

W:\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig1_Watersheds_20110706_P1W.mxd

July 2011
160960577



Stantec

Legend

- Study Area
- Zone of Investigation
- 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
- Watercourse (OBM, as modified by Stantec)
- Waterbody (OBM, as modified by Stantec)

- Conservation Authority Watershed Boundary
- LPRCA Subwatersheds**
- Stoney Creek
- Hemlock Creek
- Wardells Creek
- Evans Creek

- GRCA Subwatersheds**
- Unnamed Grand River Tributaries
- Holmes Creek/ Sulphur Creek
- Unnamed Lake Erie Tributaries
- Mazi Drain

Notes

1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.

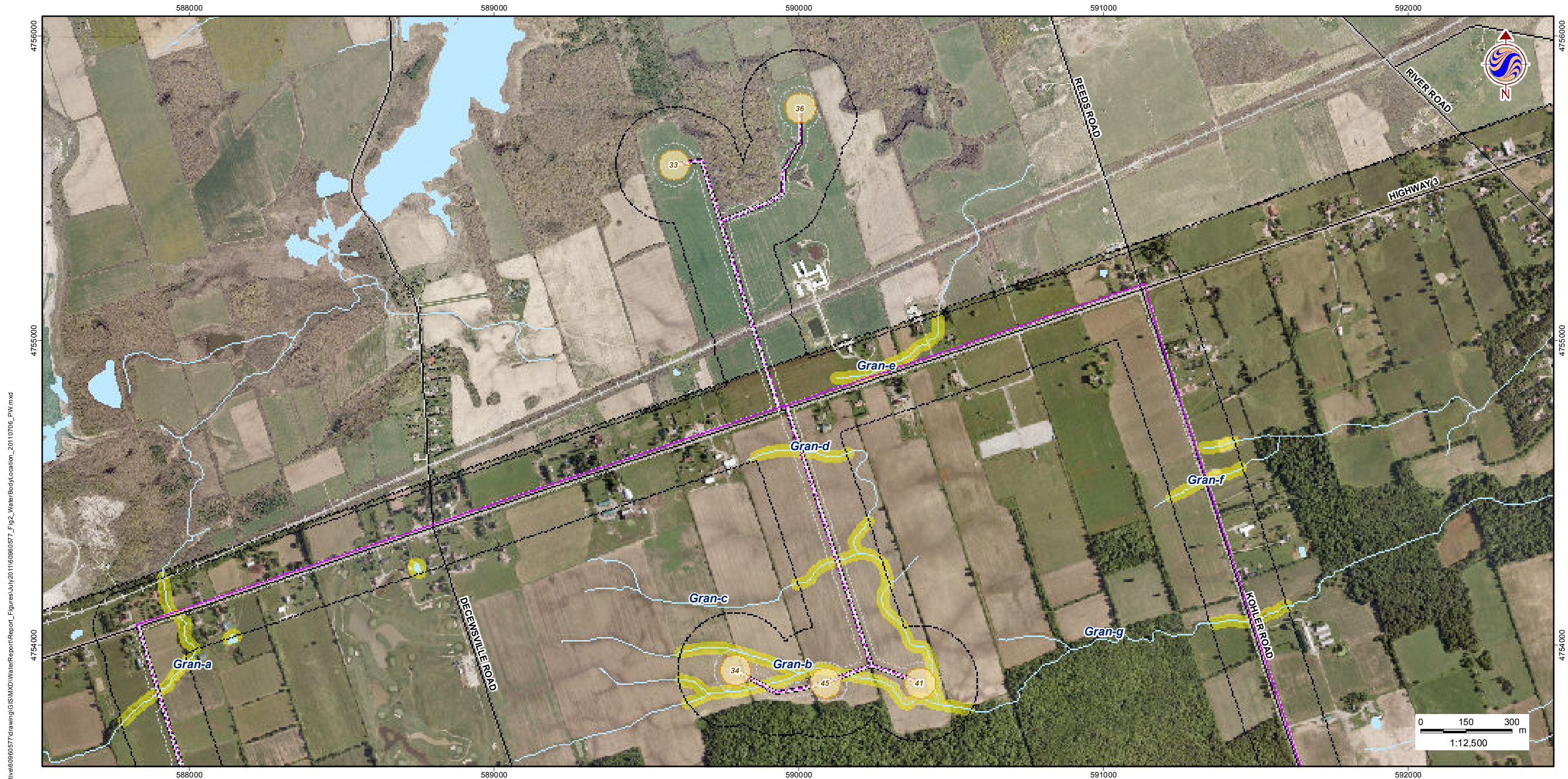
Client/Project
SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK

Figure No.
1.0

Title

WATERSHEDS AND SUBWATERSHEDS

DRAFT



W:\active\160960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\160960577_Fig2_WaterBodyLocation_20110706_PW.mxd

July 2011
160960577



Stantec

Legend

- | | | | | | |
|-------------------------------|----------------------------|--------------------------|---|--|---|
| | Study Area | | Overhead Transmission Line | | RE A Water Body |
| | Zone of Investigation | | Underground Transmission Line | | Non-RE A Watercourse |
| | Constructable Area | | Electrical Transmission Component | | |
| Wind Project Location | | | | | |
| | Proposed Turbine Location | Existing Features | | | |
| | Access Road | | Road | | Railway |
| | Overhead Collector Line | | Abandoned Railway | | Transmission Line (MNR) |
| | Underground Collector Line | | Watercourse (OBM, as modified by Stantec) | | Waterbody (OBM, as modified by Stantec) |
| Solar Project Location | | | | | |
| | Solar Lands | | | | |



Notes

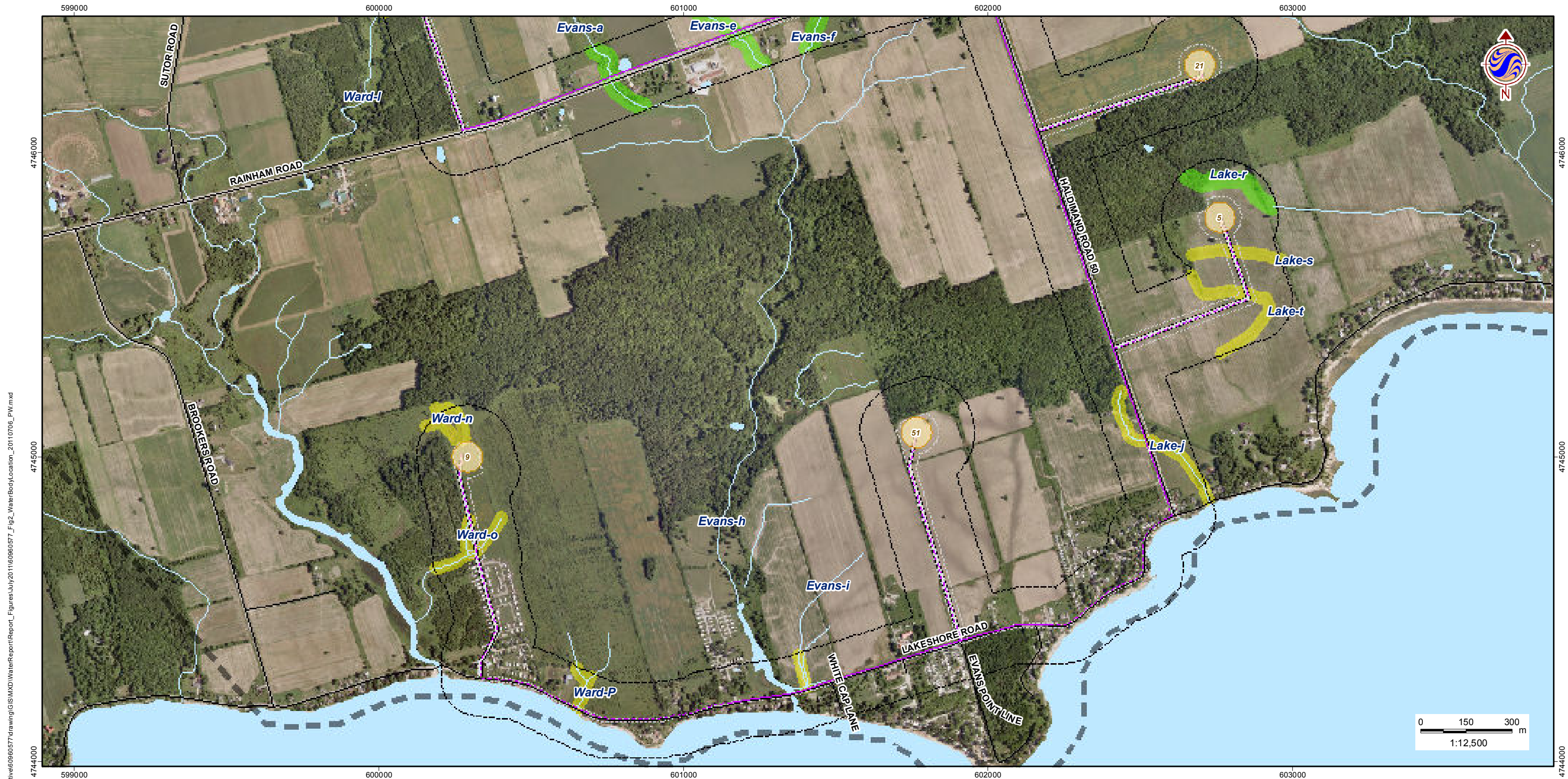
- Coordinate System: UTM NAD 83 - Zone 17 (N).
- Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
- Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

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

Figure No.
2.1

DRAFT

Title
**WATER BODY LOCATIONS
Tile 1 of 20**



W:\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig2_WaterBodyLocation_20110706_PW.mxd



Legend

- | | | | | | |
|-------------------------------|----------------------------|--------------------------|---|--|---|
| | Study Area | | Overhead Transmission Line | | RE A Water Body |
| | Zone of Investigation | | Underground Transmission Line | | Non-REA Watercourse |
| | Constructable Area | | Electrical Transmission Component | | |
| Wind Project Location | | | | | |
| | Proposed Turbine Location | Existing Features | | | |
| | Access Road | | Road | | Railway |
| | Overhead Collector Line | | Abandoned Railway | | Transmission Line (MNR) |
| | Underground Collector Line | | Watercourse (OBM, as modified by Stantec) | | Waterbody (OBM, as modified by Stantec) |
| Solar Project Location | | | | | |
| | Solar Lands | | | | |



Notes

1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
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.
2.10

