

### Cassadaga Wind Project Wetland Delineation

Towns of Charlotte, Cherry Creek, Arkwright, and Stockton

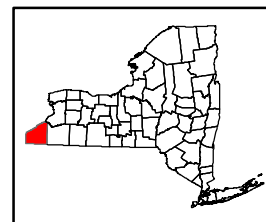
Chautauqua County, New York

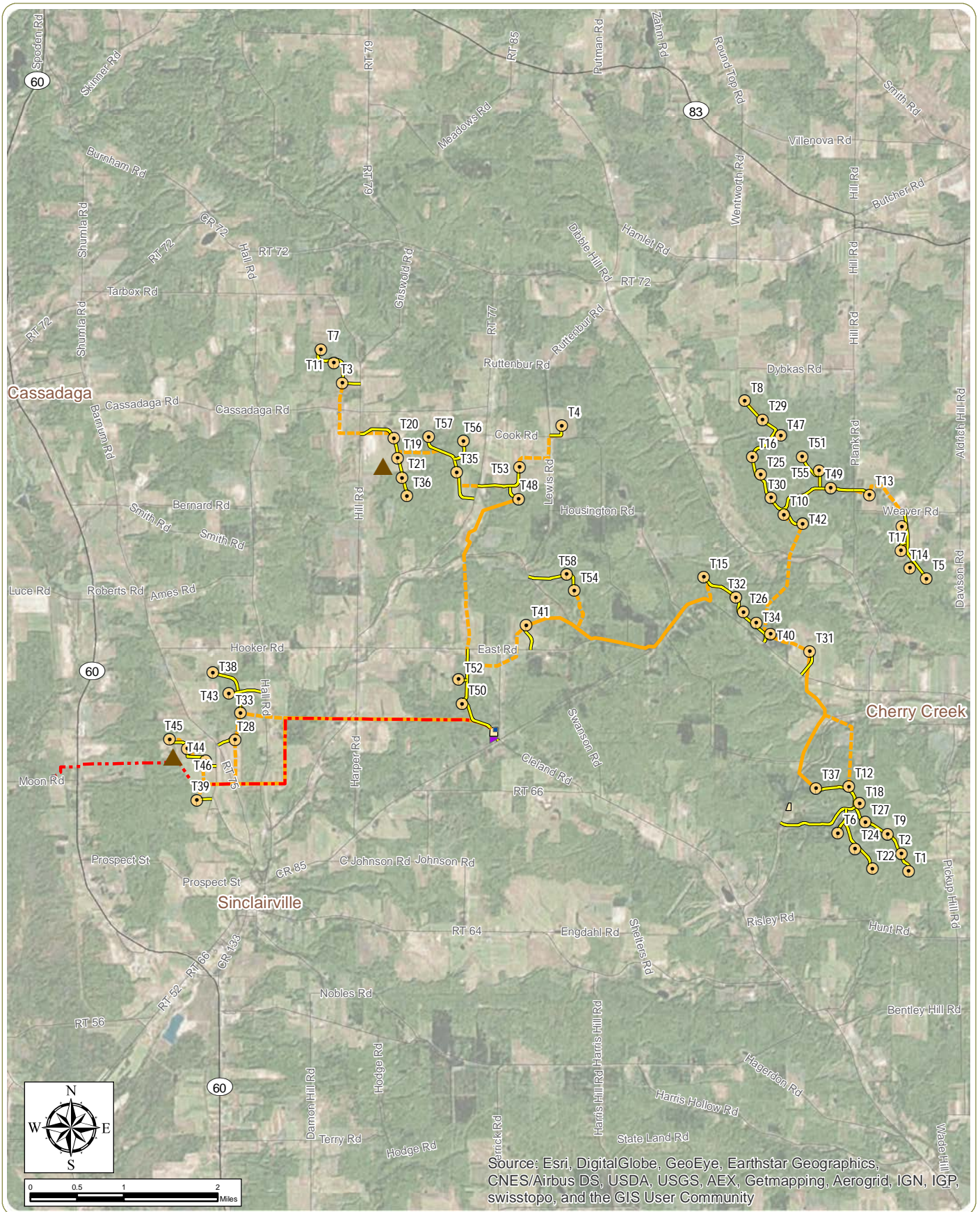
#### Figure 1: Regional Facility Location

March 2016

Notes: 1. Basemap: ESRI ArcGIS Online "World Shaded Relief" Map Service.

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



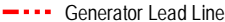
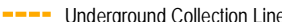


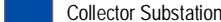



## Cassadaga Wind Project Wetland Delineation

Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
Chautauqua County, New York

### Figure 2: Facility Layout

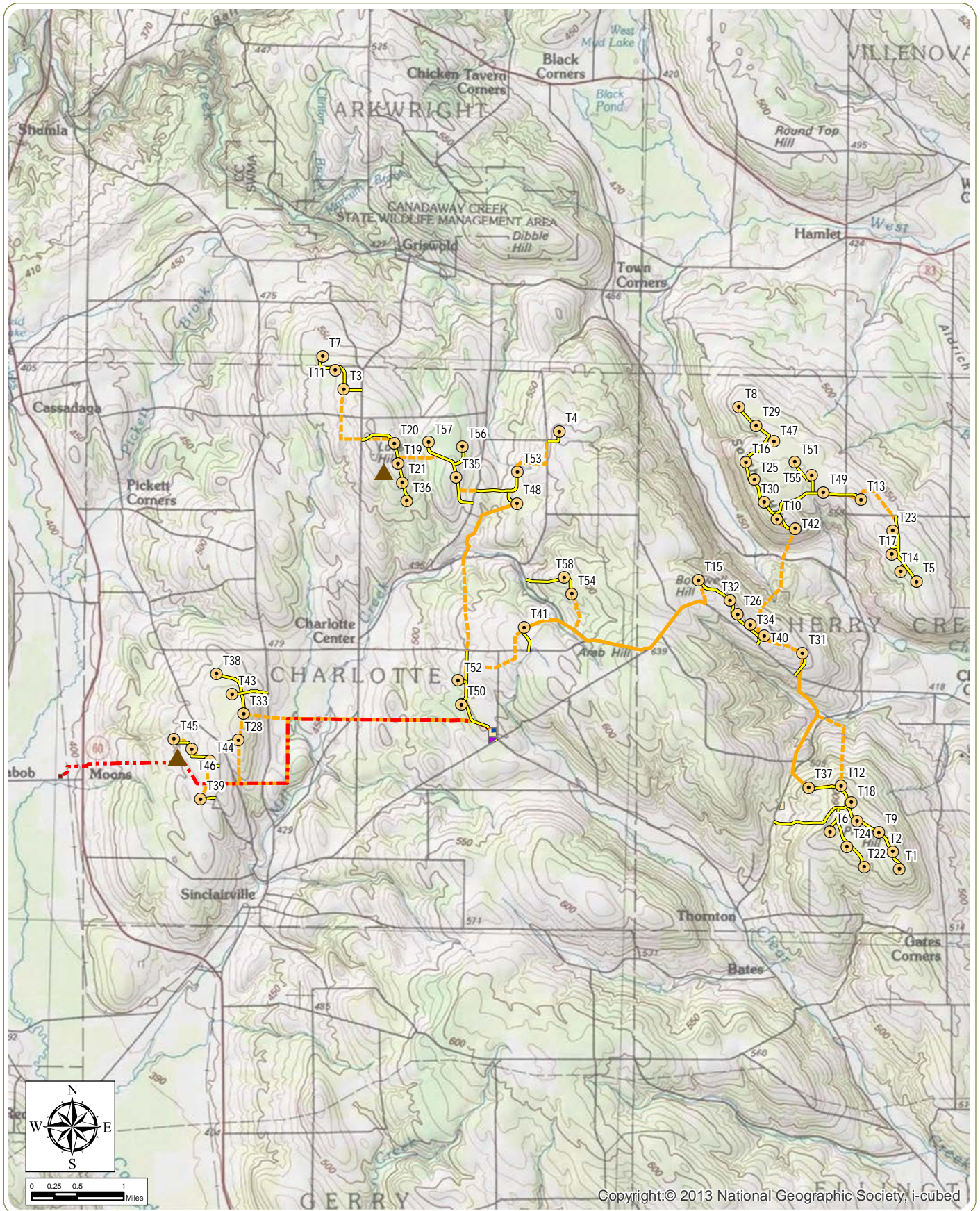
March 2016

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service  
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-  Wind Turbine
-  Access Road
-  Generator Lead Line
-  Underground Collection Line
-  Overhead Collection Line
-  MET tower
-  Collector Substation
-  Laydown Area
-  O&M Building
-  POI Substation



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### Cassadaga Wind Project Wetland Delineation











Towns of Charlotte, Cherrycreek, Arkwright, and Stockton  
Chautauqua County, New York

#### Figure 3: Topographic Mapping

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Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" Map Service

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-  POI Substation
-  Laydown Area
-  O&M Building







## Cassadaga Wind Project Wetland Delineation

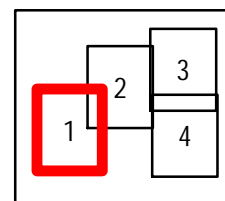
Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
Chautauqua County, New York

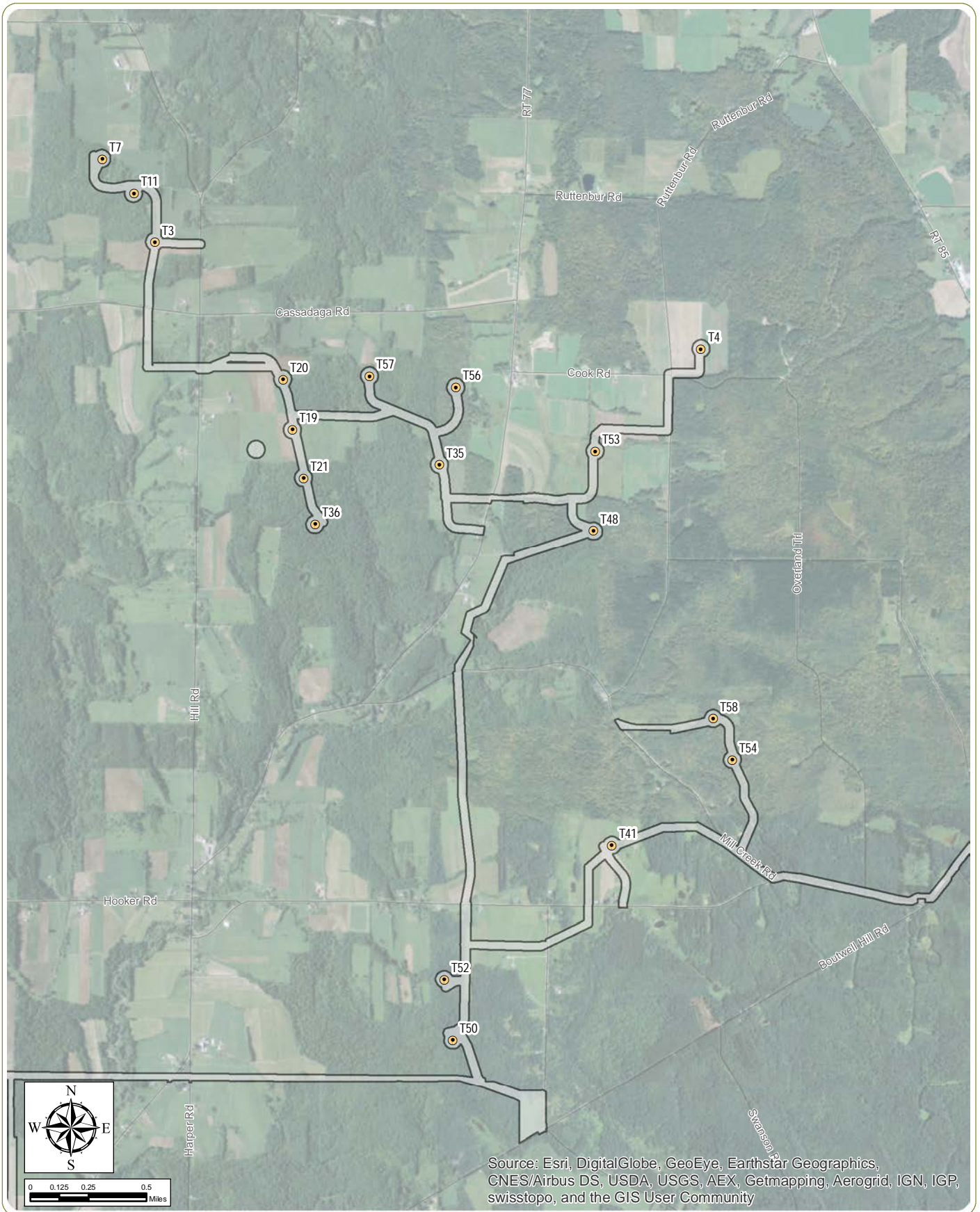
Figure 4: Study Area

March 2016 Sheet 1 of 4

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service  
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-  Wind Turbine
-  Study Area







### Cassadaga Wind Project Wetland Delineation

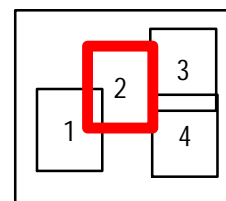
Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
Chautauqua County, New York

#### Figure 4: Study Area

March 2016 Sheet 2 of 4

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-  Wind Turbine
-  Study Area






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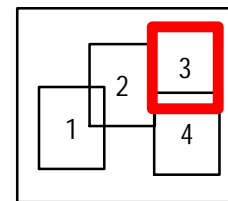
Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
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Figure 4: Study Area

March 2016 Sheet 3 of 4

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● Wind Turbine  
 Study Area







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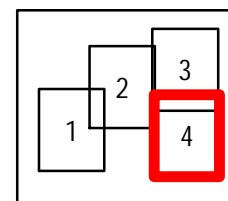
Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
Chautauqua County, New York

