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Legend

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| | Study Area | | Transmission Line | | Waterbody (MNR) |
| | Zone of Investigation | | Overhead Transmission Line | | Wooded Area (MNR) |
| Wind Project Location | | | Underground Transmission Line | | |
| | Proposed Turbine Location | | Electrical Transmission Component | | |
| | Access Road | Existing Features | | | |
| | Overhead Collector Line | | Road | | |
| | Underground Collector Line | | Railway | | |
| Solar Project Location | | | Abandoned Railway | | |
| | Solar Lands | | Watercourse (MNR) | | |

Notes

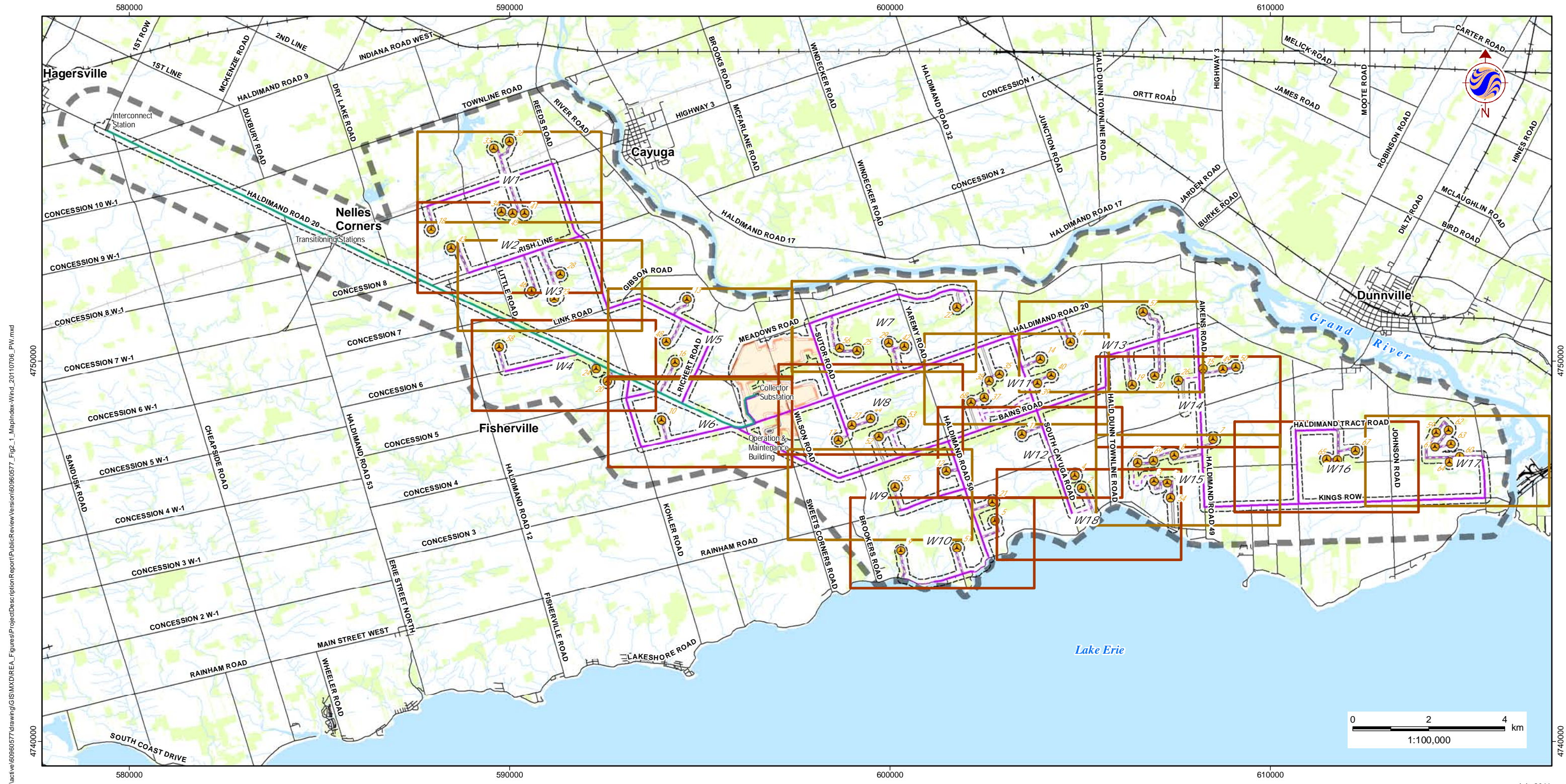
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Client/Project
SAMSUNG, PATTERN & KEPKO (SPK)
GRAND RENEWABLE ENERGY PARK

Figure No.
1.0

Title
STUDY AREA

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| | Study Area | | Overhead Transmission Line | | Waterbody (MNR) |
| | Zone of Investigation | | Underground Transmission Line | | Wooded Area (MNR) |
| Wind Project Location | | | | | |
| | Proposed Turbine Location | | Electrical Transmission Component | | |
| | Access Road | Existing Features | | | |
| | Overhead Collector Line | | Road | | Railway |
| | Underground Collector Line | | Abandoned Railway | | Watercourse (MNR) |
| Solar Project Location | | | | | |
| | Solar Lands | | | | |

Notes

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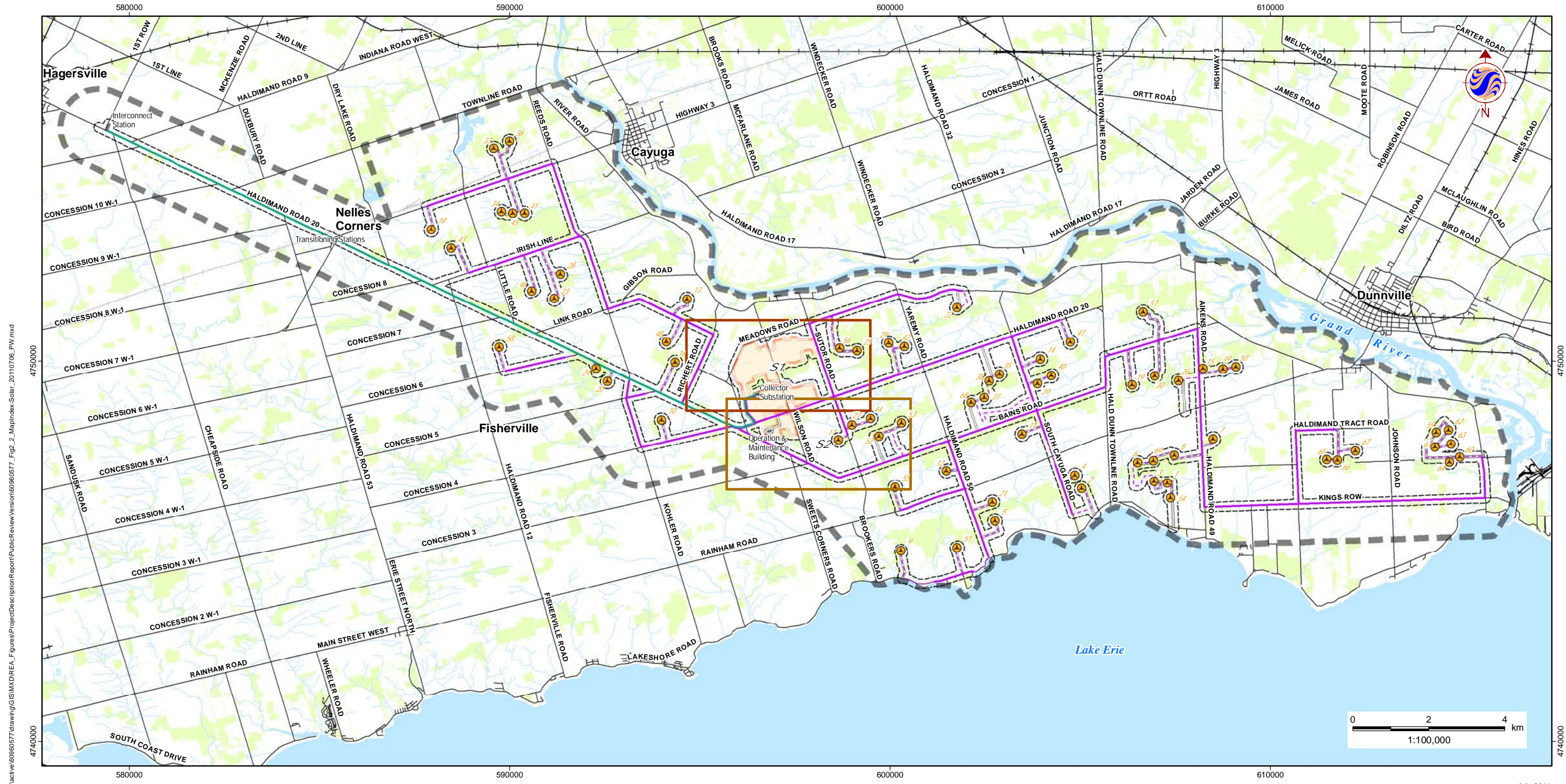
Client/Project
SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK

Figure No.
2.1

Title

**MAPPING INDEX -
WIND PROJECT**

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| | Study Area | | Overhead Transmission Line | | Waterbody (MNR) |
| | Zone of Investigation | | Underground Transmission Line | | Wooded Area (MNR) |
| Wind Project Location | | | Electrical Transmission Component | | |
| | Proposed Turbine Location | Existing Features | | | |
| | Access Road | | Road | | Railway |
| | Overhead Collector Line | | Abandoned Railway | | Watercourse (MNR) |
| | Underground Collector Line | | | | |
| Solar Project Location | | | | | |
| | Solar Lands | | | | |

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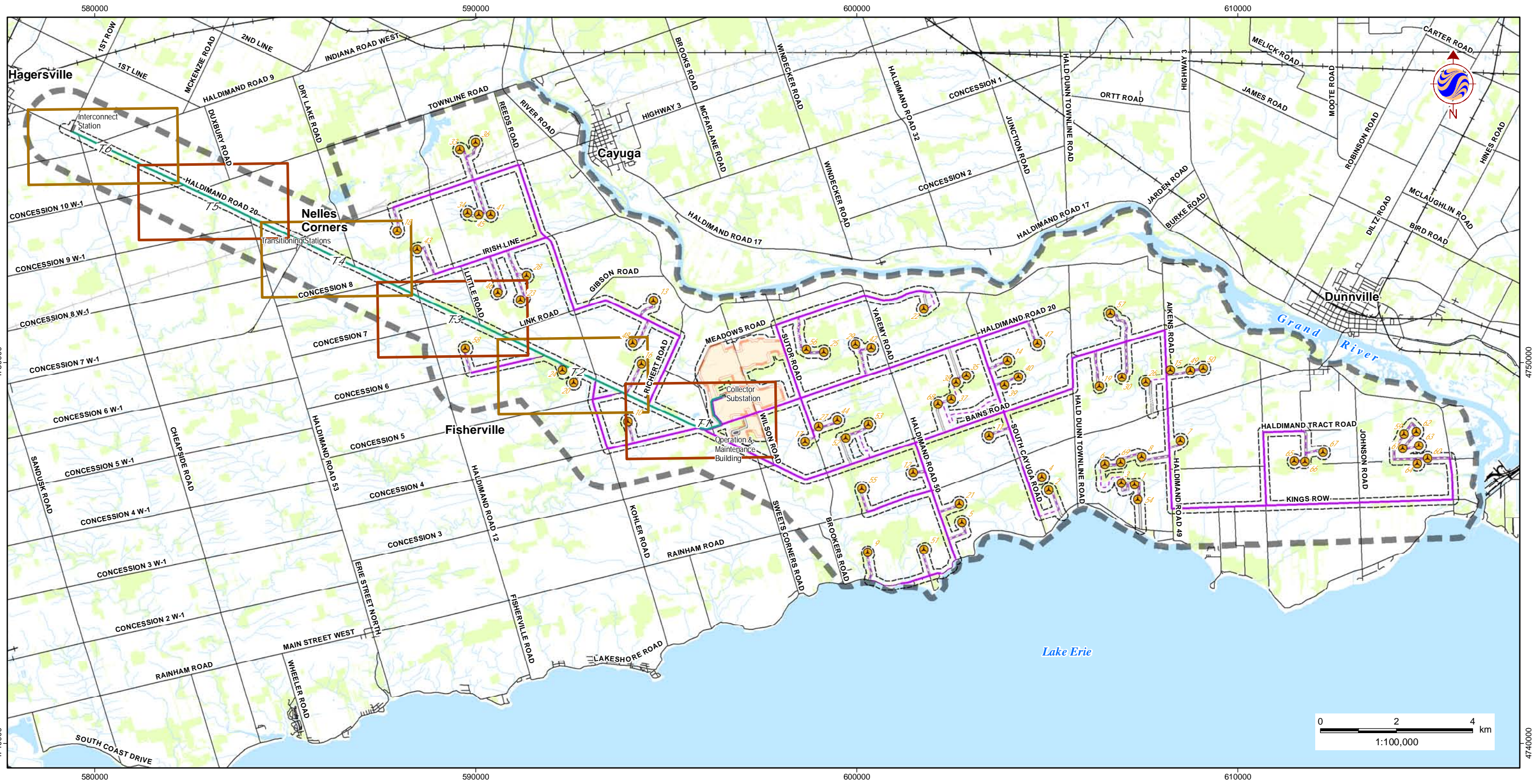
Client/Project
SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK

