nationalgrid

Lockport-Batavia Line 112
Rebuild Project

Appendix E

Invasive Species

PREPARED FOR:

nationalgrid

NIAGARA MOHAWK POWER CORPORATION
(D/B/A NATIONAL GRID)
300 ERIE BOULEVARD, WEST
SYRACUSE, NY 13202

LOCKPORT- BATAVIA 112 REBUILD PROJECT

TOWNS OF LOCKPORT AND ROYALTON, NIAGARA COUNTY, AND
TOWN OF ALABAMA, GENESEE COUNTY, NEW YORK

INVASIVE SPECIES INVENTORY REPORT

JANUARY 2020
UPDATED MAY 2021

PREPARED BY:

FISHER ASSOCIATES

180 CHARLOTTE STREET
ROCHESTER, NEW YORK 14607
FISHER ASSOCIATES PROJECT NO. 190176.00

TABLE OF CONTENTS

1.0 INTRODUCTION

On behalf of Niagara Mohawk Power Corporation (d/b/a National Grid), Fisher Associates' Environmental Scientists conducted an invasive species inventory between August 6 and October 2, 2019. The objective was to identify the presence and abundance of invasive plant species within the Project Study Limits defined to support the Lockport-Batavia 112 Rebuild Project (Project) (see *Figure 1: Project Vicinity and Index Map*). The Project Study Limits at the time consisted of a 445.14-acre area, which encompassed potential construction and limits of disturbance required for the Project. This area was generally from the Lockport-Batavia 112 overhead transmission line Structure 1-2 in Lockport, New York to Structure 210.5 in Alabama, New York. An additional invasive species inventory was conducted on June 16, 2020 for Additional Project Study Limits consisting of another 1.50-acres. These were from where the original study limits ended at Structure 210.5 to just past Structure 211 in Alabama, New York. A second additional invasive species inventory was conducted on November 12 and 13, 2020 for and extension of the existing Project Study Limits. This second extension was to expand the Project Study Limits between relocation Structures 143 and 156 northwards along Lewiston Road to ensure enough land was reviewed for Segment 4 Relocation. A total of 462.05-acres has been surveyed for the presence of invasive species (see *Figure 2: Invasive Species Inventory Map)*.

The Project Study Limits are located in the Towns of Lockport and Royalton, Niagara County, and the Town of Alabama, Genesee County, New York. The majority of the Project Study Limits are located within an existing maintained right-of-way (ROW) for multiple overhead electrical transmission lines. In the western portion of the Project, the Project Study Limits were located in a residential/commercial area. In the center portion of the Project, the Project Study Limits are primarily located within agricultural fields and residential yards. In the eastern portion of the Project, the Project Study Limits are primarily located within agricultural fields and New York State Department of Environmental Conservation (NYSDEC) Wildlife Management Areas (WMA), specifically the Tonawanda WMA and John White WMA.

According to the NYSDEC, the definition of an invasive species is "a species that is non-native to the ecosystem under consideration; and whose introduction causes or is likely to cause economic harm or harm to human health." The NYSDEC has developed regulations to help control invasive species throughout the state by reducing their introduction and spread. Under regulation *Title 6 NYCRR Part 575: Prohibited and Regulated Invasive Species*, the NYSDEC has identified and classified invasive species that will be regulated statewide. On September 10, 2014, the NYSDEC released a list of *Prohibited and Regulated Species* (under *6 NYCRR Part 575*) of plants and animals for New York State.

2.0 FIELD INVESTIGATION

Between August 6 and October 2, 2019, Fisher Associates' Environmental Scientists conducted an invasive species inventory for the Project. On average the weather was mid to high 70's °F and sunny with a few days of rain. The additional invasive species inventory was conducted during the late morning on June 16, 2020. On average the weather for the day was in the low 70's °F and sunny. During the second additional invasive species inventory field visit conducted on November 12 and 13, 2020 the weather was in the 40's °F and cloudy. Using visual observations, the Project Study Limits were walked looking for the presence and abundance of invasive plant species. Specifically, invasive plant species that the Environmental Scientists were able to observe and identify given the terrain, weather conditions and time of year that are listed on the *NYSDEC Prohibited and Regulated Invasive Species List* (September 10, 2014) were recorded.

The Project Study Limits were divided into twenty-eight (28) distinct areas titled Invasive Species Segments in order to gather more comprehensive data. These segments were created using geographic indicators such as roads and streams as dividing barriers. If an invasive plant species was observed, its presence was noted within the given Invasive Species Segment, along with its abundance based on relative aerial coverage to the overall Invasive Species Segment. The abundance of each invasive plant species was recorded using the following breakdown of percent relative aerial coverage categories:

- Sparse (<5% aerial coverage)
- Moderate (5-25% aerial coverage)
- Abundant (>25% aerial coverage)

Additionally, a tiered approach was used to categorize each Invasive Species Segment into either Tier 1, Tier 2 or Tier 3; based on abundance (i.e.: relative aerial coverage (how many invasive plant species were present within the segment)), and how many invasive plant species observed that are considered to be of high concern. Plant species that have previously been identified by state agencies on similar National Grid projects in western New York as species of high concern include: common reed (*Phragmites australis*), purple loosestrife (*Lythrum salicaria*), Japanese knotweed (*Fallopia japonica*), glossy buckthorn (*Frangula alnus*), cow parsley (*Anthriscus sylvestris*), mugwort (*Artemisia vulgaris*), honeysuckle (*Lonicera spp.*), common buckthorn (*Rhamnus cathartica*), Canada thistle (*Cirsium arvense*), and cut leaf teasel (*Dipsacus laciniatus*). The following are the three (3) tier categories that each Invasive Species Segment were categorized into based on the site characteristics observed during the inventory:

- Tier 1- Areas with no invasive plant species currently present, and areas that have invasive plant species present in sparse abundance (relative aerial coverage). These areas also did not contain invasive plant species of high concern (as noted above).
- Tier 2- Areas with one (1) invasive plant species of moderately abundance (relative aerial coverage) with various amounts of other invasive plant species present of sparse abundance (relative aerial coverage); or areas with one (1) invasive plant species present of abundant relative aerial coverage, with various amounts of other invasive plant species present of sparse to moderate relative aerial coverage; and did not contain invasive plant species of high concern (as noted above).
- Tier 3- Areas with two (2) or more invasive plant species present of moderate and sparse abundance (relative aerial coverage); and/or contained or suspected to contain invasive plant species of high concern (as noted above).

The locations of the Invasive Species Segments are noted on the *Figure 2: Invasive Species Inventory Map*. Additionally, *Table 1: Invasive Species Inventory* is a comprehensive list of what species were found in each Invasive Species Segment and their relative aerial coverage.

3.0 FIELD OBSERVATIONS AND CONCLUSIONS

The Project Study Limits were broken down into twenty-eight (28) distinct Invasive Species Segments. Of those twenty-eight (28) Invasive Species Segments, twenty-four (24) were classified as Tier 3 (areas with two (2) or more moderate invasive plant species or contained invasive plant species of high concern), one (1) was classified as Tier 2 (areas with one (1) moderate and various sparse invasive plant species, or areas with one (1) abundant invasive plant species but not species of high concern), and three (3) segments were classified as Tier 1 (areas with sparse or no invasive plant species present). A comprehensive list of each Invasive Species Segment and the species found within each area is provided in *Table 1: Invasive Species Inventory*.

The three (3) Invasive Species Segments (Segments 6, 25 and 26) that were classified as a Tier 1 were the only areas within the Project Study Limits where no invasive plant species were observed. More specifically, Invasive Species Segment 6 was located within a manicured lawn between two (2) commercial/industrial parking lots, and Invasive Species Segments 25 and 26 were located on the far eastern end of the Project Study Limits within the John White WMA, and agricultural fields.

The twenty-four (24) Invasive Species Segments that were classified as Tier 3 all had at least one (1) species of high concern, and therefore fell into the Tier 3 category. Of the ten (10) invasive plant species mentioned above as being species of high concern, only six (6) of them were observed throughout much of the Project Study Limits; which includes common reed, purple loosestrife, honeysuckle, common buckthorn, Canada, and cut leaf teasel.

During the invasive species inventory, ten (10) different invasive species were identified within the Project Study Limits. Seven (7) of the species observed were found throughout the Project Study Limits. Whereas, multiflora rose (*Rosa multiflora*), common duckweed (*Lemna minor*), and autumn olive (*Elaeagnus umbellate*) were more commonly found in the eastern portion of the Project Study Limits within the Tonawanda WMA. Listed below are the species observed and how many Invasive Species Segments they were observed in.

Invasive Species Name	Number of Invasive Species Segments Found In
Common Reed (*Phragmites australis*)	18
Purple Loosestrife (*Lythrum salicaria*)	16
Canada Thistle (*Cirsium arvense*)	16
Cut Leaf Teasel (*Dipsacus laciniatus*)	14
Morrow's Honeysuckle (*Lonicera morrowii*)	14
Spotted knapweed (*Centaurea stoebe*)	13
Common Buckthorn (*Rhamnus cathartica*)	9
Autumn Olive (*Elaeagnus umbellate*)	4
Multiflora Rose (*Rosa multiflora*)	1
Common Duckweed (*Lemna minor*)	1

4.0 STATEMENT OF LIMITATIONS

This investigation was limited to the Project Study Limits defined for the Project and which are depicted on *Figure 1: Project Vicinity and Index Map* and *Figure 2: Invasive Species Inventory Map*. Fisher Associates did not examine areas outside of the Project Study Limits, thus no information is provided regarding the presence and abundance of invasive plant species outside of the Project Study Limits.

This initial investigation was conducted between August 6 and October 2, 2019 by Fisher Associate's Environmental Scientists. And additional investigations were conducted on June 16, 2020 and November 12 and 13, 2020 for Additional Project Study Limits (as denoted on *Figure* 2). Based on the time of year that the field investigation was conducted, there is the potential that some individuals of invasive plant species were not observed/ recorded during the inventory. For example, some plant species that are easier to identify while in bloom, may have no longer been in bloom towards the end of the summer season.

Additionally, human-induced or natural changes at the site may occur after this date may cause changes in the presence and extent of invasive plant species.