Title
WATER BODY LOCATIONS
Tile 10 of 20

DRAFT

July 2011
 160960577



W:\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig2_WaterBodyLocation_20110706_PW.mxd

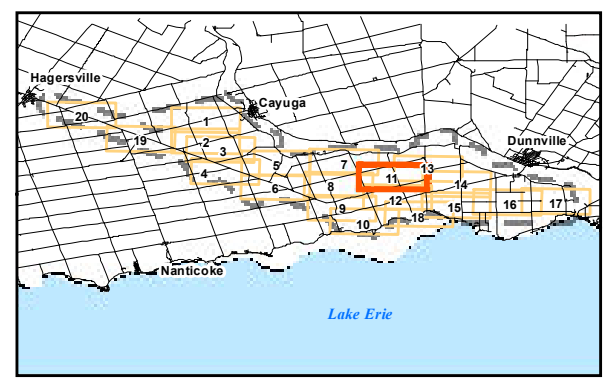
July 2011
160960577



Stantec

Legend

- | | | |
|--|--|---|
| <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 (OBM, as modified by Stantec) Waterbody (OBM, as modified by Stantec) | <ul style="list-style-type: none"> Water Body Status REA Water Body Non-REA Watercourse |
|--|--|---|



Notes

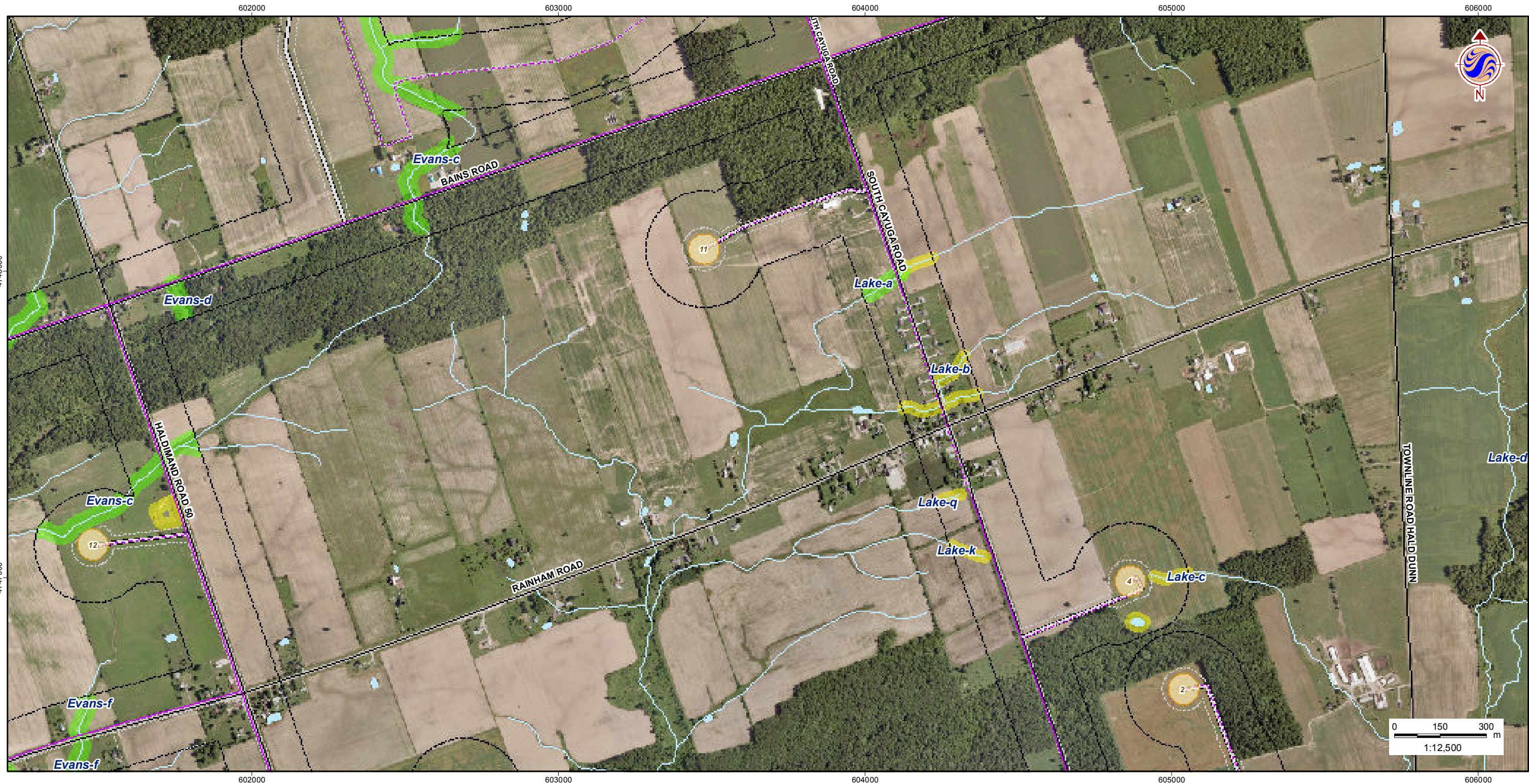
1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
3. Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

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

Figure No.
2.11

DRAFT

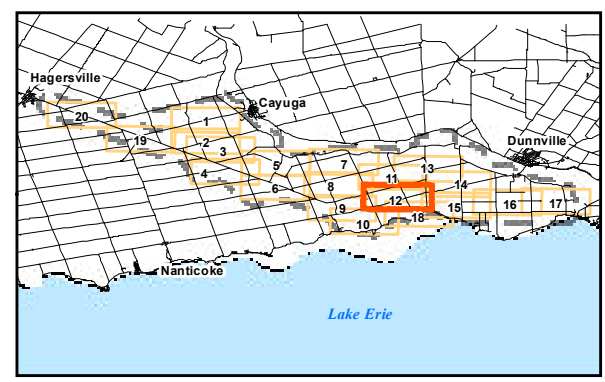
Title
**WATER BODY LOCATIONS
Tile 11 of 20**



W:\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig2_WaterBodyLocation_20110706_PW.mxd



- 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 (OBM, as modified by Stantec)
 - Waterbody (OBM, as modified by Stantec)
 - Water Body Status**
 - REA Water Body
 - Non-REA Watercourse



- Notes**
1. Coordinate System: UTM NAD 83 - Zone 17 (N).
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
 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.
2.12

Title
WATER BODY LOCATIONS
Tile 12 of 20

DRAFT

July 2011
 160960577



W:\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig2_WaterBodyLocation_20110706_P1W.mxd

July 2011
160960577



Stantec

Legend

- | | | | | | |
|-------------------------------|----------------------------|--------------------------|---|--|---|
| | Study Area | | Overhead Transmission Line | | RE-A Water Body |
| | Zone of Investigation | | Underground Transmission Line | | Non-RE-A Watercourse |
| | Constructable Area | | Electrical Transmission Component | | |
| Wind Project Location | | | | | |
| | Proposed Turbine Location | Existing Features | | | |
| | Access Road | | Road | | Railway |
| | Overhead Collector Line | | Abandoned Railway | | Transmission Line (MNR) |
| | Underground Collector Line | | Watercourse (OBM, as modified by Stantec) | | Waterbody (OBM, as modified by Stantec) |
| Solar Project Location | | | | | |
| | Solar Lands | | | | |



Notes

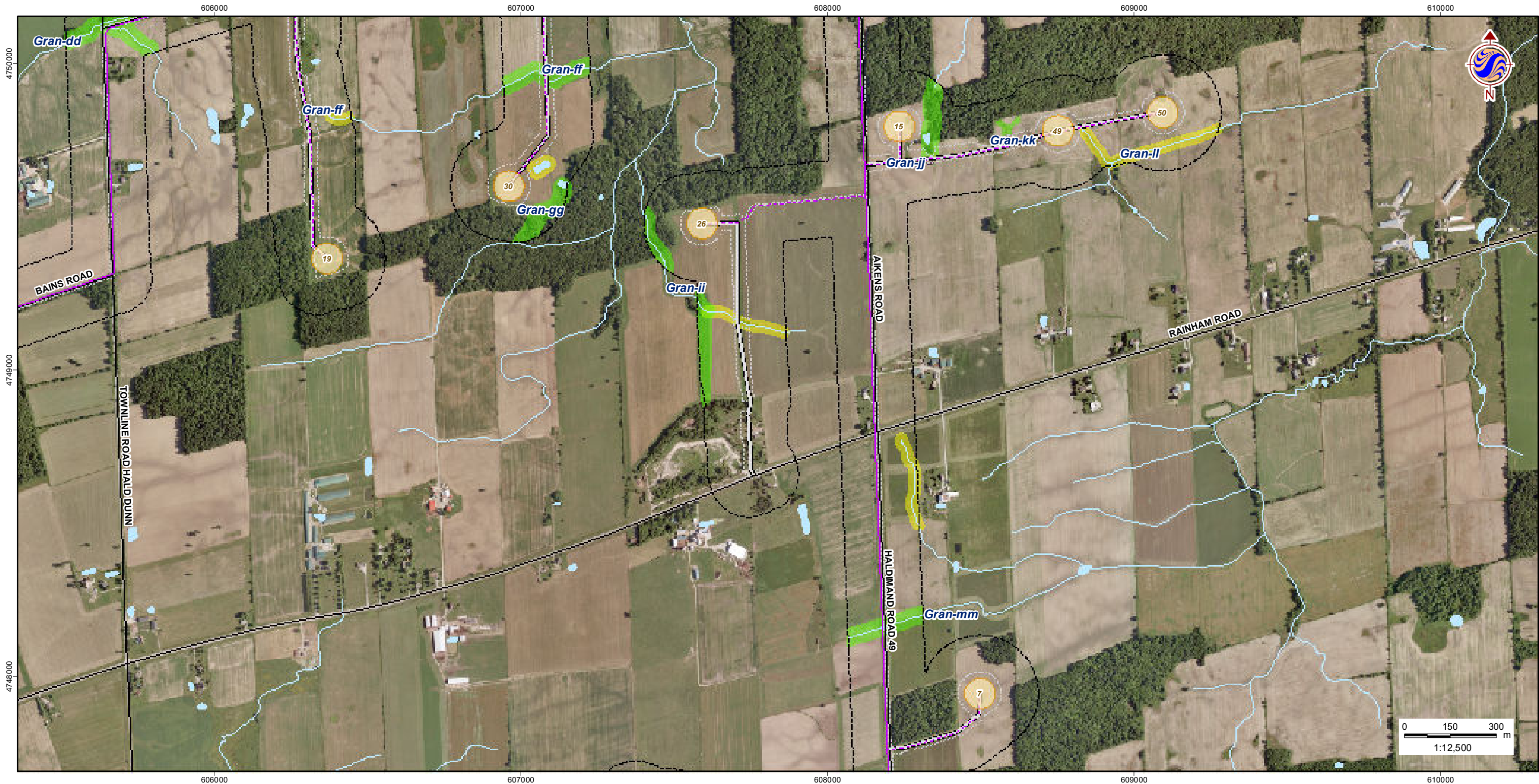
- Coordinate System: UTM NAD 83 - Zone 17 (N).
- Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
- Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