Figure No.
2.2

Title

**MAPPING INDEX -
SOLAR PROJECT**

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| | Study Area | | Overhead Transmission Line | | Waterbody (MNR) |
| | Zone of Investigation | | Underground Transmission Line | | Wooded Area (MNR) |
| Wind Project Location | | | | | |
| | Proposed Turbine Location | | Electrical Transmission Component | | |
| | Access Road | Existing Features | | | |
| | Overhead Collector Line | | Road | | Railway |
| | Underground Collector Line | | Abandoned Railway | | Watercourse (MNR) |
| Solar Project Location | | | | | |
| | Solar Lands | | | | |

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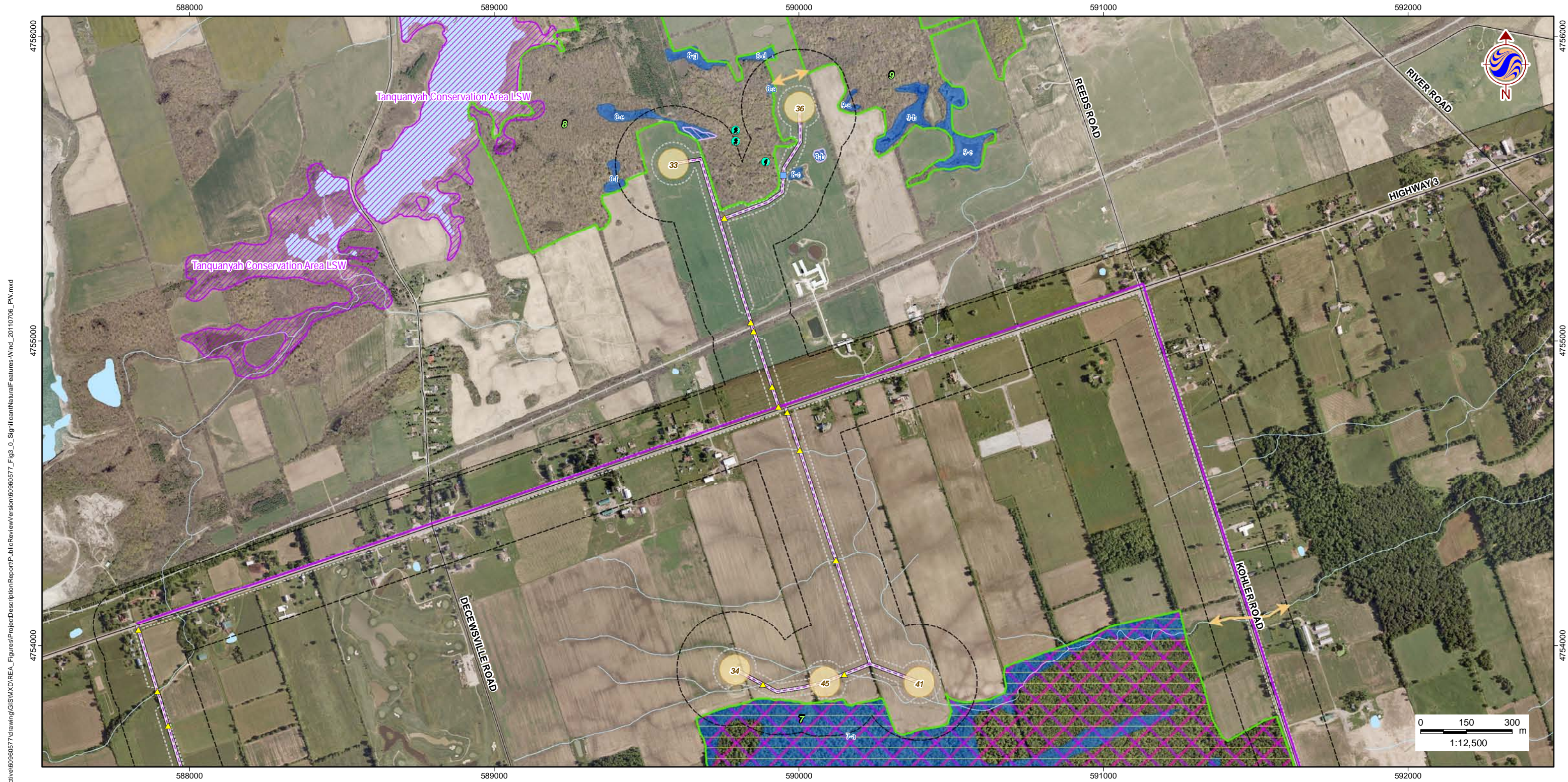
- Coordinate System: UTM NAD 83 - Zone 17 (N).
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Figure No.
2.3

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Title
**MAPPING INDEX -
TRANSMISSION LINE**



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| <ul style="list-style-type: none"> Study Area Zone of Investigation Constructable Area Wind Project Location Proposed Turbine Location Access Road Overhead Collector Line Underground Collector Line Solar Project Location Solar Lands | <ul style="list-style-type: none"> Transmission Line Overhead Transmission Line Underground Transmission Line Electrical Transmission Component Existing Features Road Railway Abandoned Railway Transmission Line (MNR) Watercourse (MNR) Waterbody (MNR) | <ul style="list-style-type: none"> Wetland (MNR) Provincially Significant Wetland Non-Provincially Significant Wetland Significant Natural Features Significant Woodland Significant Wetland Significant Valleyland Significant Wildlife Habitat Deer Wintering Area Habitat for Declining/Area-Sensitive Grassland Species Winter Raptor Roosting & Feeding Area | <ul style="list-style-type: none"> Seep Vernal Pool Rare Vegetation Community Snapping Turtle Habitat Animal Movement Corridor Waterfowl Stopover Migratory Landbird Habitat Habitat for Declining Woodland Species Area-Sensitive Species Woodland Habitat Short-Eared Owl Habitat Culverts Wildlife & Flow Culvert Other Culvert |
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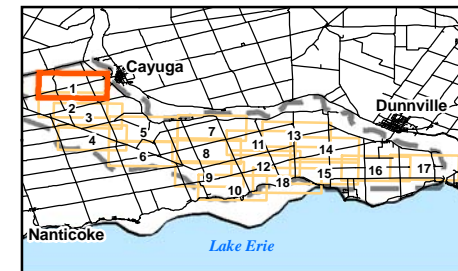
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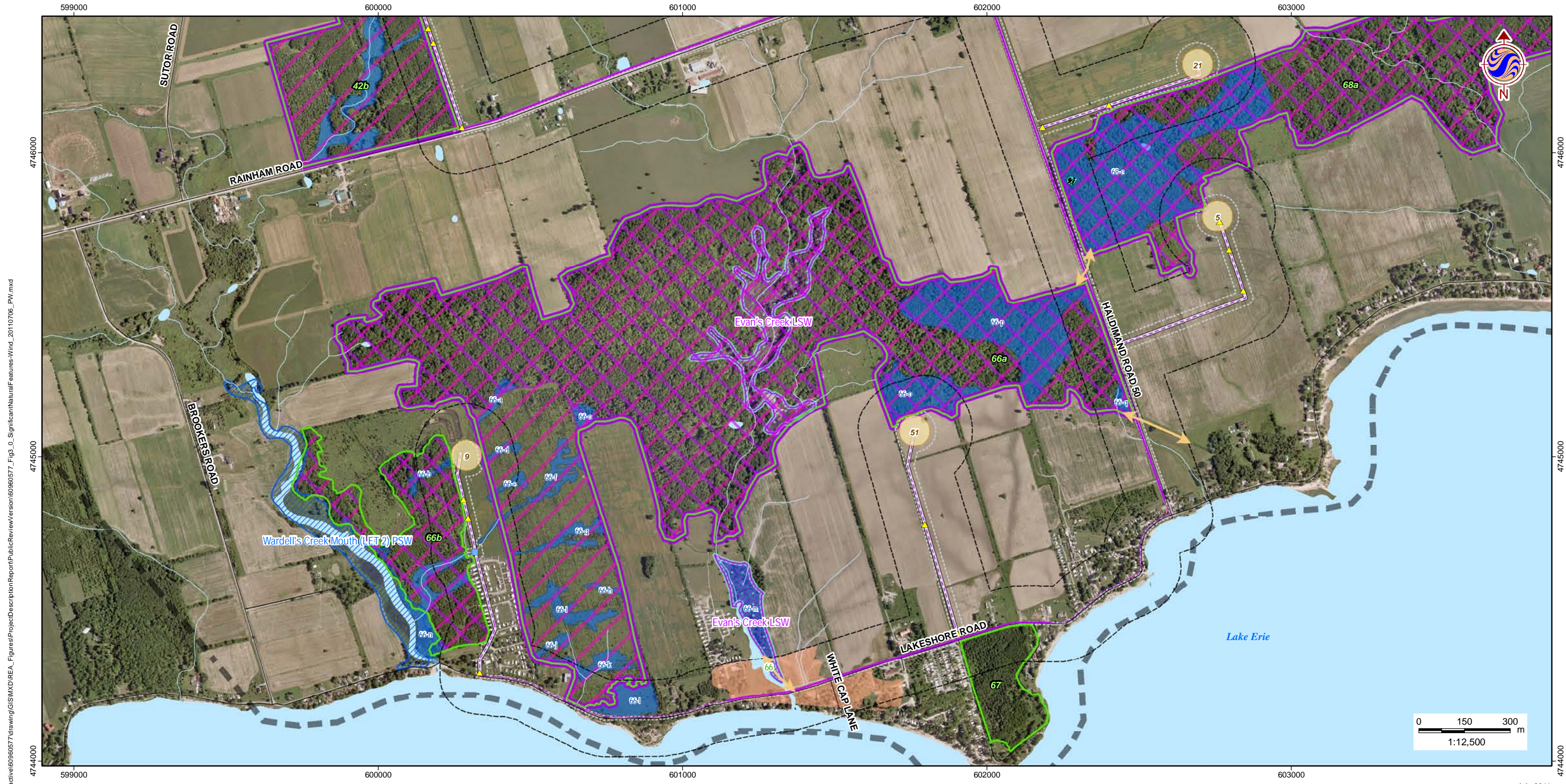
Client/Project
**SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK**

Figure No.
3.1

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Title
**SIGNIFICANT NATURAL
FEATURES - W1**





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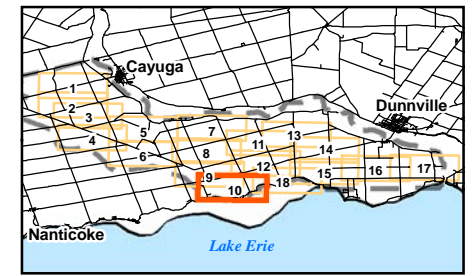


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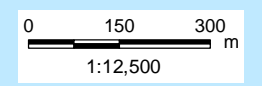


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**SAMSUNG, PATTERN & KEPCO (SPK)
 GRAND RENEWABLE ENERGY PARK**

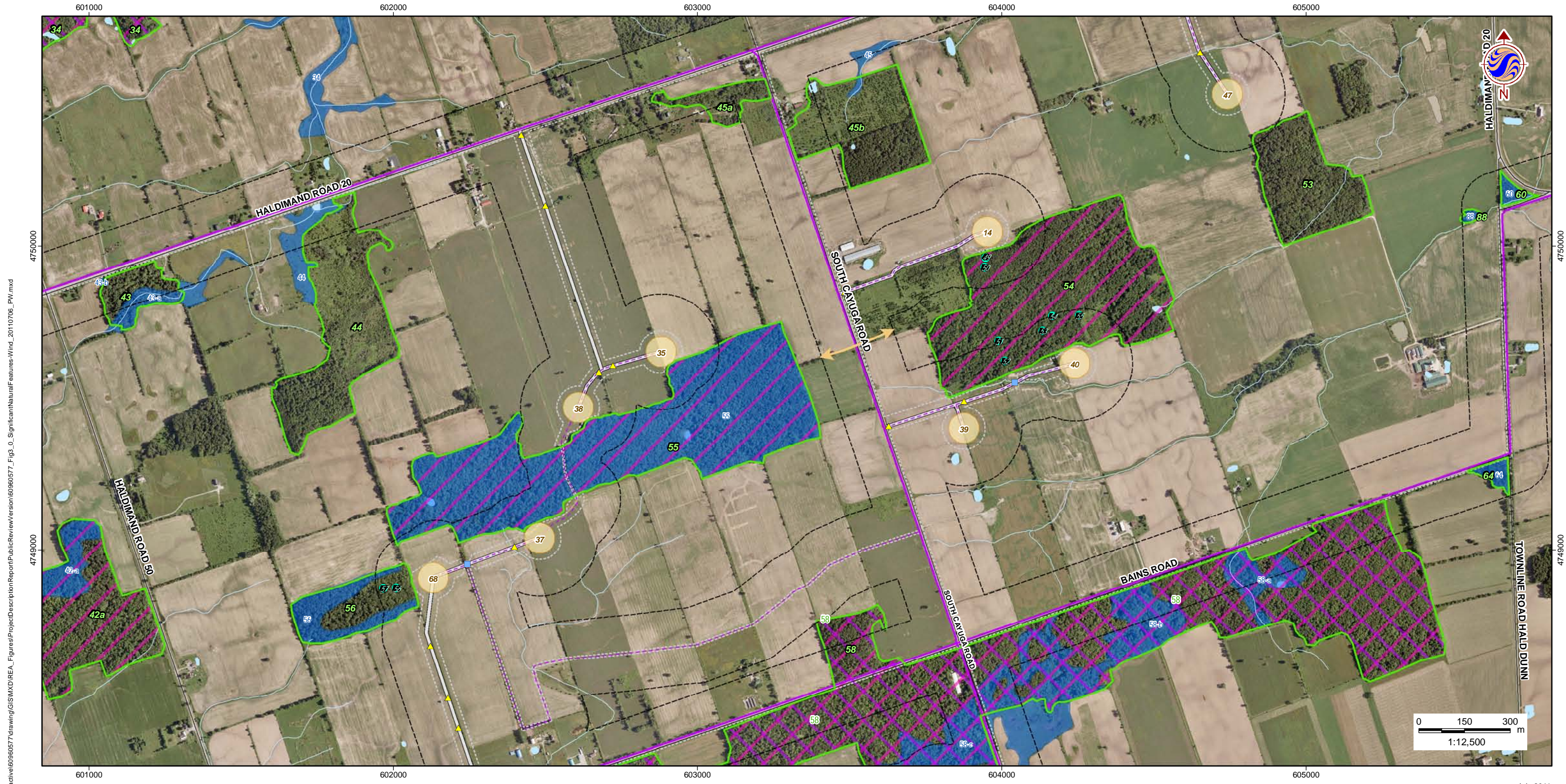
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**SIGNIFICANT NATURAL
 FEATURES - W10**