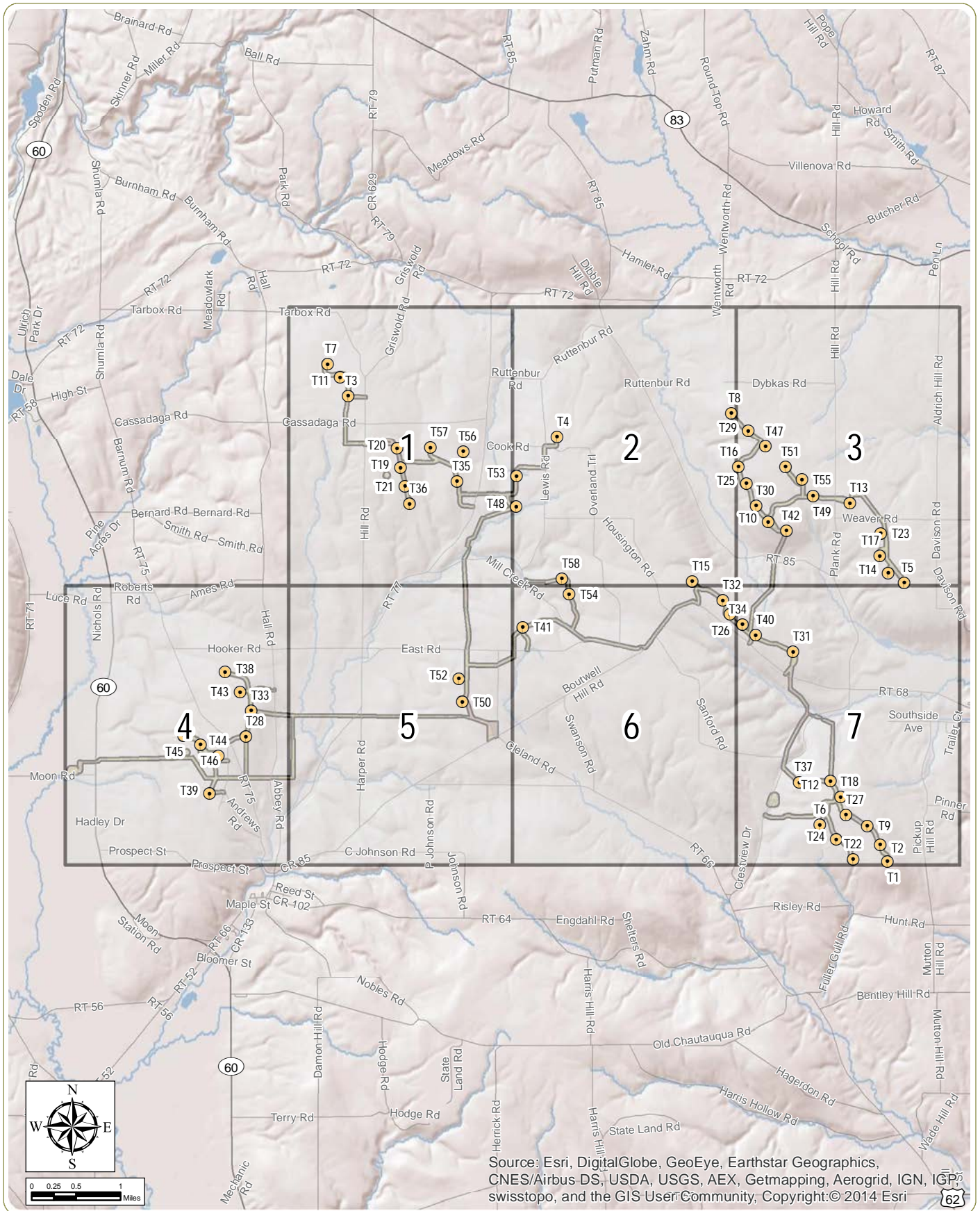
#### Figure 4: Study Area

March 2016 Sheet 4 of 4

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 Wind Turbine  
 Study Area





## Cassadaga Wind Project Wetland Delineation




Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
Chautauqua County, New York

### Figure 5: Study Area Soils Index

March 2016

Notes: 1. Basemap: ESRI ArcGIS Online "World Shaded Relief" Map Service

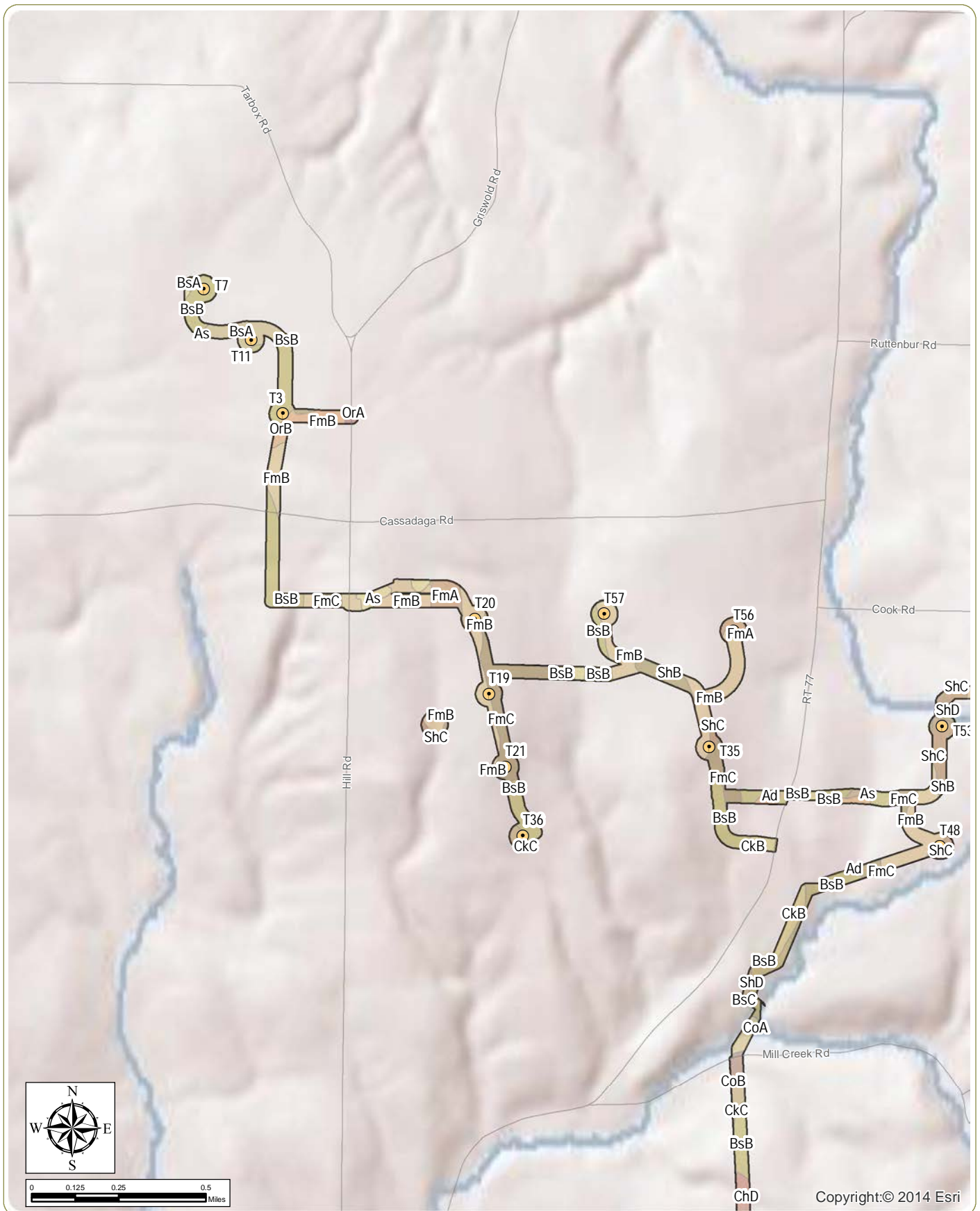
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-  Wind Turbine
-  Study Area
-  Index Sheets



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### Cassadaga Wind Project Wetland Delineation

Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
Chautauqua County, New York

#### Figure 5: Study Area Soils Sheets

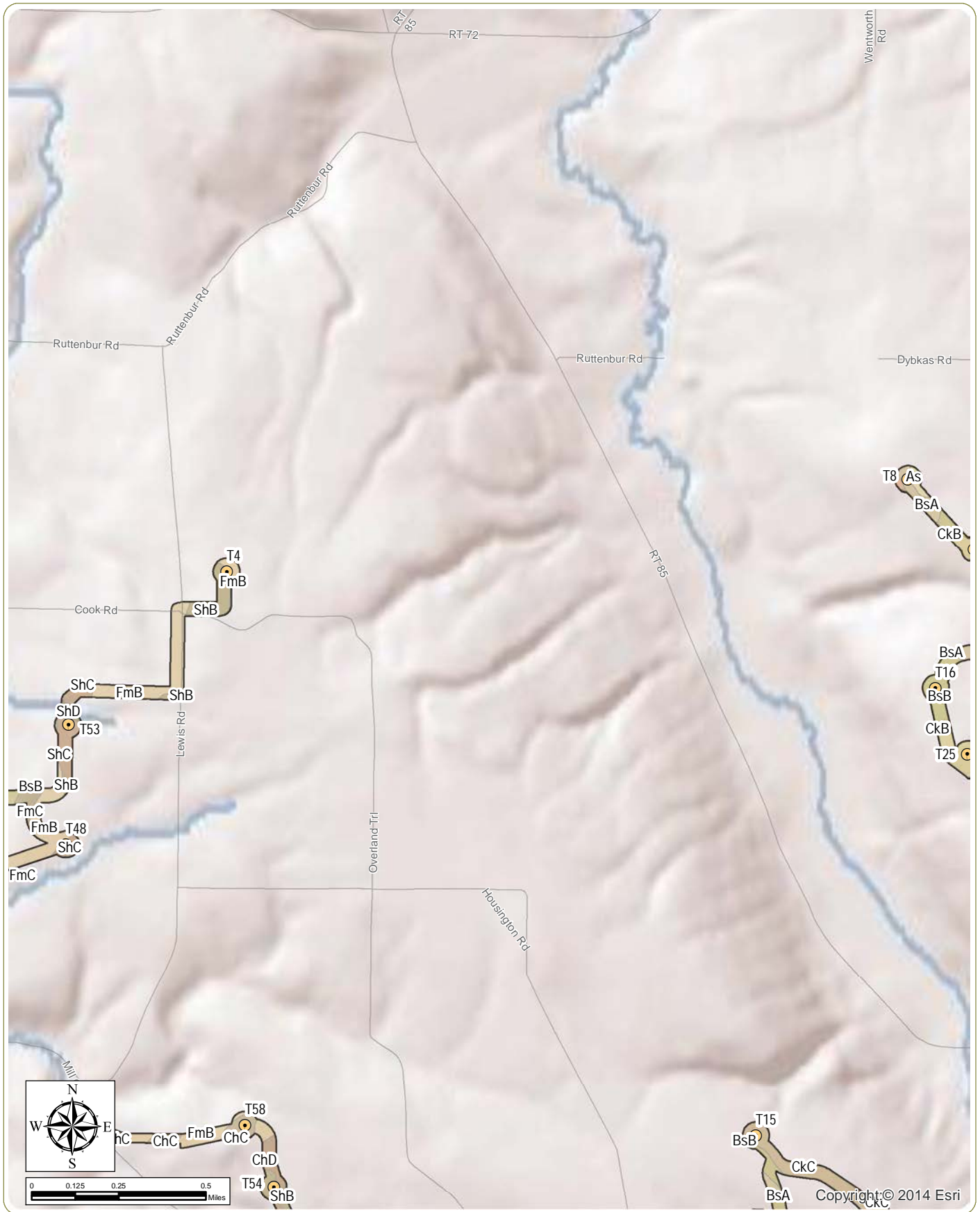
March 2016 Sheet 1 of 7

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-  Wind Turbine
-  Study Area



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### Cassadaga Wind Project Wetland Delineation

Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
Chautauqua County, New York

#### Figure 5: Study Area Soils Sheets

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-  Wind Turbine
-  Study Area





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### Cassadaga Wind Project Wetland Delineation

Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
Chautauqua County, New York

#### Figure 5: Study Area Soils Sheets

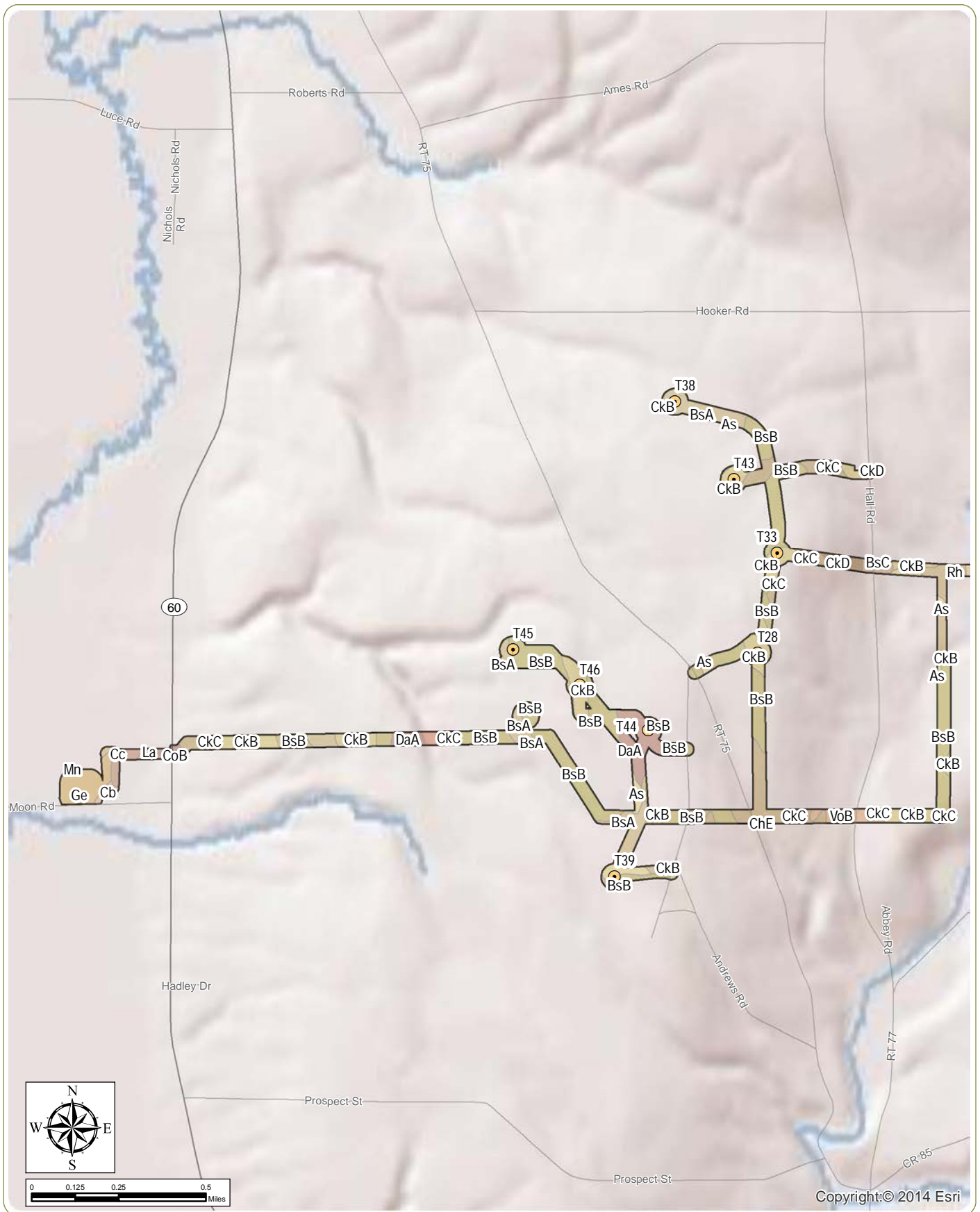
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-  Wind Turbine
-  Study Area



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**Cassadaga Wind Project Wetland Delineation**

Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
 Chautauqua County, New York