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

Figure No.
2.13

Title
**WATER BODY LOCATIONS
Tile 13 of 20**

DRAFT

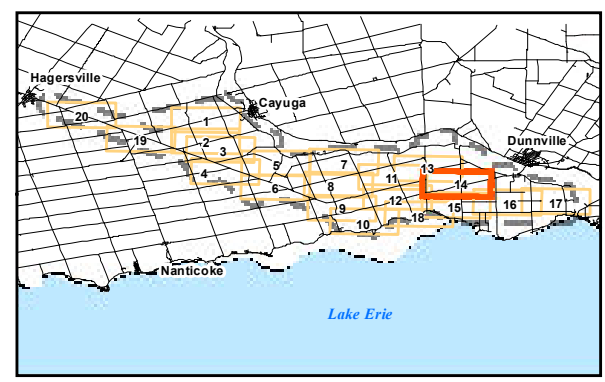


W:\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig2_WaterBodyLocation_20110706_PW.mxd



Legend

- | | | | | | |
|-------------------------------|----------------------------|--------------------------|---|--|---|
| | Study Area | | Overhead Transmission Line | | RE-A Water Body |
| | Zone of Investigation | | Underground Transmission Line | | Non-RE-A Watercourse |
| | Constructable Area | | Electrical Transmission Component | | |
| Wind Project Location | | | | | |
| | Proposed Turbine Location | Existing Features | | | |
| | Access Road | | Road | | Railway |
| | Overhead Collector Line | | Abandoned Railway | | Transmission Line (MNR) |
| | Underground Collector Line | | Watercourse (OBM, as modified by Stantec) | | Waterbody (OBM, as modified by Stantec) |
| Solar Project Location | | | | | |
| | Solar Lands | | | | |



Notes

- Coordinate System: UTM NAD 83 - Zone 17 (N).
- Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
- Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

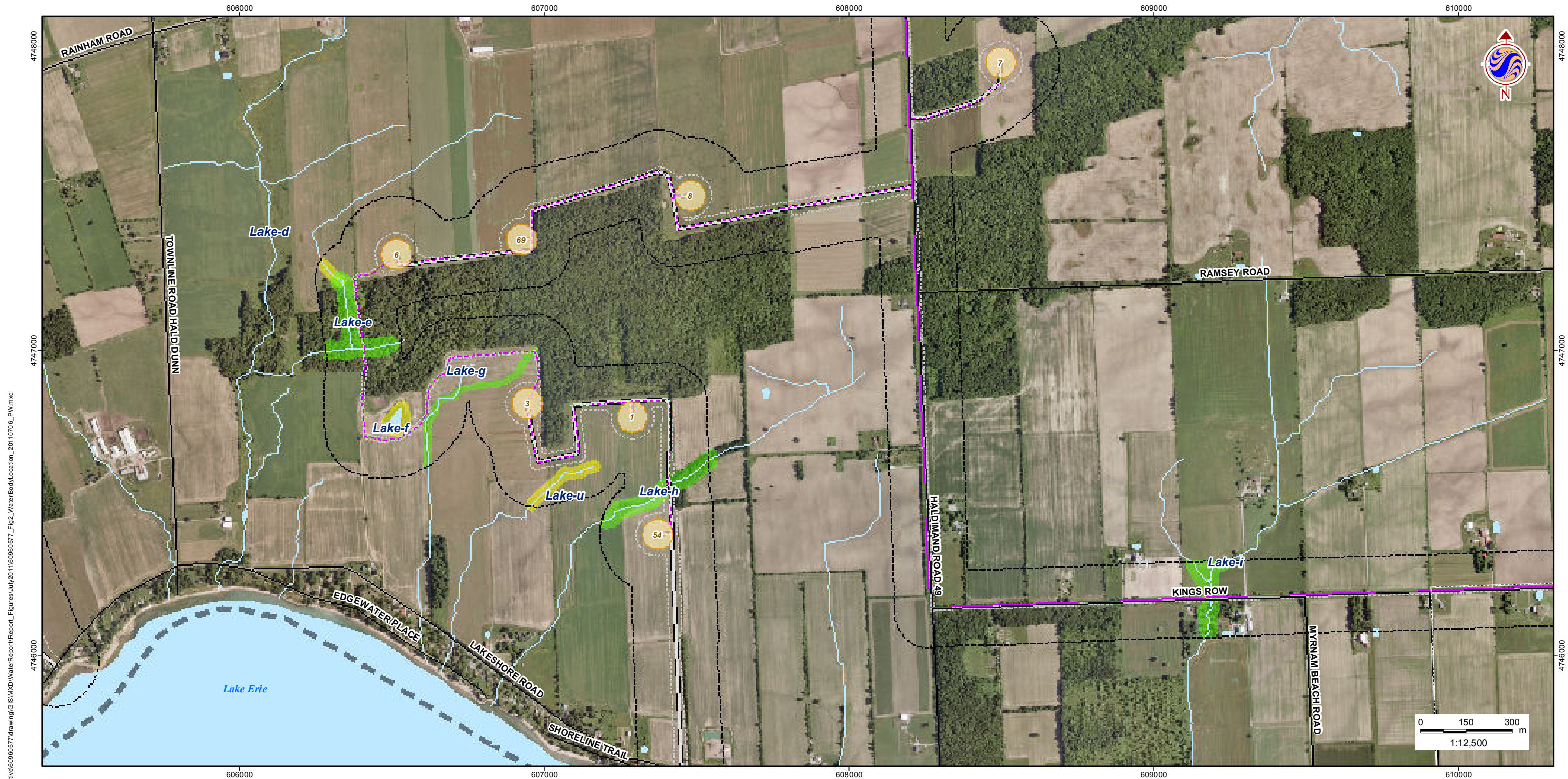
Client/Project
SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK

Figure No.
2.14

DRAFT

Title
WATER BODY LOCATIONS
Tile 14 of 20

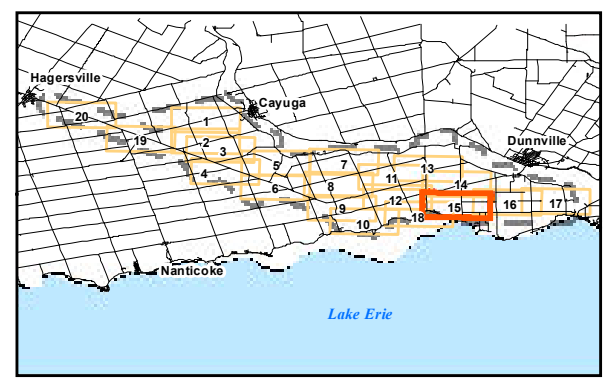
July 2011
160960577



W:\active\160960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\160960577_Fig2_WaterBodyLocation_20110706_PW.mxd



- 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 (OBM, as modified by Stantec)
 - Waterbody (OBM, as modified by Stantec)
 - Water Body Status**
 - REA Water Body
 - Non-REA Watercourse



- Notes**
- Coordinate System: UTM NAD 83 - Zone 17 (N).
 - Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
 - 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.
2.15

Title
WATER BODY LOCATIONS
Tile 15 of 20

DRAFT

July 2011
160960577



W:\active\160960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\160960577_Fig2_WaterBodyLocation_20110706_PW.mxd



Legend

- | | | | | | |
|-------------------------------|----------------------------|--------------------------|---|--|---|
| | Study Area | | Overhead Transmission Line | | REA Water Body |
| | Zone of Investigation | | Underground Transmission Line | | Non-REA Watercourse |
| | Constructable Area | | Electrical Transmission Component | | |
| Wind Project Location | | | | | |
| | Proposed Turbine Location | Existing Features | | | |
| | Access Road | | Road | | Railway |
| | Overhead Collector Line | | Abandoned Railway | | Transmission Line (MNR) |
| | Underground Collector Line | | Watercourse (OBM, as modified by Stantec) | | Waterbody (OBM, as modified by Stantec) |
| Solar Project Location | | | | | |
| | Solar Lands | | | | |



Notes

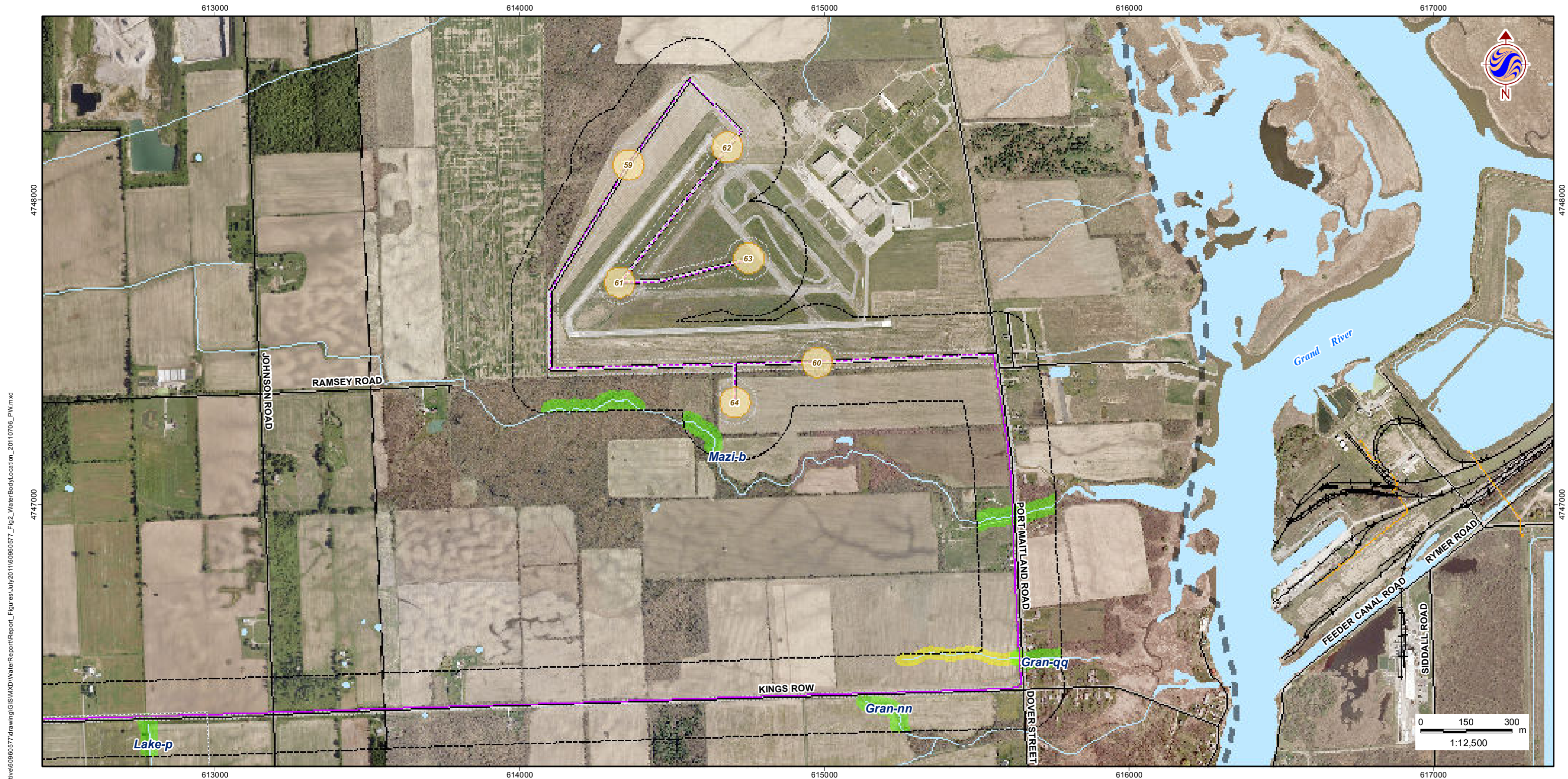
- Coordinate System: UTM NAD 83 - Zone 17 (N).
- Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
- Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