The identification of invasive plant species was limited to the knowledge and plant identification skills of the Fisher Associates Environmental Scientists performing the inventory. The potential exists that they were not able to visually identify all the invasive plant species listed on the *NYSDEC Prohibited and Regulated Invasive Species List* (September 10, 2014) under *Title 6 NYCRR Part 575*. Additionally, only plant species listed under *Title 6 NYCRR Part 575* were inventoried for within the Project Study Limits, and no other plant species that may be considered to be invasive by an outside agency were noted.

This report conveys the results of the initial invasive species inventory conducted between August 6 and October 2, 2019, and the additional invasive species inventories conducted on June 16, 2020 and November 12 and 13, 2020 as part of the Certification Review Process for Major Electric and Fuel Gas Transmission Facilities under Article VII of the New York Public Service Law. Construction is not expected to start until after the Article VII review process is complete. Fisher Associates' Environmental Scientists did not map the actual aerial boundaries of each individual invasive plant species observed during the field investigation. The information and data gathered is for informational and planning purposes only during the initial stages of the Project, and the Project location and geographic conditions may change prior to the start of construction. Fisher Associates' recommends that a complete and comprehensive invasive species baseline survey be performed for the site prior to the start of construction.

5.0 SIGNATURES

This Report was Prepared By:

Fisher Associates, P.E., L.S., L.A., D.P.C.

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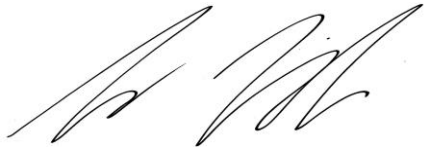

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SMilne@fisherassoc.com

FIGURES

FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 1: PROJECT VICINITY AND INDEX MAP

OAK ORCHARD-TWELVEMILE WATERSHED (HUC 04130001)

NIAGARA WATERSHED (HUC 04120104)

Watershed Boundary
Mapsheet

Project USGS Quad(s):

Akron, Gasport, Lockport, Medina, Oakfield

Project Watershed(s):

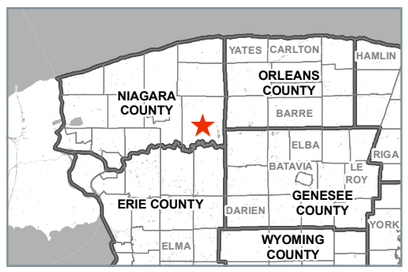
Niagara (HUC 04120104)
Oak Orchard - Twelvemile (HUC 04130001)

Map Revision Date: 5/12/2021 | Map Author: MFA

0 0.75 1.5 Miles

Project Study Limits:
468.42 Acres

Center of Project Study Limits:
43.139915 N, 78.54395 W
North American Datum 1983



Data Sources:

United States Geological Survey 24k Topo Quad Map - usgs.gov
Aerial Photography: ESRI World Imagery - arcgis.com
Wetlands: National Wetland Inventory (5/1/2014) - fws.gov/wetlands/
Soils: NRCS Soil Survey (8/24/2015) - gdg.sc.egov.usda.gov
Watersheds: USGS NHD (3/9/2015) - nhd.usgs.gov
Contours: US Geological Survey (4/14/2008) - http://nationalmap.gov/elevation.html

Lockport-Batavia #112 Line Segments

1. Structure 1.1 - Structure 6
2. Structure 6 - Structure 119
3. Structure 119 - Structure 141
4 Existing. Structure 141 - Structure 159
4 Relocation. Structure 141 - Structure 159-1
5. Structure 160 - Structure 173-1/2
6. Structure 173-1/2 to Structure 184
7. Structure 184 - Structure 211

Service Layer Credits: Copyright:© 2013 National Geographic Society, i-cubed

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NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

INVASIVE SECTION: 1
TIER: 3

INVASIVE SECTION: 2
TIER: 3

HINMAN RD

HINMAN RD — COUNTY HWY 903

DRIVEWAY

RAMP

RAMP

BEAR RIDGE RD

COUNTY HWY 966

SEGMENT #1

SEGMENT #2

1-1

1-2

1-3

2

3

LOCKPORT SUB

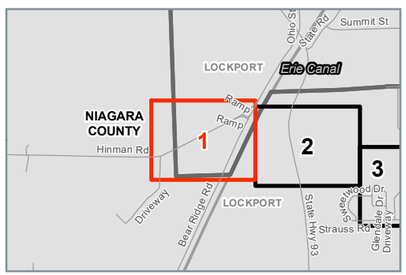
SHEET 2

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021	Aerial Date: 2017

0 100 200 Feet



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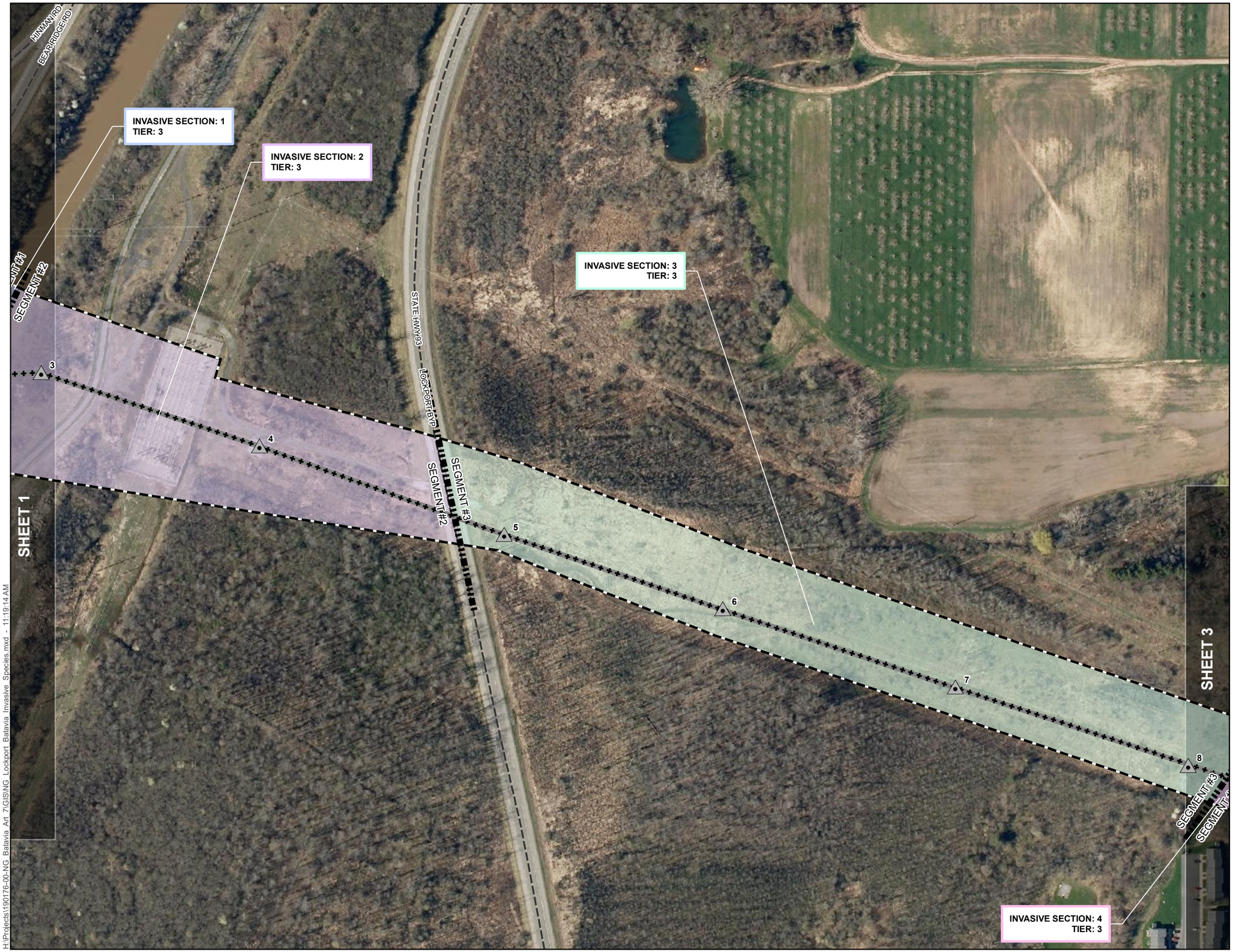
FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP



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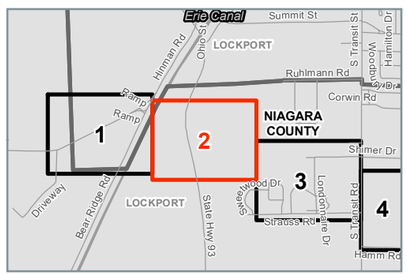

SHEET 2 OF 45

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NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

SHEET 2

SEGMENT #3
SEGMENT #4
SEGMENT #5
SEGMENT #6

8
8-1
9
10
11
12

UNNAMED STREET
SHIMER DR
TRANSIT RD
STATE HWY-78
GLENDALE DR
SWEETWOOD DR
DRIVEWAY
LONDONAIRE DR
OXFORD LN
STRAUSS RD

INVASIVE SECTION: 5
TIER: 3

INVASIVE SECTION: 4
TIER: 3

SHEET 4

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

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Map Revision Date: 5/12/2021 | Aerial Date: 2017

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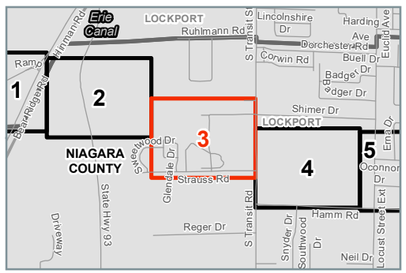

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NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

Structure
Invasive Species Section Boundary
Transmission Line 112
Proposed Transmission Line 112 Reroute
Road
Project Study Limits
Wildlife Management Area (WMA)
Matchline

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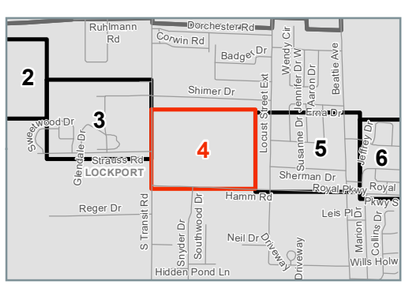

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NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

INVASIVE SECTION: 7
TIER: 3

INVASIVE SECTION: 9
TIER: 3

INVASIVE SECTION: 8
TIER: 3

ERNA DR
SUSANNE DR
O'CONNOR DR
BEATTIE AVE
COUNTY HWY 14
AMY LN
LOCUST STREET EXT
SHERMAN DR
ROYAL PKWY
HAMM RD
SEGMENT #7
SEGMENT #8
SEGMENT #9
21
22
23
24
SHEET 4
SHEET 6

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

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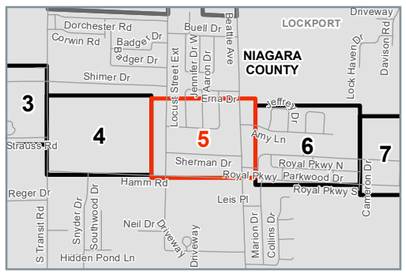

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NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

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- Structure
- Invasive Species Section Boundary
- Transmission Line 112
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The invasive species inventory is based on field observations from August to October 2019.

