McCarty Woods Recovery

Request: Overview

- Monthly work parties to focus on invasive removal/control-start in June
- Questions addressed today
  - Who are the volunteers and how are they trained/educated?
  - What is the major focus of invasive control?
  - What are some of the other invasive species that you plan to remove in addition to the cat's-claw vine in future work parties?
  - Who will be responsible for disposal of the trash bags?
  - Some additional information about the use of the space for classes or other educational activities. It would be helpful to know how the space is used.

Who are the volunteers and how are they trained/educated?

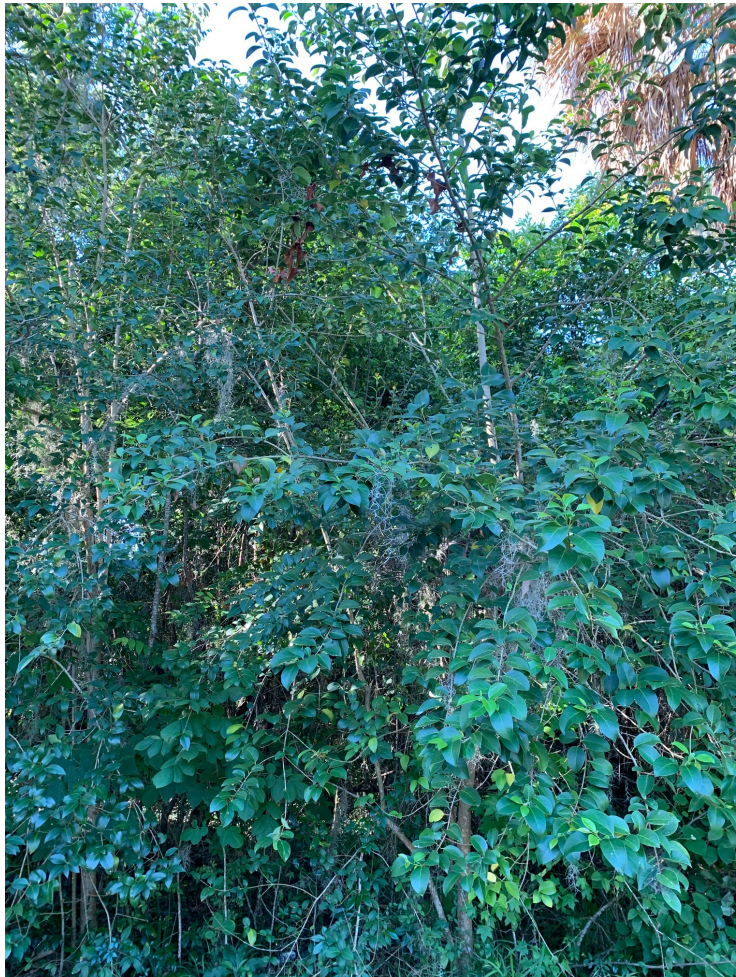
- The volunteers will largely be students, faculty and staff of the Florida Museum, Biology, IFAS, as well as local members of the native plant society
- Before we begin removal of invasives, we will give a presentation on the invasives we intend to target and proper means of removal to avoid any confusion and removal of nonnatives
- Lucas Majure, Doug and Pam Soltis will survey the woods before hand and tag many of the plants to be removed

What is the major target species for removal?

- Cat's claw, *Macfadyena unguis-cati*
- Its root tubers are generally not deep and can be excavated easily and pulled up, but manual removal has to be repeated frequently.
- It also spreads by seed and is starting to flower; getting rid of the big ones is top priority.
- If we remove all those that are climbing, it would be easier to herbicide the ones on the ground in the future—is that an option?

What are some of the other invasive species that you plan to remove in addition to cat's-claw in future work parties?

- Cat’s claw will keep us busy for quite some time- it is everywhere.
- We will also remove privet, *Ligustrum lucidum*, along the edge of the woods (especially on the east side).
- *Lantana* is also a problem in spots.
- *Cinnamomum camphorum* and *Broussonetia papyrifera* also are problems and need to be removed



Who will be responsible for disposal of the trash bags?