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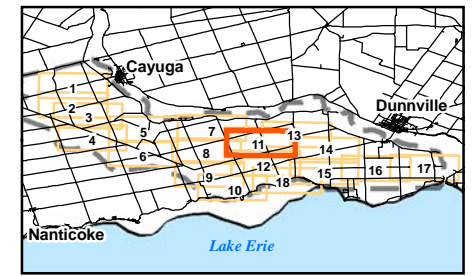
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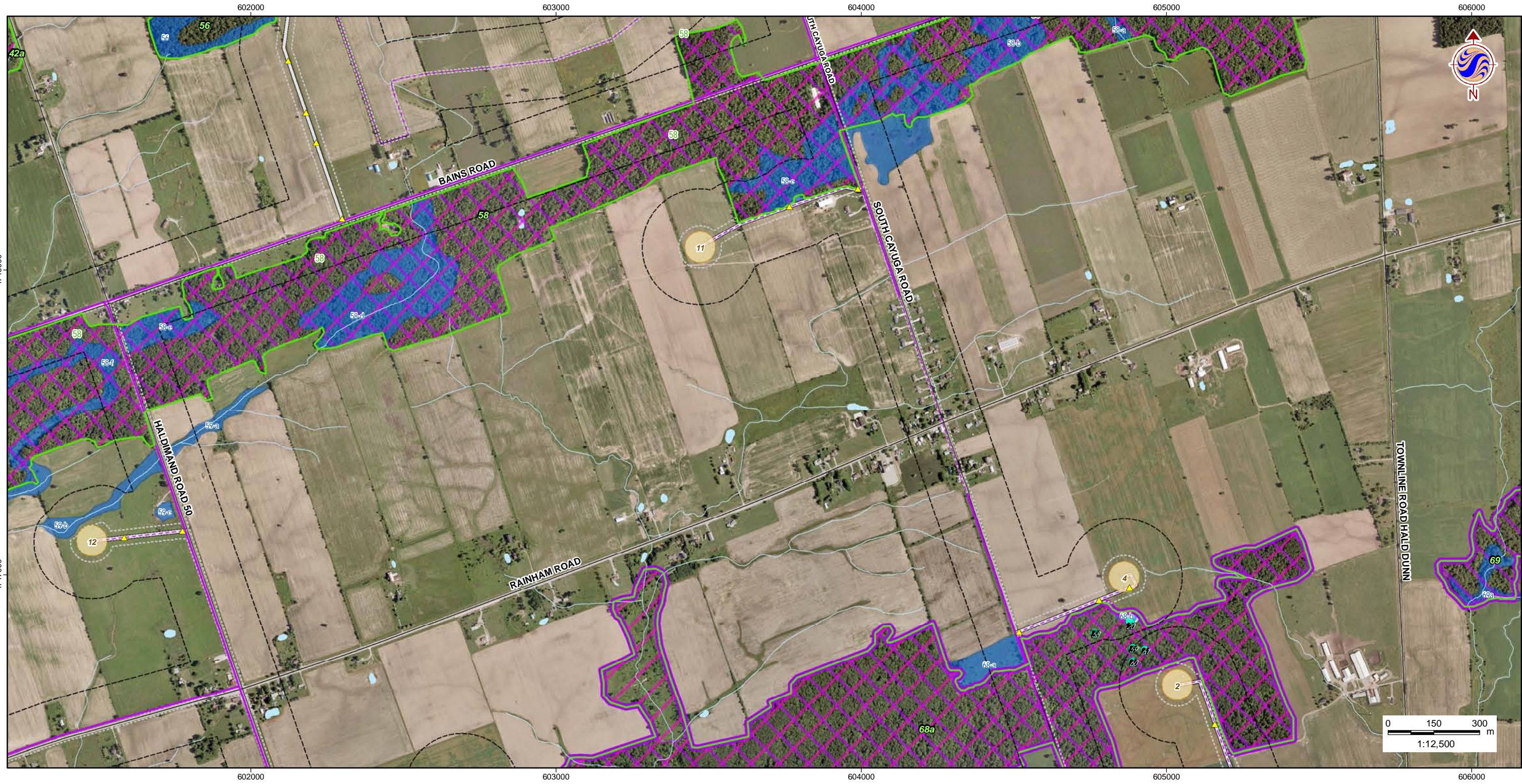
Client/Project
**SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK**

Figure No.
3.11

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Title
**SIGNIFICANT NATURAL
FEATURES - W11**





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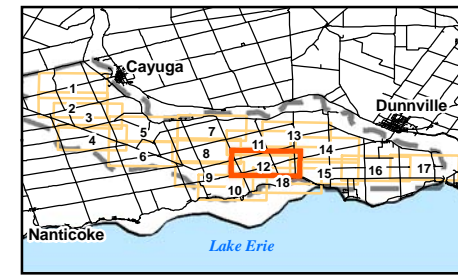
1. Coordinate System: UTM NAD 83 - Zone 17 (N).
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**SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK**

Figure No.
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**SIGNIFICANT NATURAL
FEATURES - W12**





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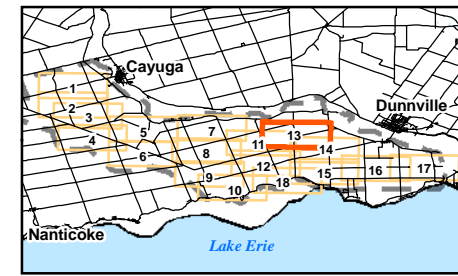
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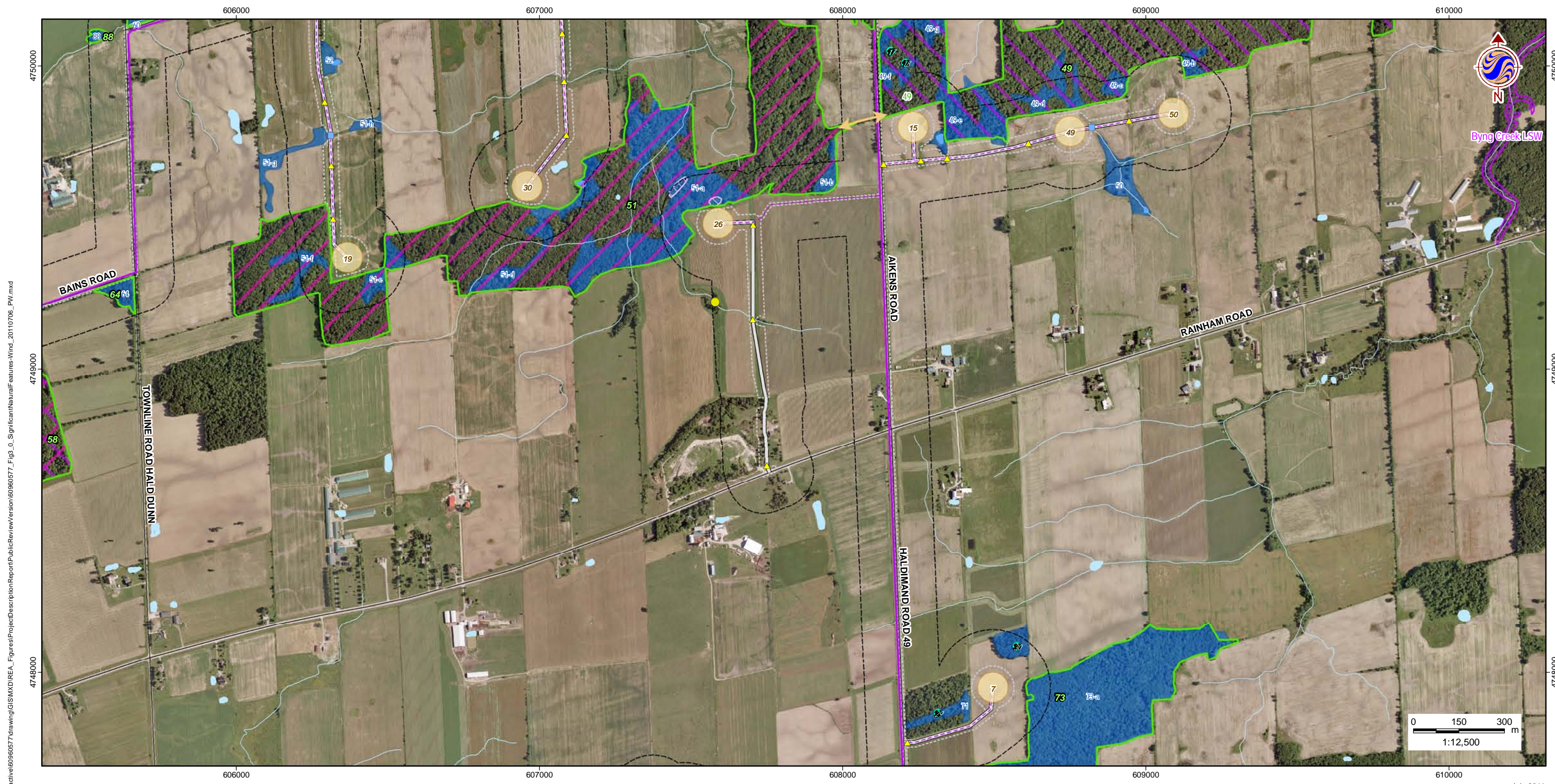
Client/Project
**SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK**

Figure No.
3.13

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Title
**SIGNIFICANT NATURAL
FEATURES - W13**





