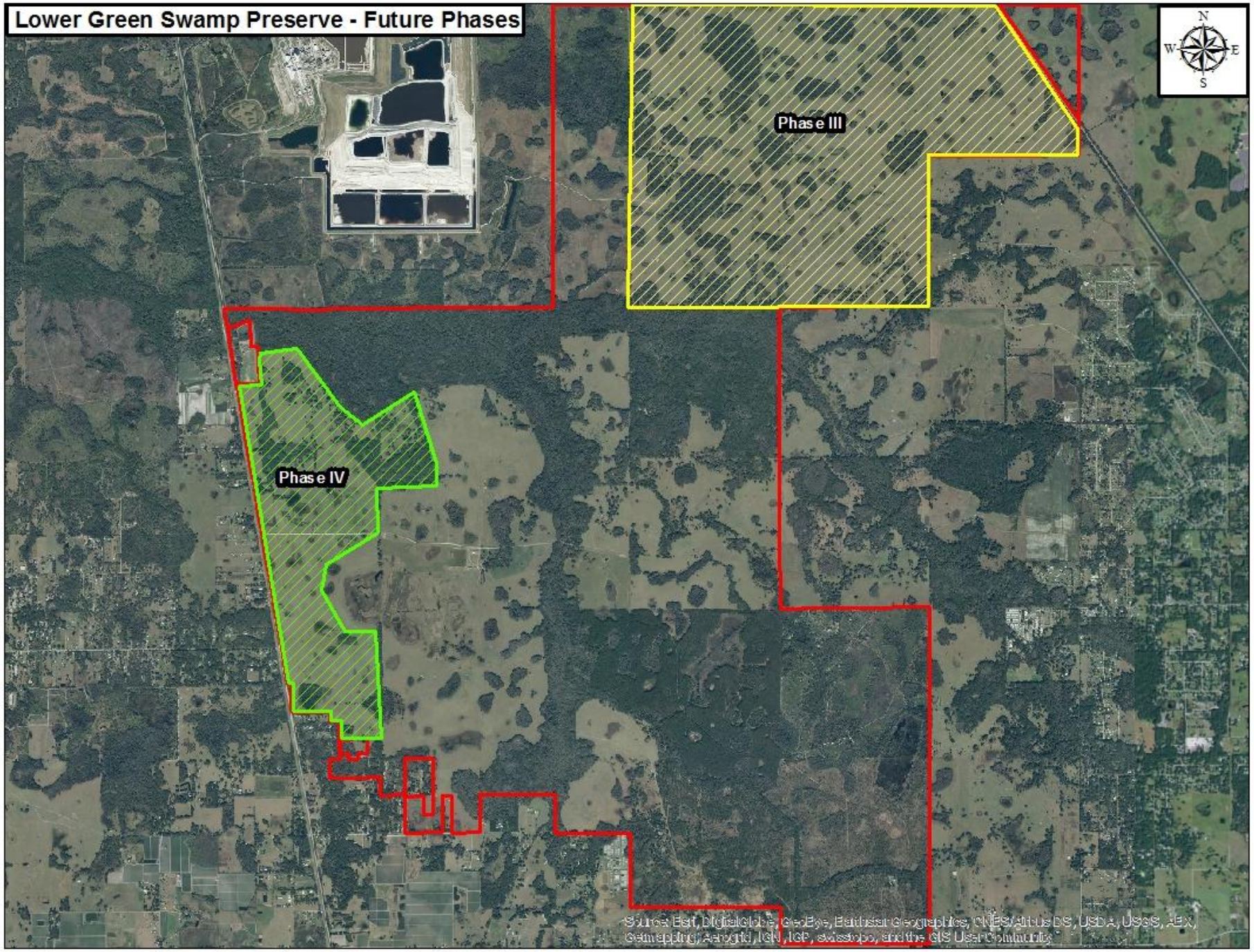

Wetland
Connecting ditch
Main ditch

Site 16



Sites 11 and 13




Lower Green Swamp Preserve - Future Phases
Phase III
Phase IV
N
W
E
S
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Questions?