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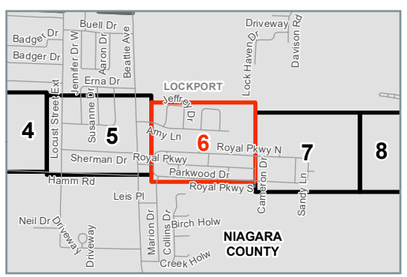

SHEET 6 OF 45

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NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

INVASIVE SECTION: 9
TIER: 3

SHEET 8

SHEET 6

29 30 31 32 33

CAMERON DR
UNNAMED STREET
SANDY LN
ROYAL PKWY
UNNAMED STREET
UNNAMED STREET

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
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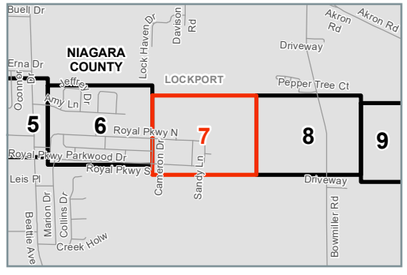

SHEET 7 OF 45

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FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
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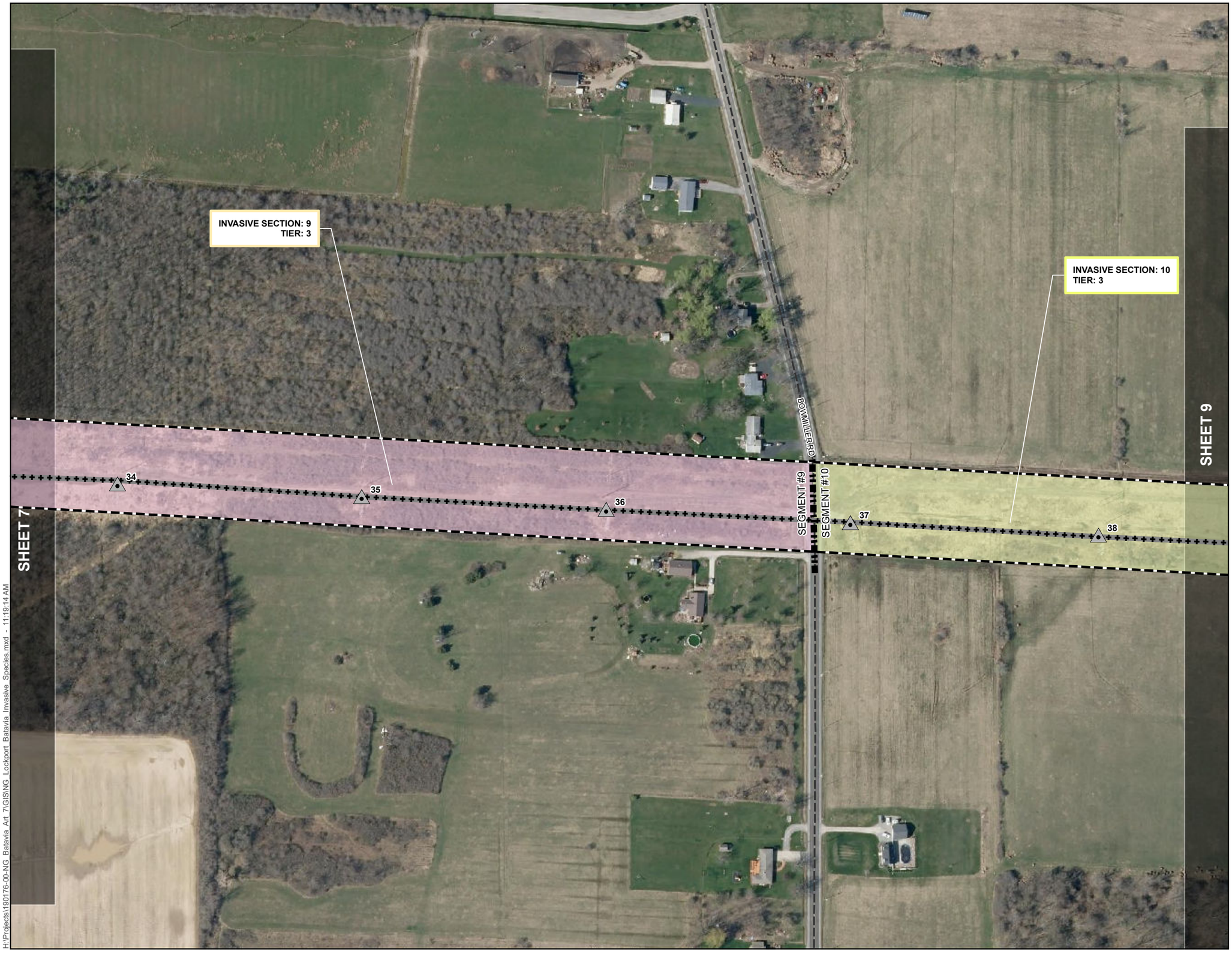

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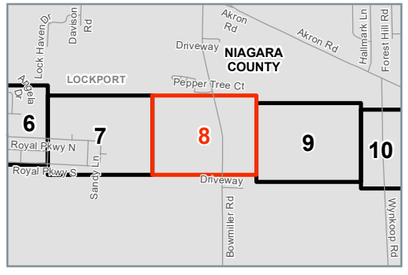

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NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

- Structure
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The invasive species inventory is based on field observations from August to October 2019.

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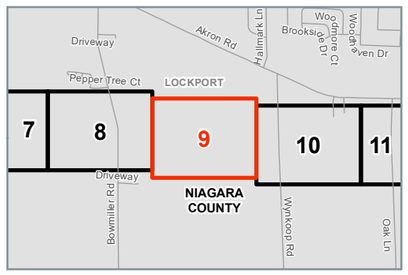
0 100 200 Feet



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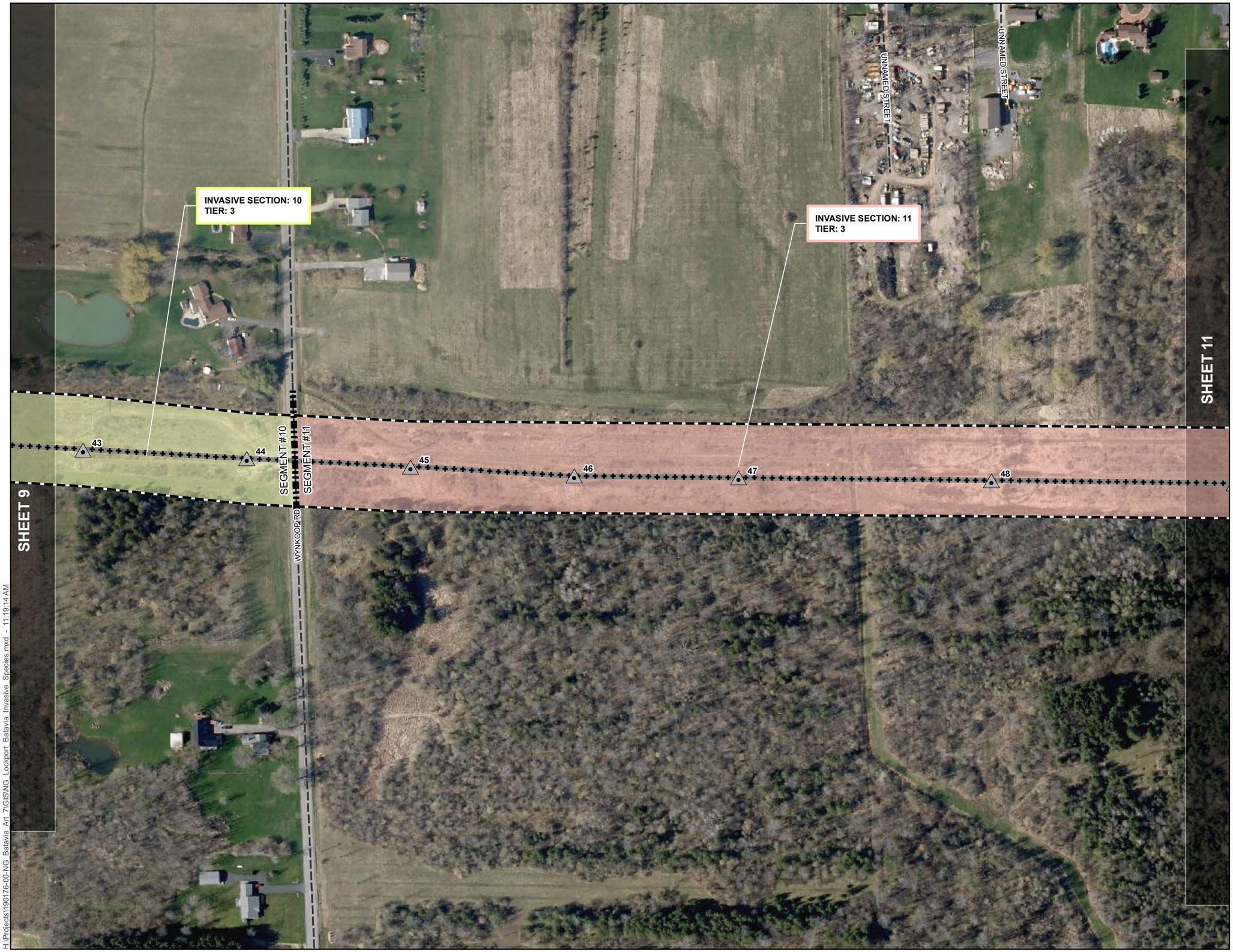
FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP



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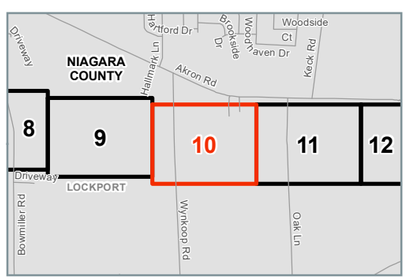
0 100 200 Feet



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FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

INVASIVE SECTION: 11
TIER: 3

INVASIVE SECTION: 12
TIER: 3

KOOK RD

OAK LN

SEGMENT #11

SEGMENT #12

49

50

51

52

53

SHEET 12

SHEET 10

KOOK RD

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
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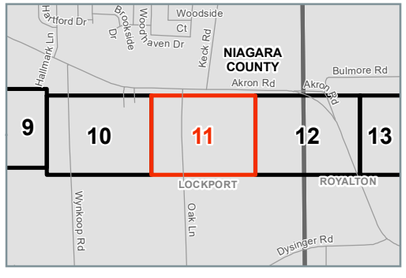
Map Revision Date: 5/12/2021 | Aerial Date: 2017

0 100 200 Feet



SHEET 11 OF 45

H:\Projects\190176-00-NG Batavia Art 7\GIS\NG Lockport Batavia Invasive Species.mxd - 11:19:14 AM

FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

Structure
Invasive Species Section Boundary
Transmission Line 112
Proposed Transmission Line 112 Reroute
Road
Project Study Limits
Wildlife Management Area (WMA)
Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021	Aerial Date: 2017

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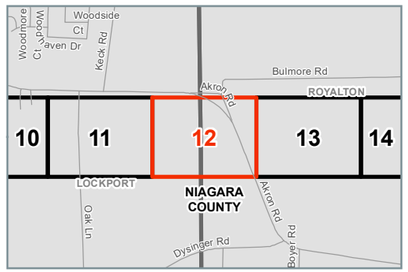

SHEET 12 OF 45

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FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

INVASIVE SECTION: 13
TIER: 3

SHEET 14

SHEET 12

58 59 60 61 62

COUNTY HWY 142

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

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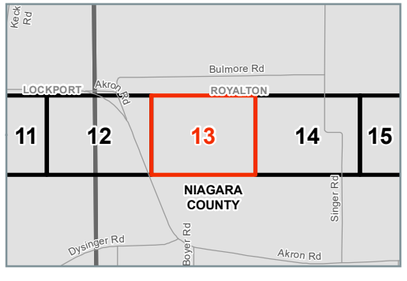

SHEET 13 OF 45

H:\Projects\190176-00-NG Batavia Art 7\GIS\NG Lockport Batavia Invasive Species.mxd - 11:19:14 AM

FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

INVASIVE SECTION: 13
TIER: 3

INVASIVE SECTION: 14
TIER: 3

SINGER RD

SEGMENT #13

SEGMENT #14

63 64 65 67

SHEET 13

SHEET 15

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

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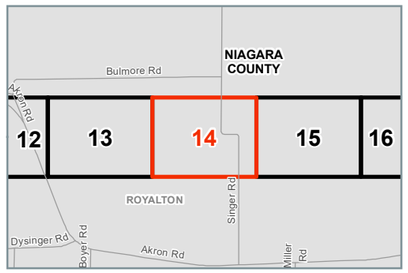

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FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

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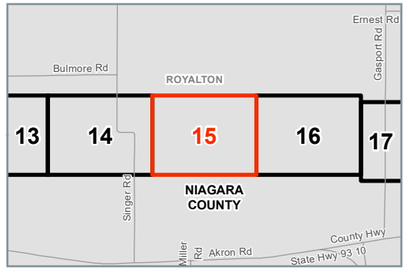

SHEET 15 OF 45

H:\Projects\190176-00-NG Batavia Art 7\GIS\NG Lockport Batavia Invasive Species.mxd - 11:19:14 AM

FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

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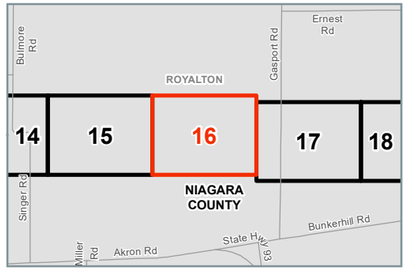

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FISHER ASSOCIATES

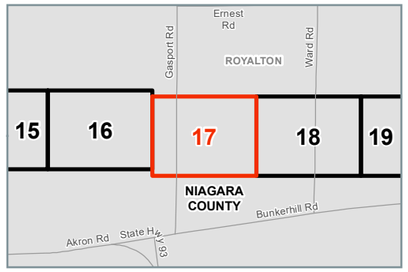
NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

0 100 200 Feet



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SHEET 17 OF 45

FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

INVASIVE SECTION: 15
TIER: 3

INVASIVE SECTION: 16
TIER: 3

SEGMENT #15

SEGMENT #16

WARD RD

81

82

84

85

SHEET 19

SHEET 17

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

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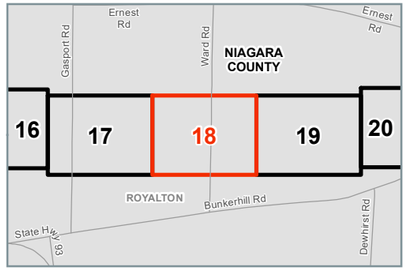

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FISHER ASSOCIATES

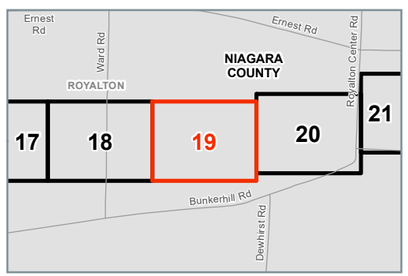
NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021	Aerial Date: 2017

0 100 200 Feet



SHEET 19 OF 45

H:\Projects\190176-00-NG Batavia Art 7\GIS\NG Lockport Batavia Invasive Species.mxd - 11:19:14 AM

FISHER ASSOCIATES

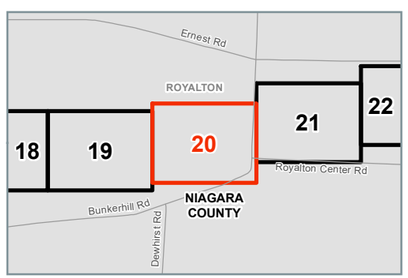
NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

0 100 200 Feet



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FISHER ASSOCIATES

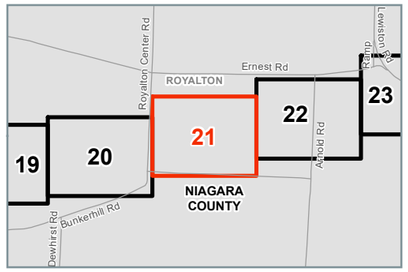
NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

0 100 200 Feet



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FISHER ASSOCIATES

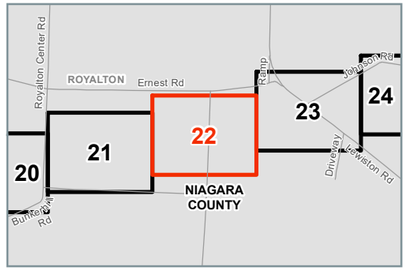
NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

0 100 200 Feet

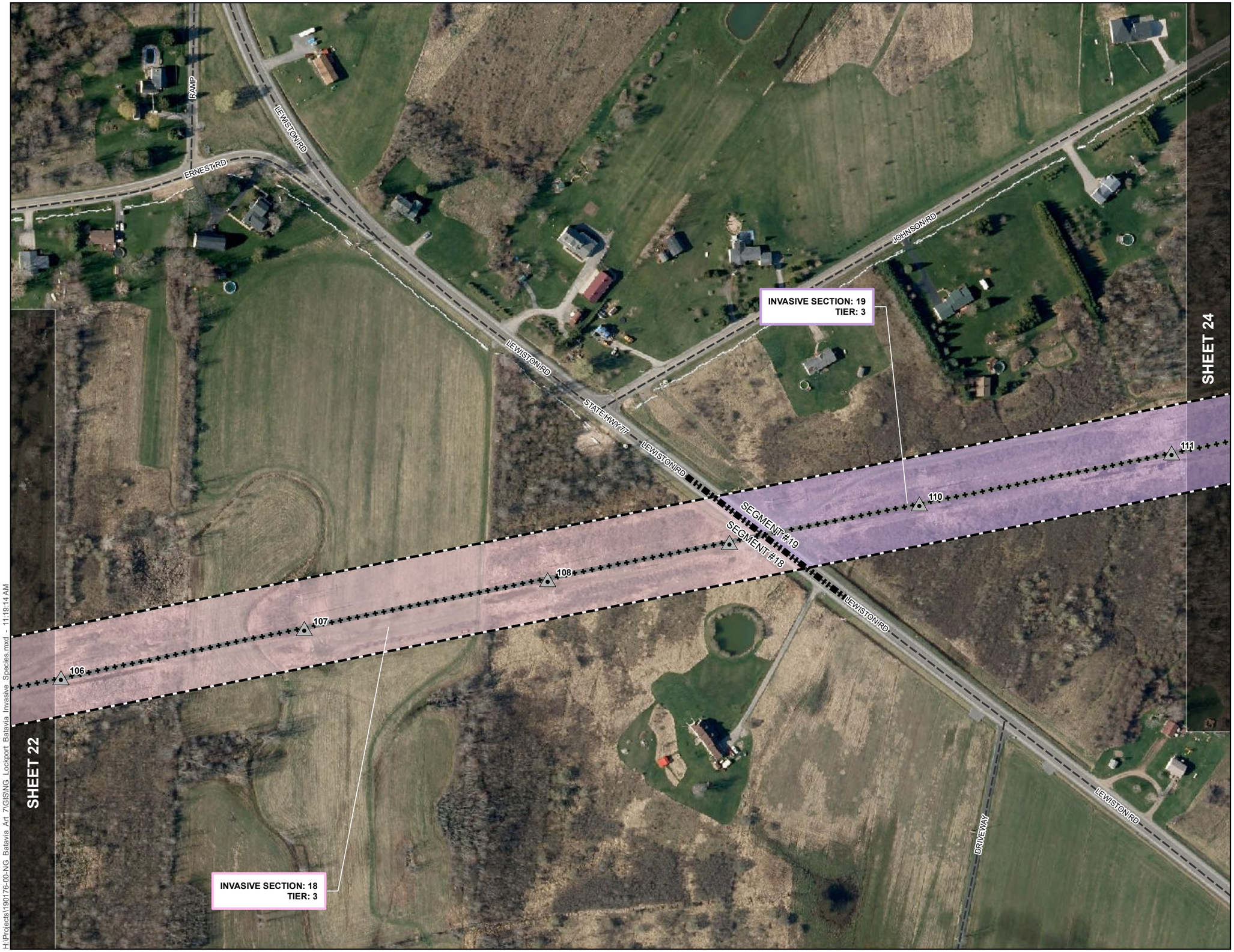


SHEET 22 OF 45

H:\Projects\190176-00-NG Batavia Art 7\GIS\NG Lockport Batavia Invasive Species.mxd - 11:19:14 AM

FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

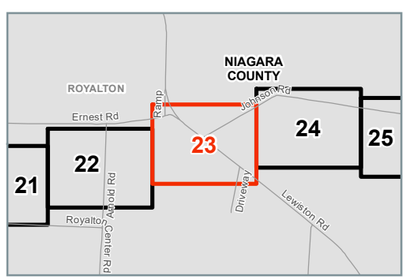


- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021	Aerial Date: 2017

0 100 200 Feet



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SHEET 23 OF 45

FISHER ASSOCIATES

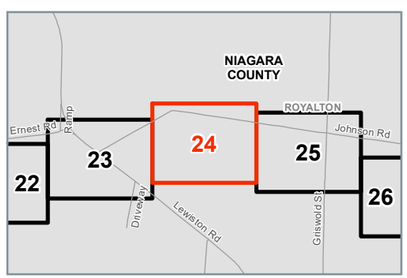
NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021	Aerial Date: 2017

0 100 200 Feet



SHEET 24 OF 45

H:\Projects\190176-00-NG Batavia Art 7\GIS\NG Lockport Batavia Invasive Species.mxd - 11:19:14 AM

FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

INVASIVE SECTION: 19
TIER: 3

INVASIVE SECTION: 20
TIER: 3

SHEET 24

SHEET 26

JOHNSON RD

GRISWOLD ST

SEGMENT #19

SEGMENT #20

COUNTY HWY 905 (GRISWOLD ST)

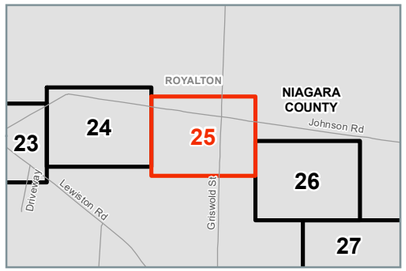
115 116-1 117 118 119 120 121 122 123

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

0 100 200 Feet



SHEET 25 OF 45

H:\Projects\190176-00-NG Batavia Art 7\GIS\NG Lockport Batavia Invasive Species.mxd - 11:19:14 AM

FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

SHEET 25

123

124

125

126

127

INVASIVE SECTION: 20
TIER: 3

TONAWANDA WMA

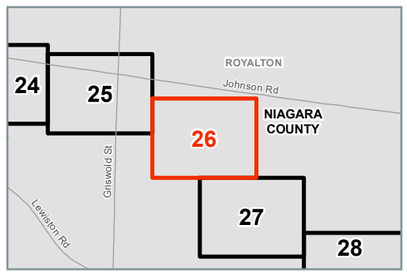
SHEET 27

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

0 100 200 Feet



SHEET 26 OF 45

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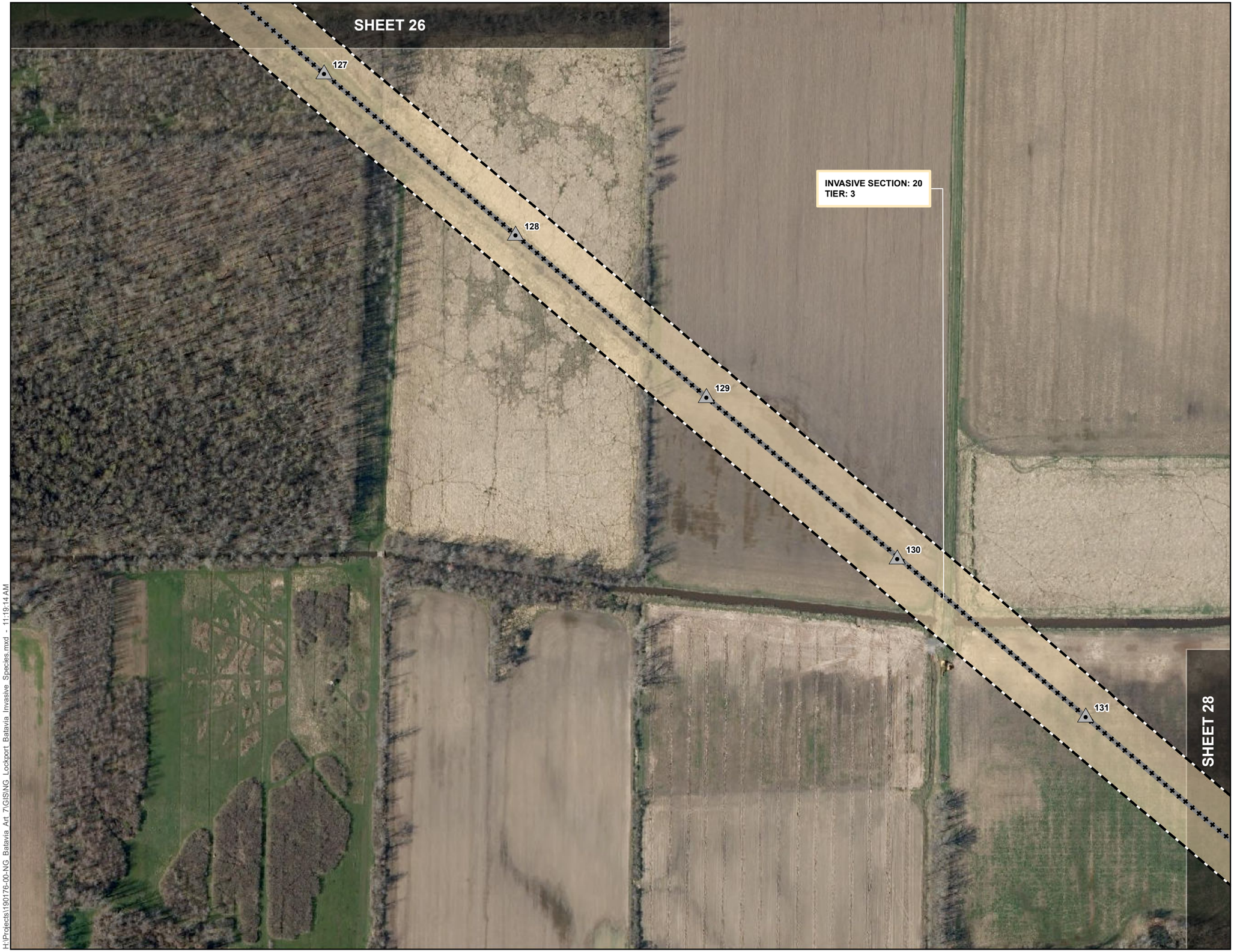


FISHER ASSOCIATES

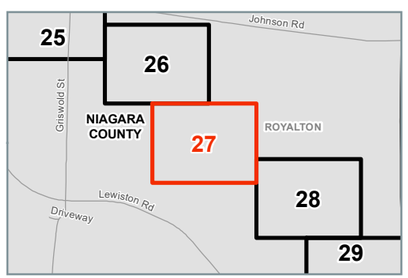
NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

0 100 200 Feet



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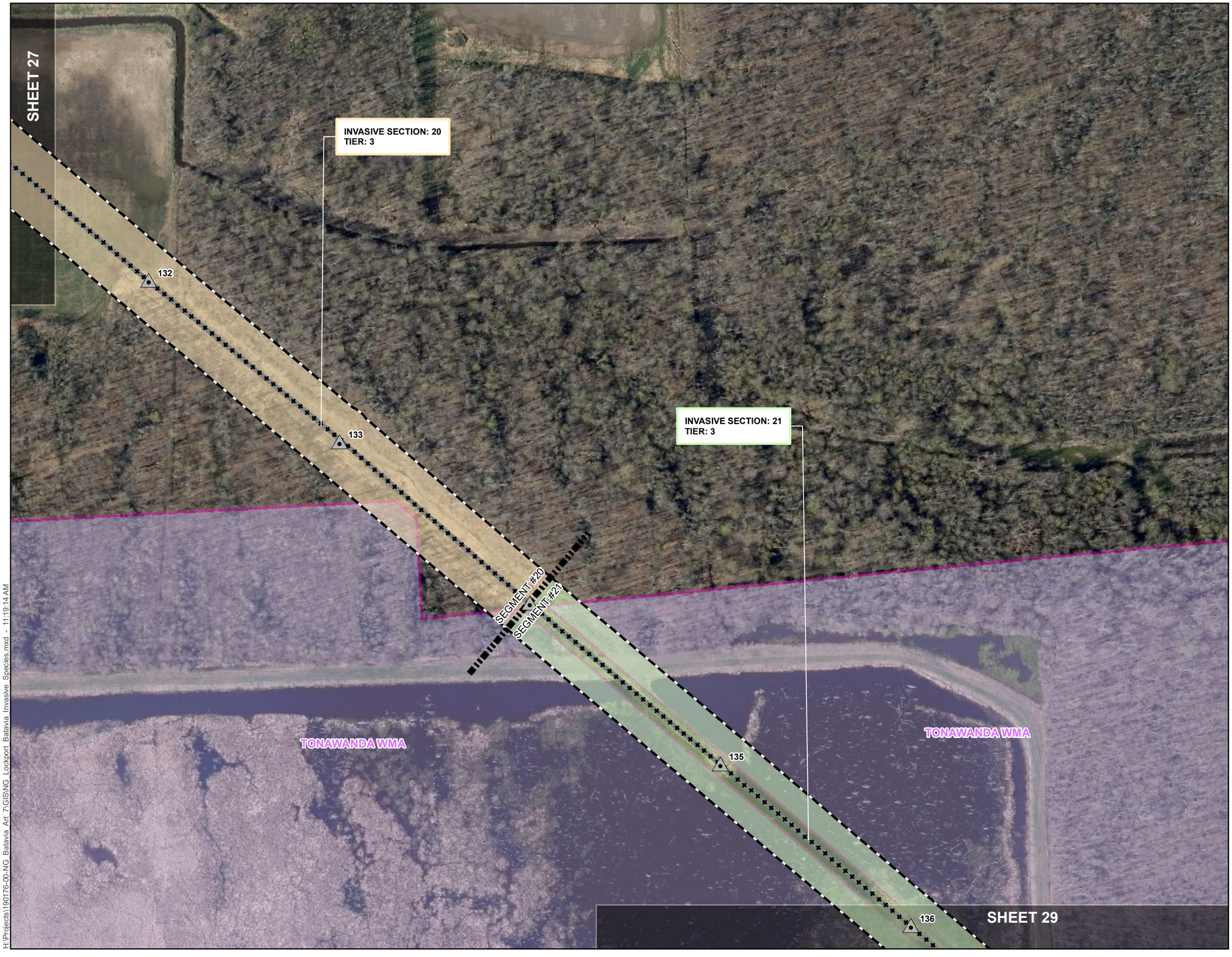
FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