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| <ul style="list-style-type: none"> Study Area Zone of Investigation Constructable Area Wind Project Location Proposed Turbine Location Access Road Overhead Collector Line Underground Collector Line Solar Project Location Solar Lands | <ul style="list-style-type: none"> Transmission Line Overhead Transmission Line Underground Transmission Line Electrical Transmission Component Existing Features Road Railway Abandoned Railway Transmission Line (MNR) Watercourse (MNR) Waterbody (MNR) | <ul style="list-style-type: none"> Wetland (MNR) Provincially Significant Wetland Non-Provincially Significant Wetland Significant Natural Features Significant Woodland Significant Wetland 9-a Significant Valleyland Significant Wildlife Habitat Deer Wintering Area Habitat for Declining/Area-Sensitive Grassland Species Winter Raptor Roosting & Feeding Area | <ul style="list-style-type: none"> Seep Vernal Pool Rare Vegetation Community Snapping Turtle Habitat Animal Movement Corridor Waterfowl Stopover Migratory Landbird Habitat Habitat for Declining Woodland Species Area-Sensitive Species Woodland Habitat Short-Eared Owl Habitat Culverts Wildlife & Flow Culvert Other Culvert |
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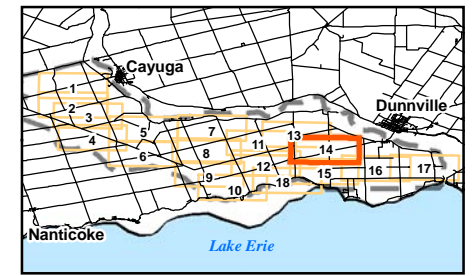
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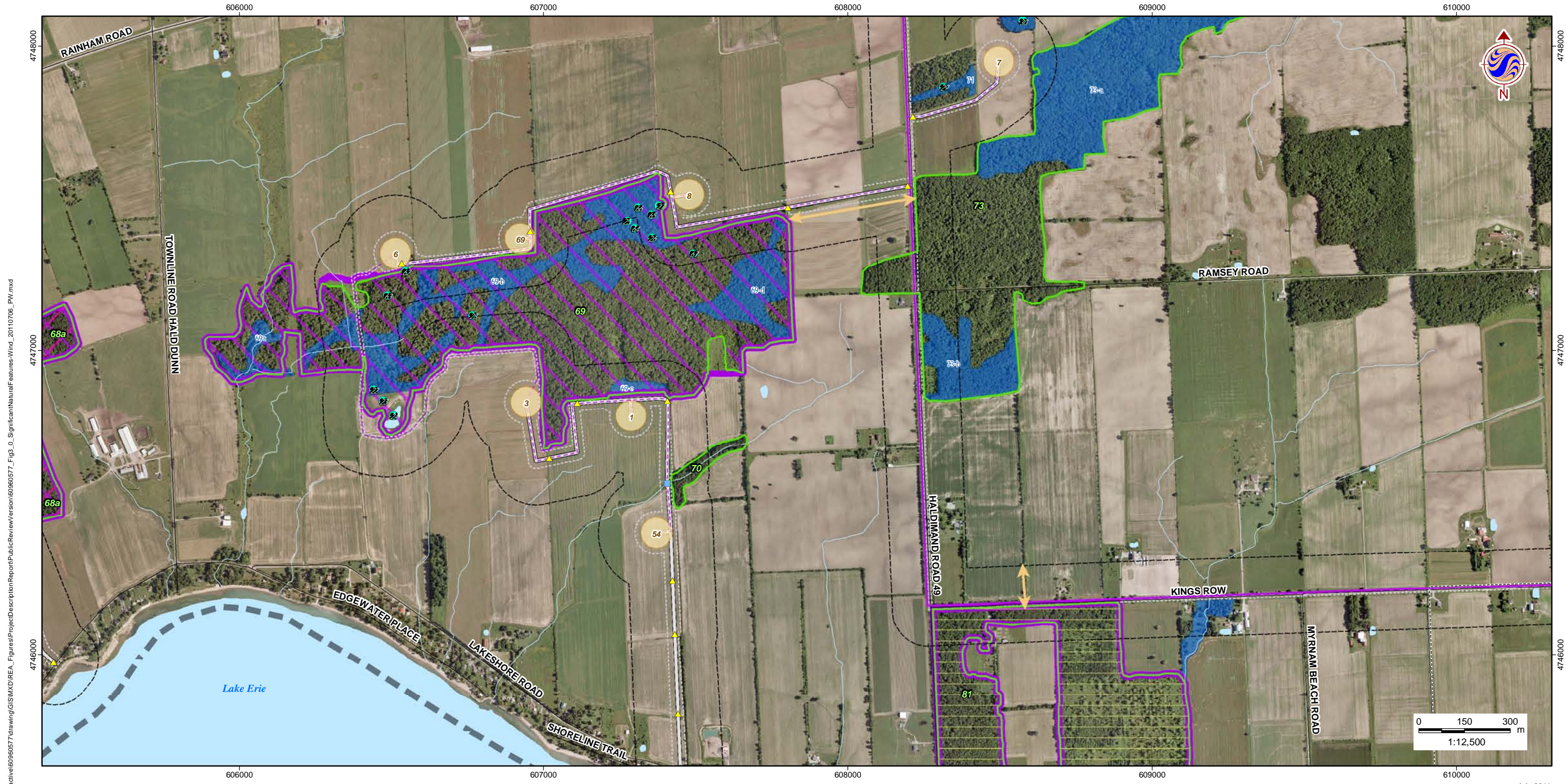
Client/Project
**SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK**

Figure No.
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Title
**SIGNIFICANT NATURAL
FEATURES - W14**





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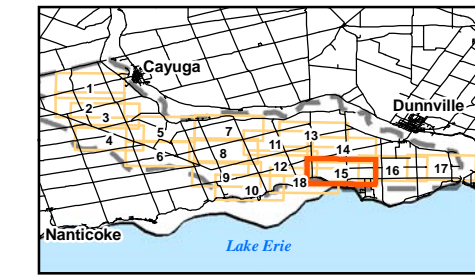
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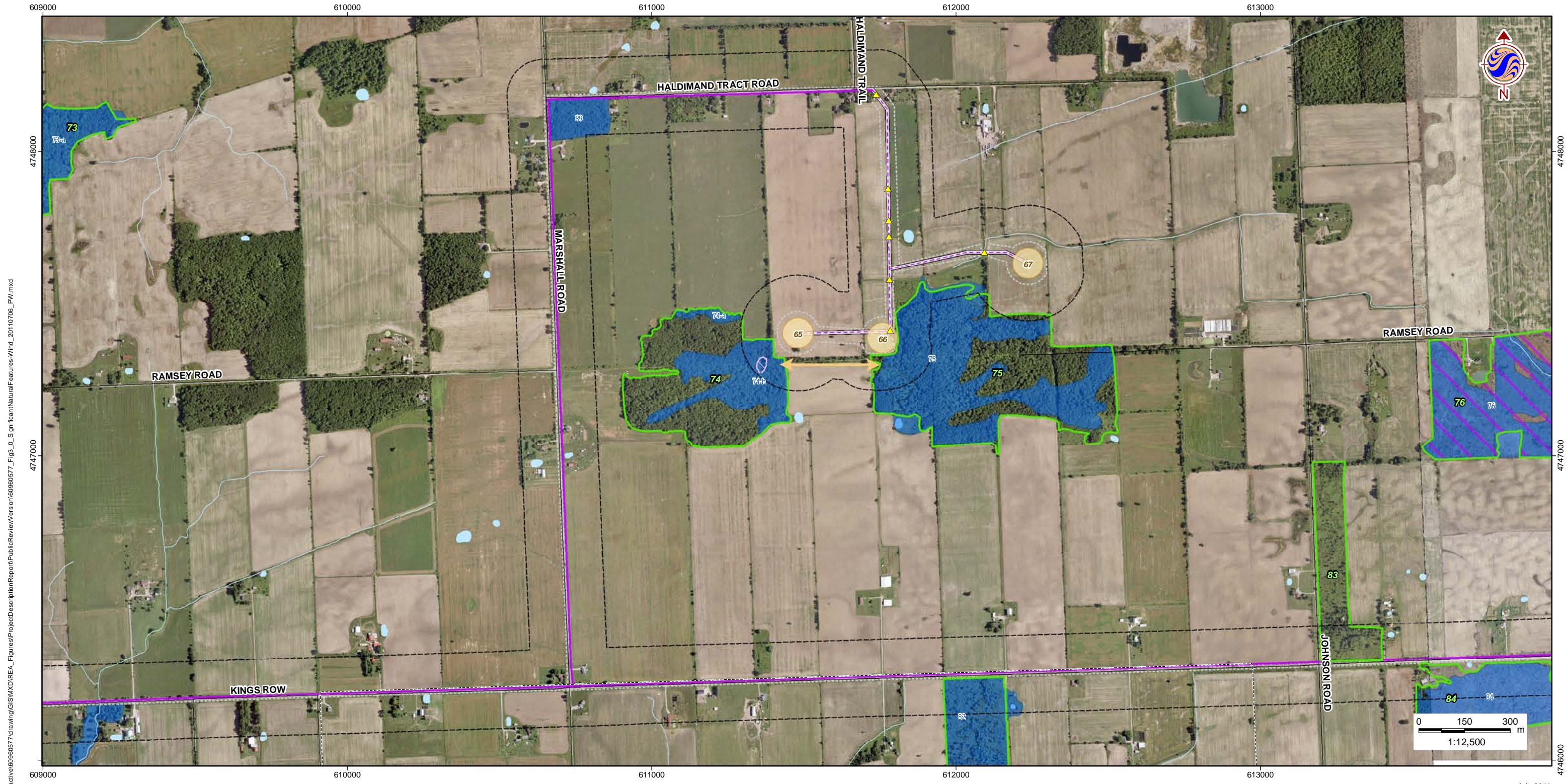
Client/Project
**SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK**

Figure No.
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Title
**SIGNIFICANT NATURAL
FEATURES - W15**





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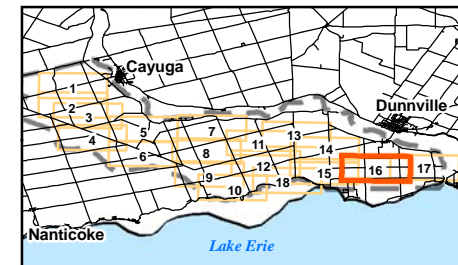
- Study Area
- Zone of Investigation
- Constructable Area
- Wind Project Location**
- Proposed Turbine Location
- Access Road
- Overhead Collector Line
- Underground Collector Line
- Solar Project Location**
- Solar Lands
- Transmission Line**
- Overhead Transmission Line
- Underground Transmission Line
- Electrical Transmission Component
- Existing Features**
- Road
- Railway
- Abandoned Railway
- Transmission Line (MNR)
- Watercourse (MNR)
- Waterbody (MNR)

- Wetland (MNR)**
- Provincially Significant Wetland
- Non-Provincially Significant Wetland
- Significant Natural Features**
- Significant Woodland
- Significant Wetland
- Significant Valleyland
- Significant Wildlife Habitat**
- Deer Wintering Area
- Habitat for Declining/Area-Sensitive Grassland Species
- Winter Raptor Roosting & Feeding Area

- Seep
- Vernal Pool
- Rare Vegetation Community
- Snapping Turtle Habitat
- Animal Movement Corridor
- Waterfowl Stopover
- Migratory Landbird Habitat
- Habitat for Declining Woodland Species
- Area-Sensitive Species Woodland Habitat
- Short-Eared Owl Habitat
- Culverts**
- Wildlife & Flow Culvert
- Other Culvert

Notes

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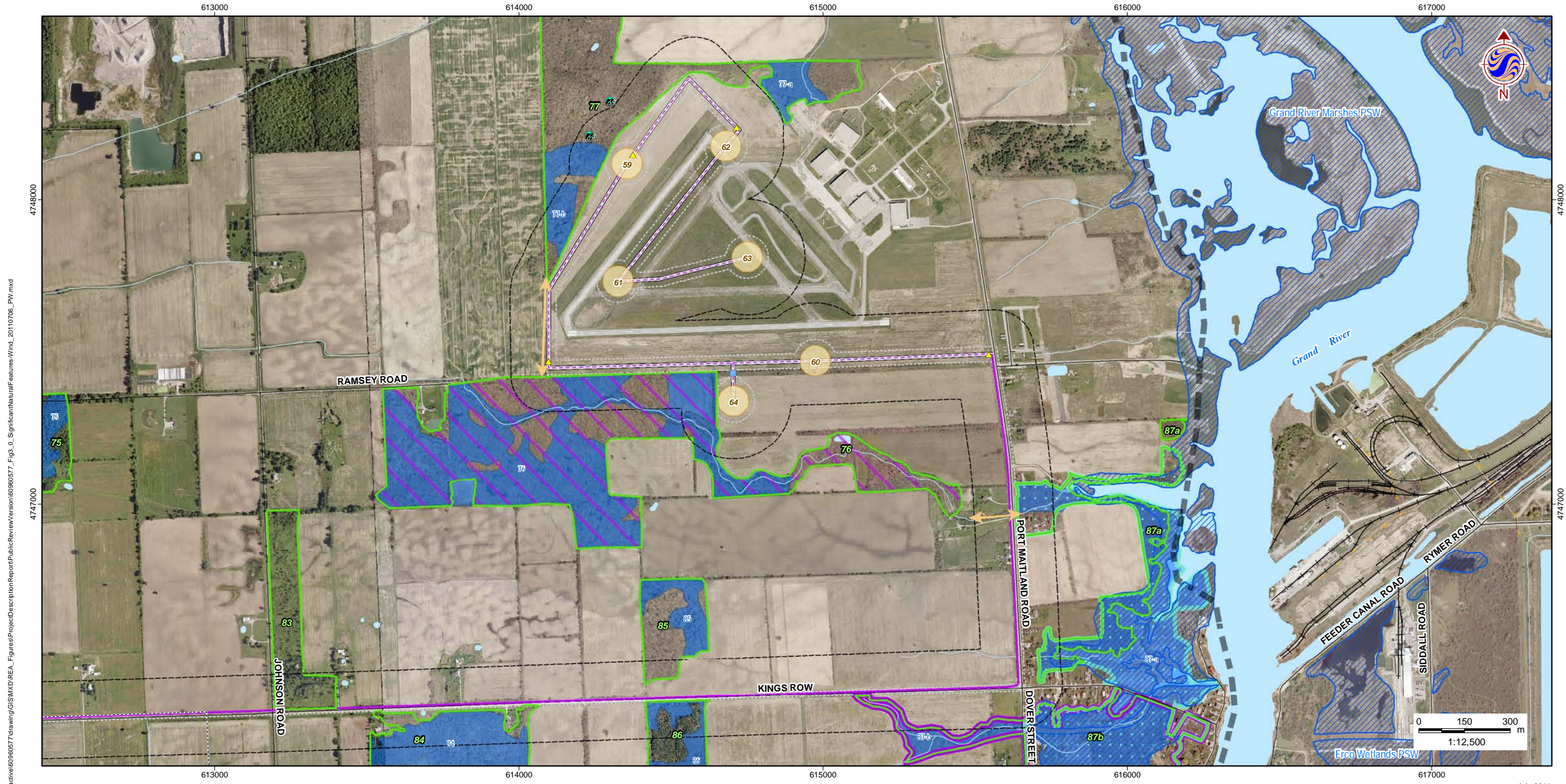