- We have been in contact with Matt Williams –
- His office has a standard protocol developed for the "Green and Clean" invasive and litter volunteer efforts they've run for a number of years.
- We have talked through those details with Matt. They work with grounds and/or solid waste in advance to have the bags collected from the site.

Some additional information about the use of the space for classes or other educational activities. It would be helpful to know how the space is used.

- We are updating lists we have provided in the past.

Stakeholders of McCarty Woods

Faculty and Staff

- Teaching
- Research
- Extension/Outreach
- Leisure/stress relief

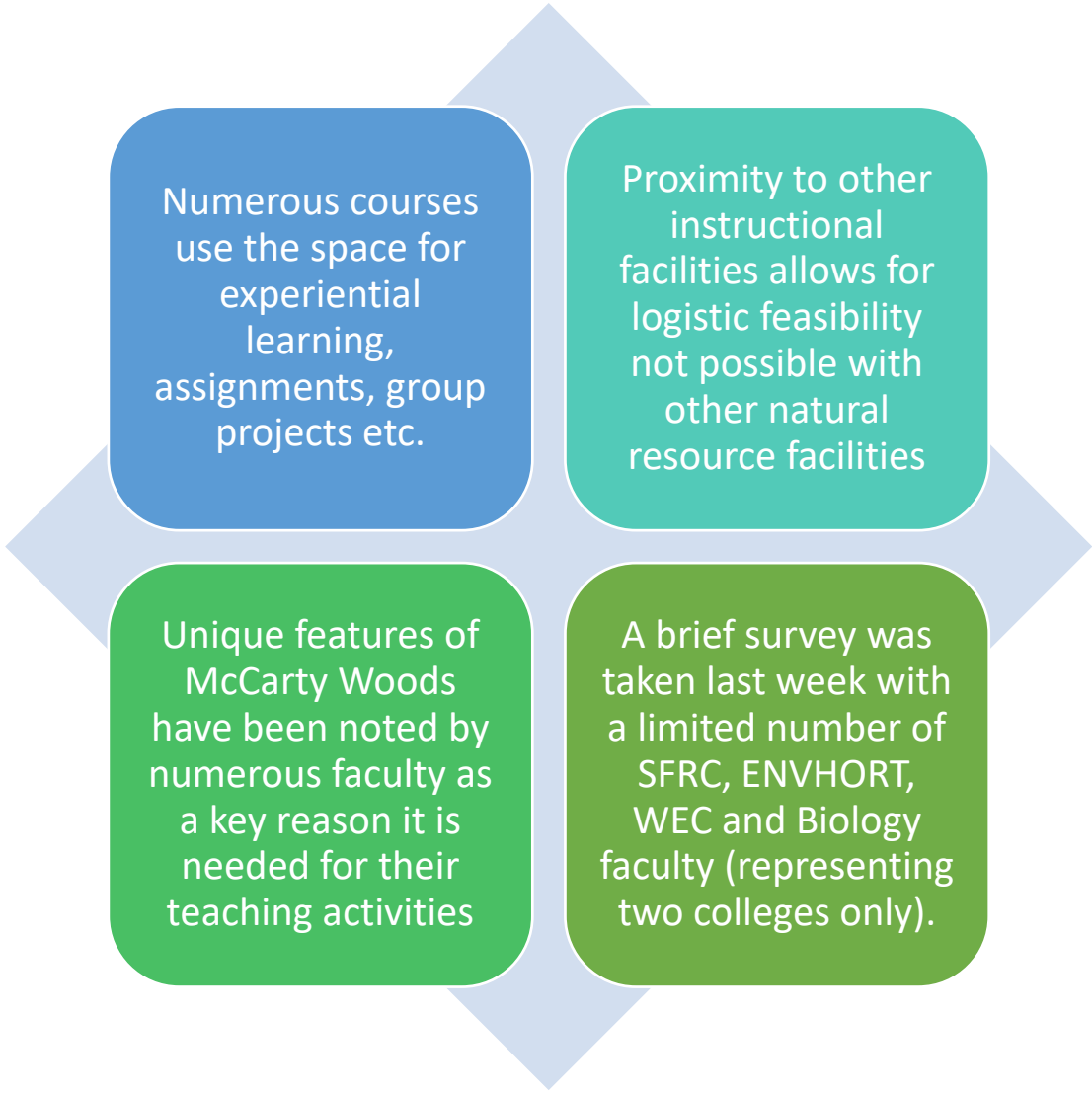
Students

- Course assignments
- Leisure/stress relief
- Nature exploration

Campus visitors

- 4-H example
- Florida Native Plant Society and FALAFEL

Instructional Usage



Course Name	Instructor Name	Department	College
BOT 2710, Practical Plant Taxonomy	Lucas Majure/ Doug Soltis / Pam Soltis	Biology	CLAS
BOT 5725, Vascular Plant Taxonomy	Lucas Majure/ Doug Soltis / Pam Soltis	Biology	CLAS
BOT 6905, Entering Research in Biology	Lucas Majure	Biology	CLAS
BOT Independent Studies	Lucas Majure	Biology	CLAS
FOR 4090C, Urban Forestry	David Fox	SFRC	CALS
FOR 4664, Sustainable Ecotourism Development	Taylor Stein	SFRC	CALS
FOR 3200C, Foundations in Natural Resources and Conservatio	Tim Martin	SFRC	CALS
FOR 3342C, Tree Biology	Tim Martin	SFRC	CALS
FOR 6340, Physiology of Forest Trees	Tim Martin	SFRC	CALS
FOR 3153C, Forest Ecology	Stephanie Bohlman	SFRC	CALS
BOT2010, Introductory Botany	Jack Putz	Biology	CLAS
PCB3601, Plant Ecology	Jack Putz	Biology	CLAS