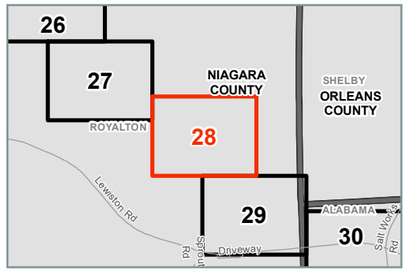


- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021	Aerial Date: 2017

0 100 200 Feet



SHEET 28 OF 45

H:\Projects\190176-00-NG Batavia Art 7\GIS\NG Lockport Batavia Invasive Species.mxd - 11:19:14 AM

FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

SHEET 28

136

137

138

139

140

TONAWANDA WMA

TONAWANDA WMA

TONAWANDA WMA

INVASIVE SECTION: 21
TIER: 3

SHEET 30

LEWISTON RD

LEWISTON RD

LEWISTON RD

DRIVEWAY

DRIVEWAY

STATE HWY 77 LEWISTON RD

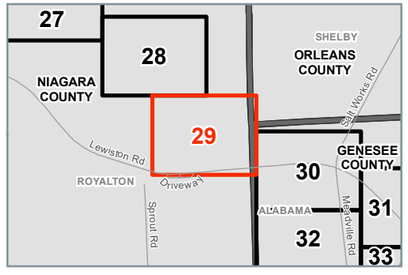
LEWISTON RD

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

0 100 200 Feet



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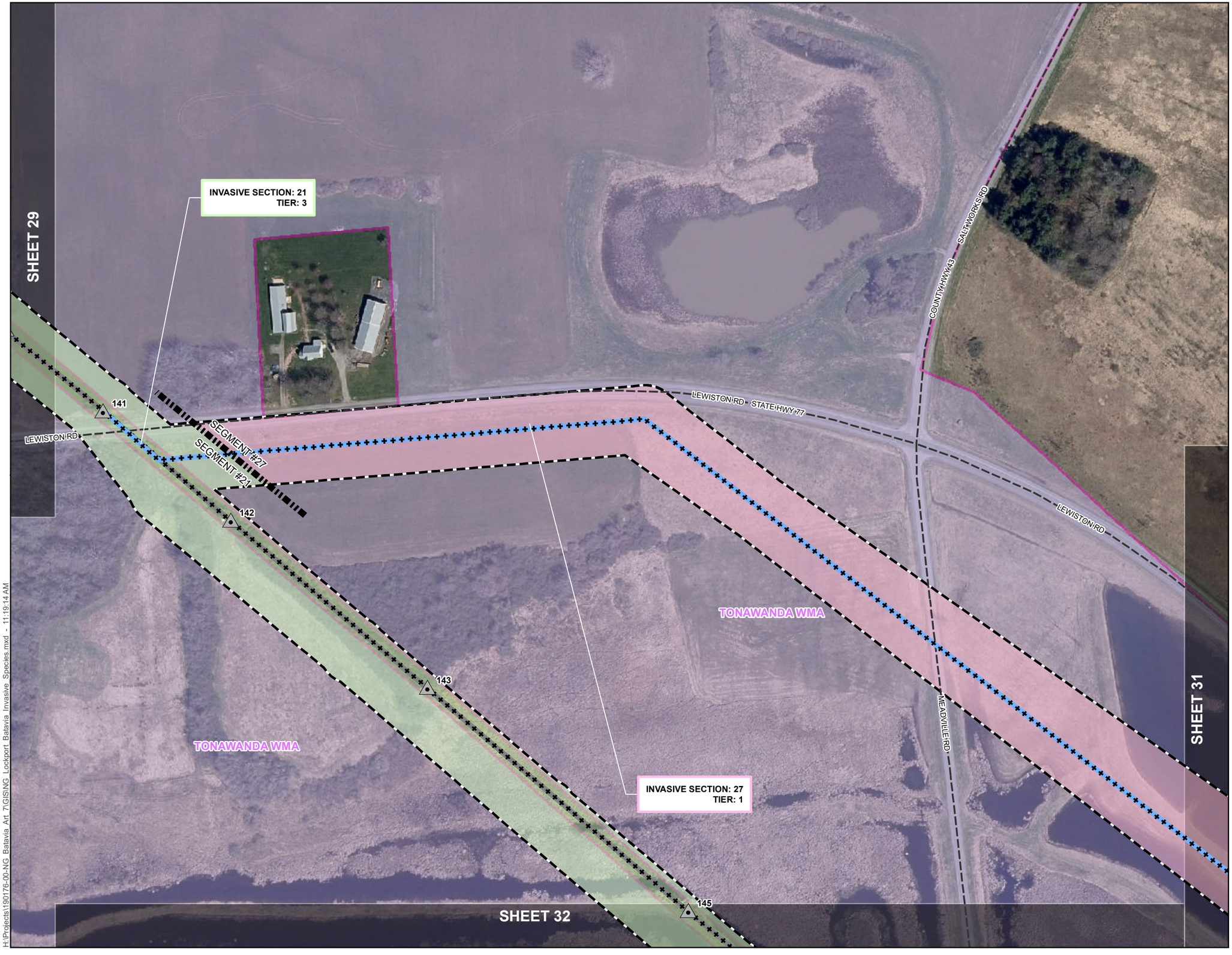
FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

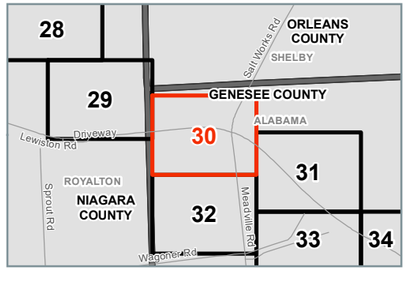


- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021	Aerial Date: 2017

0 100 200 Feet



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FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

SHEET 30

TONAWANDA WMA

INVASIVE SECTION: 27
TIER: 1

STATE HWY 77 (LEWISTON RD)

INVASIVE SECTION: 21
TIER: 3

SHEET 32

147

SHEET 33

TONAWANDA WMA

SHEET 34

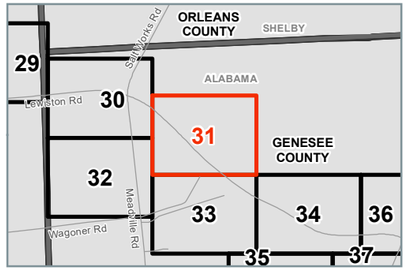
H:\Projects\190176-00-NG_Batavia_Art_7\GIS\NG_Lockport_Batavia_Invasive_Species.mxd - 11:19:14 AM

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

0 100 200 Feet



FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

SHEET 30

SHEET 31

SHEET 33

145

146

147

INVASIVE SECTION: 21
TIER: 3

INVASIVE SECTION: 27
TIER: 1

TONAWANDA WMA

TONAWANDA WMA

MEADVILLE RD

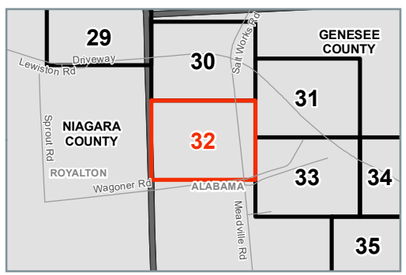
WAGONER RD

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

0 100 200 Feet



SHEET 32 OF 45

H:\Projects\190176-00-NG_Batavia_Art_7\GIS\NG_Lockport_Batavia_Invasive_Species.mxd - 11:19:14 AM

FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

Structure
Invasive Species Section Boundary
Transmission Line 112
Proposed Transmission Line 112 Reroute
Road
Project Study Limits
Wildlife Management Area (WMA)
Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

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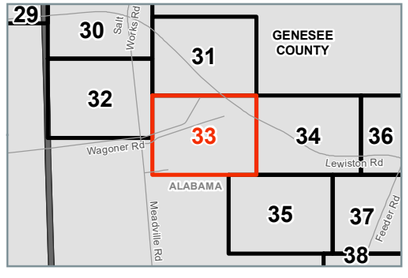

SHEET 33 OF 45

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NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

SHEET 31

SHEET 33

SHEET 36

STATE HWY 77

LEWISTON RD

TONAWANDA WMA

INVASIVE SECTION: 27
TIER: 1

SHEET 35

SHEET 37

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

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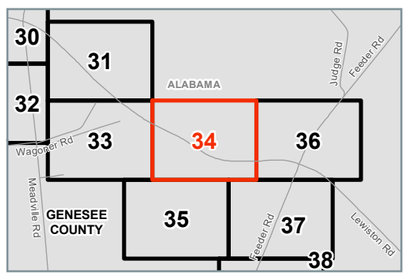

SHEET 34 OF 45

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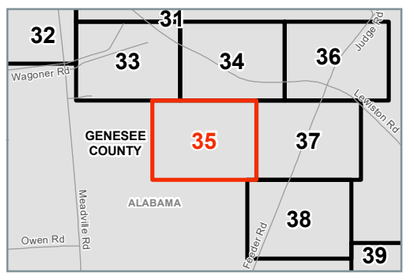
NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021	Aerial Date: 2017

0 100 200 Feet



SHEET 35 OF 45

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NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