Client/Project
**SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK**

Figure No.
3.16

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Title
**SIGNIFICANT NATURAL
FEATURES - W16**



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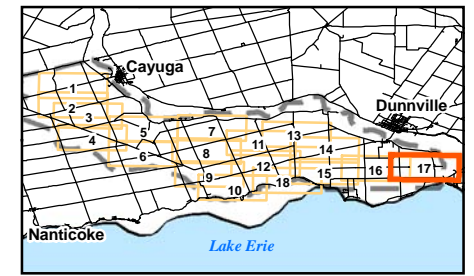
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3. Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

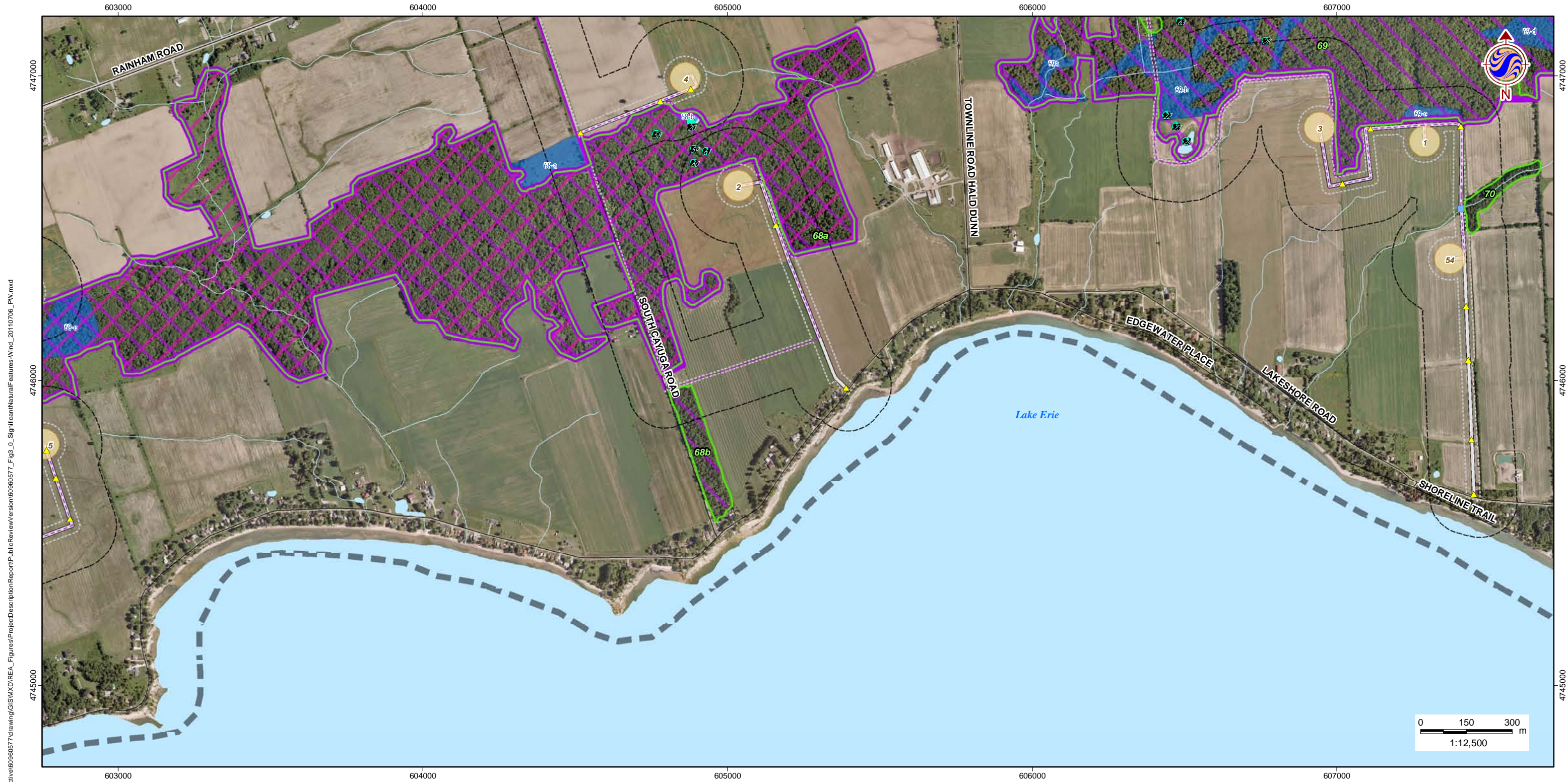
Client/Project
**SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK**

Figure No.
3.17

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Title
**SIGNIFICANT NATURAL
FEATURES - W17**





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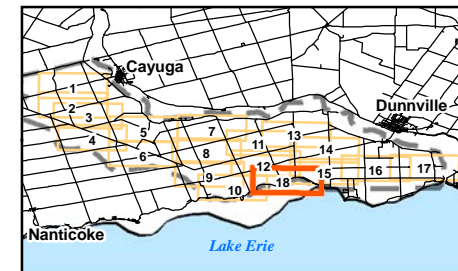


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| <ul style="list-style-type: none"> Study Area Zone of Investigation Constructable Area Wind Project Location Proposed Turbine Location Access Road Overhead Collector Line Underground Collector Line Solar Project Location Solar Lands | <ul style="list-style-type: none"> Transmission Line Overhead Transmission Line Underground Transmission Line Electrical Transmission Component Existing Features Road Railway Abandoned Railway Transmission Line (MNR) Watercourse (MNR) Waterbody (MNR) | <ul style="list-style-type: none"> Wetland (MNR) Provincially Significant Wetland Non-Provincially Significant Wetland Significant Natural Features Significant Woodland Significant Wetland Significant Valleyland Significant Wildlife Habitat Deer Wintering Area Habitat for Declining/Area-Sensitive Grassland Species Winter Raptor Roosting & Feeding Area | <ul style="list-style-type: none"> Seep Vernal Pool Rare Vegetation Community Snapping Turtle Habitat Animal Movement Corridor Waterfowl Stopover Migratory Landbird Habitat Habitat for Declining Woodland Species Area-Sensitive Species Woodland Habitat Short-Eared Owl Habitat Culverts Wildlife & Flow Culvert Other Culvert |
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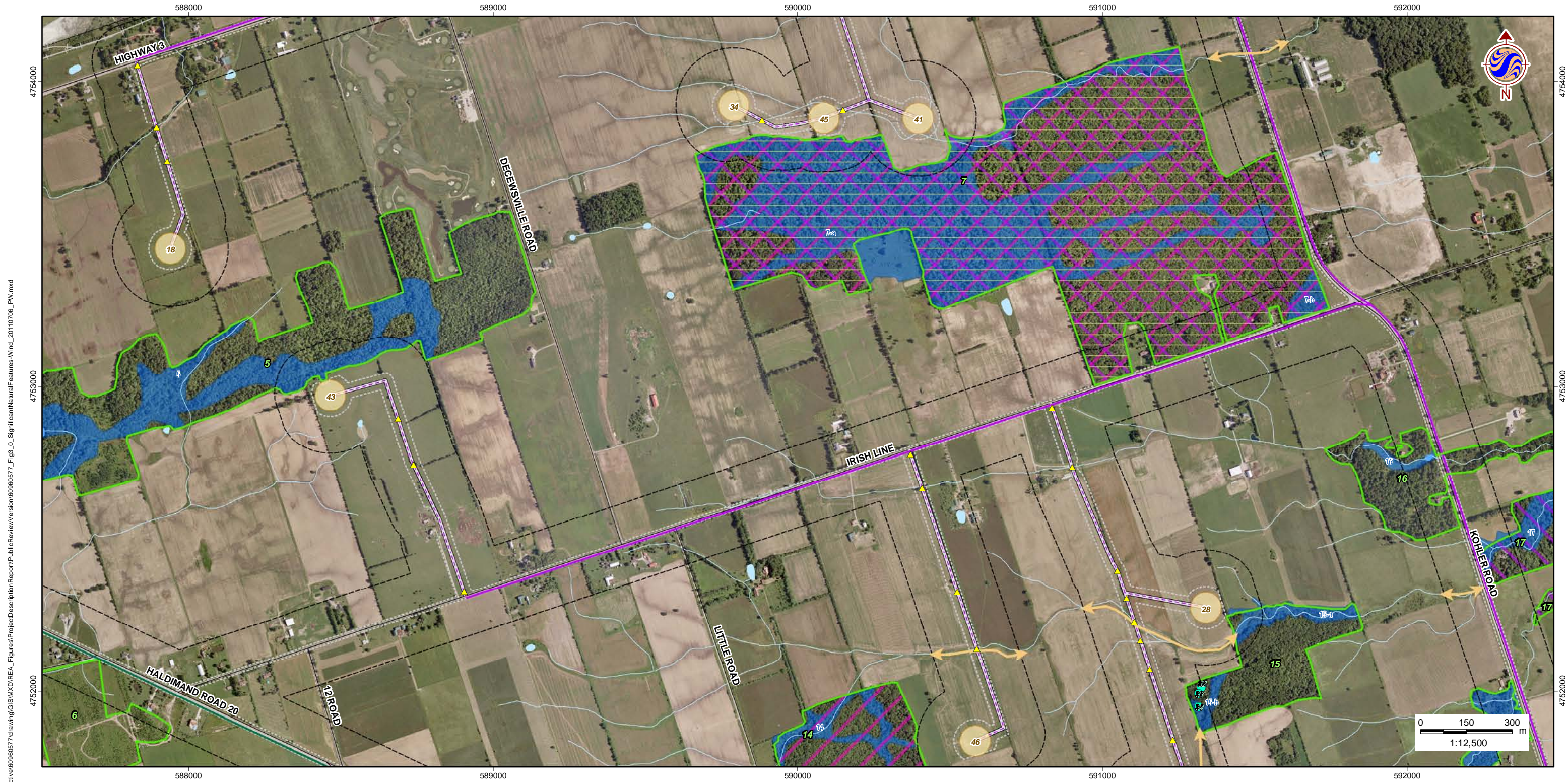


Client/Project
**SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK**

Figure No.
3.18

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Title
**SIGNIFICANT NATURAL
FEATURES - W18**



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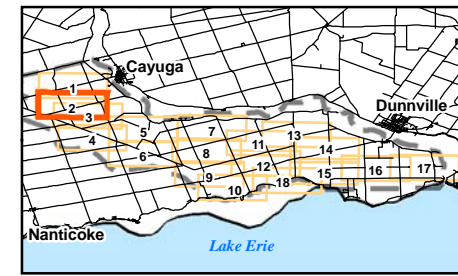
1. Coordinate System: UTM NAD 83 - Zone 17 (N).
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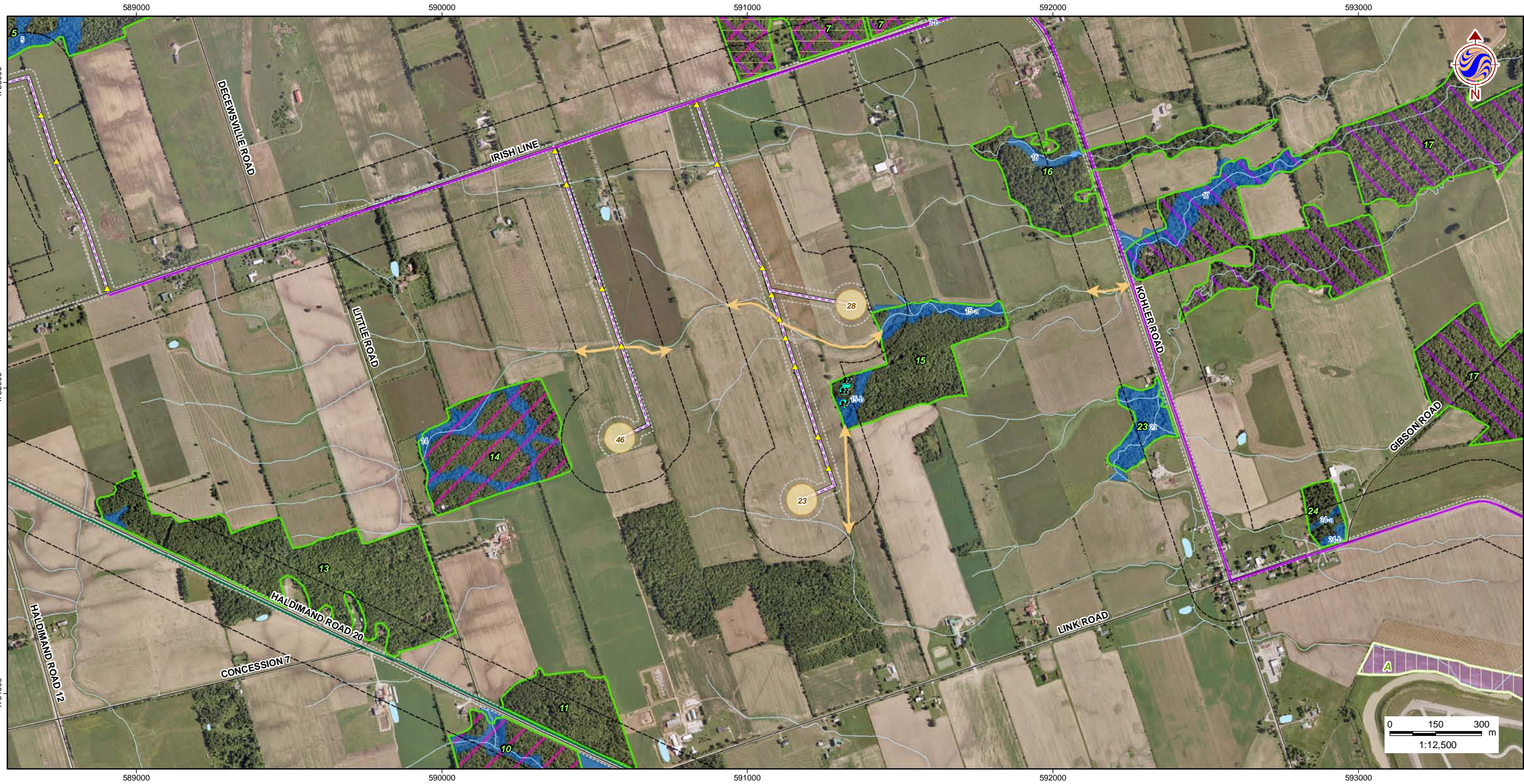
Client/Project
**SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK**