BOT5695, Ecosystems of Florida	Jack Putz	Biology	CLAS
FNR 3131C, Dendrology	Michael Andreu/ Jason Smith	SFRC	CALS
FOR 3004, Forest Conservation and People	Michael Andreu	SFRC	CALS
FOR 4624 C, Forest Health Management	Jiri Hulcr / Jason Smith	SFRC	CALS
FOR 4934,Take a Hike	Jason Smith	SFRC	CALS
FNR 3131C, Dendropathology	Jason Smith	SFRC	CALS
ORH3513C, Environmental Plant Identification and Use	Bart Schutzman	ENVHORT	CALS
HOS5117C, Horticultural Plant Morphology and Identification	Bart Schutzman	ENVHORT	CALS
ORH4932 & HOS 6932, Advanced Plant Identification	Bart Schutzman	ENVHORT	CALS

Additional Classes

Invertebrate Field Biology (ENY 3163/ENY5164)	Akito Kawahara
Spider Biology (ENY 4905/ZOO 4926)	Akito Kawahara
Research in Insect Biodiversity (BSC 2930/ENY 4905)	Akito Kawahara
Local Flora (BOT3151C)	Christine Davis

McCarty Woods: organisms of interest

- **Bird Species:** American crow, American goldfinch, American redstart, black and white warbler, black-headed cowbird, bluejay, brown thrasher, blackpoll warbler, Carolina chickadee, Carolina wren, cedar waxwing, common grackle, Downy woodpecker, Eastern tufted titmouse, fish crow, great crested flycatcher, Great catbird, hermit thrush, house finch, Mourning dove, Northern cardinal, Northern mockingbird, Prothontary warbler, red-bellied woodpecker, ruby-crowned kinglet, red-eyed vireo, unidentified gull, worm-eating warbler, yellow-bellied sapsucker, yellow-rumped warbler
- **Reptiles and Amphibians:** Carolina anole, green treefrog, five-lined skink, southern ring-necked snake
- **Mammals:** Gray squirrel, common raccoon
- **Plants:** Nearly 100 species, these mostly natives
- **Butterflies:** 71 species