**Figure 5: Study Area Soils Sheets**

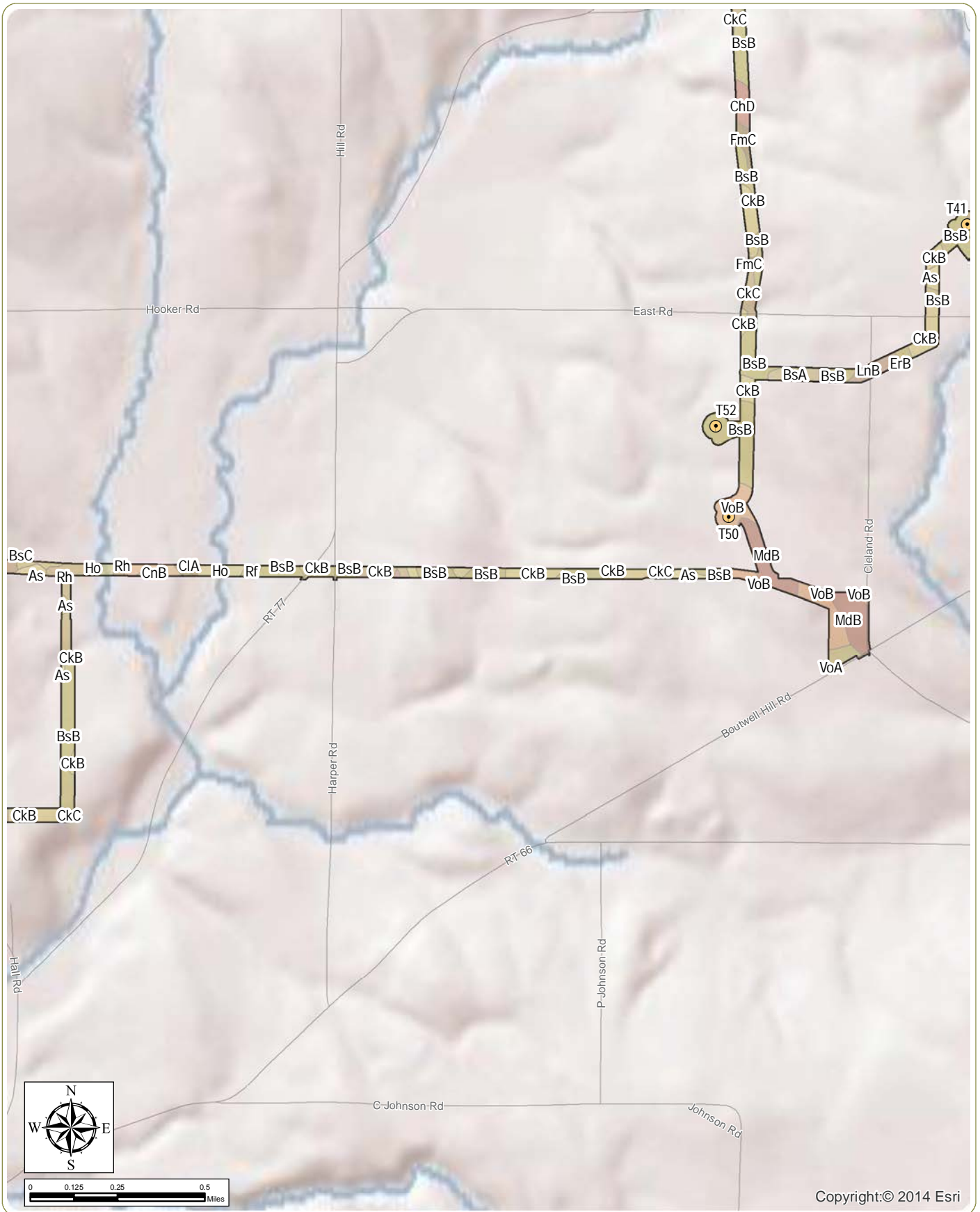
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- Wind Turbine
- Study Area



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Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
 Chautauqua County, New York

**Figure 5: Study Area Soils Sheets**

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
-  Wind Turbine
-  Study Area

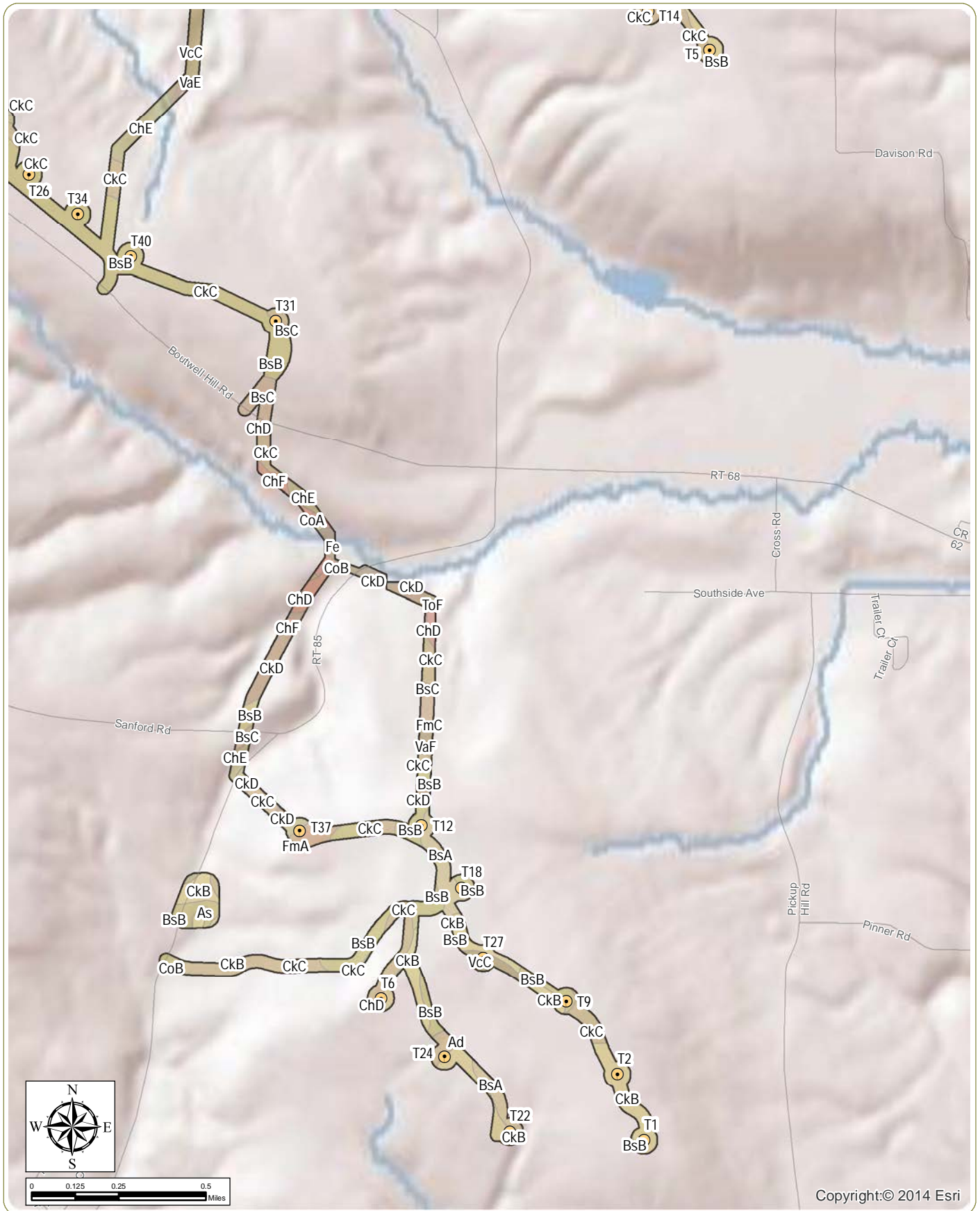




**Cassadaga Wind Project Wetland Delineation**  
 Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
 Chautauqua County, New York  
**Figure 5: Study Area Soils Sheets**  
 March 2016 Sheet 6 of 7

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 Wind Turbine  
 Study Area



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Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
Chautauqua County, New York

#### Figure 5: Study Area Soils Sheets

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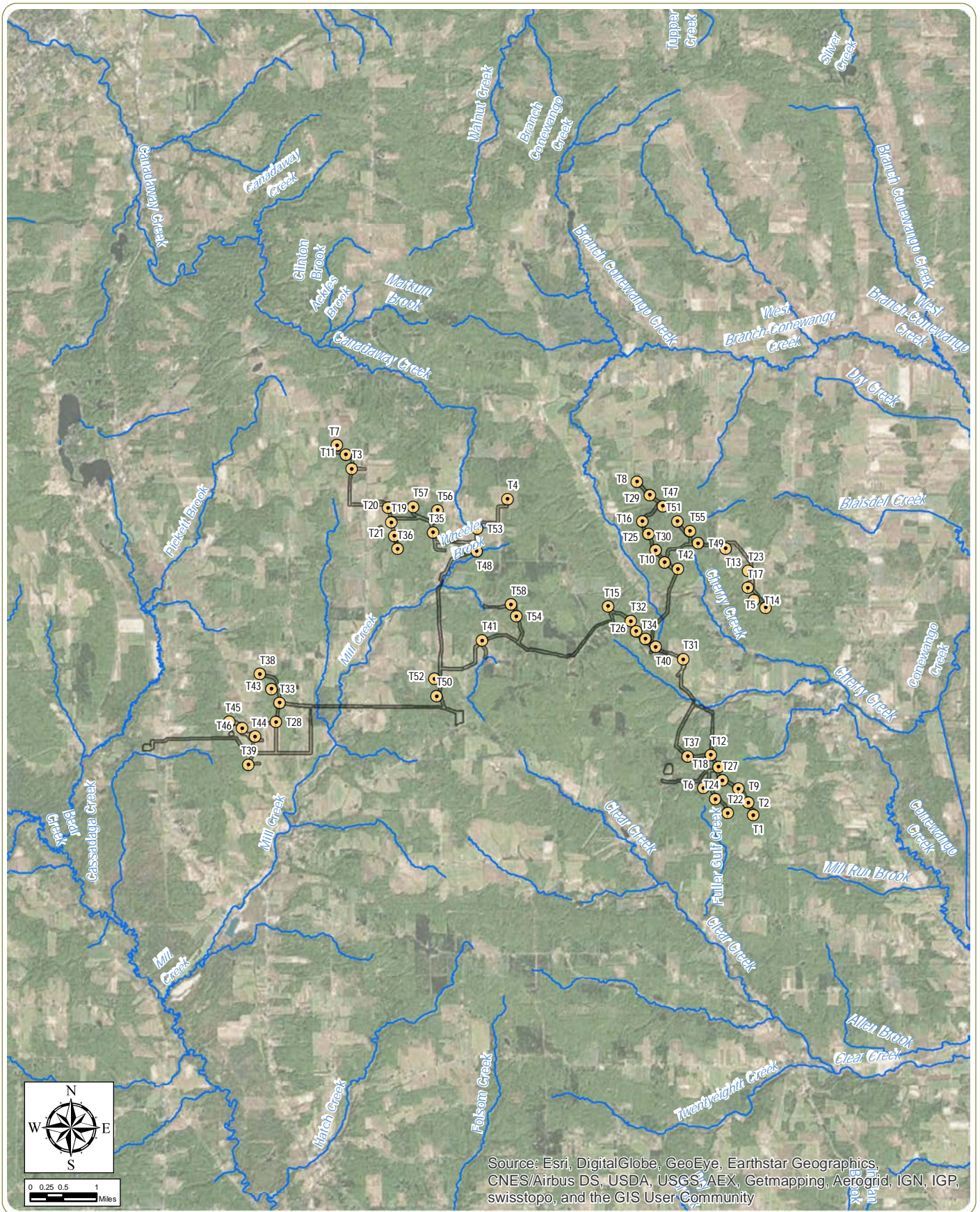
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-  Wind Turbine
-  Study Area



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Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
Chautauqua County, New York

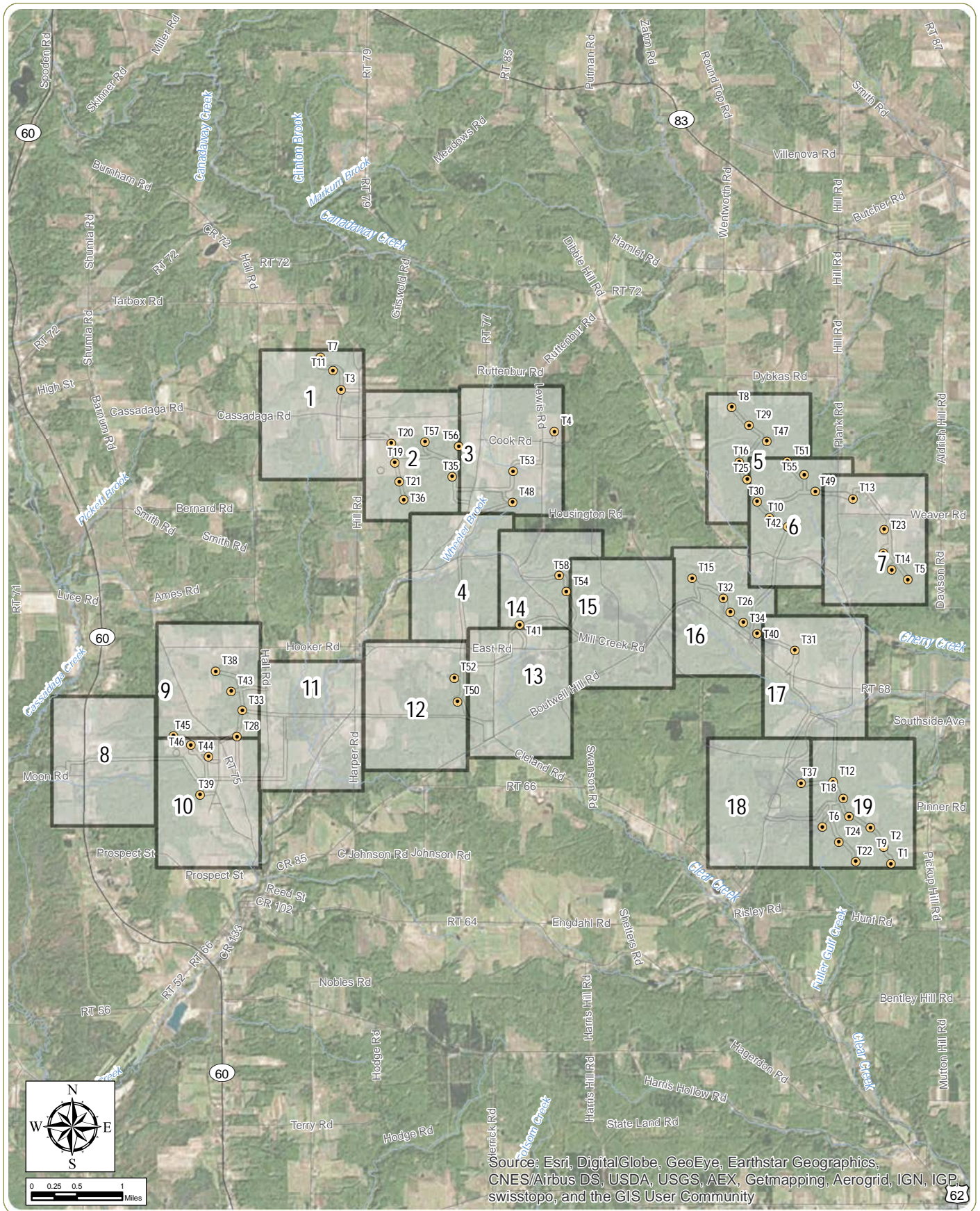
Figure 6: Mapped Streams in the Vicinity of the Study Area