Figure No.
3.2

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**SIGNIFICANT NATURAL
FEATURES - W2**





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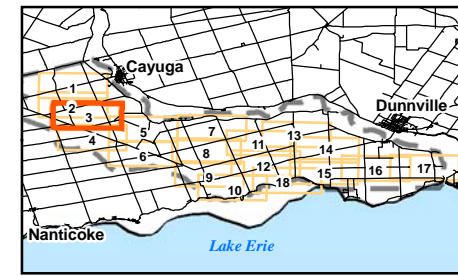
1. Coordinate System: UTM NAD 83 - Zone 17 (N).
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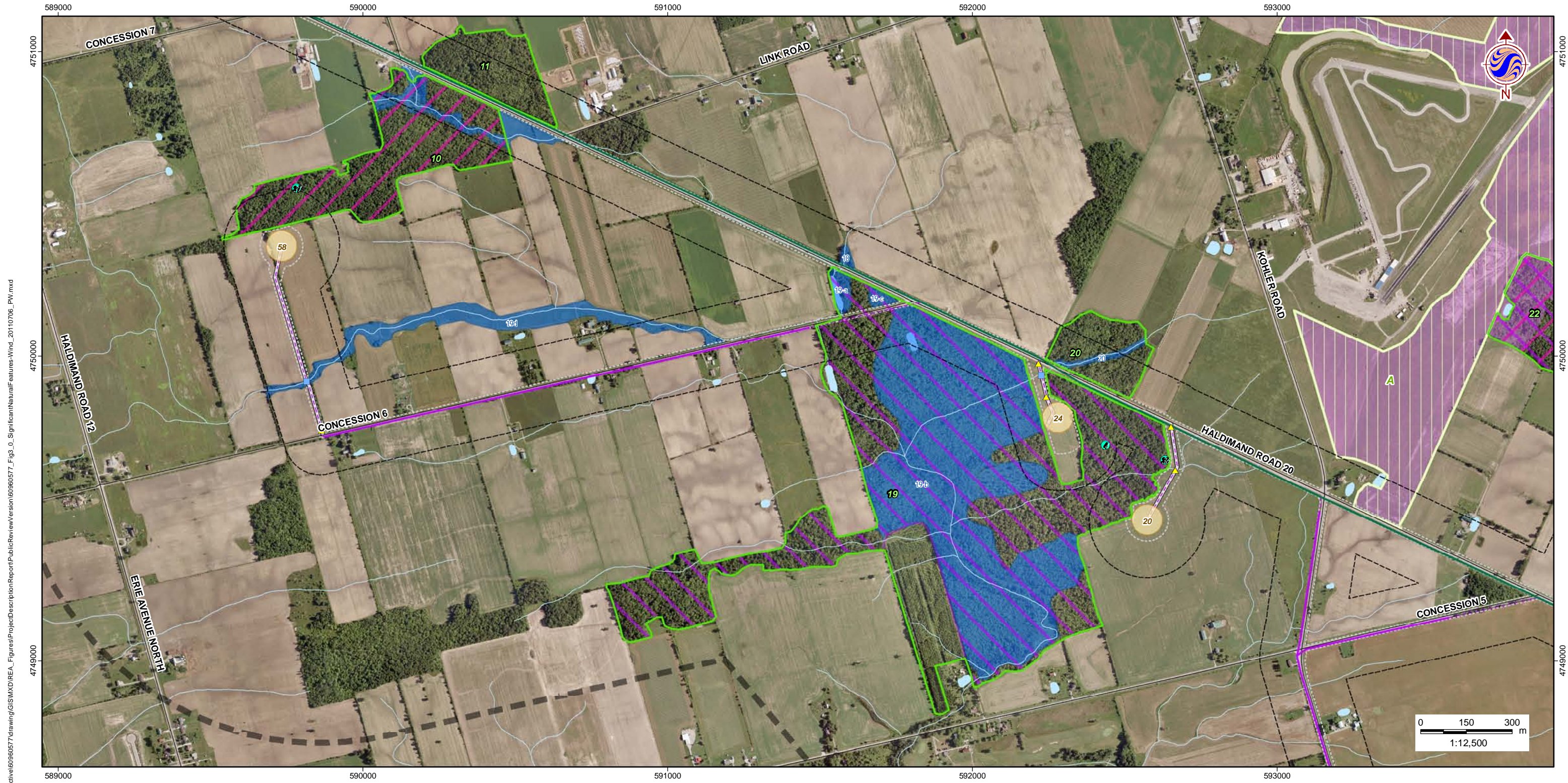
Client/Project
**SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK**

Figure No.
3.3

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**SIGNIFICANT NATURAL
FEATURES - W3**





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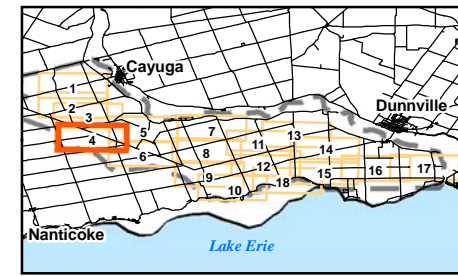
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**SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK**

Figure No.
3.4

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**SIGNIFICANT NATURAL
FEATURES - W4**





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Legend

- Study Area
- Zone of Investigation
- Constructable Area
- Wind Project Location**
- Proposed Turbine Location
- Access Road
- Overhead Collector Line
- Underground Collector Line
- Solar Project Location**
- Solar Lands
- Transmission Line**
- Overhead Transmission Line
- Underground Transmission Line
- Electrical Transmission Component
- Existing Features**
- Road
- Railway
- Abandoned Railway
- Transmission Line (MNR)
- Watercourse (MNR)
- Waterbody (MNR)

- Wetland (MNR)**
- Provincially Significant Wetland
- Non-Provincially Significant Wetland
- Significant Natural Features**
- Significant Woodland
- Significant Wetland
- Significant Valleyland
- Significant Wildlife Habitat**
- Deer Wintering Area
- Habitat for Declining/Area-Sensitive Grassland Species
- Winter Raptor Roosting & Feeding Area

- Seep
- Vernal Pool
- Rare Vegetation Community
- Snapping Turtle Habitat
- Animal Movement Corridor
- Waterfowl Stopover
- Migratory Landbird Habitat
- Habitat for Declining Woodland Species
- Area-Sensitive Species Woodland Habitat
- Short-Eared Owl Habitat
- Culverts**
- Wildlife & Flow Culvert
- Other Culvert

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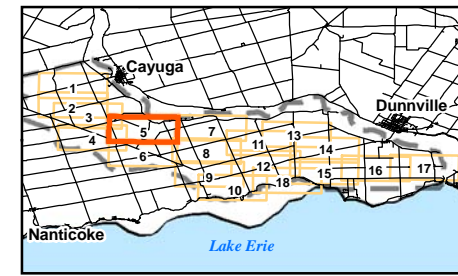
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**SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK**

Figure No.
3.5

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**SIGNIFICANT NATURAL
FEATURES - W5**





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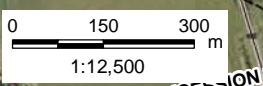
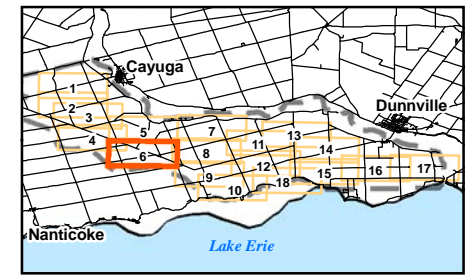
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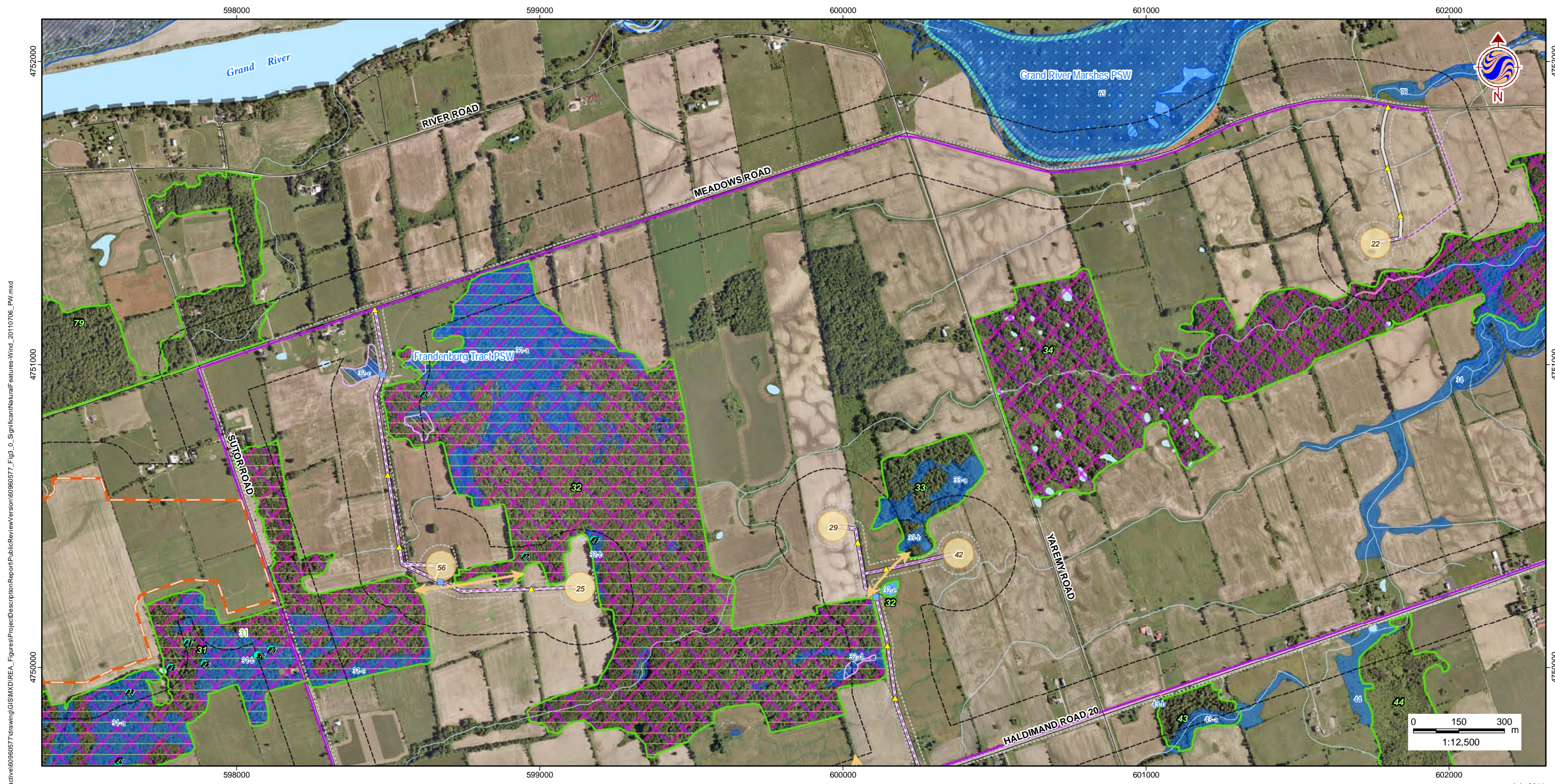
Client/Project
**SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK**