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

Figure No.
2.16

Title
**WATER BODY LOCATIONS
 Tile 16 of 20**

DRAFT



W:\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig2_WaterBodyLocation_20110706_PW.mxd

July 2011
160960577



Legend

- | | | |
|--|--|---|
| <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 (OBM, as modified by Stantec) Waterbody (OBM, as modified by Stantec) | <ul style="list-style-type: none"> Water Body Status REA Water Body Non-REA Watercourse |
|--|--|---|



Notes

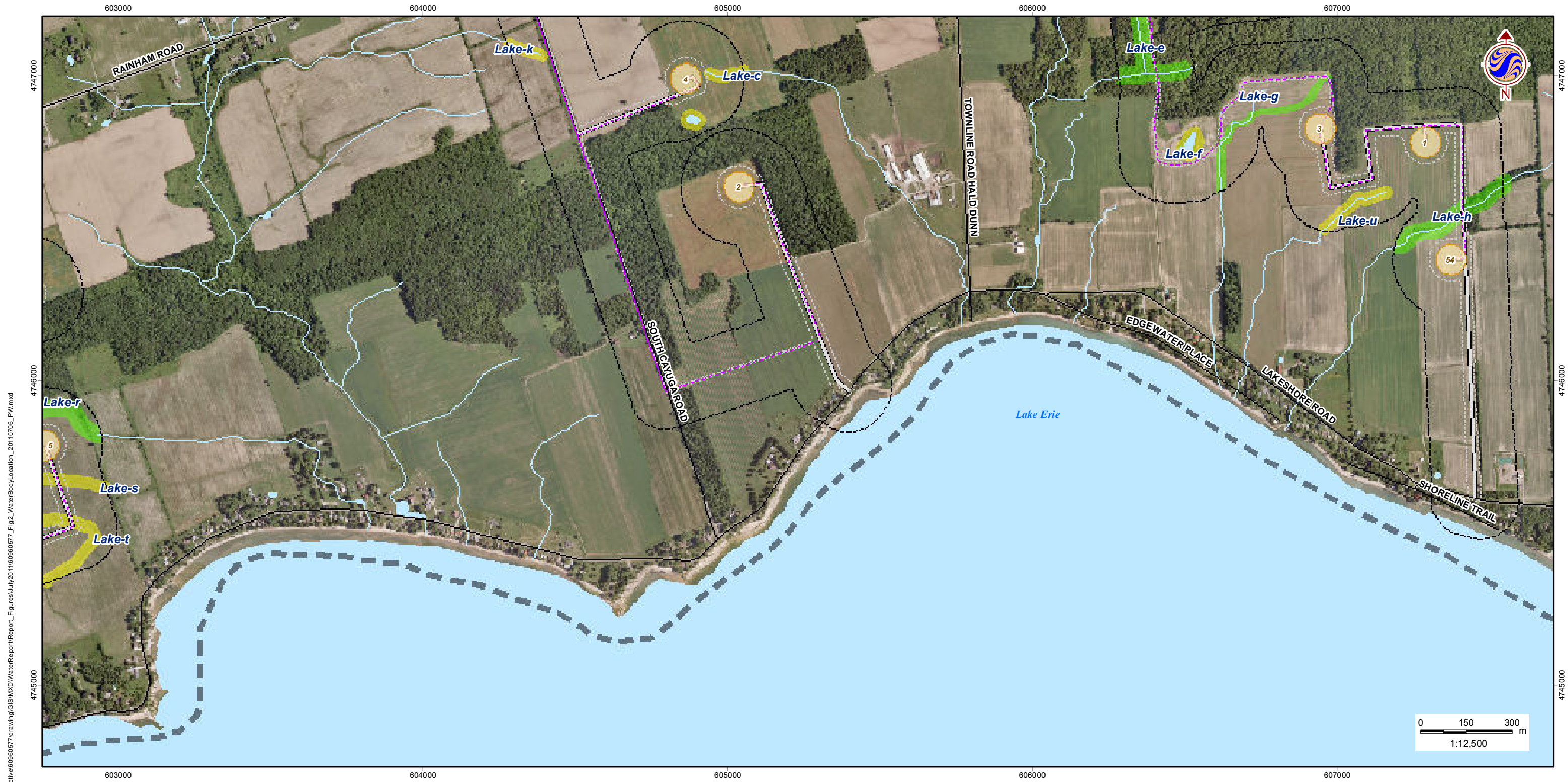
1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
3. Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

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

Figure No.
2.17

Title
WATER BODY LOCATIONS
Tile 17 of 20

DRAFT



W:\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig2_WaterBodyLocation_20110706_PW.mxd

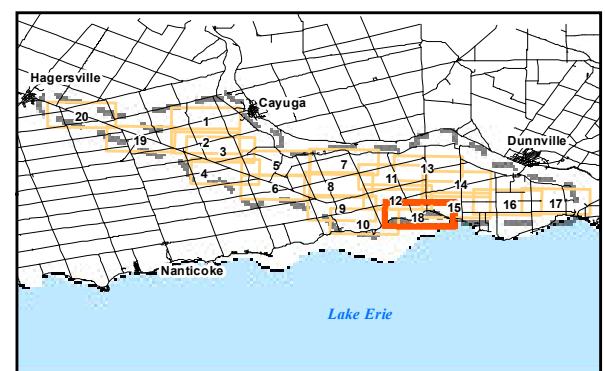
July 2011
160960577



Stantec

Legend

- | | | | | | |
|-------------------------------|----------------------------|--------------------------|---|--|---|
| | Study Area | | Overhead Transmission Line | | REA Water Body |
| | Zone of Investigation | | Underground Transmission Line | | Non-REA Watercourse |
| | Constructable Area | | Electrical Transmission Component | | |
| Wind Project Location | | | | | |
| | Proposed Turbine Location | Existing Features | | | |
| | Access Road | | Road | | Railway |
| | Overhead Collector Line | | Abandoned Railway | | Transmission Line (MNR) |
| | Underground Collector Line | | Watercourse (OBM, as modified by Stantec) | | Waterbody (OBM, as modified by Stantec) |
| Solar Project Location | | | | | |
| | Solar Lands | | | | |



Notes

- Coordinate System: UTM NAD 83 - Zone 17 (N).
- Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
- 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.
2.18

Title
**WATER BODY LOCATIONS
Tile 18 of 20**

DRAFT



W:\active\160960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\160960577_Fig2_WaterBodyLocation_20110706_PW.mxd

July 2011
160960577



Stantec

Legend

- | | | | | | |
|-------------------------------|----------------------------|--------------------------|---|--|---|
| | Study Area | | Overhead Transmission Line | | REA Water Body |
| | Zone of Investigation | | Underground Transmission Line | | Non-REA Watercourse |
| | Constructable Area | | Electrical Transmission Component | | |
| Wind Project Location | | | | | |
| | Proposed Turbine Location | Existing Features | | | |
| | Access Road | | Road | | Railway |
| | Overhead Collector Line | | Abandoned Railway | | Transmission Line (MNR) |
| | Underground Collector Line | | Watercourse (OBM, as modified by Stantec) | | Waterbody (OBM, as modified by Stantec) |
| Solar Project Location | | | | | |
| | Solar Lands | | | | |



Notes

- Coordinate System: UTM NAD 83 - Zone 17 (N).
- Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
- 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.
2.19

DRAFT

Title
**WATER BODY LOCATIONS
Tile 19 of 20**



W:\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig2_WaterBodyLocation_20110706_PW.mxd



Legend

- | | | | | | |
|-------------------------------|----------------------------|--------------------------|---|--|---|
| | Study Area | | Overhead Transmission Line | | RE A Water Body |
| | Zone of Investigation | | Underground Transmission Line | | Non-REA Watercourse |
| | Constructable Area | | Electrical Transmission Component | | |
| Wind Project Location | | | | | |
| | Proposed Turbine Location | Existing Features | | | |
| | Access Road | | Road | | Railway |
| | Overhead Collector Line | | Abandoned Railway | | Transmission Line (MNR) |
| | Underground Collector Line | | Watercourse (OBM, as modified by Stantec) | | Waterbody (OBM, as modified by Stantec) |
| Solar Project Location | | | | | |
| | Solar Lands | | | | |



Notes

1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
3. Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