March 2016

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-  Wind Turbine
-  Study Area





### Cassadaga Wind Project Wetland Delineation

Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
Chautauqua County, New York

#### Figure 7: Mapped Wetlands and Streams Index

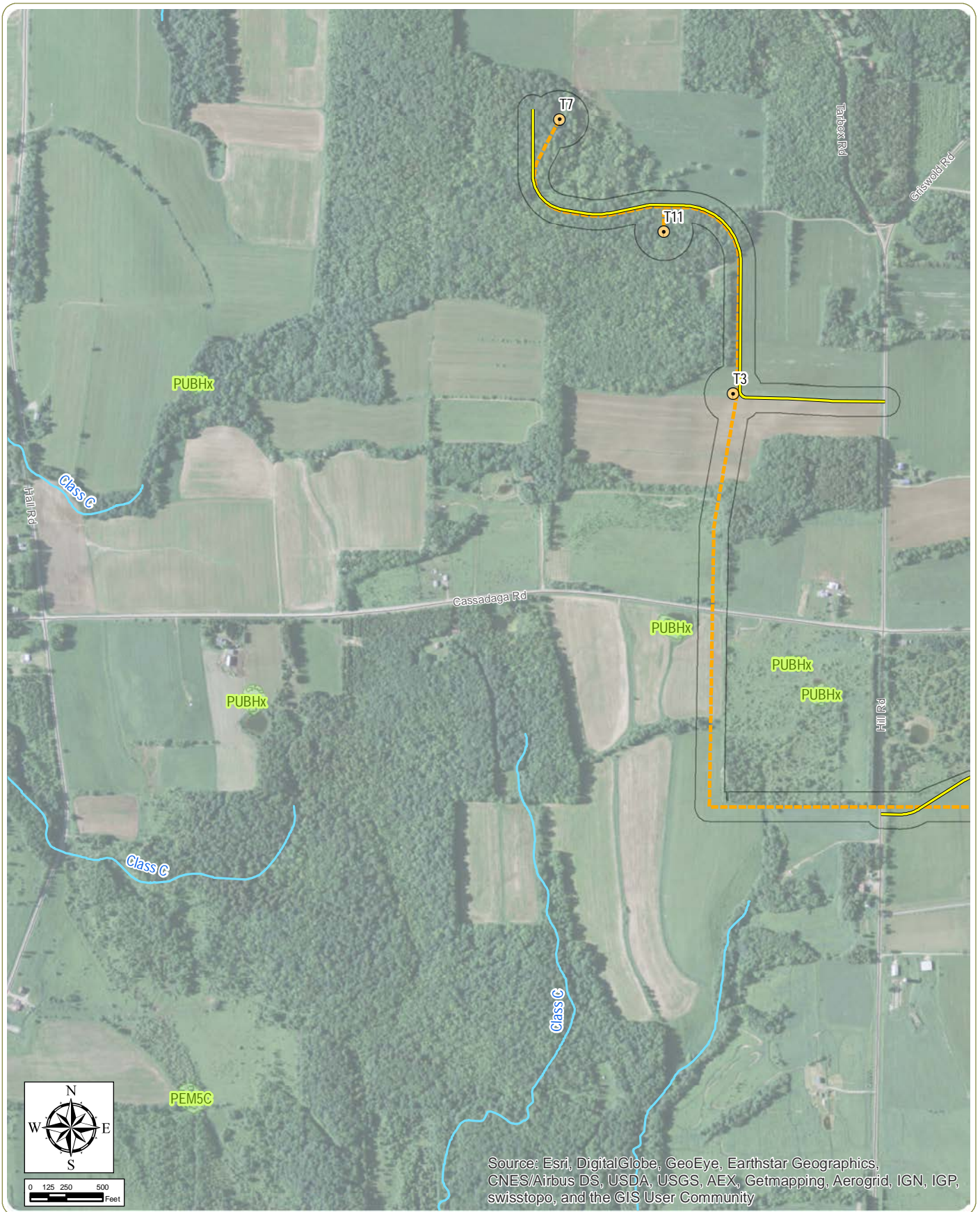
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- Wind Turbine
- Study Area
- Index Sheets





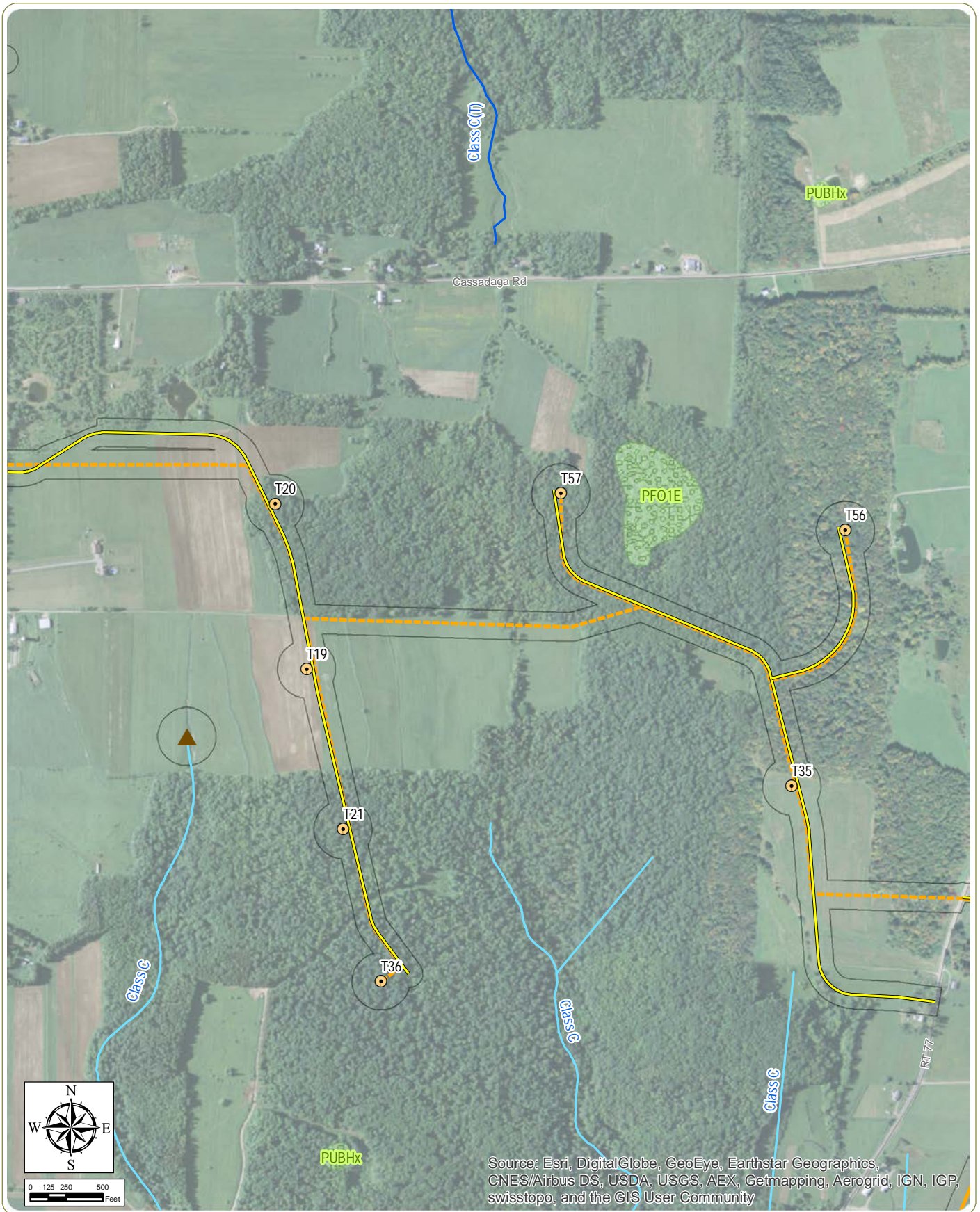
**Cassadaga Wind Project Wetland Delineation**  
 Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
 Chautauqua County, New York  
**Figure 7: Mapped Wetlands and Streams**

March 2016 Sheet 1 of 19

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service  
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- |                             |                      |                      |
|-----------------------------|----------------------|----------------------|
| Wind Turbine                | MET tower            | NYS Protected Stream |
| Access Road                 | Collector Substation | Unprotected Stream   |
| Generator Lead Line         | POI Substation       | NWI Wetland          |
| Underground Collection Line | Laydown Area         | NYSDEC Wetland       |
| Overhead Collection Line    | O&M Building         | Study Area           |





**Cassadaga Wind Project Wetland Delineation**  
 Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
 Chautauqua County, New York  
**Figure 7: Mapped Wetlands and Streams**

March 2016 Sheet 2 of 19

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|-----------------------------|----------------------|----------------------|
| Wind Turbine                | MET tower            | NYS Protected Stream |
| Access Road                 | Collector Substation | Unprotected Stream   |
| Generator Lead Line         | POI Substation       | NWI Wetland          |
| Underground Collection Line | Laydown Area         | NYSDEC Wetland       |
| Overhead Collection Line    | O&M Building         | Study Area           |



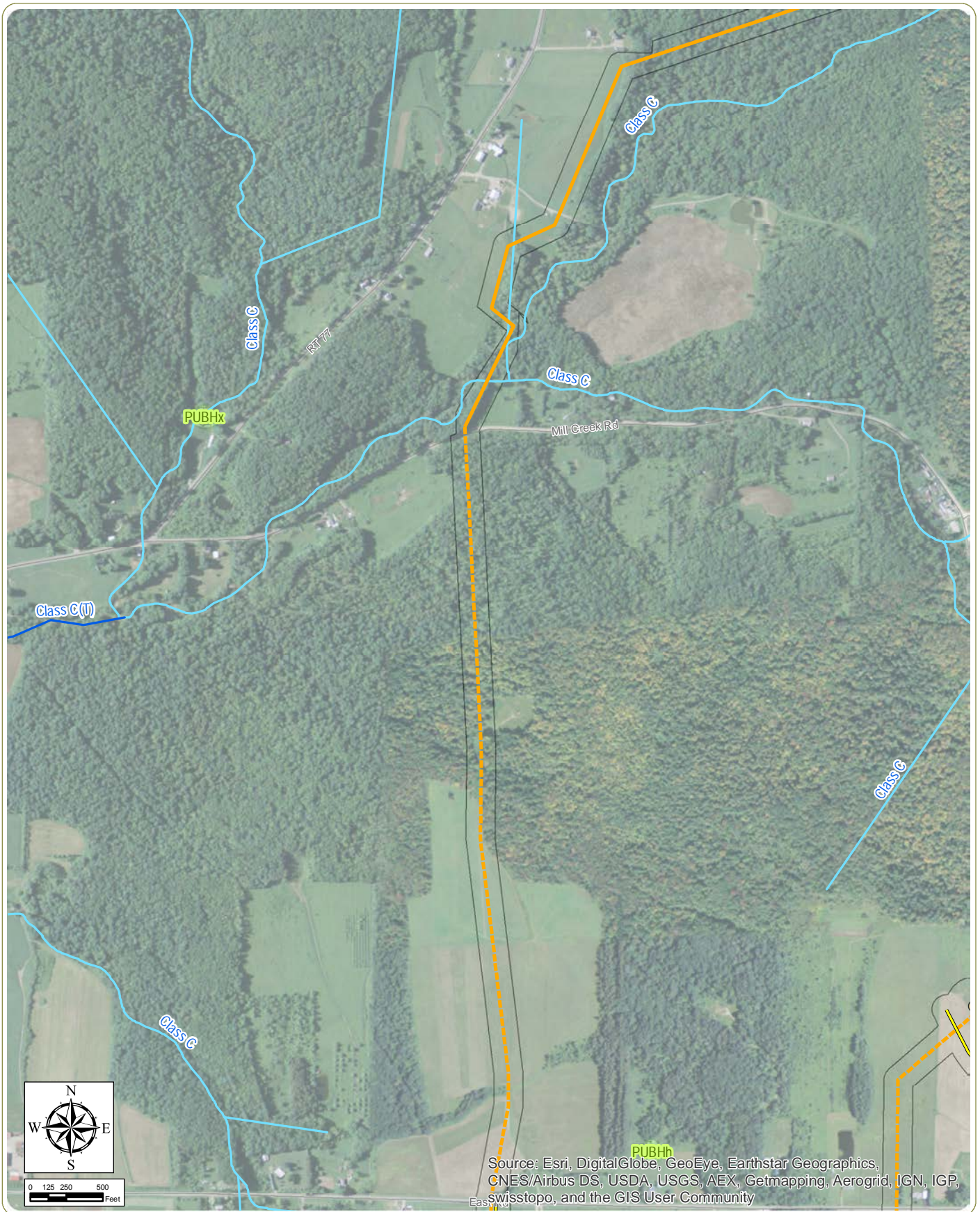


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**Cassadaga Wind Project Wetland Delineation**  
 Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
 Chautauqua County, New York  
**Figure 7: Mapped Wetlands and Streams**  
 March 2016 Sheet 3 of 19  
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- Wind Turbine
- MET tower
- Access Road
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- Overhead Collection Line
- O&M Building
- NYS Protected Stream
- Unprotected Stream
- NWI Wetland
- NYSDEC Wetland
- Study Area





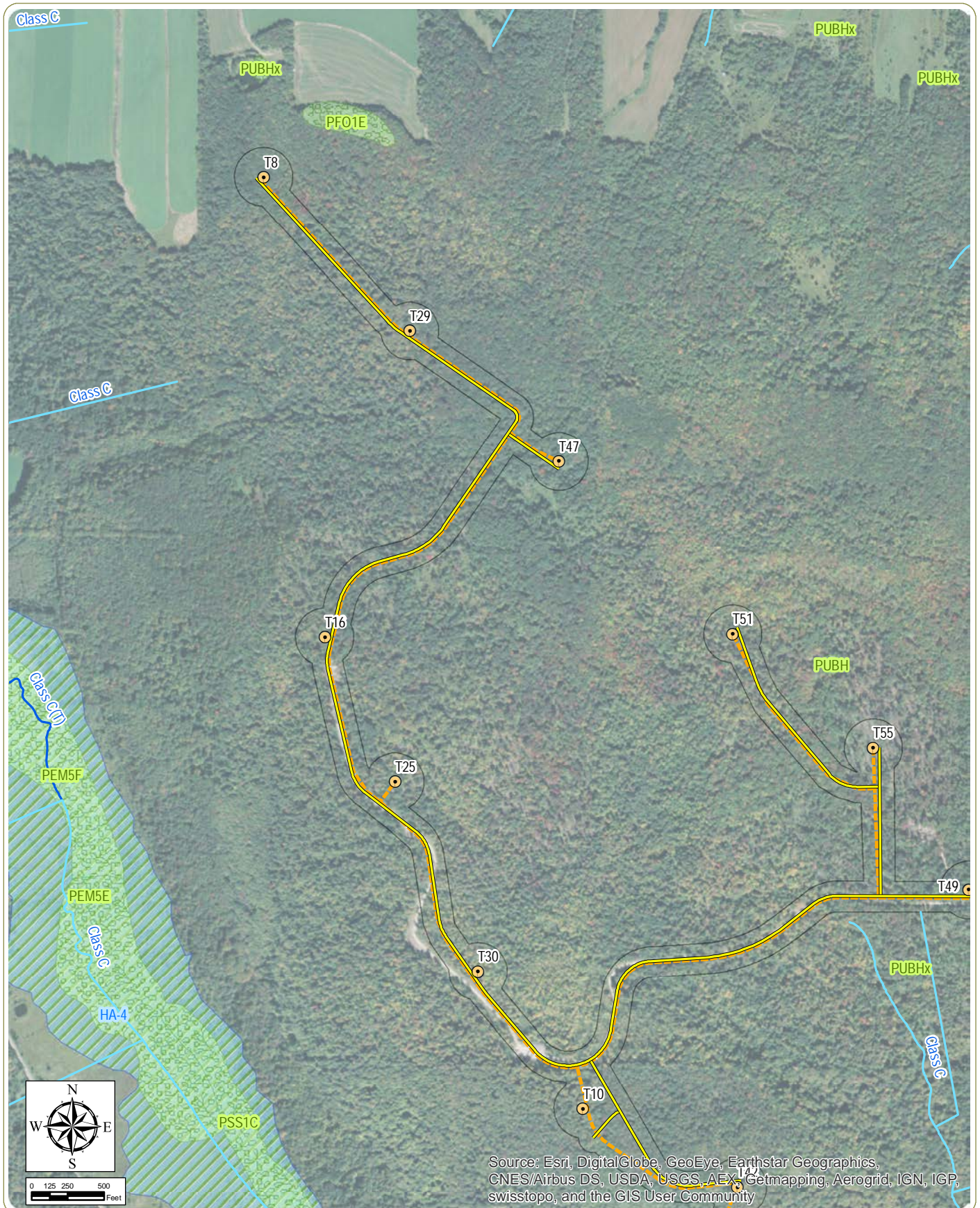
**Cassadaga Wind Project Wetland Delineation**  
 Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
 Chautauqua County, New York  
**Figure 7: Mapped Wetlands and Streams**