Figure No.
3.6

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**SIGNIFICANT NATURAL
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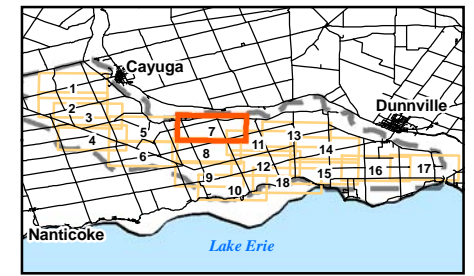
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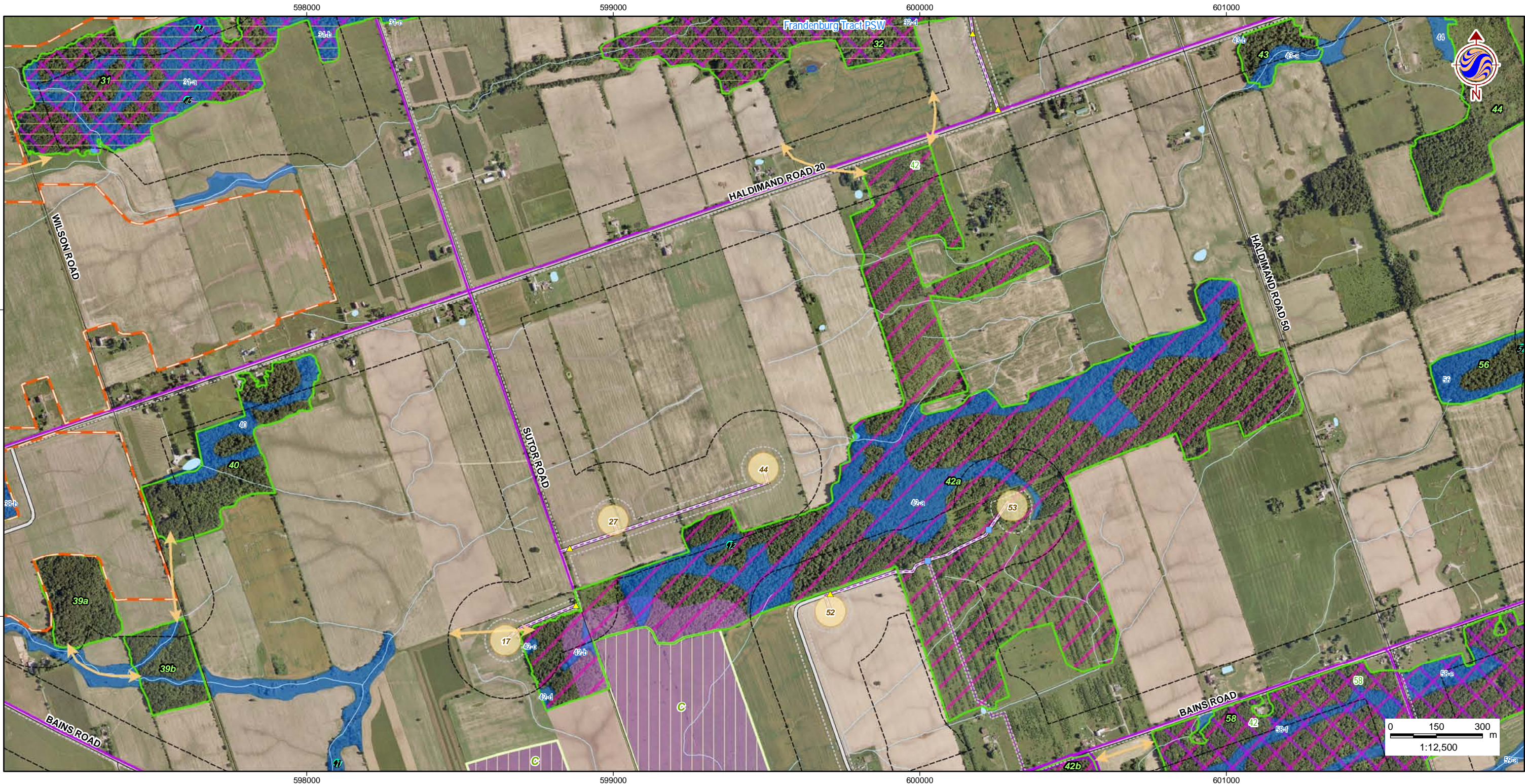
Client/Project
**SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK**

Figure No.
3.7

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**SIGNIFICANT NATURAL
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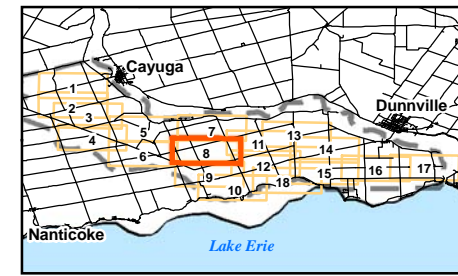
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**SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK**

Figure No.
3.8

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**SIGNIFICANT NATURAL
FEATURES - W8**





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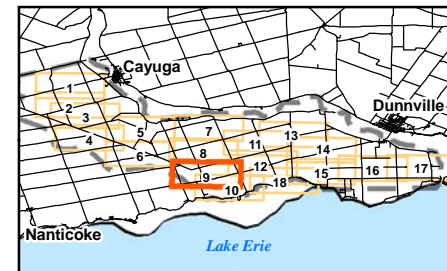
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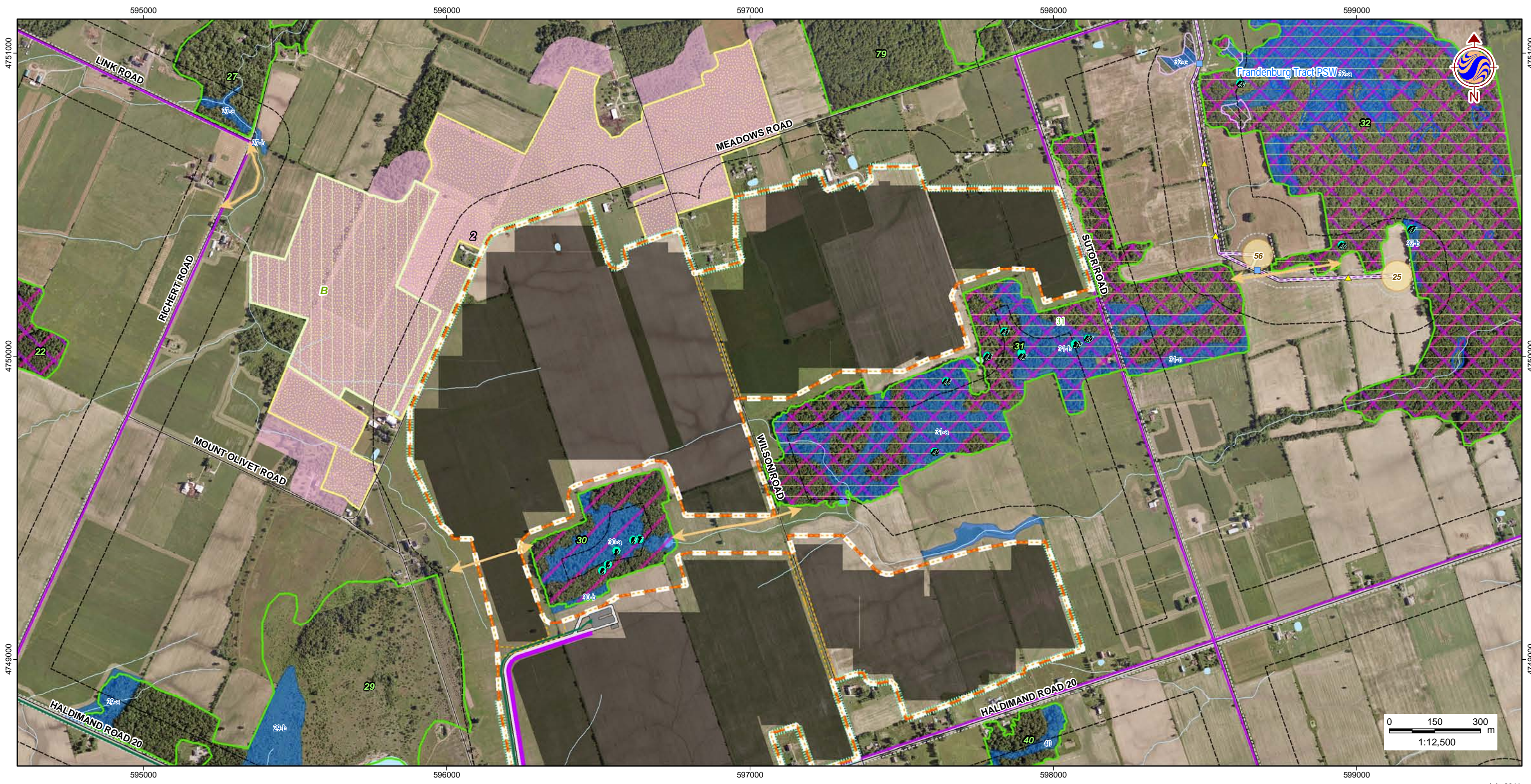
Client/Project
**SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK**

Figure No.
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**SIGNIFICANT NATURAL
FEATURES - W9**





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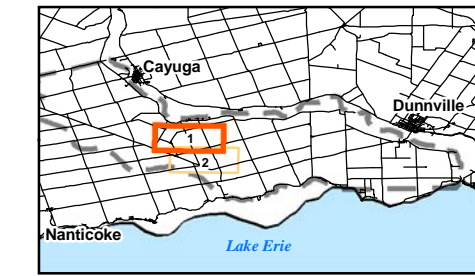
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Client/Project
**SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK**

Figure No.
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**SIGNIFICANT NATURAL
FEATURES - S1**





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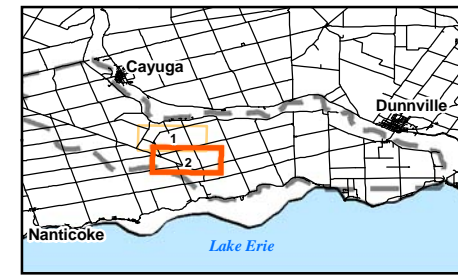
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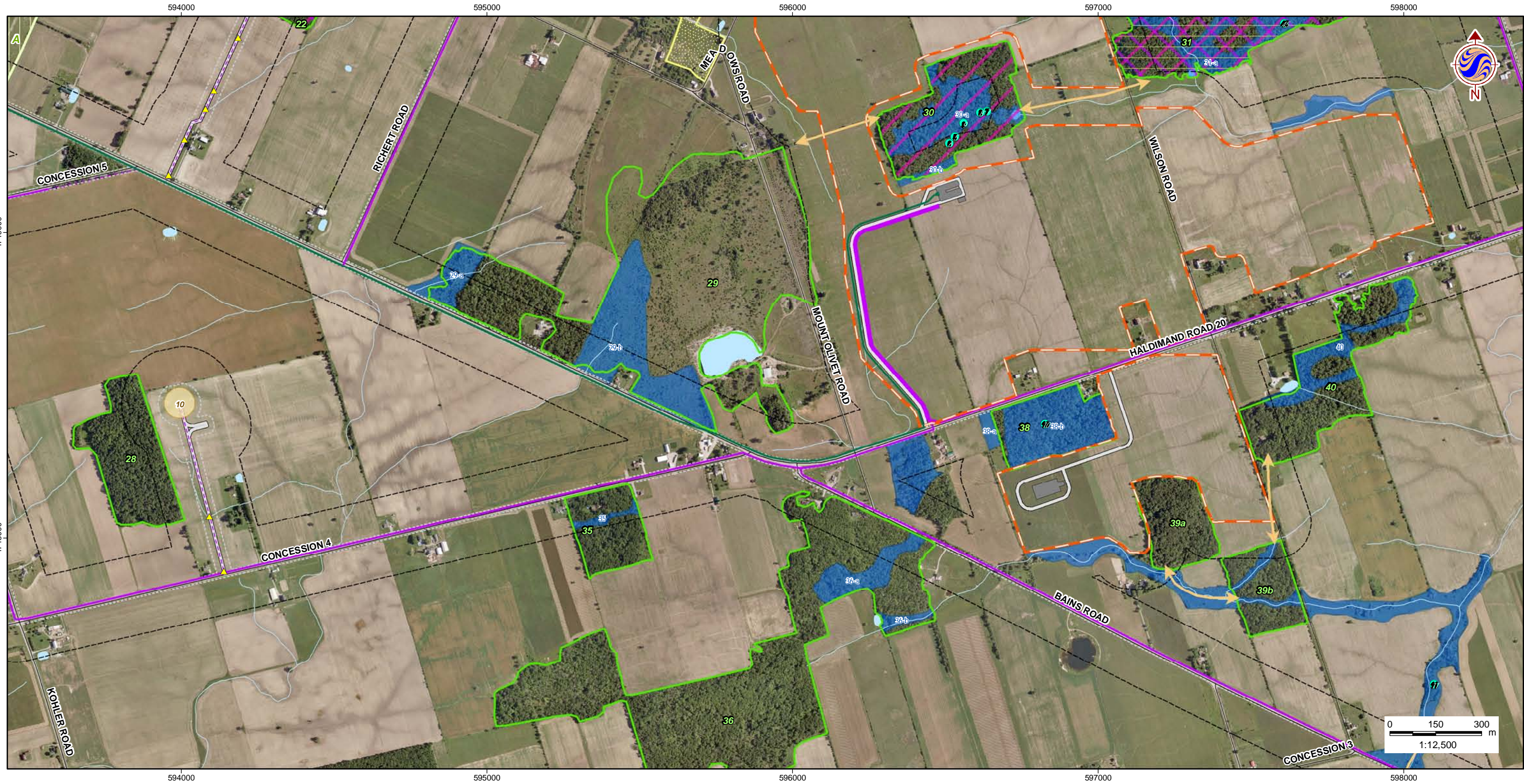
Client/Project
**SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK**