SHEET 34

JUDGE RD

INVASIVE SECTION: 27
TIER: 1

LEWISTON RD

STATE HWY 77

LEWISTON RD

TONAWANDA WMA

FEEDER RD

LEWISTON RD

SHEET 37

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

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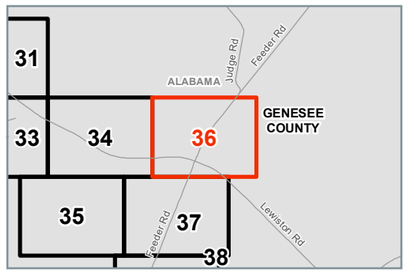

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NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

SHEET 34

SHEET 36

SHEET 35

SHEET 38

LEWISTON RD

STATE HWY 77

TONAWANDA WMA

FEEDER RD

INVASIVE SECTION: 22
TIER: 3

INVASIVE SECTION: 27
TIER: 1

158

TONAWANDA WMA

SEGMENT

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

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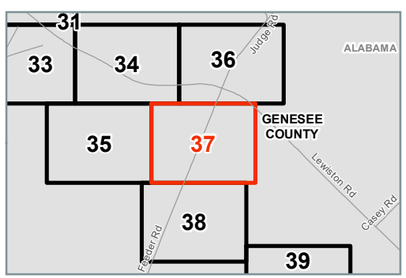

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SHEET 35

SHEET 37

159

160

161

162

163

SEGMENT #27

SEGMENT #22

INVASIVE SECTION: 27
TIER: 1

INVASIVE SECTION: 22
TIER: 3

TONAWANDA WMA

FEEDER RD

SHEET 39

H:\Projects\190176-00-NG_Batavia_Art_7\GIS\NG_Lockport_Batavia_Invasive_Species.mxd - 11:19:14 AM

FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

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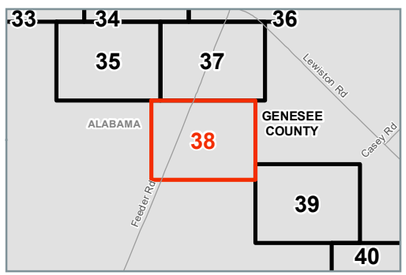


FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

SHEET 38

164

165

166

167

168

TONAWANDA WMA

TONAWANDA WMA

INVASIVE SECTION: 22
TIER: 3

SHEET 40

SEGMENT #22

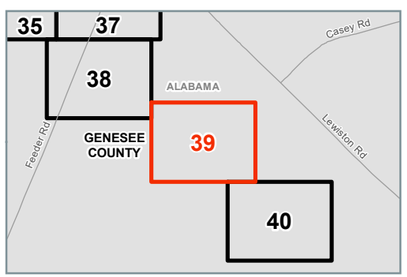
SEGMENT #23

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

0 100 200 Feet



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NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

SHEET 39

TONAWANDA WMA

SEGMENT #22

SEGMENT #23

169

170

171

172

173

INVASIVE SECTION: 22
TIER: 3

TONAWANDA WMA

INVASIVE SECTION: 23
TIER: 3

TONAWANDA WMA

SEGMENT #23

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

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Map Revision Date: 5/12/2021 | Aerial Date: 2017

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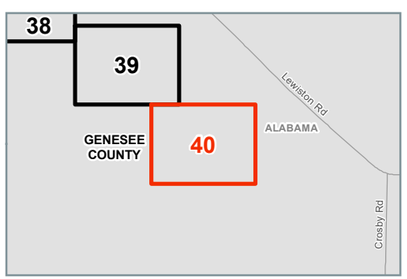

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FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

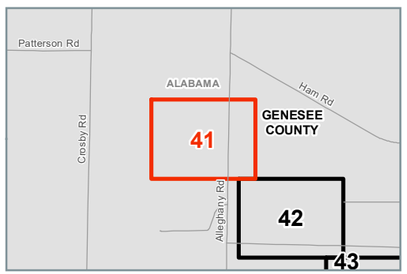
SEGMENT #24
186
187
188
189
190
191
STATE HWY 63 ALLEGHANY RD
SEGMENT #24
SEGMENT #25
JOHN WHITE WMA
JOHN WHITE WMA
INVASIVE SECTION: 25
TIER: 1
INVASIVE SECTION: 24
TIER: 3
SHEET 42

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

0 100 200 Feet



SHEET 41 OF 45

H:\Projects\190176-00-NG Batavia Art 7\GIS\NG Lockport Batavia Invasive Species.mxd - 11:19:14 AM

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NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

SHEET 41

191

191-1

192

INVASIVE SECTION: 25
TIER: 1

193

JOHN WHITE WMA

194

195

UNNAMED STREET

196

SHEET 43

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

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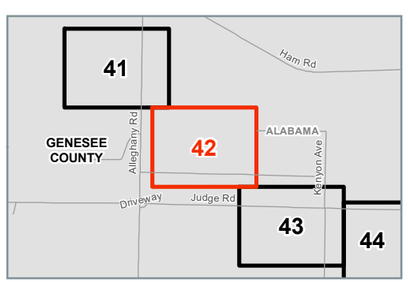
Map Revision Date: 5/12/2021 | Aerial Date: 2017

0 100 200 Feet



SHEET 42 OF 45

H:\Projects\190176-00-NG Batavia Art 7\GIS\NG Lockport Batavia Invasive Species.mxd - 11:19:14 AM

FISHER ASSOCIATES

NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

SHEET 42

196

JOHN WHITE WMA

197

SEGMENT #25

SEGMENT #26

JUDGE RD

STATE HWY 63

JUDGE RD

198

199

200

201

KENYON AVE

KENYON RD

SHEET 44

INVASIVE SECTION: 25
TIER: 1

INVASIVE SECTION: 26
TIER: 1

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

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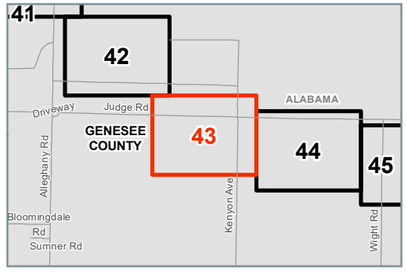
Map Revision Date: 5/12/2021 | Aerial Date: 2017

0 100 200 Feet



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NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

- Structure
- Invasive Species Section Boundary
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- Proposed Transmission Line 112 Reroute
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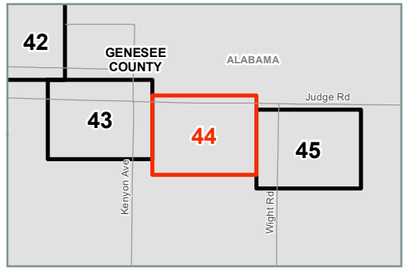
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021	Aerial Date: 2017

0 100 200 Feet



SHEET 44 OF 45

H:\Projects\190176-00-NG Batavia Art 7\GIS\NG Lockport Batavia Invasive Species.mxd - 11:19:14 AM

FISHER ASSOCIATES

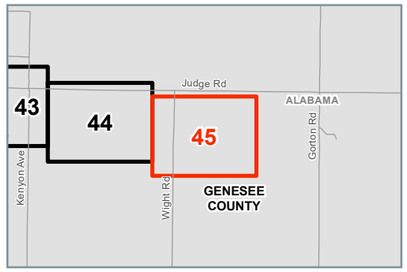
NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: INVASIVE SPECIES INVENTORY MAP

- Structure
- Invasive Species Section Boundary
- Transmission Line 112
- Proposed Transmission Line 112 Reroute
- Road
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

The invasive species inventory is based on field observations from August to October 2019.

Map Revision Date: 5/12/2021 | Aerial Date: 2017

0 100 200 Feet



SHEET 45 OF 45

H:\Projects\190176-00-NG Batavia Art 7\GIS\NG Lockport Batavia Invasive Species.mxd - 11:19:14 AM

TABLES

Table 1:
Invasive Species Inventory

Invasive Species Segment	Location	Total Area (Acres)	Invasive Species Observed		Relative Aerial Coverage	Abundance (Approximate Relative Aerial Coverage) (%)*	Tier
			Common Name	Scientific Name			
1	Structure 1-2 to Erie Canal	3.10	Autumn Olive	*Elaeagnus umbellata*	Moderate	7%	3
			Phragmites	*Phragmites australis*	Abundant	39%	
			Spotted Knapweed	*Centaurea stoebe*	Abundant	26%	
2	Erie Canal to Lockport Bypass Road (NYS Route 93)	7.50	Common Buckthorn	*Rhamnus cathartica*	Sparse	3%	3
			Morrow's Honeysuckle	*Lonicera morrowii*	Sparse	5%	
			Phragmites	*Phragmites australis*	Moderate	15%	
			Purple Loosestife	*Lythrum salicaria*	Abundant	60%	
3	Lockport Bypass Road (NYS Route 93) to Mowed Access Road (near Structure 8)	8.38	Canada Thistle	*Cirsium arvense*	Moderate	12%	3
			Common Buckthorn	*Rhamnus cathartica*	Sparse	4%	
			Cut Leaf Teasel	*Dipsacus laciniatus*	Moderate	19%	
			Morrow's Honeysuckle	*Lonicera morrowii*	Moderate	7%	
			Phragmites	*Phragmites australis*	Sparse	5%	
			Purple Loosestife	*Lythrum salicaria*	Abundant	30%	
4	Mowed Access Road (near Structure 8) to Londonaire Drive	6.02	Canada Thistle	*Cirsium arvense*	Moderate	18%	3
			Common Buckthorn	*Rhamnus cathartica*	Sparse	5%	
			Cut Leaf Teasel	*Dipsacus laciniatus*	Moderate	22%	
			Morrow's Honeysuckle	*Lonicera morrowii*	Sparse	5%	
			Phragmites	*Phragmites australis*	Sparse	5%	
			Purple Loosestife	*Lythrum salicaria*	Moderate	11%	
			Spotted Knapweed	*Centaurea stoebe*	Abundant	26%	
5	Londonaire Drive to South Transit Road (NYS Route 78)	5.34	Canada Thistle	*Cirsium arvense*	Sparse	2%	3
			Phragmites	*Phragmites australis*	Abundant	25%	
			Purple Loosestife	*Lythrum salicaria*	Abundant	25%	
			Spotted Knapweed	*Centaurea stoebe*	Moderate	7%	
6	South Transit Road to Snyder Drive	5.05	**No Invasives Observed**		-	-	1
7	Snyder Drive to Locust Street	7.90	Canada Thistle	*Cirsium arvense*	Abundant	29%	3
			Common Buckthorn	*Rhamnus cathartica*	Moderate	6%	
			Cut Leaf Teasel	*Dipsacus laciniatus*	Abundant	25%	
			Morrow's Honeysuckle	*Lonicera morrowii*	Sparse	2%	
			Purple Loosestife	*Lythrum salicaria*	Moderate	6%	
			Spotted Knapweed	*Centaurea stoebe*	Abundant	25%	