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|-----------------------------|----------------------|----------------------|
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| Overhead Collection Line    | O&M Building         | Study Area           |



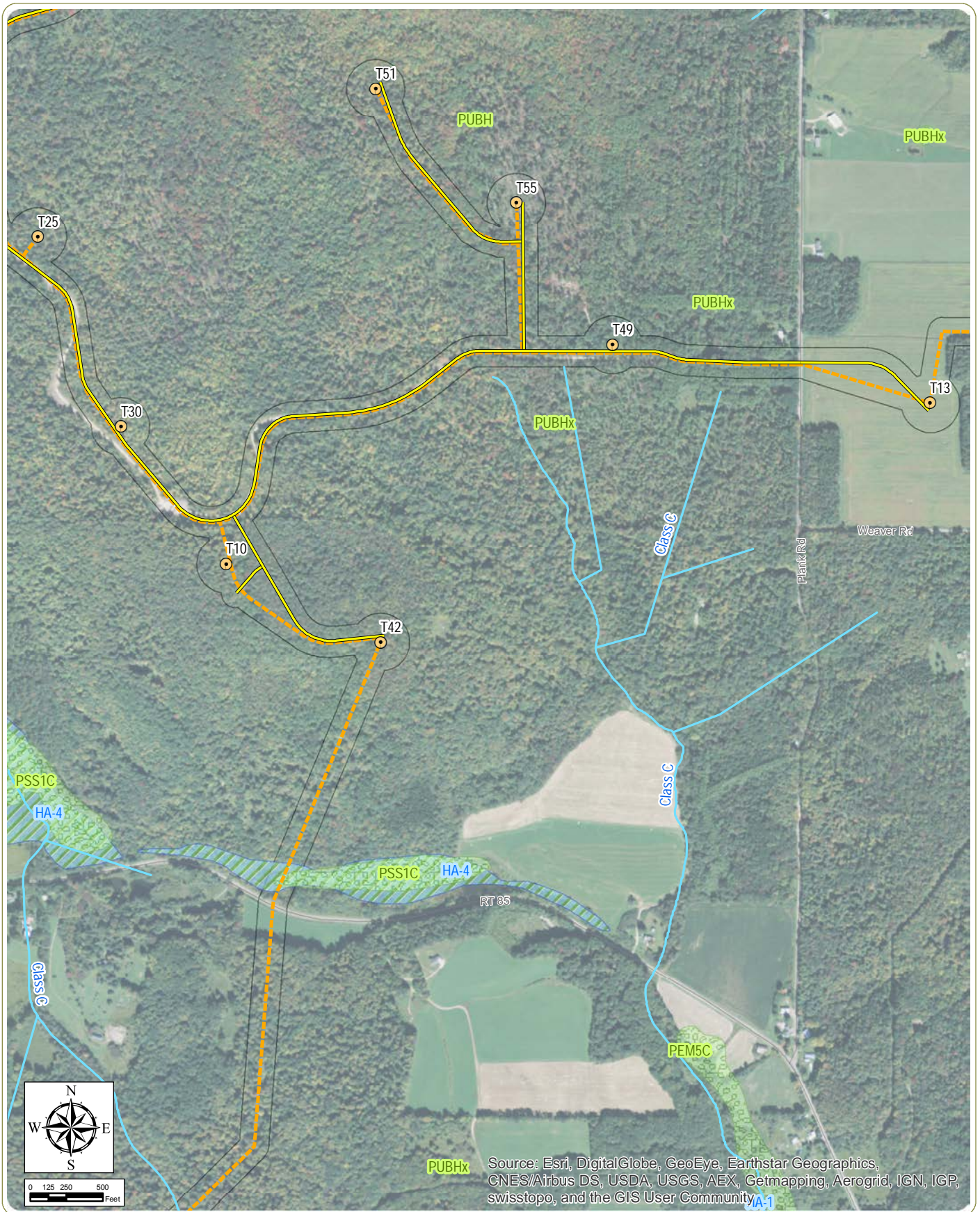


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 Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
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**Figure 7: Mapped Wetlands and Streams**  
 March 2016 Sheet 5 of 19  
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- Wind Turbine
- MET tower
- NYS Protected Stream
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- Unprotected Stream
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- POI Substation
- NWI Wetland
- Laydown Area
- NYSDEC Wetland
- Underground Collection Line
- O&M Building
- Study Area
- Overhead Collection Line





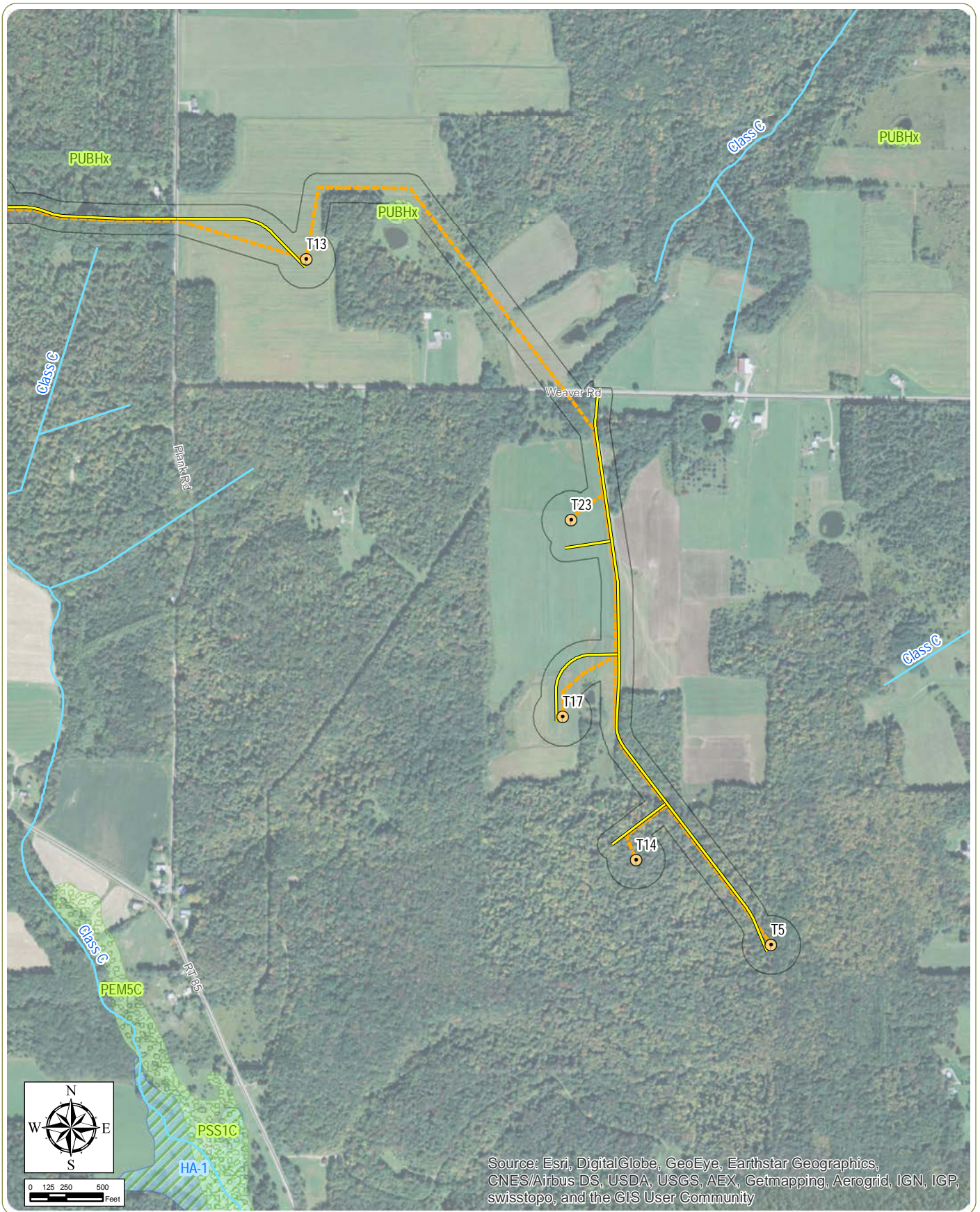
**Cassadaga Wind Project Wetland Delineation**  
 Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
 Chautauqua County, New York  
**Figure 7: Mapped Wetlands and Streams**

March 2016 Sheet 6 of 19

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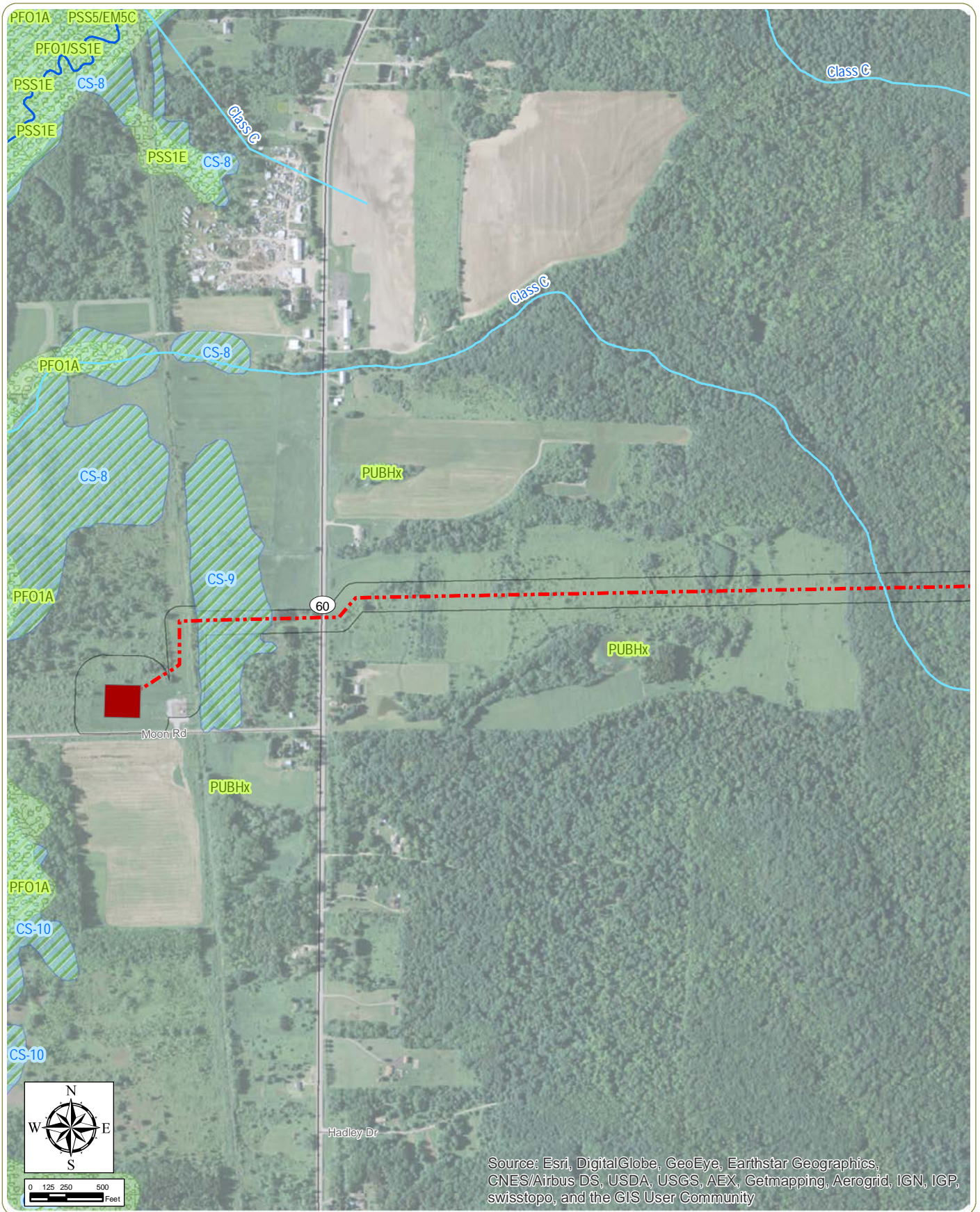
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**Figure 7: Mapped Wetlands and Streams**