REPORT TO THE LAKES VEGETATION AND LANDSCAPING COMMITTEE

TO:	The LVL Committee	**FOR:**	July 10, 2021 LVLC meeting.
VIA:	Carlos Dougnac, Assistant Vice President, PDC	**FROM:**	Milo Zapata, Project Manager
REQUESTOR:	User Group / Agency	**PRESENTERS:**	Milo Zapata and User Group

	PHASE:	Committee Responsibilities:	STATUS AND PRIOR COMMENTS:	DATE:
	PROGRAMMING	*The committee will review and recommend approval/denial of general site suitability - having evaluated impacts to trees, landscape, natural areas, and lakes.*		
	SCHEMATIC DESIGN	*The committee will review and recommend approval/denial of tree removal - plans for transplants, replacements and/or mitigation, based on the building footprint, utility corridors, and other construction activities.*		
X	DESIGN DEVELOPMENT	*The committee will review and recommend approval/denial of final landscaping - appropriateness and inclusion of any mitigation for tree removal.*	For Information Purposes Only	2021-07-10

BACKGROUND INFORMATION:

PROJECT:
UF-623C, Electrical Utilities Infrastructure

SITE:
Duke Substation. See attached location map.

STATUS:
Duke Energy has begun construction of their electrical substation and is preparing for the routing of transmission lines and poles to the substation site, located on the south side of Mowry Rd across the street from IFAS Admin. Services complex.

OBJECTIVES:

- Notification of easement boundary realignment to the west from the current location to allow for tree removal that is encroaching the safety zone for tree & limb clearance adjacent to transmission line(s) and pole(s) routing on site..
- Removal of trees as identified withing the realigned easement.

PROJECT PHASE AND PRESENTATION NARRATIVE:

Design Development

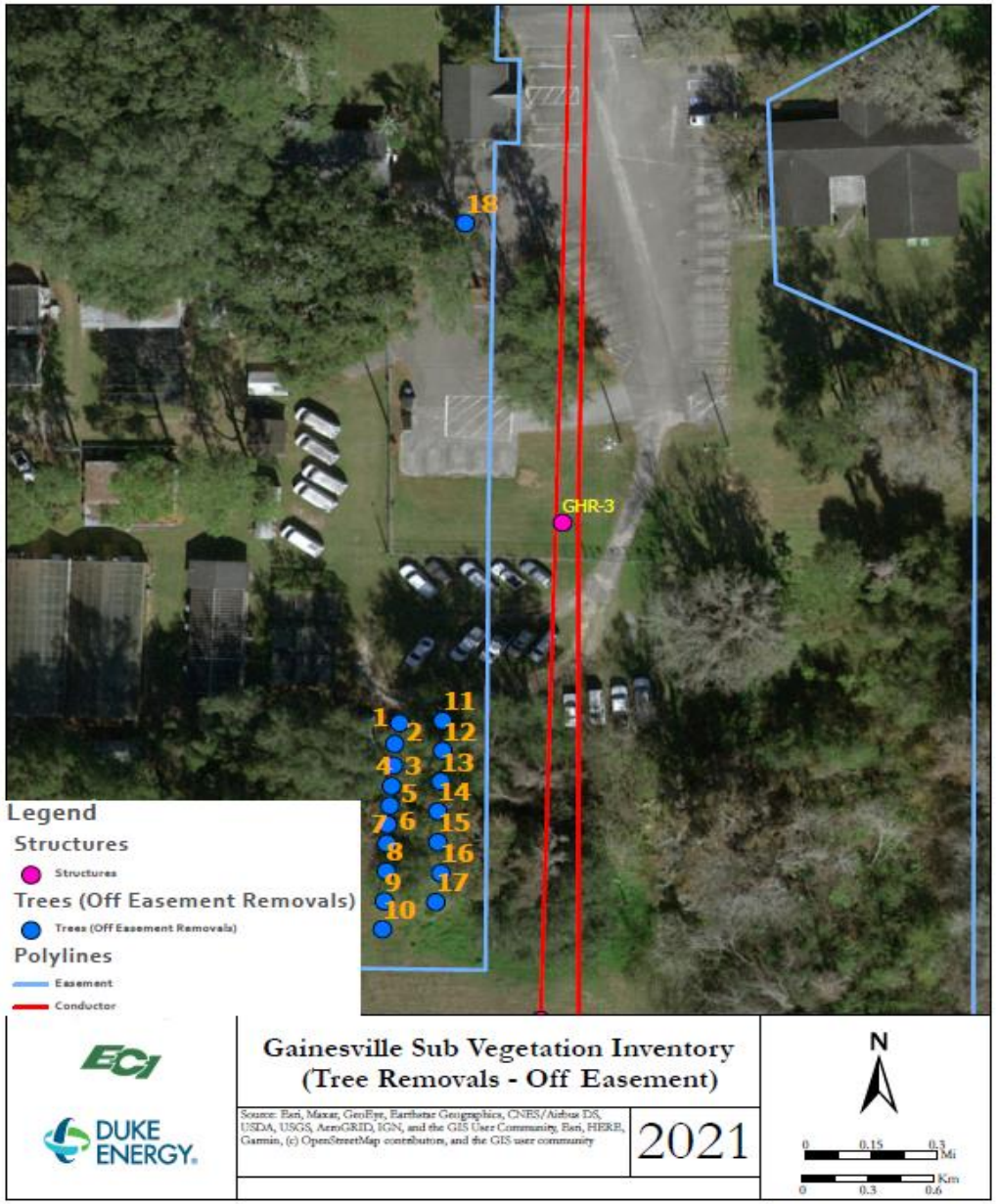
Duke has informed UF, that they will require an adjustment of the currently proposed easement location, to allow for the routing of transmission lines & poles from Mowery road to the Duke Energy substation; this realignment is in accordance with the Duke Energy contract agreement with UF BOT.

ENCLOSURES:
1. Presentation
2. CMP Checklist

Gainesville Substation

Duke Energy Vegetation Work

May 28, 2021



OFF EASEMENT TREE REMOVALS

Span	DBH	Species	Coordinates	Tree ID #
GHR 2-3	10	Live Oak	29.637067, -82.356066	1
GHR 2-3	8	Live Oak	29.637067, -82.356066	2
GHR 2-3	5	Cherry Laurel	29.637067, -82.356066	3
GHR 2-3	10	Live Oak	29.637067, -82.356066	4
GHR 2-3	1	Red Mulberry	29.637005, -82.365339	5
GHR 2-3	1	Red Mulberry	29.637005, -82.365339	6
GHR 2-3	2	Red Mulberry	29.637005, -82.365339	7
GHR 2-3	3	Red Mulberry	29.637005, -82.365339	8
GHR 2-3	2	Elderberry	29.637005, -82.365339	9
GHR 2-3	2	Live Oak	29.637005, -82.365339	10
GHR 2-3	1	Live Oak	29.637005, -82.365339	11
GHR 2-3	2	Sugarberry	29.637005, -82.365339	12
GHR 2-3	3	Red Maple	29.637005, -82.365339	13
GHR 2-3	3	Sweetgum	29.637005, -82.365339	14
GHR 2-3	2	Sweetgum	29.637005, -82.365339	15
GHR 2-3	2	Water Oak	29.637005, -82.365339	16
GHR 2-3	2	Cherry Laurel	29.637005, -82.365339	17
GHR 3-4	28	Slash Pine	29.6378826, -82.356115	18

Tree Removals

#8 Red Mulberry, #9 Elderberry, #10 Live Oak, #16 Water Oak, #17 Cherry Laurel

TREE REMOVAL

#18 (SLASH PINE)