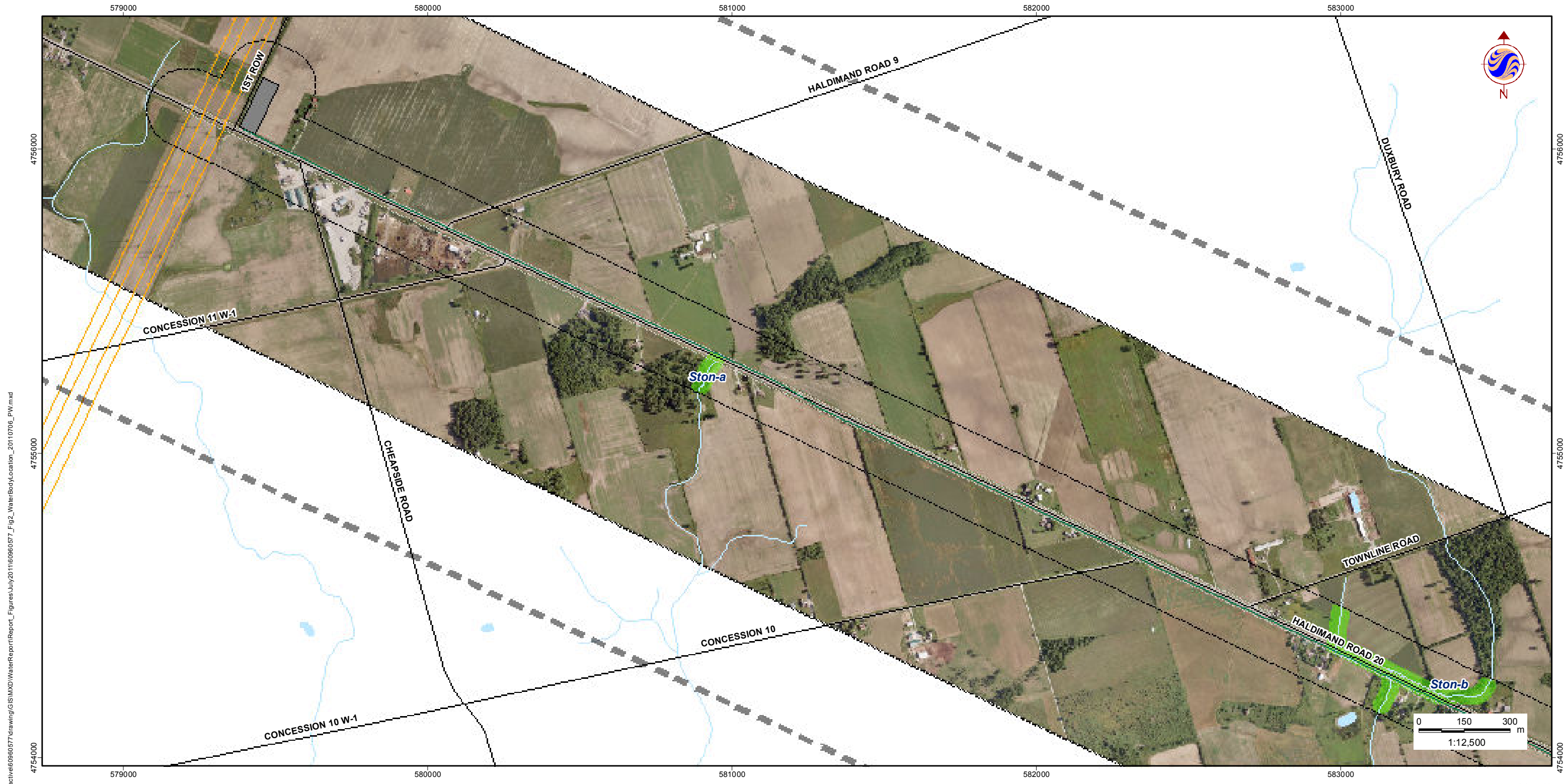
Client/Project
SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK

Figure No.
2.2

DRAFT

Title
WATER BODY LOCATIONS
Tile 2 of 20

July 2011
160960577



W:\active\160960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\160960577_Fig2_WaterBodyLocation_20110706_PW.mxd

July 2011
160960577



Stantec

Legend

- | | | | | | |
|-------------------------------|----------------------------|--------------------------|---|--|---|
| | Study Area | | Overhead Transmission Line | | REA Water Body |
| | Zone of Investigation | | Underground Transmission Line | | Non-REA Watercourse |
| | Constructable Area | | Electrical Transmission Component | | |
| Wind Project Location | | | | | |
| | Proposed Turbine Location | Existing Features | | | |
| | Access Road | | Road | | Railway |
| | Overhead Collector Line | | Abandoned Railway | | Transmission Line (MNR) |
| | Underground Collector Line | | Watercourse (OBM, as modified by Stantec) | | Waterbody (OBM, as modified by Stantec) |
| Solar Project Location | | | | | |
| | Solar Lands | | | | |



Notes

1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
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 & KEPKO (SPK)
GRAND RENEWABLE ENERGY PARK**

Figure No.
2.20

DRAFT

Title
**WATER BODY LOCATIONS
Tile 20 of 20**

W:\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig2_WaterBodyLocation_20110706_PW.mxd

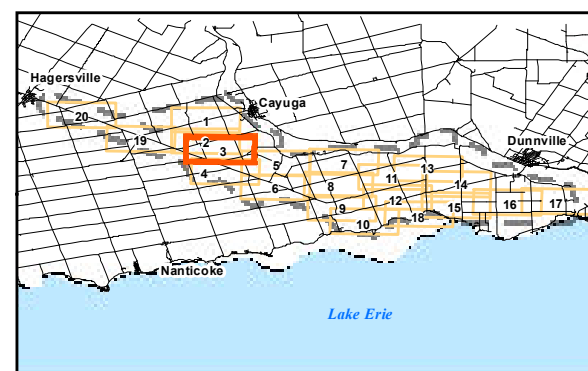


Legend

- 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 (OBM, as modified by Stantec)
- Waterbody (OBM, as modified by Stantec)

- Water Body Status**
- REA Water Body
- Non-REA Watercourse



Notes

1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
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.
 2.3 **DRAFT**

Title
WATER BODY LOCATIONS
 Tile 3 of 20



W:\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig_2_WaterBodyLocation_20110706_P1W.mxd

July 2011
160960577



Stantec

Legend

- | | | | | | |
|-------------------------------|----------------------------|--------------------------|---|--|---|
| | Study Area | | Overhead Transmission Line | | RE-A Water Body |
| | Zone of Investigation | | Underground Transmission Line | | Non-RE-A Watercourse |
| | Constructable Area | | Electrical Transmission Component | | |
| Wind Project Location | | | | | |
| | Proposed Turbine Location | Existing Features | | | |
| | Access Road | | Road | | Railway |
| | Overhead Collector Line | | Abandoned Railway | | Transmission Line (MNR) |
| | Underground Collector Line | | Watercourse (OBM, as modified by Stantec) | | Waterbody (OBM, as modified by Stantec) |
| Solar Project Location | | | | | |
| | Solar Lands | | | | |



Notes

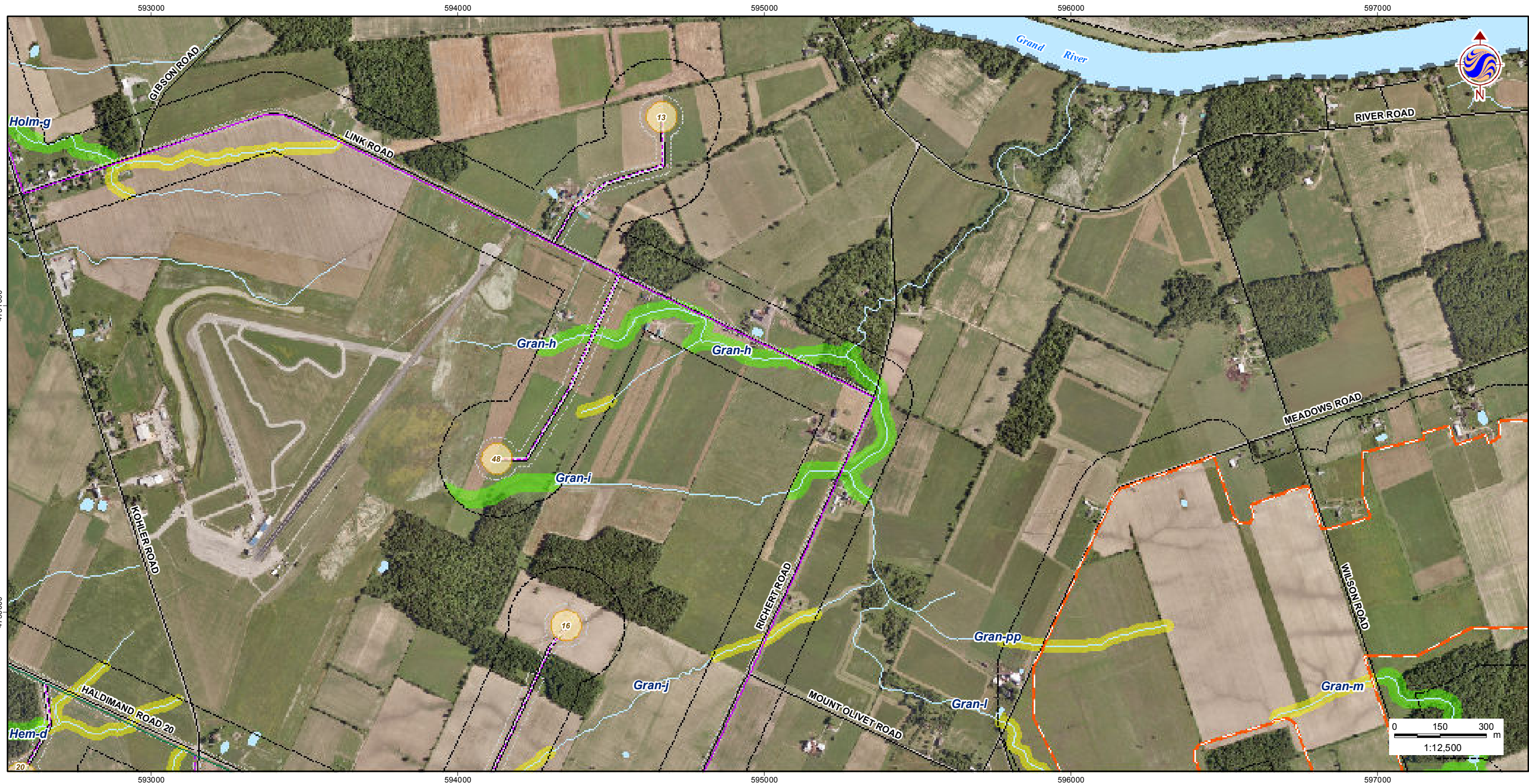
- Coordinate System: UTM NAD 83 - Zone 17 (N).
- Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
- Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