March 2016 Sheet 7 of 19  
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















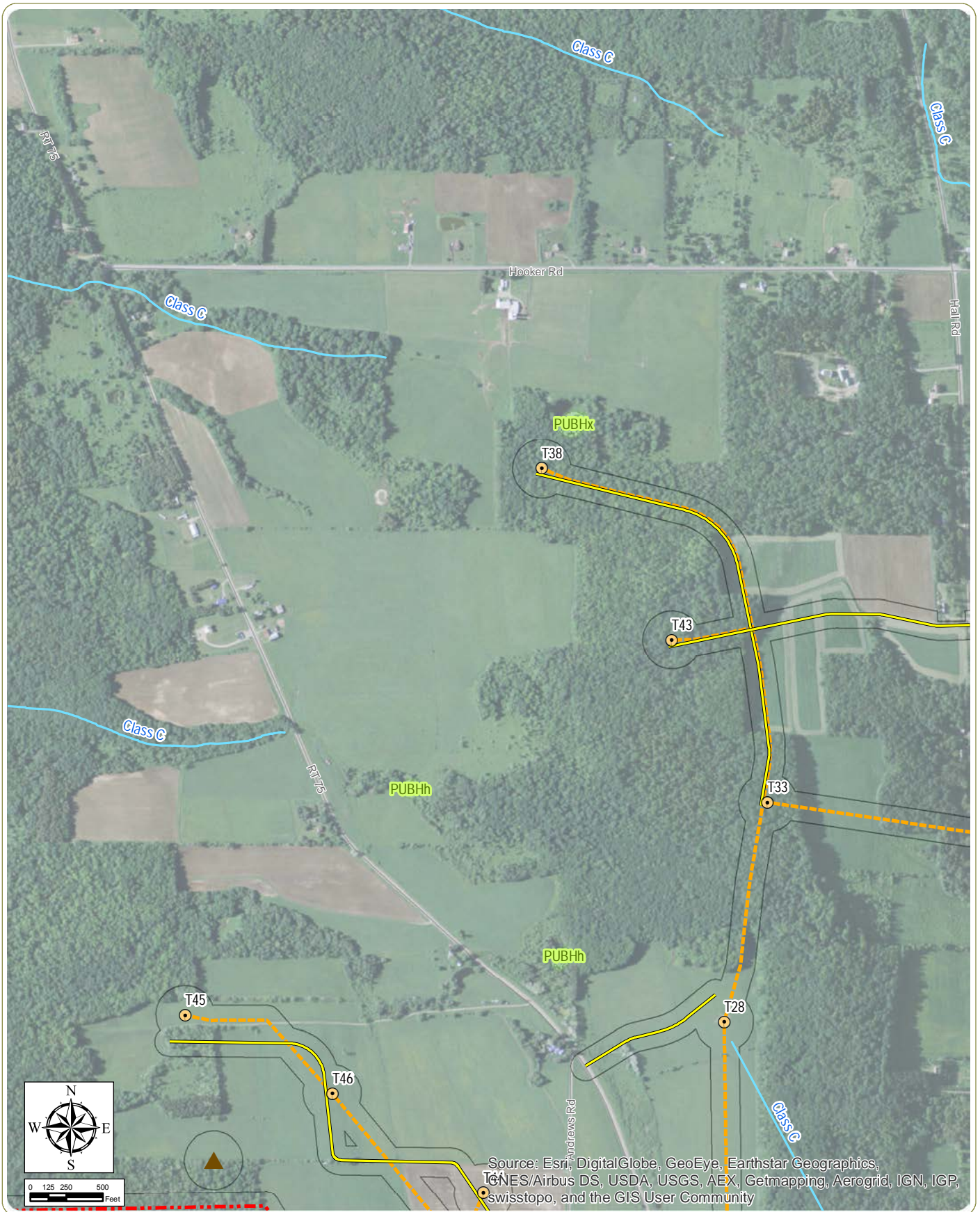


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 Chautauqua County, New York  
**Figure 7: Mapped Wetlands and Streams**  
 March 2016 Sheet 8 of 19  
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-  Wind Turbine
-  MET tower
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**Cassadaga Wind Project Wetland Delineation**  
 Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
 Chautauqua County, New York

**Figure 7: Mapped Wetlands and Streams**

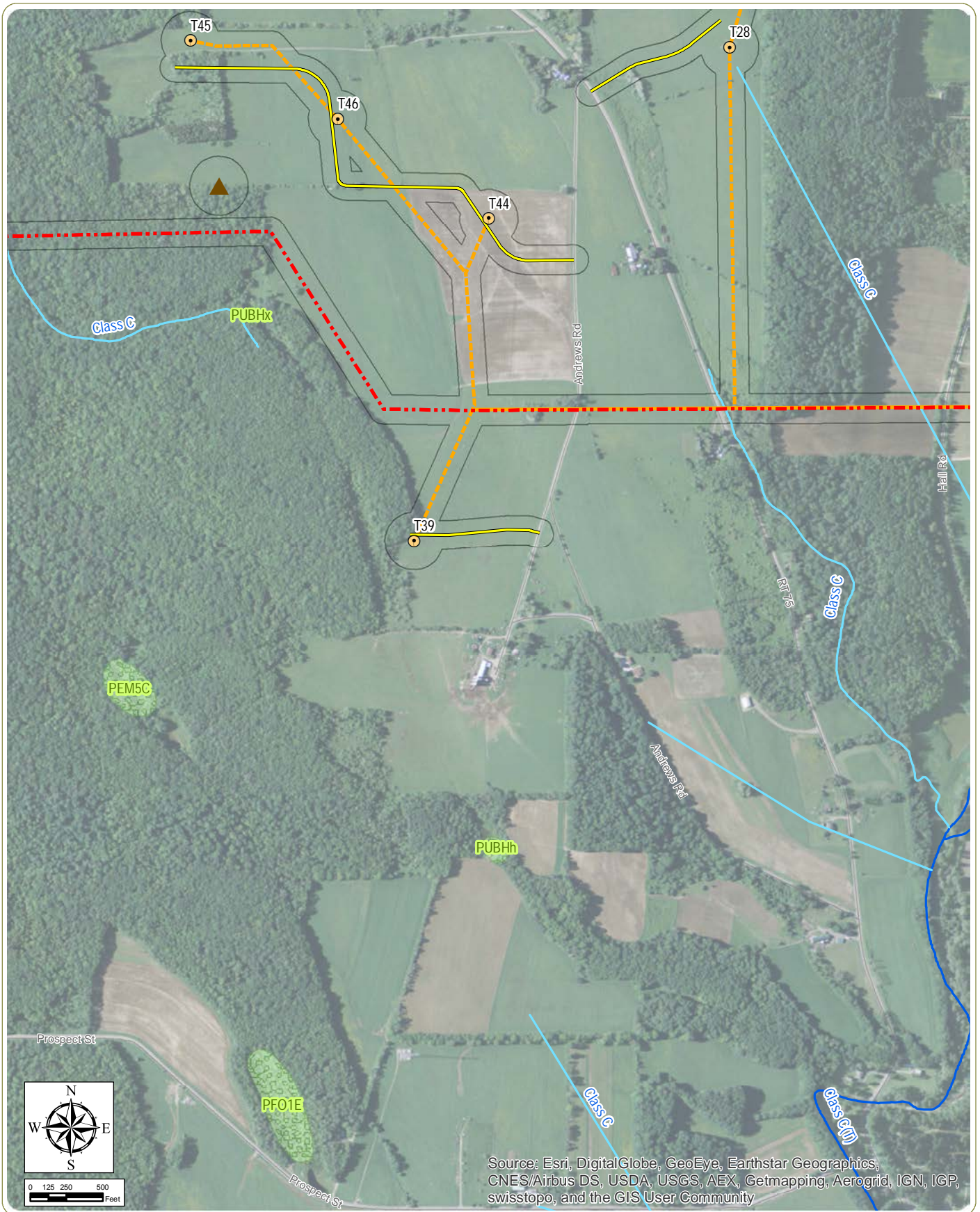
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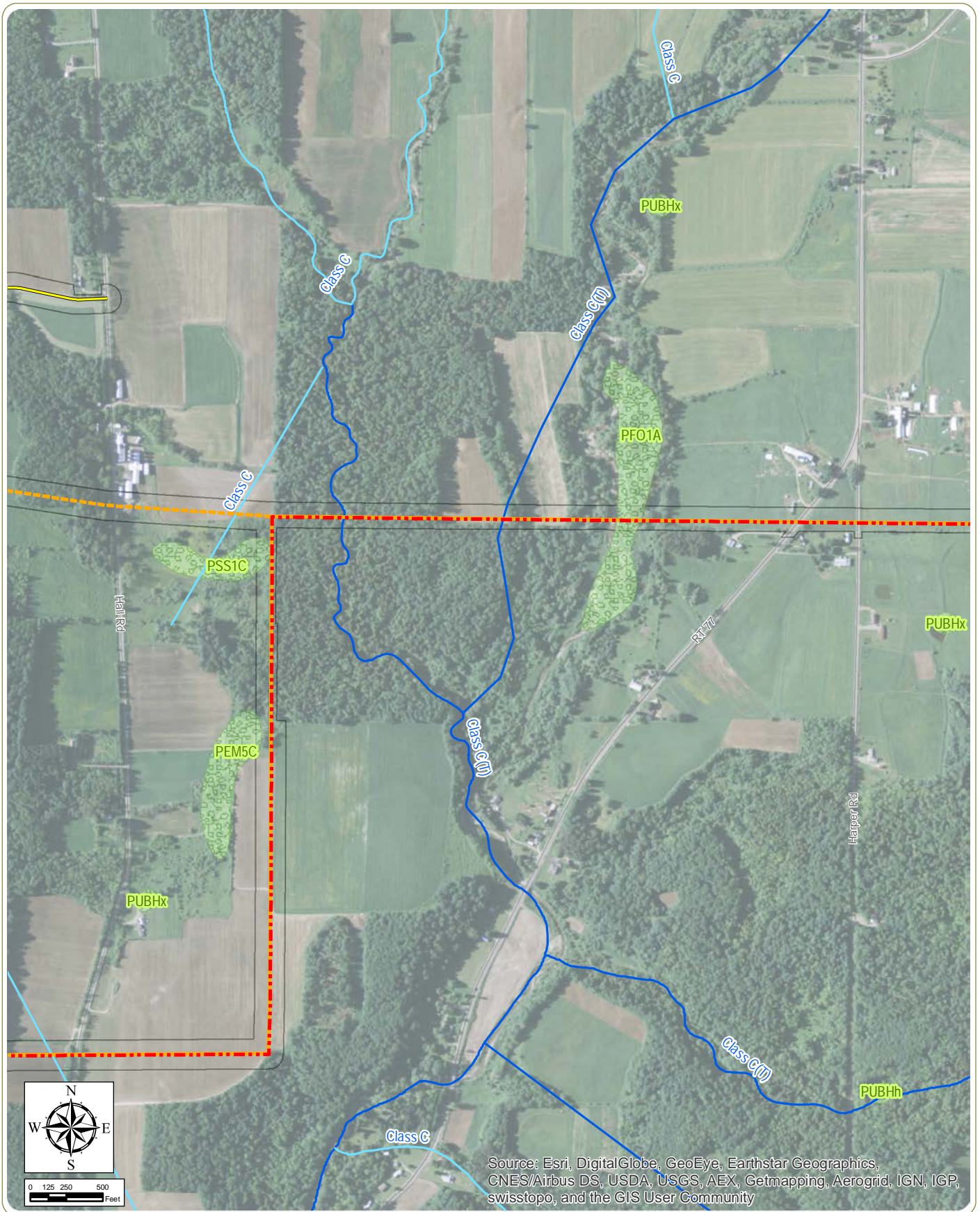


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**Figure 7: Mapped Wetlands and Streams**  
 March 2016 Sheet 10 of 19  
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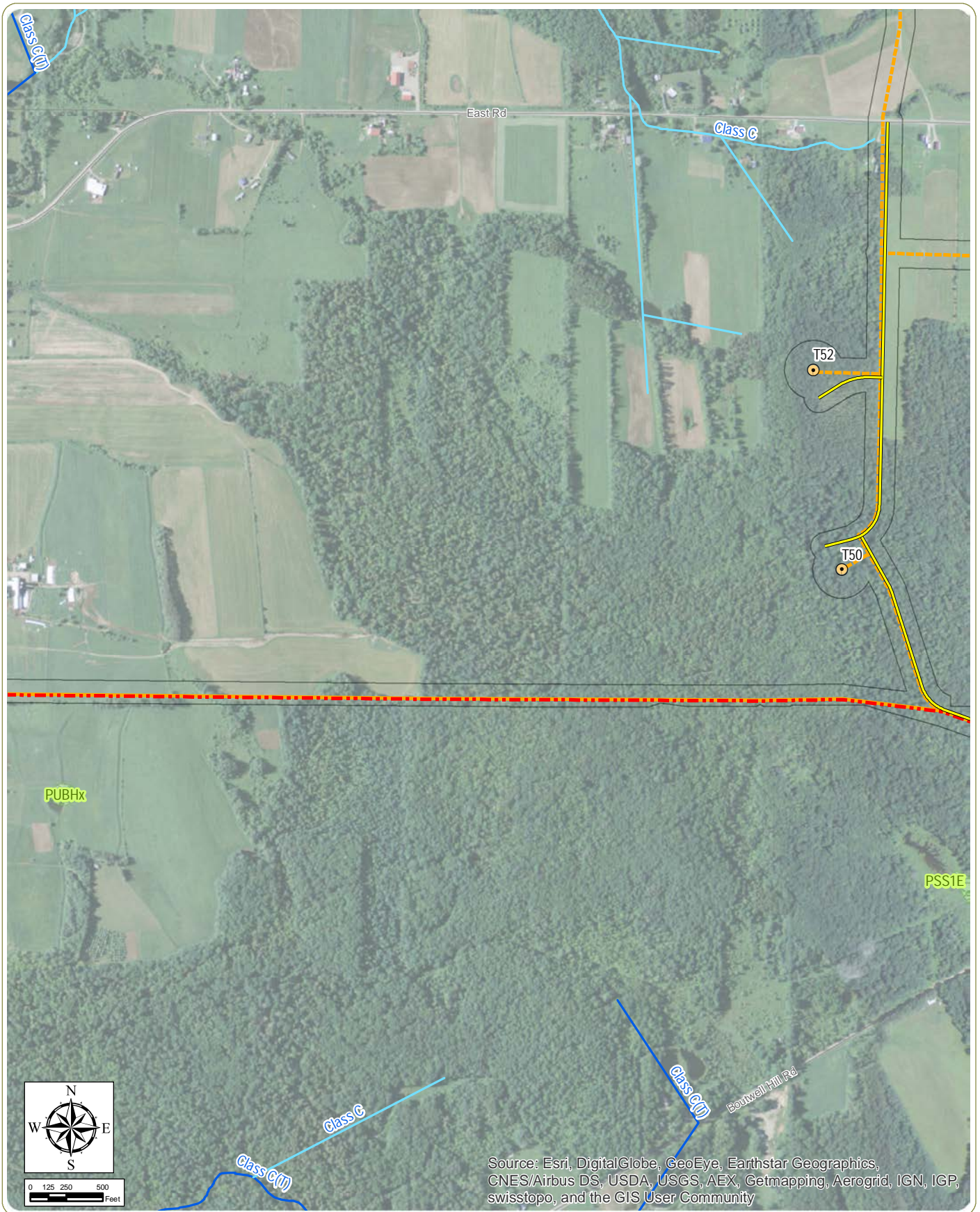
**Cassadaga Wind Project Wetland Delineation**  
 Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
 Chautauqua County, New York  
**Figure 7: Mapped Wetlands and Streams**

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| Underground Collection Line | Laydown Area         | NYSDEC Wetland       |
| Overhead Collection Line    | O&M Building         | Study Area           |