Table 1:
Invasive Species Inventory

Invasive Species Segment	Location	Total Area (Acres)	Invasive Species Observed		Relative Aerial Coverage	Abundance (Approximate Relative Aerial Coverage) (%)*	Tier
			Common Name	Scientific Name			
8	Locust Street to Beattie Avenue (County Route 14)	8.14	Canada Thistle	*Cirsium arvense*	Abundant	28%	3
			Cut Leaf Teasel	*Dipsacus laciniatus*	Abundant	25%	
			Purple Loosestife	*Lythrum salicaria*	Moderate	15%	
			Spotted Knapweed	*Centaurea stoebe*	Moderate	24%	
9	Beattie Avenue (County Route 14) to Bowmiller Road	31.42	Common Buckthorn	*Rhamnus cathartica*	Sparse	4%	3
			Cut Leaf Teasel	*Dipsacus laciniatus*	Abundant	29%	
			Morrow's Honeysuckle	*Lonicera morrowii*	Moderate	20%	
			Phragmites	*Phragmites australis*	Moderate	12%	
			Purple Loosestife	*Lythrum salicaria*	Moderate	13%	
			Spotted Knapweed	*Centaurea stoebe*	Abundant	50%	
10	Bowmiller Road to Wynkoop Road	17.45	Canada Thistle	*Cirsium arvense*	Moderate	8%	3
			Common Buckthorn	*Rhamnus cathartica*	Sparse	4%	
			Cut Leaf Teasel	*Dipsacus laciniatus*	Moderate	13%	
			Purple Loosestife	*Lythrum salicaria*	Moderate	16%	
			Spotted Knapweed	*Centaurea stoebe*	Abundant	31%	
11	Wynkoop Road to Oak Lane	12.27	Common Buckthorn	*Rhamnus cathartica*	Moderate	12%	3
			Cut Leaf Teasel	*Dipsacus laciniatus*	Moderate	15%	
			Morrow's Honeysuckle	*Lonicera morrowii*	Sparse	5%	
			Phragmites	*Phragmites australis*	Moderate	20%	
			Purple Loosestife	*Lythrum salicaria*	Abundant	29%	
			Spotted Knapweed	*Centaurea stoebe*	Abundant	27%	
12	Oak Lane to Akron Road (County Route 142)	17.46	Cut Leaf Teasel	*Dipsacus laciniatus*	Abundant	25%	3
			Morrow's Honeysuckle	*Lonicera morrowii*	Sparse	3%	
			Phragmites	*Phragmites australis*	Sparse	5%	
			Purple Loosestife	*Lythrum salicaria*	Abundant	28%	
			Spotted Knapweed	*Centaurea stoebe*	Moderate	20%	
13	Akron Road (County Route 142) to Singer Road	23.02	Canada Thistle	*Cirsium arvense*	Sparse	4%	3
			Cut Leaf Teasel	*Dipsacus laciniatus*	Abundant	26%	
			Morrow's Honeysuckle	*Lonicera morrowii*	Sparse	5%	
			Purple Loosestife	*Phragmites australis*	Abundant	29%	
			Spotted Knapweed	*Centaurea stoebe*	Moderate	7%	

Table 1:
Invasive Species Inventory

Invasive Species Segment	Location	Total Area (Acres)	Invasive Species Observed		Relative Aerial Coverage	Abundance (Approximate Relative Aerial Coverage) (%)*	Tier
			Common Name	Scientific Name			
14	Singer Road to Gasport Road	27.63	Common Buckthorn	*Rhamnus cathartica*	Moderate	8%	3
			Cut Leaf Teasel	*Dipsacus laciniatus*	Moderate	10%	
			Morrow's Honeysuckle	*Lonicera morrowii*	Sparse	3%	
			Phragmites	*Phragmites australis*	Sparse	4%	
			Purple Loosestife	*Lythrum salicaria*	Abundant	27%	
			Spotted Knapweed	*Centaurea stoebe*	Moderate	8%	
15	Gasport Road to Ward Road	14.52	Canada Thistle	*Cirsium arvense*	Moderate	6%	3
			Common Buckthorn	*Rhamnus cathartica*	Sparse	4%	
			Phragmites	*Phragmites australis*	Moderate	10%	
			Purple Loosestife	*Lythrum salicaria*	Abundant	28%	
			Spotted Knapweed	*Centaurea stoebe*	Sparse	3%	
16	Ward Road to Royalton Center Road (County Route 55)	26.07	Phragmites	*Phragmites australis*	Moderate	6%	3
			Purple Loosestife	*Lythrum salicaria*	Abundant	29%	
			Spotted Knapweed	*Centaurea stoebe*	Sparse	35%	
17	Royalton Center Road (County Route 55) to Arnold Road	17.45	Canada Thistle	*Cirsium arvense*	Sparse	4%	3
			Phragmites	*Phragmites australis*	Moderate	8%	
			Purple Loosestife	*Lythrum salicaria*	Abundant	27%	
18	Arnold Road to Lewsiton Road (NYS Route 77)	12.10	Canada Thistle	*Cirsium arvense*	Moderate	6%	3
			Cut Leaf Teasel	*Dipsacus laciniatus*	Moderate	15%	
			Phragmites	*Phragmites australis*	Sparse	4%	
			Purple Loosestife	*Lythrum salicaria*	Abundant	26%	
19	Lewiston Road (NYS Route 77) to Griswold Street (County Route 905)	22.84	Phragmites	*Phragmites australis*	Moderate	13%	3
20	Griswold Street (County Route 905) to Structure 134 (Along boundary of Tonawanda WMA)	24.91	Canada Thistle	*Cirsium arvense*	Sparse	4%	3
			Cut Leaf Teasel	*Dipsacus laciniatus*	Sparse	1%	
			Morrow's Honeysuckle	*Lonicera morrowii*	Moderate	7%	
21	Structure 134 to Structure 149 (Located within Tonawanda WMA)	25.16	Autumn Olive	*Elaeagnus umbellata*	Sparse	1%	3
			Canada Thistle	*Cirsium arvense*	Sparse	5%	
			Common Duckweed	*Lemna minor*	Sparse	3%	
			Morrow's Honeysuckle	*Lonicera morrowii*	Moderate	7%	
			Phragmites	*Phragmites australis*	Moderate	10%	

Table 1:
Invasive Species Inventory

Invasive Species Segment	Location	Total Area (Acres)	Invasive Species Observed		Relative Aerial Coverage	Abundance (Approximate Relative Aerial Coverage) (%)*	Tier
			Common Name	Scientific Name			
22	Structure 149 to Structure 169 (Located within Tonawanda WMA)	31.95	Autumn Olive	*Elaeagnus umbellata*	Moderate	15%	3
			Canada Thistle	*Cirsium arvense*	Moderate	9%	
			Purple Loosestife	*Lythrum salicaria*	Abundant	26%	
			Phragmites	*Phragmites australis*	Sparse	2%	
23	Structure 169 to Structure 173	7.58	Canada Thistle	*Cirsium arvense*	Moderate	20%	3
			Morrow's Honeysuckle	*Lonicera morrowii*	Sparse	3%	
24	Structure 185 to Alleghany Road (NYS Route 63)	6.61	Cut Leaf Teasel	*Dipsacus laciniatus*	Sparse	5%	3
25	Alleghany Road (NYS Route 63) to Judge Road (NYS Route 63) (Located with John White WMA)	14.09	**No Invasives Observed**		-	-	1
26	Judge Road (NYS Route 63) to Structure 210.5	21.91	**No Invasives Observed**		-	-	1
27	Tie-in near Structure 142 to Tie-in near Structure 160 (Proposed re-route for Line 112 in Tonawanda WMA)	54.68	Autumn Olive	*Elaeagnus umbellata*	Sparse	5%	3
			Canada Thistle	*Cirsium arvense*	Sparse	5%	
			Cut Leaf Teasel	*Dipsacus laciniatus*	Sparse	3%	
			Morrow's Honeysuckle	*Lonicera morrowii*	Sparse	2%	
			Multiflora Rose	*Rosa multiflora*	Sparse	3%	
			Phragmites	*Phragmites australis*	Sparse	4%	
28	Additional Project Study Limits from June 2020 Structure 210.5 to Structure 211	1.50	Morrow's Honeysuckle	*Lonicera morrowii*	Moderate	20%	2
			Canada Thistle	*Cirsium arvense*	Moderate	3%	

Notes:

1. The original field investigation was performed by Fisher Associates between August 6 and October 2, 2019. An additional field investigation was performed on June 16, 2020 and November 12 and 13, 2020.
2. The Project was divided into areas titled Invasive Species Segments and were designated a number. These segments were created using geographic indicators such as roads and streams as dividing barriers.
3. Invasive plant species per segment were classified by their estimated relative aerial coverage as indicated in the following breakdown.

   Sparse (<5%)

   Moderate (5-25%)

   Abundant (>25%)

* Relative aerial coverage percentage is based of approximate aerial coverage of the invasive species within the given Invasive Species Segment.

Table 1:
Invasive Species Inventory

Invasive Species Segment	Location	Total Area (Acres)	Invasive Species Observed		Relative Aerial Coverage	Abundance (Approximate Relative Aerial Coverage) (%)*	Tier
			Common Name	Scientific Name			

4. Each Invasive Species Segment was assigned a tier based on the number, type and percent aerial cover of species found within that segment. Tiers are defined as follows:

   Tier 1- Areas with no invasive plant species currently present and areas that have invasive plant species present in sparse relative aerial cover. These areas also did not contain invasive plant species of high concern.

   Tier 2- Areas with one (1) invasive plant species of moderate relative aerial coverage with various amounts of other invasive plant species present of sparse relative aerial coverage; or areas with one (1) invasive plant species present of abundant relative aerial coverage, with various amounts of other invasive plant species present of sparse to moderate relative aerial coverage; and did not contain invasive plant species of high concern.

   Tier 3- Areas with two (2) or more invasive plant species present of moderate and sparse relative aerial coverage; and/or contained or suspected to contain invasive plant species of high concern.