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

Figure No.
2.4

DRAFT

Title
WATER BODY LOCATIONS
Tile 4 of 20



W:\active\160960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\160960577_Fig2_WaterBodyLocation_20110706_PW.mxd

July 2011
160960577



Stantec

Legend

- | | | | | | |
|-------------------------------|----------------------------|--------------------------|---|--|---|
| | Study Area | | Overhead Transmission Line | | REA Water Body |
| | Zone of Investigation | | Underground Transmission Line | | Non-REA Watercourse |
| | Constructable Area | | Electrical Transmission Component | | |
| Wind Project Location | | | | | |
| | Proposed Turbine Location | Existing Features | | | |
| | Access Road | | Road | | Railway |
| | Overhead Collector Line | | Abandoned Railway | | Transmission Line (MNR) |
| | Underground Collector Line | | Watercourse (OBM, as modified by Stantec) | | Waterbody (OBM, as modified by Stantec) |
| Solar Project Location | | | | | |
| | Solar Lands | | | | |



Notes

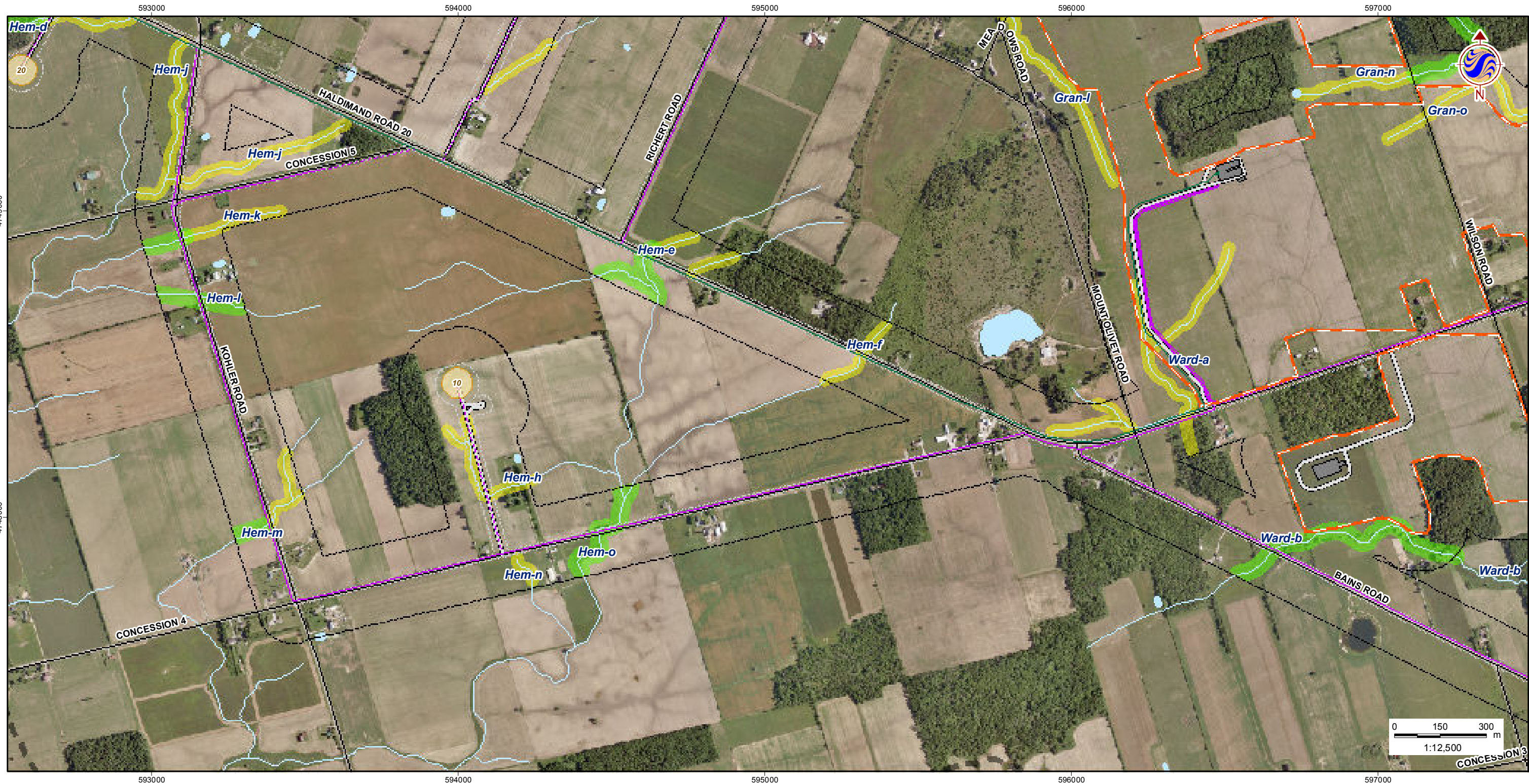
- Coordinate System: UTM NAD 83 - Zone 17 (N).
- Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
- Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

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

Figure No.
2.5

DRAFT

Title
**WATER BODY LOCATIONS
Tile 5 of 20**



W:\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig2_WaterBodyLocation_20110706_PW.mxd

July 2011
160960577



Stantec

Legend

- | | | |
|--|--|---|
| <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 (OBM, as modified by Stantec) Waterbody (OBM, as modified by Stantec) | <ul style="list-style-type: none"> Water Body Status REA Water Body Non-REA Watercourse |
|--|--|---|



Notes

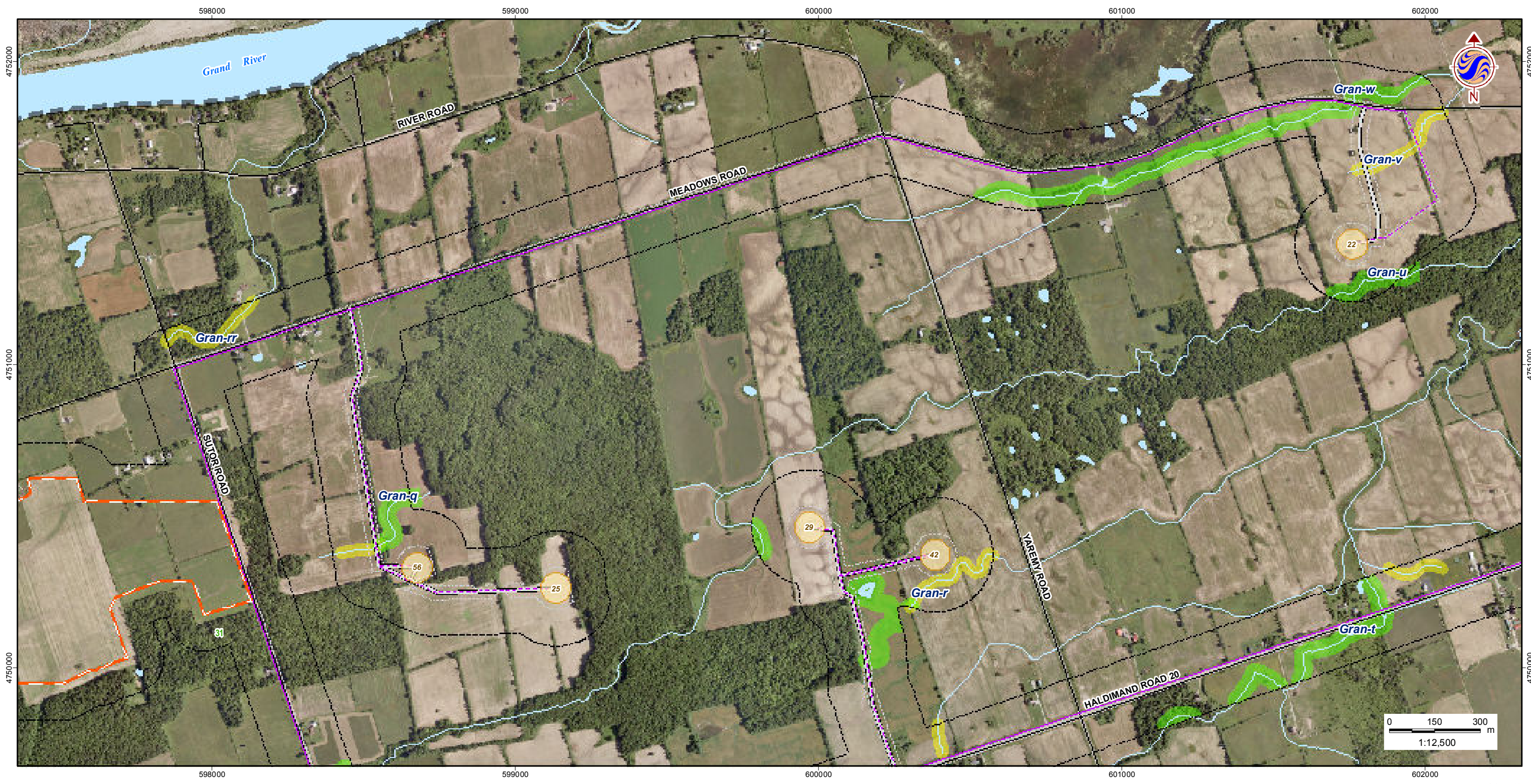
1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
3. Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

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

Figure No.
2.6

DRAFT

Title
**WATER BODY LOCATIONS
Tile 6 of 20**



W:\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig2_WaterBodyLocation_20110706_P1W.mxd



Legend

- | | | | | | |
|-------------------------------|----------------------------|--------------------------|---|--|---|
| | Study Area | | Overhead Transmission Line | | REA Water Body |
| | Zone of Investigation | | Underground Transmission Line | | Non-REA Watercourse |
| | Constructable Area | | Electrical Transmission Component | | |
| Wind Project Location | | | | | |
| | Proposed Turbine Location | Existing Features | | | |
| | Access Road | | Road | | Abandoned Railway |
| | Overhead Collector Line | | Transmission Line (MNR) | | Watercourse (OBM, as modified by Stantec) |
| | Underground Collector Line | | Waterbody (OBM, as modified by Stantec) | | |
| Solar Project Location | | | | | |
| | Solar Lands | | | | |



Notes

- Coordinate System: UTM NAD 83 - Zone 17 (N).
- Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
- Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