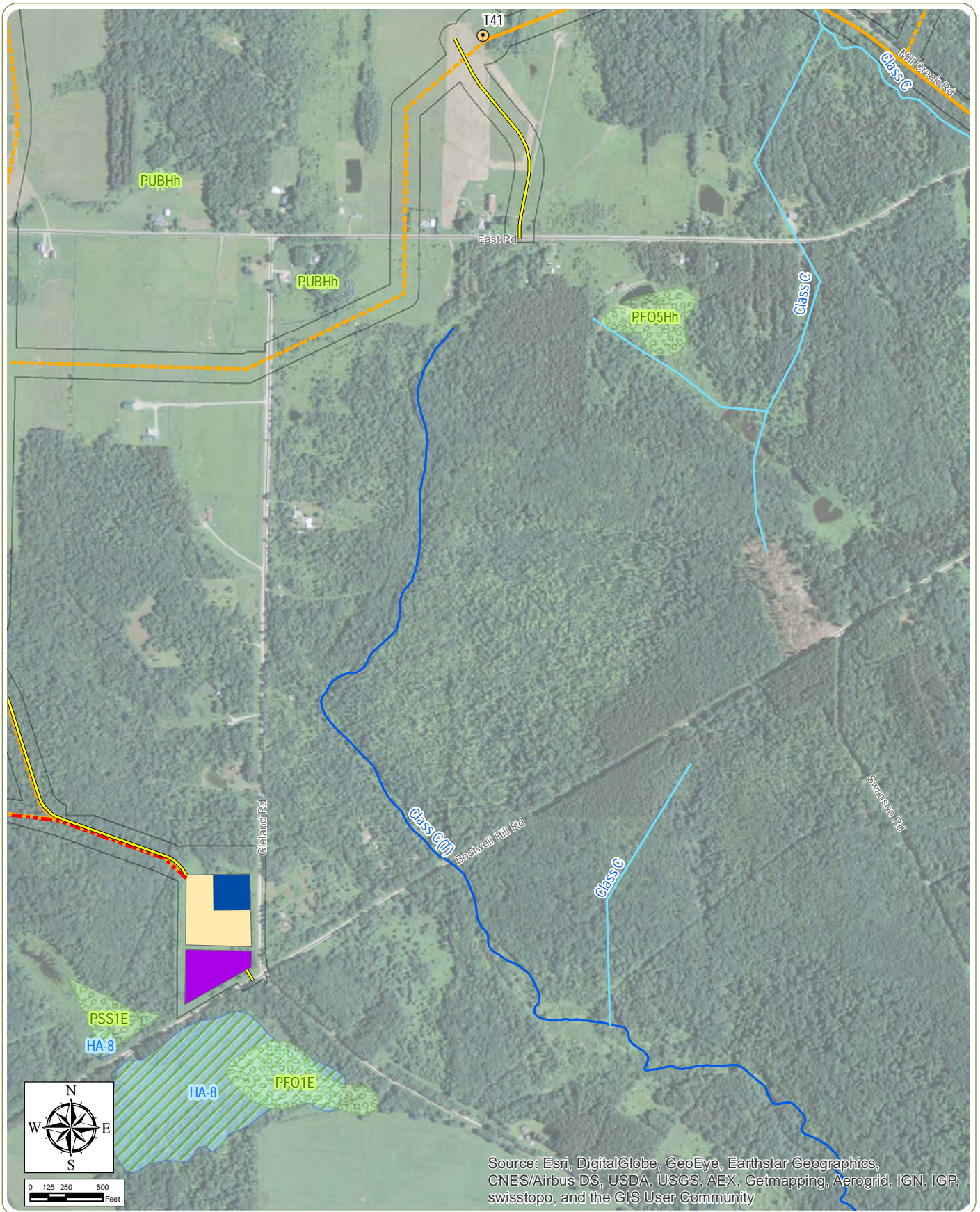


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

**Cassadaga Wind Project Wetland Delineation**  
 Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
 Chautauqua County, New York  
**Figure 7: Mapped Wetlands and Streams**  
 March 2016 Sheet 12 of 19  
 Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service  
 2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- |                             |                      |                      |
|-----------------------------|----------------------|----------------------|
| Wind Turbine                | MET tower            | NYS Protected Stream |
| Access Road                 | Collector Substation | Unprotected Stream   |
| Generator Lead Line         | POI Substation       | NWI Wetland          |
| Underground Collection Line | Laydown Area         | NYSDEC Wetland       |
| Overhead Collection Line    | O&M Building         | Study Area           |



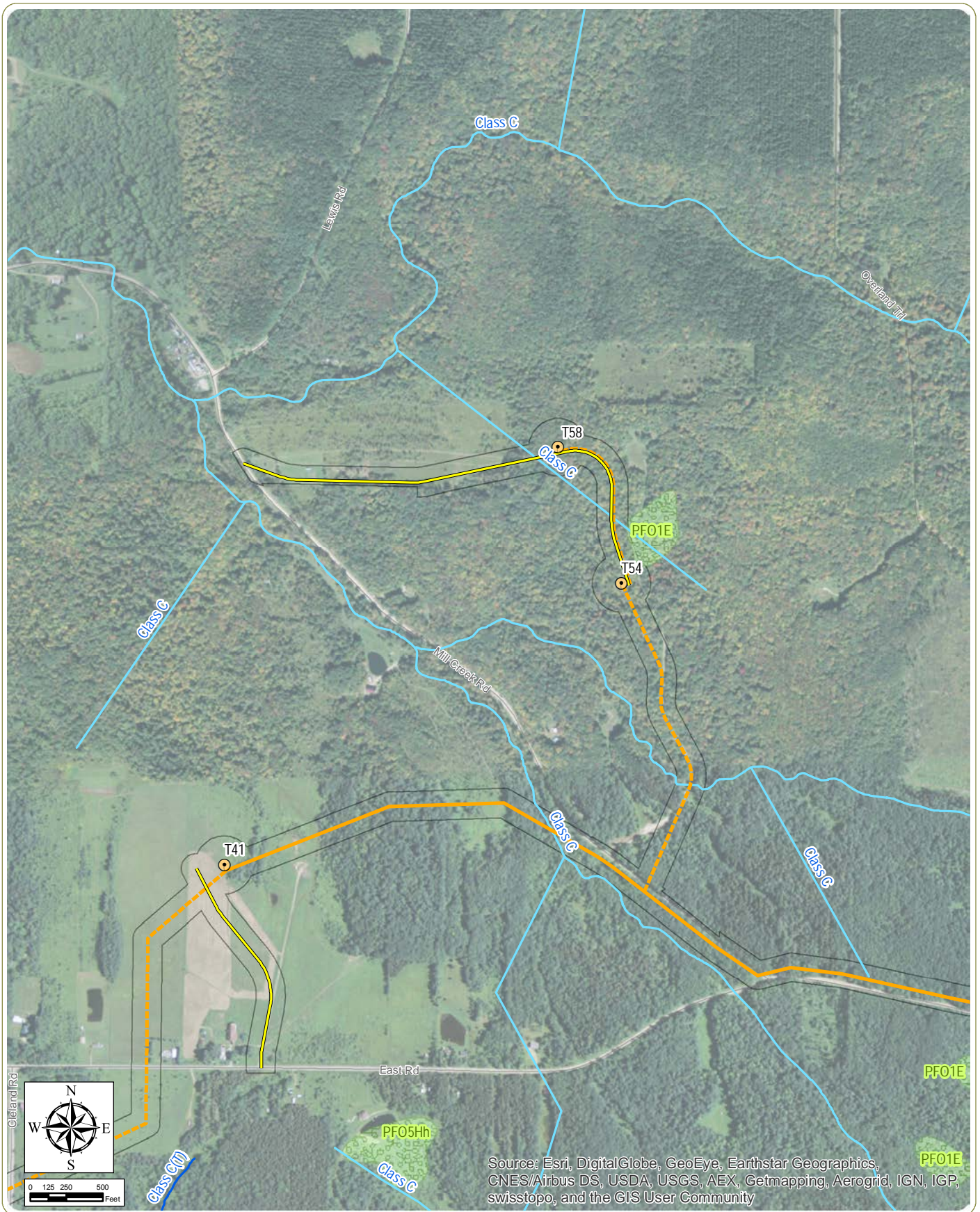


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

**Cassadaga Wind Project Wetland Delineation**  
 Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
 Chautauqua County, New York  
**Figure 7: Mapped Wetlands and Streams**  
 March 2016 Sheet 13 of 19  
 Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service  
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- Wind Turbine
- MET tower
- NYS Protected Stream
- Access Road
- Collector Substation
- Unprotected Stream
- Generator Lead Line
- POI Substation
- NWI Wetland
- Laydown Area
- NYSDEC Wetland
- Underground Collection Line
- O&M Building
- Study Area
- Overhead Collection Line





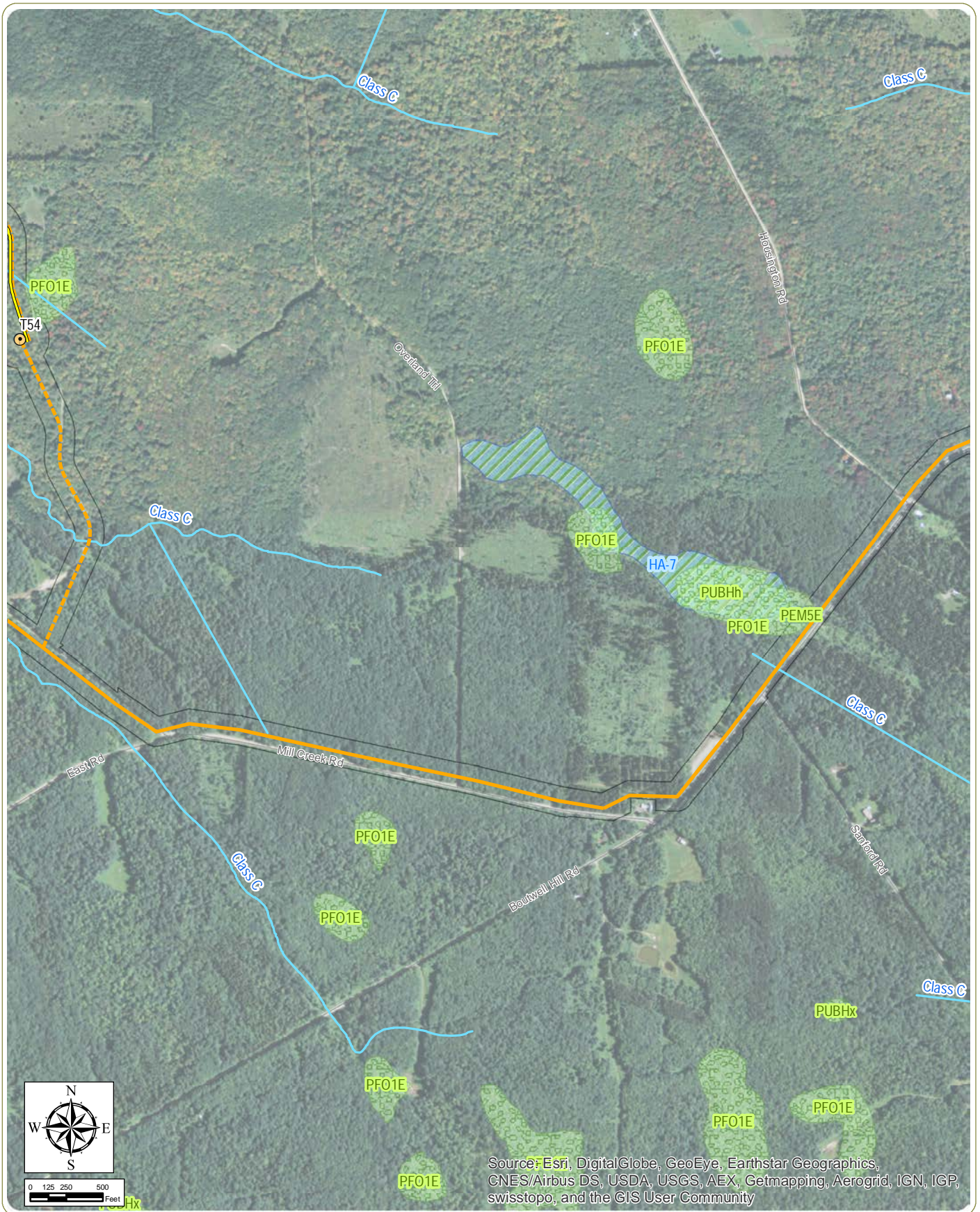
**Cassadaga Wind Project Wetland Delineation**  
 Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
 Chautauqua County, New York  
**Figure 7: Mapped Wetlands and Streams**

March 2016 Sheet 14 of 19

Notes: 1. Basemap: Esri ArcGIS Online "World Imagery" Map Service  
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|-----------------------------|----------------------|----------------------|
| Wind Turbine                | MET tower            | NYS Protected Stream |
| Access Road                 | Collector Substation | Unprotected Stream   |
| Generator Lead Line         | POI Substation       | NWI Wetland          |
| Underground Collection Line | Laydown Area         | NYSDEC Wetland       |
| Overhead Collection Line    | O&M Building         | Study Area           |





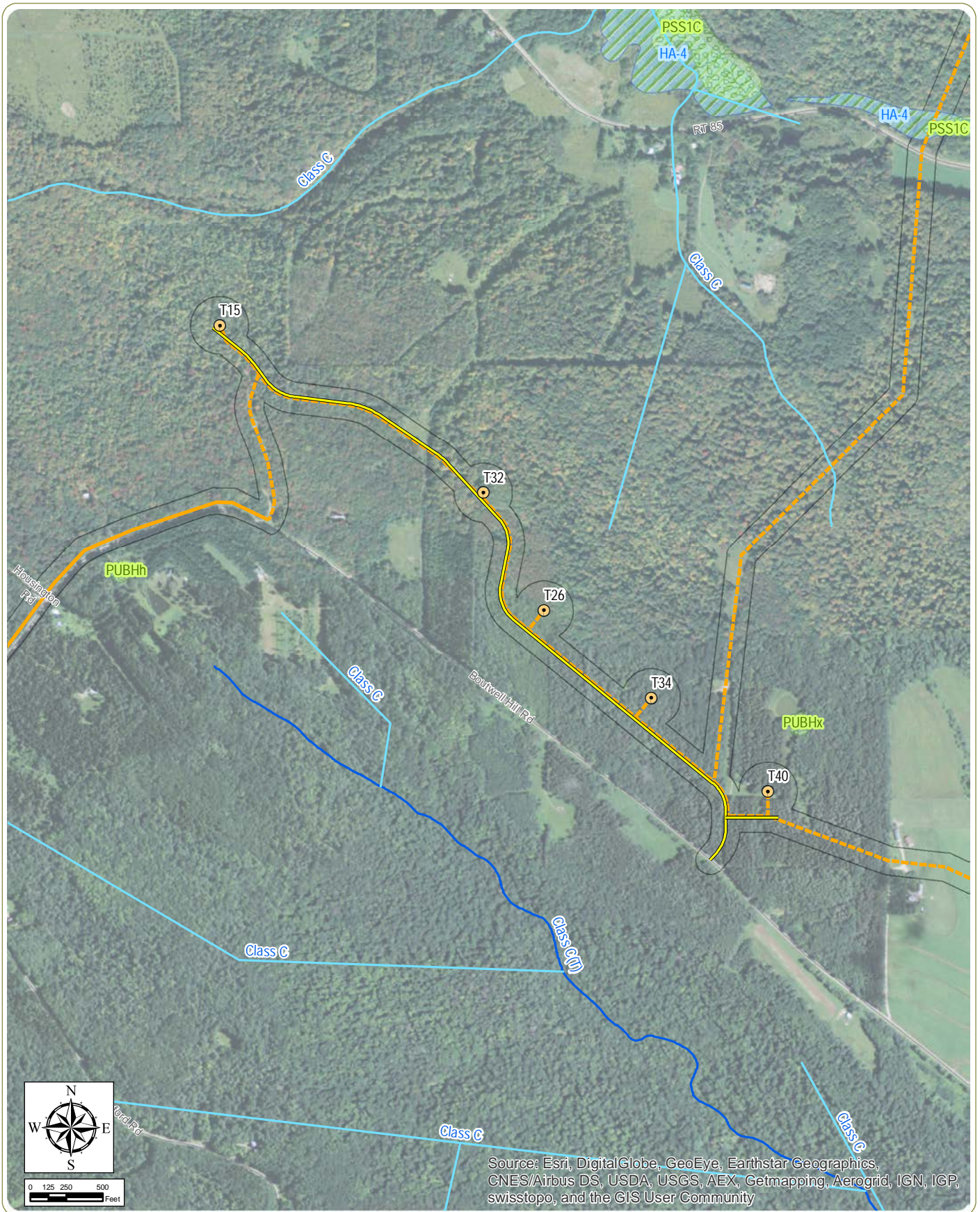
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