Figure No.
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**SIGNIFICANT NATURAL
FEATURES - S2**





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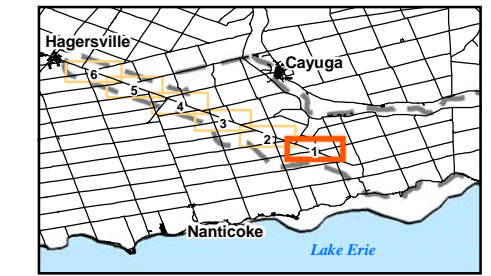


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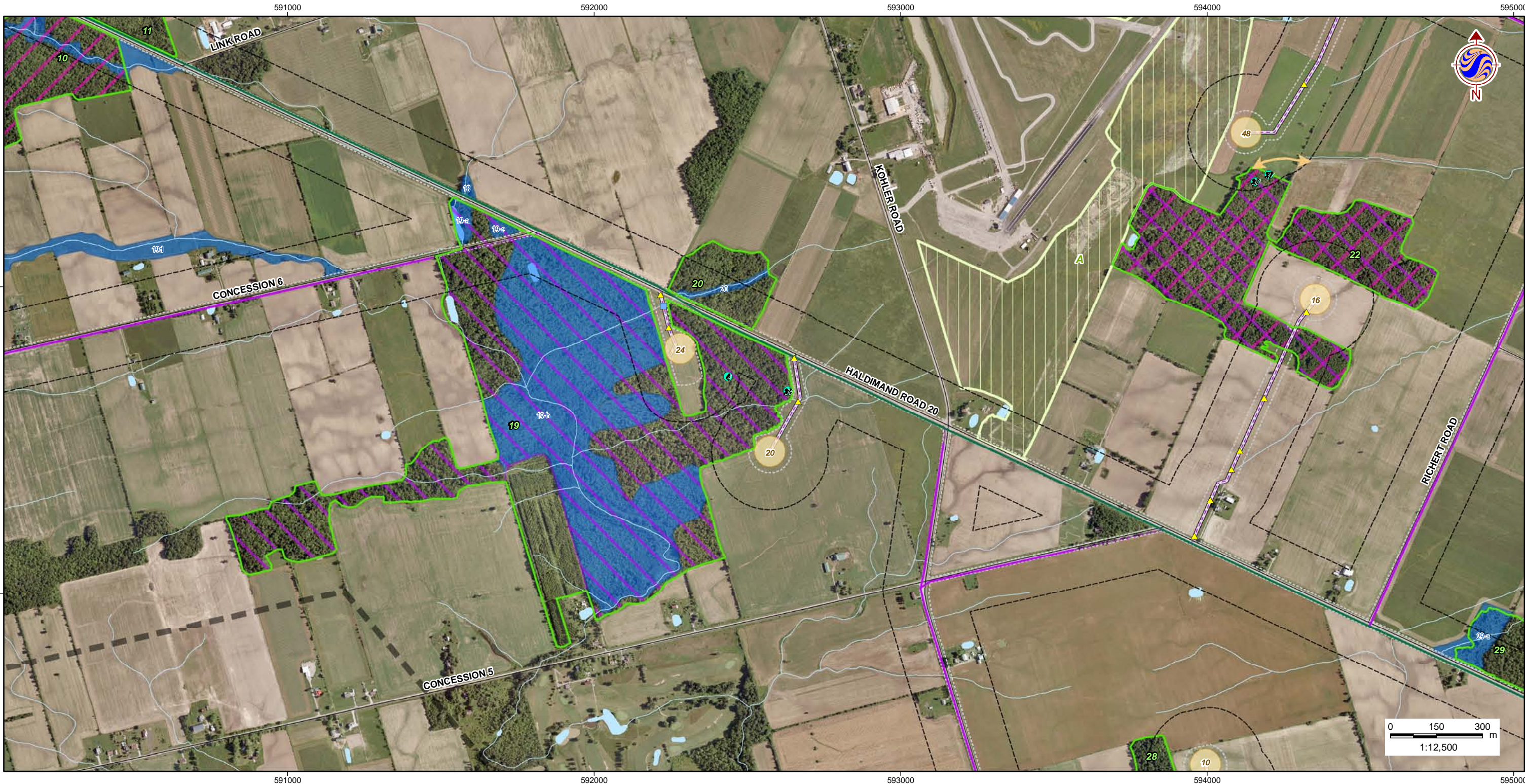
Client/Project
**SAMSUNG, PATTERN & KEPCO (SPK)
 GRAND RENEWABLE ENERGY PARK**

Figure No.
5.1

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Title
**SIGNIFICANT NATURAL
 FEATURES - T1**

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| <ul style="list-style-type: none"> Study Area Zone of Investigation Constructable Area Wind Project Location Proposed Turbine Location Access Road Overhead Collector Line Underground Collector Line Solar Project Location Solar Lands | <ul style="list-style-type: none"> Transmission Line Overhead Transmission Line Underground Transmission Line Electrical Transmission Component Existing Features Road Railway Abandoned Railway Transmission Line (MNR) Watercourse (MNR) Waterbody (MNR) | <ul style="list-style-type: none"> Wetland (MNR) Provincially Significant Wetland Non-Provincially Significant Wetland Significant Natural Features Woodland Significant Wetland Significant Valleyland Significant Wildlife Habitat Deer Wintering Area Habitat for Declining/Area-Sensitive Grassland Species | <ul style="list-style-type: none"> Seep Vernal Pool Rare Vegetation Community Snapping Turtle Habitat Animal Movement Corridor Waterfowl Stopover Migratory Landbird Habitat Habitat for Declining Woodland Species Area-Sensitive Species Woodland Habitat Short-Eared Owl Habitat Culverts Wildlife & Flow Culvert Other Culvert |
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Notes

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Figure No.
5.2

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Title
**SIGNIFICANT NATURAL
 FEATURES - T2**





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| <ul style="list-style-type: none"> Study Area Zone of Investigation Constructable Area Wind Project Location Proposed Turbine Location Access Road Overhead Collector Line Underground Collector Line Solar Project Location Solar Lands | <ul style="list-style-type: none"> Transmission Line Overhead Transmission Line Underground Transmission Line Electrical Transmission Component Existing Features Road Railway Abandoned Railway Transmission Line (MNR) Watercourse (MNR) Waterbody (MNR) | <ul style="list-style-type: none"> Wetland (MNR) Provincially Significant Wetland Non-Provincially Significant Wetland Significant Natural Features Woodland Significant Wetland Significant Valleyland Significant Wildlife Habitat Deer Wintering Area Habitat for Declining/Area-Sensitive Grassland Species | <ul style="list-style-type: none"> Seep Vernal Pool Rare Vegetation Community Snapping Turtle Habitat Animal Movement Corridor Waterfowl Stopover Migratory Landbird Habitat Habitat for Declining Woodland Species Area-Sensitive Species Woodland Habitat Short-Eared Owl Habitat Culverts Wildlife & Flow Culvert Other Culvert |
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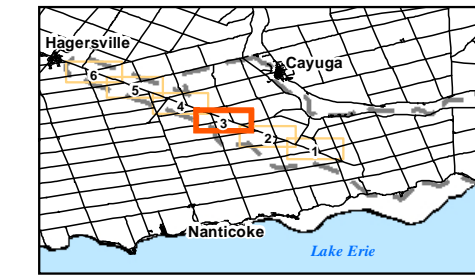
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GRAND RENEWABLE ENERGY PARK**

Figure No.
5.3

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**SIGNIFICANT NATURAL
FEATURES - T3**



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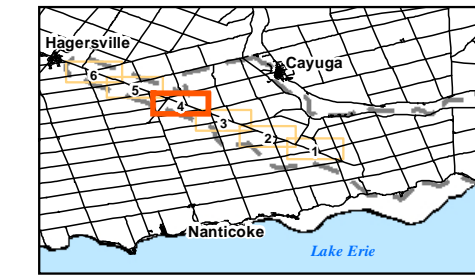
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Figure No.
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**SIGNIFICANT NATURAL
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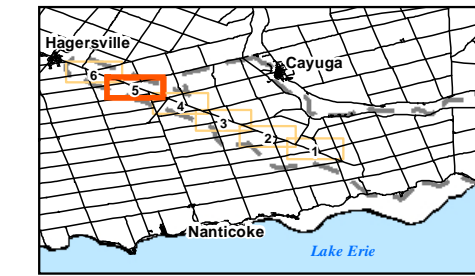
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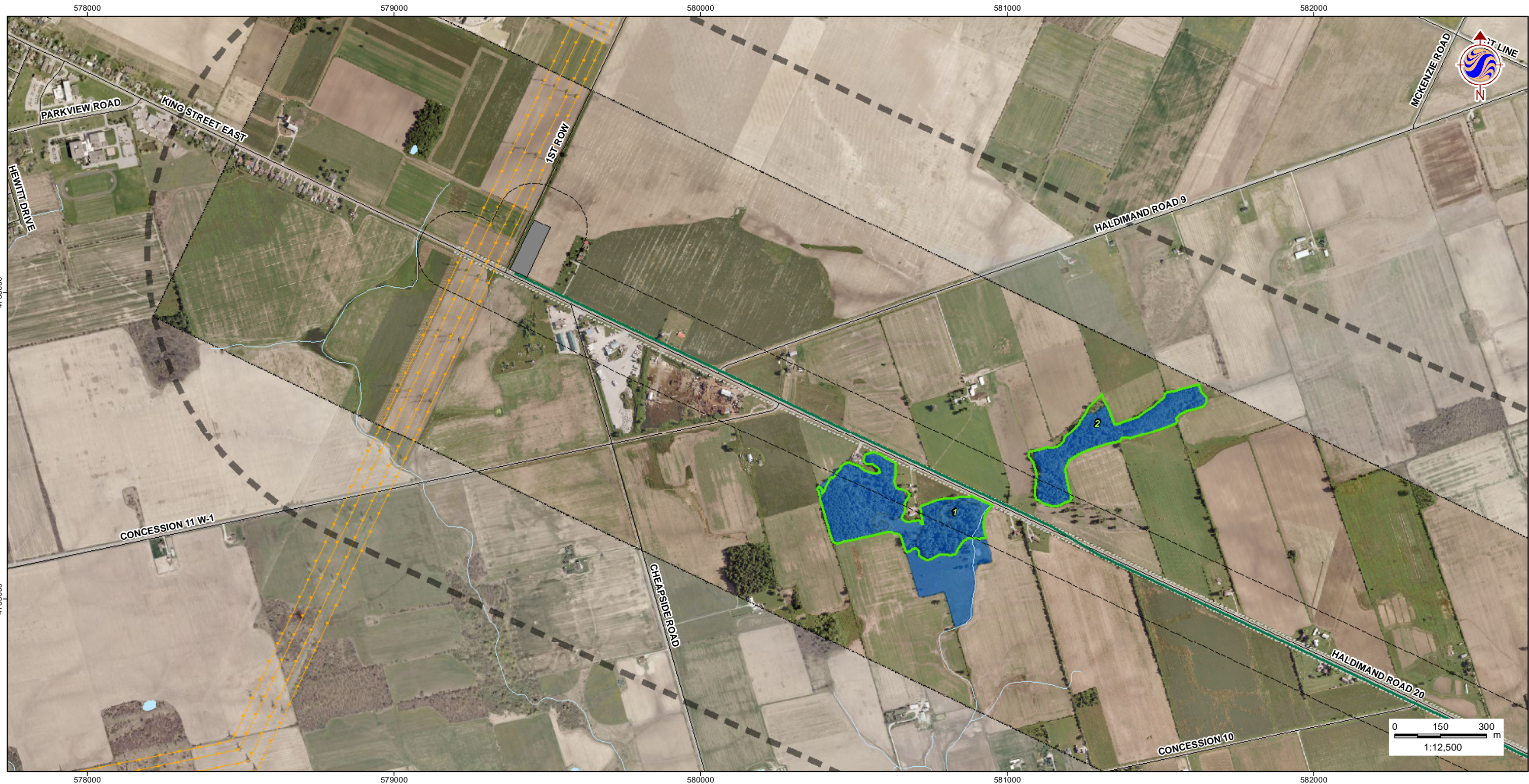
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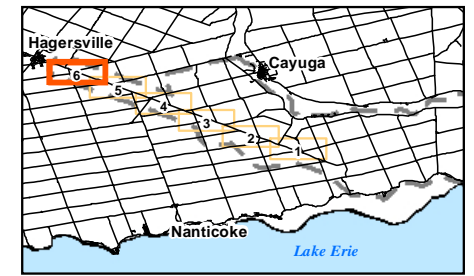


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Figure No.
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