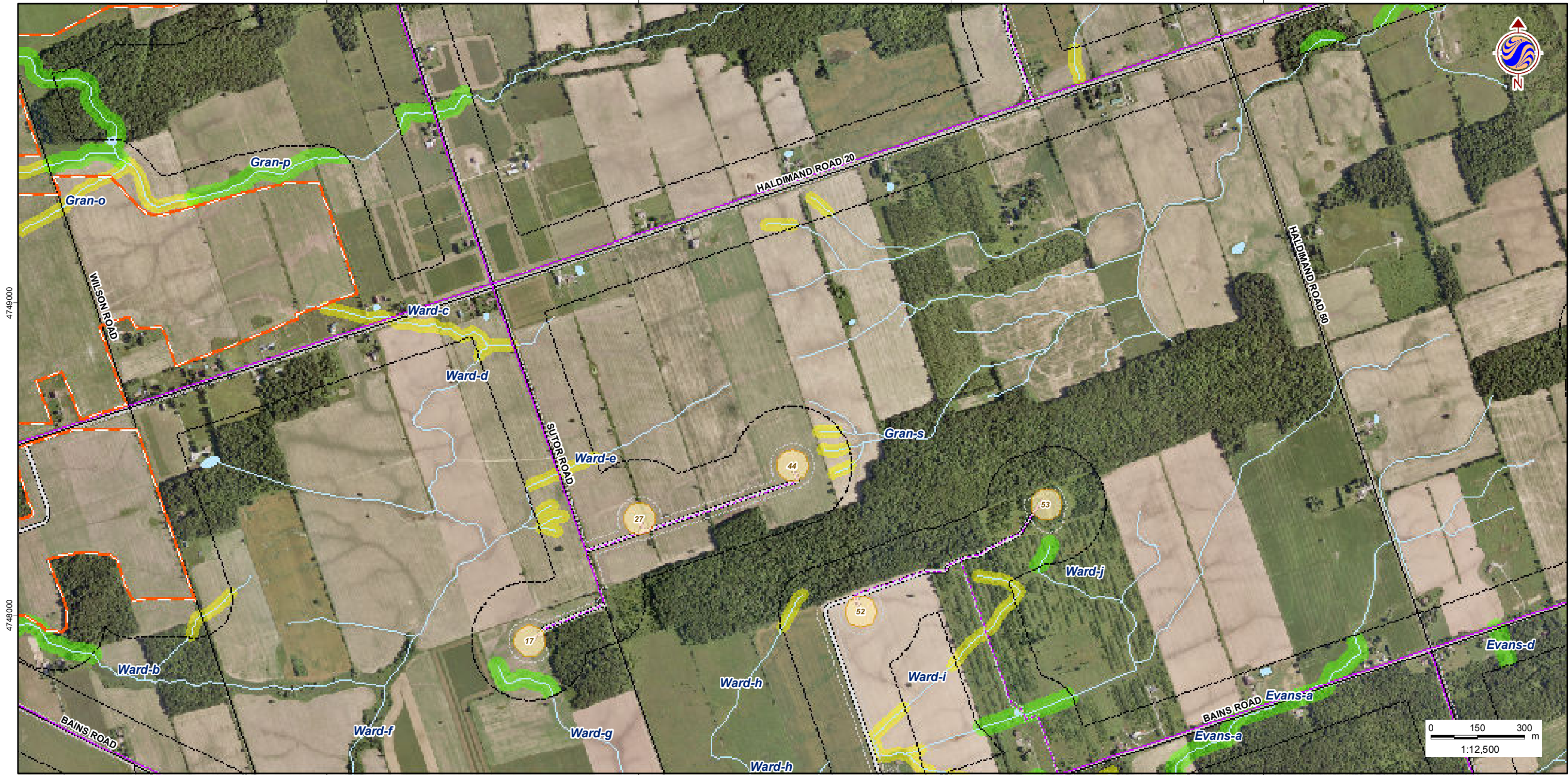
Client/Project
SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK

Figure No.
2.7

DRAFT

Title
WATER BODY LOCATIONS
Tile 7 of 20

July 2011
160960577



W:\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig2_WaterBodyLocation_20110706_P1W.mxd



Legend

- | | | |
|--|--|---|
| <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 (OBM, as modified by Stantec) Waterbody (OBM, as modified by Stantec) | <ul style="list-style-type: none"> Water Body Status REA Water Body Non-REA Watercourse |
|--|--|---|



Notes

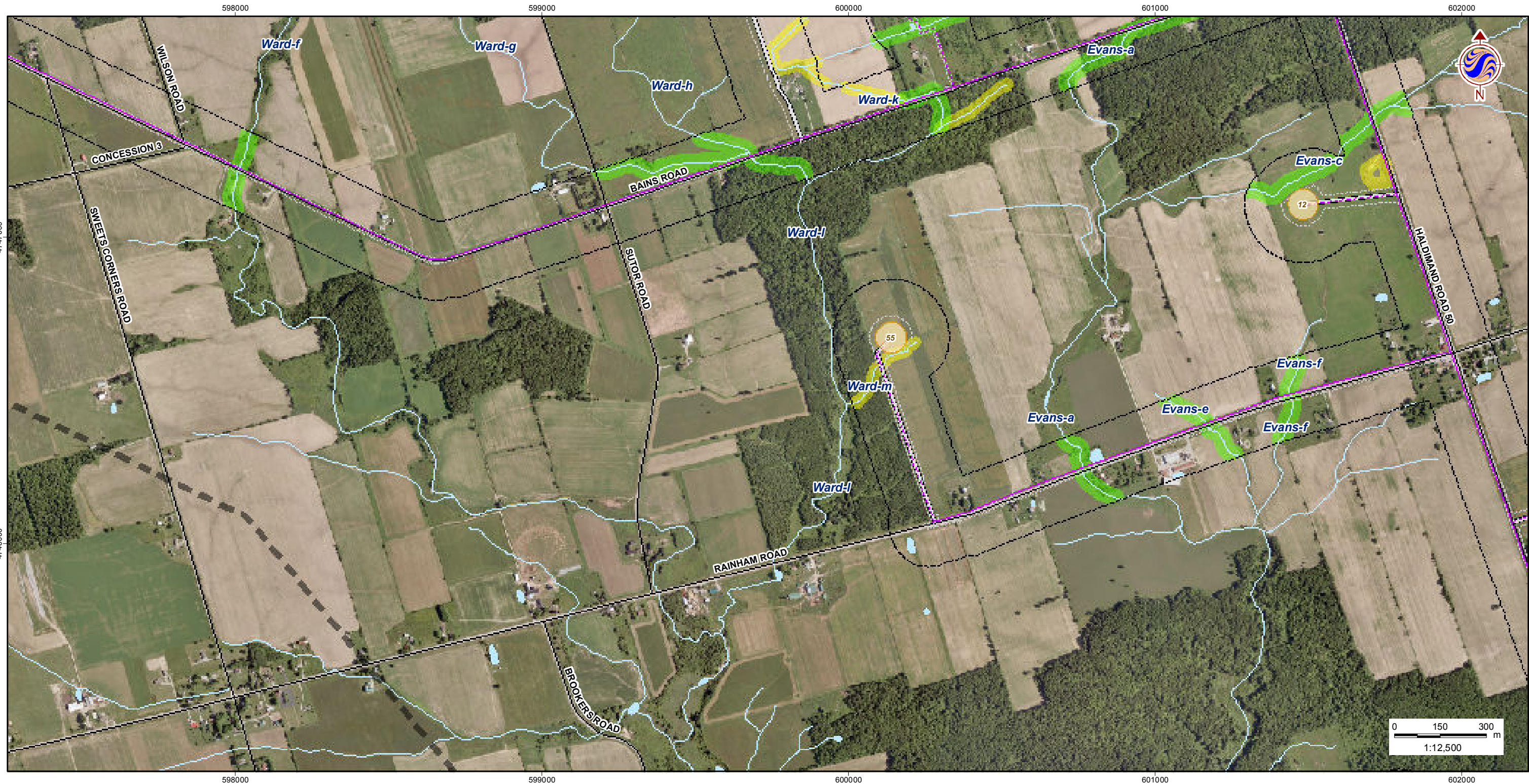
1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
3. Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

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

Figure No.
2.8

DRAFT

Title
WATER BODY LOCATIONS
Tile 8 of 20



W:\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig2_WaterBodyLocation_20110706_PW.mxd

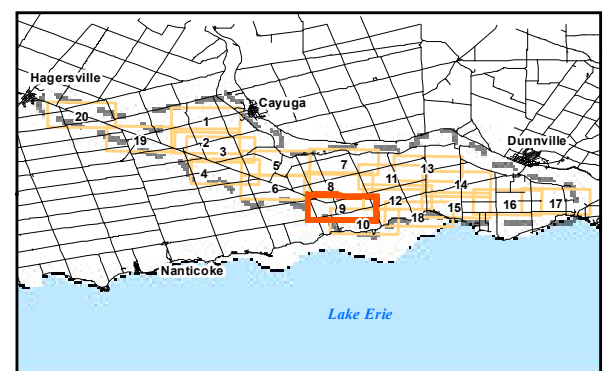
July 2011
160960577



Stantec

Legend

- | | | | | | |
|-------------------------------|----------------------------|--------------------------|---|--|---|
| | Study Area | | Overhead Transmission Line | | RE Water Body |
| | Zone of Investigation | | Underground Transmission Line | | Non-REA Watercourse |
| | Constructable Area | | Electrical Transmission Component | | |
| Wind Project Location | | | | | |
| | Proposed Turbine Location | Existing Features | | | |
| | Access Road | | Road | | Railway |
| | Overhead Collector Line | | Abandoned Railway | | Transmission Line (MNR) |
| | Underground Collector Line | | Watercourse (OBM, as modified by Stantec) | | Waterbody (OBM, as modified by Stantec) |
| Solar Project Location | | | | | |
| | Solar Lands | | | | |



Notes

- Coordinate System: UTM NAD 83 - Zone 17 (N).
- Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
- 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.
2.9

DRAFT

Title
**WATER BODY LOCATIONS
Tile 9 of 20**



I:\cd1220-02\01609\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig3_FishHabitat_20110706_PW.mxd

July 2011
160960577



Stantec

Legend

- | | | |
|--|--|--|
| <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 (OBM, as Modified by Stantec) Waterbody (OBM, as Modified by Stantec) | <ul style="list-style-type: none"> Fish Habitat Indirectly Contributes to Fish Habitat |
|--|--|--|