**Cassadaga Wind Project Wetland Delineation**  
 Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
 Chautauqua County, New York  
**Figure 7: Mapped Wetlands and Streams**  
 March 2016 Sheet 15 of 19  
 Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service  
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|-----------------------------|----------------------|----------------------|
| Wind Turbine                | MET tower            | NYS Protected Stream |
| Access Road                 | Collector Substation | Unprotected Stream   |
| Generator Lead Line         | POI Substation       | NWI Wetland          |
| Underground Collection Line | Laydown Area         | NYSDEC Wetland       |
| Overhead Collection Line    | O&M Building         | Study Area           |







**Cassadaga Wind Project Wetland Delineation**  
 Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
 Chautauqua County, New York

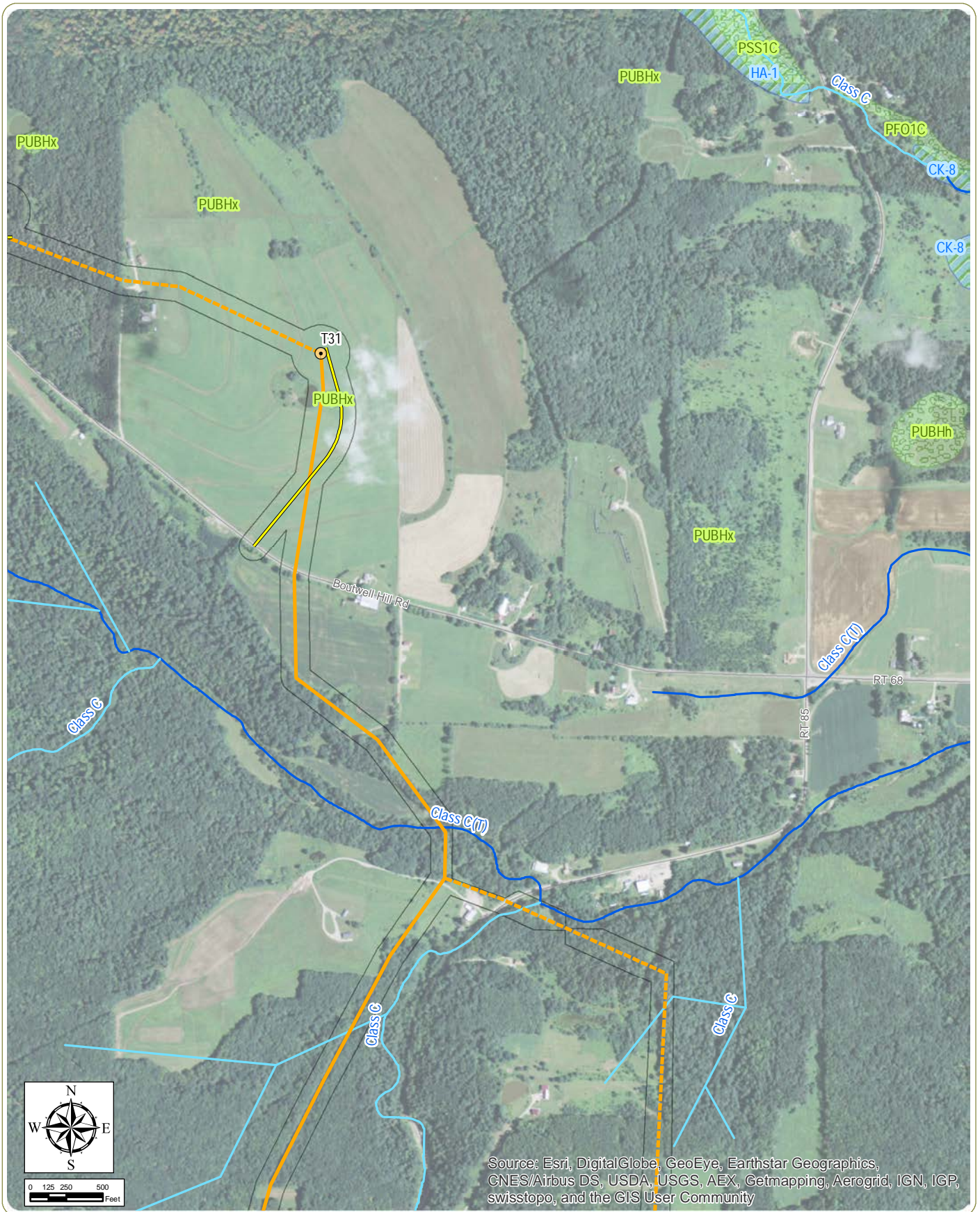
**Figure 7: Mapped Wetlands and Streams**

March 2016 Sheet 16 of 19

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service  
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|-----------------------------|----------------------|----------------------|
| Wind Turbine                | MET tower            | NYS Protected Stream |
| Access Road                 | Collector Substation | Unprotected Stream   |
| Generator Lead Line         | POI Substation       | NWI Wetland          |
| Underground Collection Line | Laydown Area         | NYSDEC Wetland       |
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**Cassadaga Wind Project Wetland Delineation**  
 Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
 Chautauqua County, New York  
**Figure 7: Mapped Wetlands and Streams**

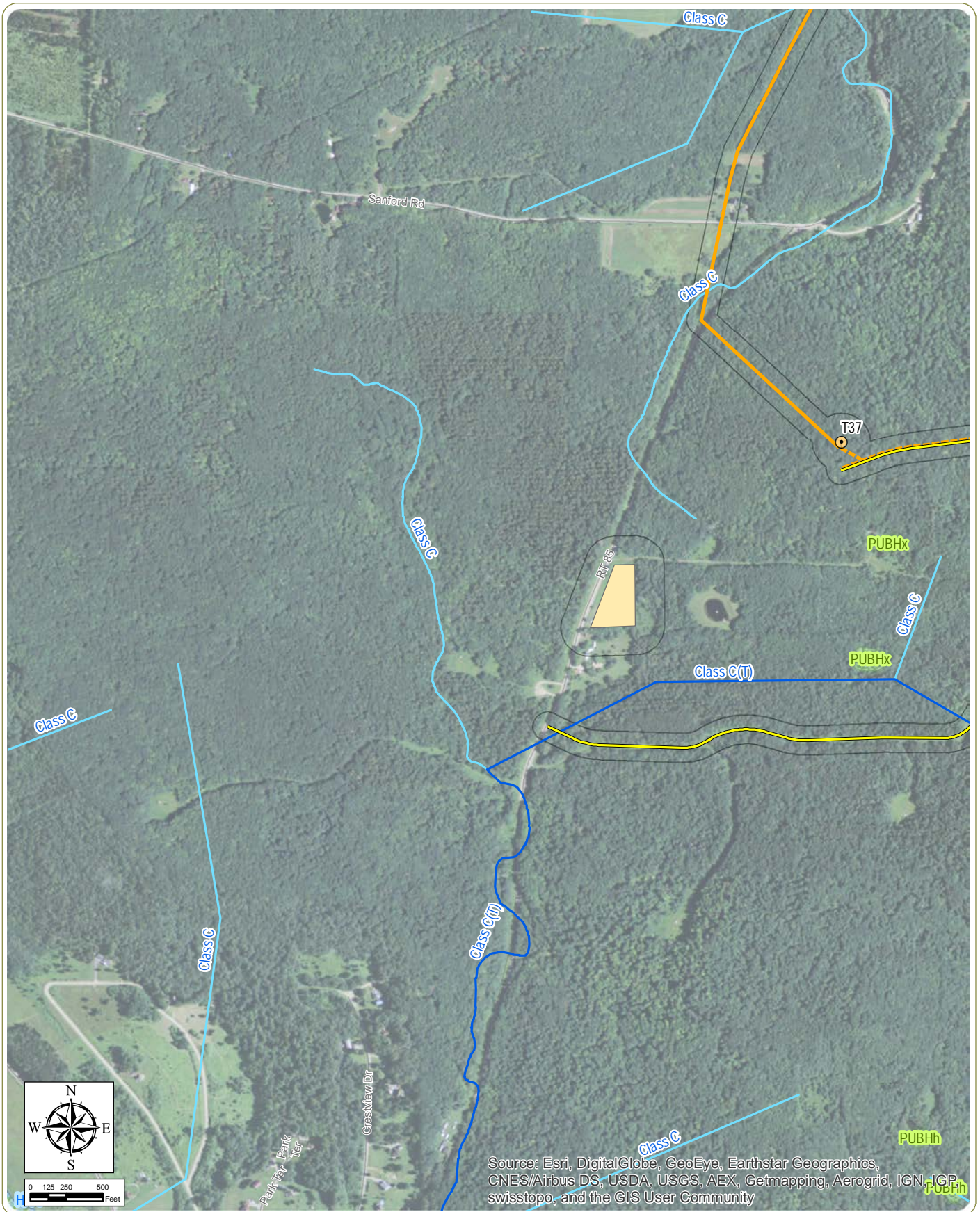
March 2016 Sheet 17 of 19

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

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|-----------------------------|----------------------|----------------------|
| Wind Turbine                | MET tower            | NYS Protected Stream |
| Access Road                 | Collector Substation | Unprotected Stream   |
| Generator Lead Line         | POI Substation       | NWI Wetland          |
| Underground Collection Line | Laydown Area         | NYSDEC Wetland       |
| Overhead Collection Line    | O&M Building         | Study Area           |

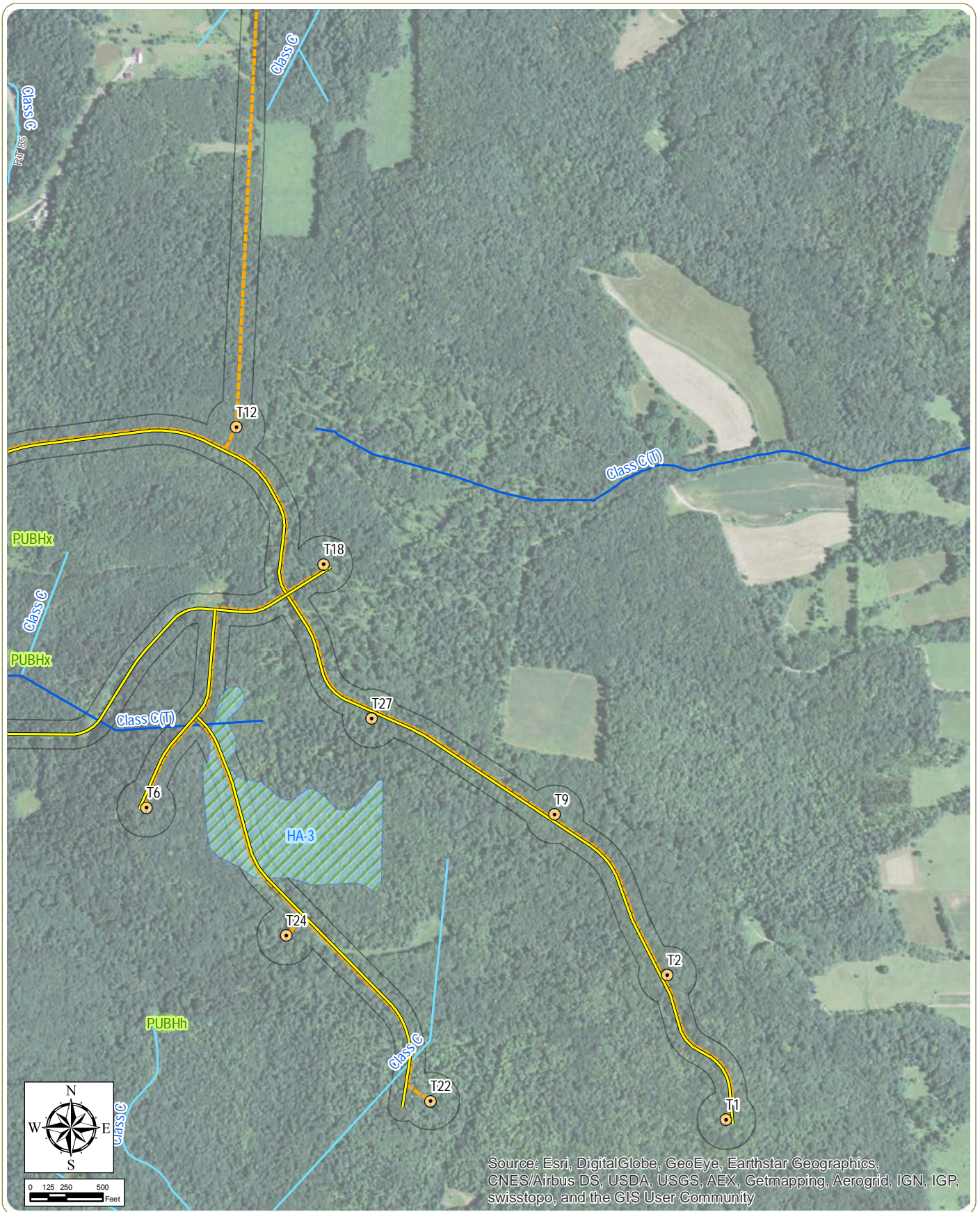




**Cassadaga Wind Project Wetland Delineation**  
 Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
 Chautauqua County, New York  
**Figure 7: Mapped Wetlands and Streams**  
 March 2016 Sheet 18 of 19  
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|-----------------------------|----------------------|----------------------|
| Wind Turbine                | MET tower            | NYS Protected Stream |
| Access Road                 | Collector Substation | Unprotected Stream   |
| Generator Lead Line         | POI Substation       | NWI Wetland          |
| Underground Collection Line | Laydown Area         | NYSDEC Wetland       |
| Overhead Collection Line    | O&M Building         | Study Area           |





**Cassadaga Wind Project Wetland Delineation**  
 Towns of Charlotte, Cherry Creek, Arkwright, and Stockton  
 Chautauqua County, New York  
**Figure 7: Mapped Wetlands and Streams**  
 March 2016 Sheet 19 of 19  
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|-----------------------------|----------------------|----------------------|
| Wind Turbine                | MET tower            | NYS Protected Stream |
| Access Road                 | Collector Substation | Unprotected Stream   |
| Generator Lead Line         | POI Substation       | NWI Wetland          |
| Underground Collection Line | Laydown Area         | NYSDEC Wetland       |
| Overhead Collection Line    | O&M Building         | Study Area           |