Notes

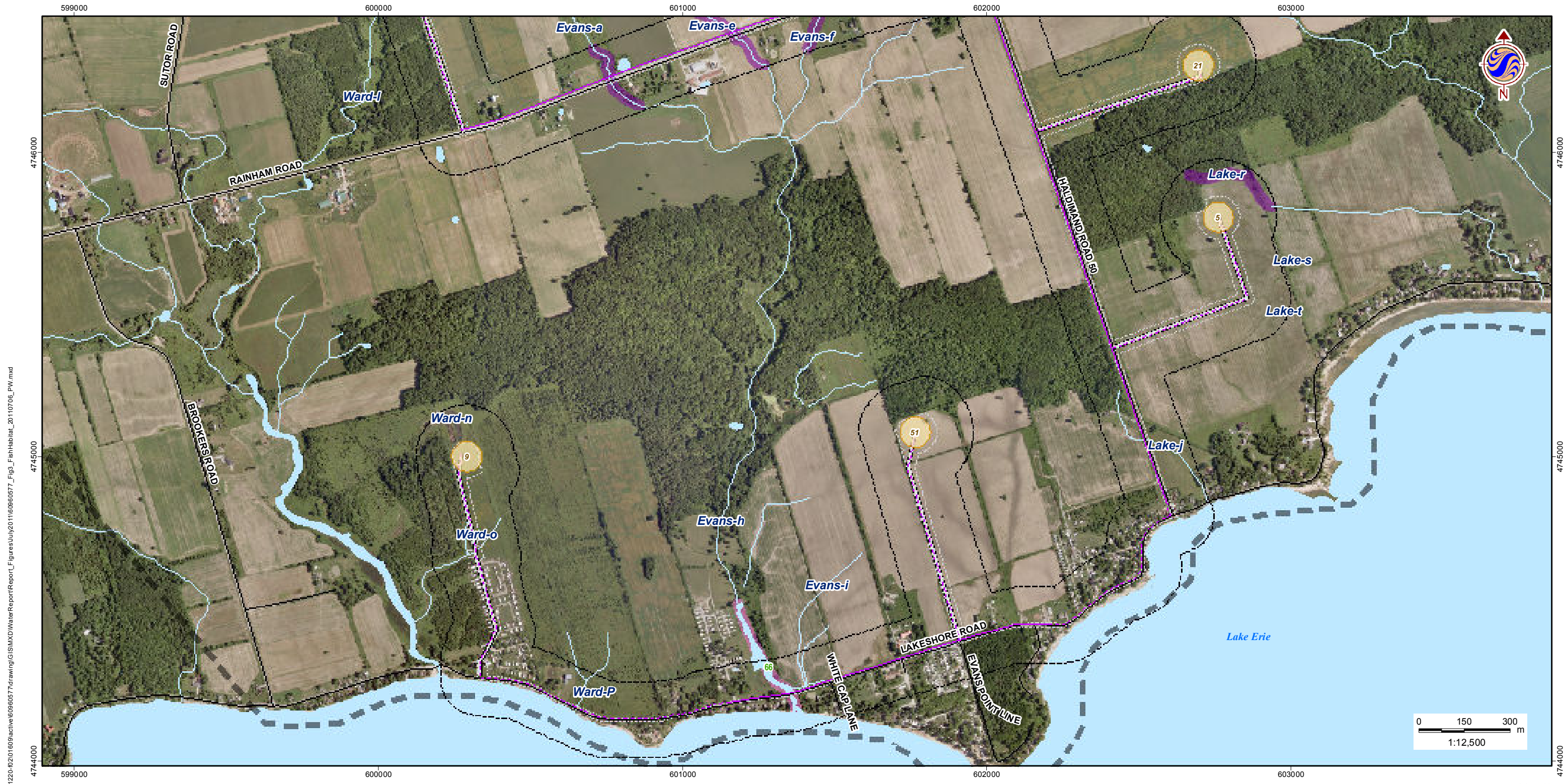
1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
3. Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

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

Figure No.
3.1

DRAFT

Title
**FISHERIES HABITAT
Tile 1 of 20**



I:\cd1220-02\201609\active\60960577\drawing\GIS\MXD\WaterReport\Figures\July2011\60960577_Fig3_FishHabitat_20110706_PW.mxd



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 (OBM, as Modified by Stantec)
- Waterbody (OBM, as Modified by Stantec)
- Fish Habitat
- Indirectly Contributes to Fish Habitat



Notes

1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
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.
3.10

Title
FISHERIES HABITAT
Tile 10 of 20

DRAFT

July 2011
 160960577



I:\cd1220-02\01609\active\60960577\drawing\GIS\MXD\WaterReport\Figures\July2011\60960577_Fig3_FishHabitat_20110706_PW.mxd

July 2011
160960577



Legend

- | | | |
|--|--|--|
| <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 (OBM, as Modified by Stantec) Waterbody (OBM, as Modified by Stantec) | <ul style="list-style-type: none"> Fish Habitat Indirectly Contributes to Fish Habitat |
|--|--|--|



Notes

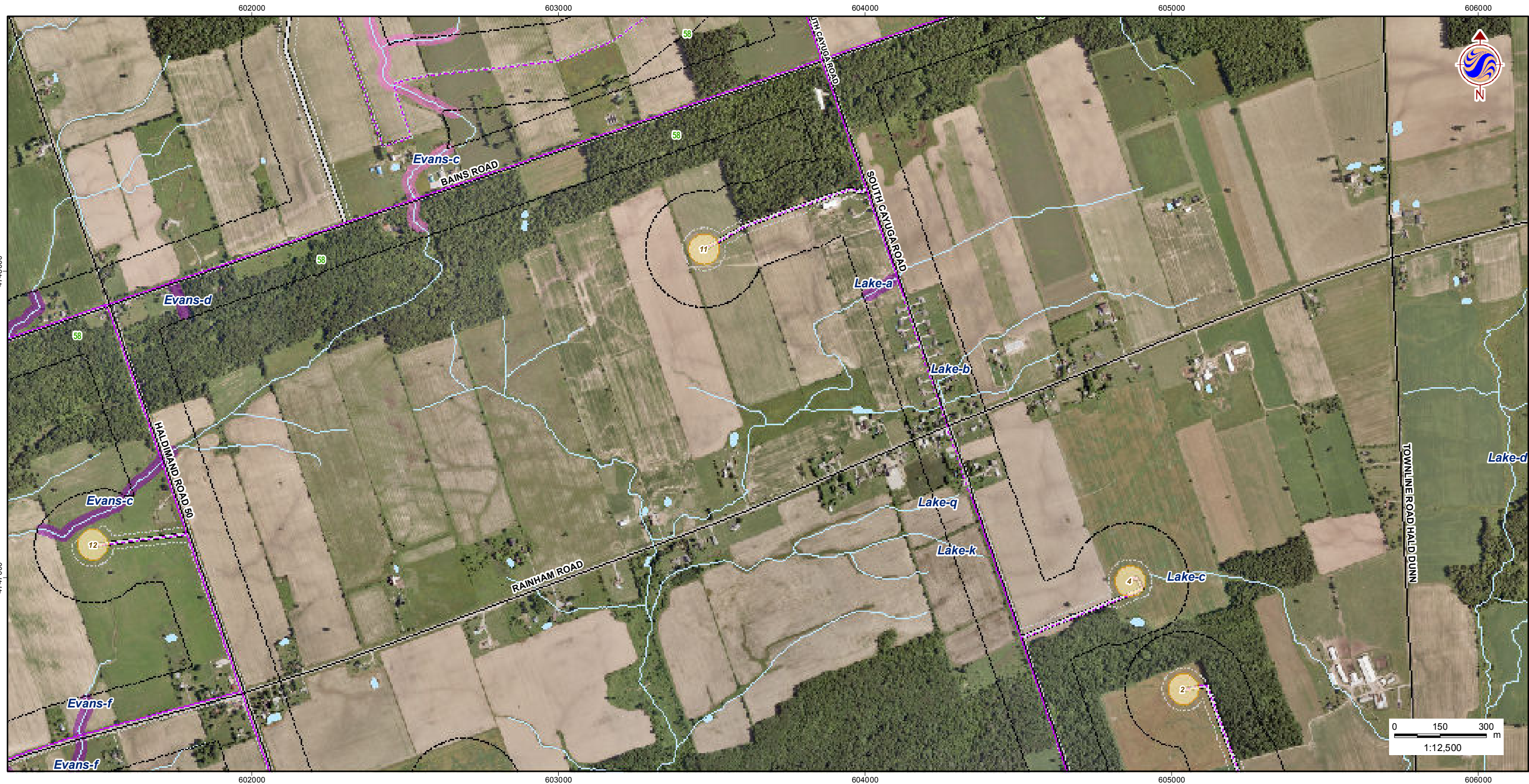
1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
3. Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

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

Figure No.
3.11

DRAFT

Title
FISHERIES HABITAT
Tile 11 of 20



K:\1220-0201-609\active\60960577\drawing\GIS\MXD\WaterReport\Figures\July2011\60960577_Fig3_FishHabitat_20110706_PW.mxd



Legend

- | | | |
|--|--|--|
| <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 (OBM, as Modified by Stantec) Waterbody (OBM, as Modified by Stantec) | <ul style="list-style-type: none"> Fish Habitat Indirectly Contributes to Fish Habitat |
|--|--|--|



Notes

1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
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.
3.12 **DRAFT**

Title
FISHERIES HABITAT
Tile 12 of 20

July 2011
160960577



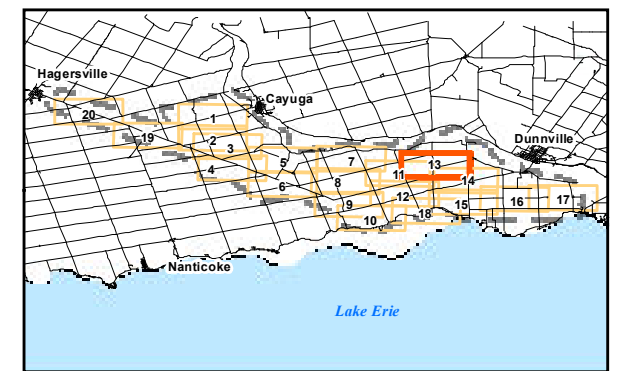
I:\cd1220-02\01609\active\60960577\drawing\GIS\MXD\WaterReport\Figures\July2011\60960577_Fig3_FishHabitat_20110706_PW.mxd

July 2011
160960577



Legend

- | | | |
|--|--|--|
| <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 (OBM, as Modified by Stantec) Waterbody (OBM, as Modified by Stantec) | <ul style="list-style-type: none"> Fish Habitat Indirectly Contributes to Fish Habitat |
|--|--|--|



Notes

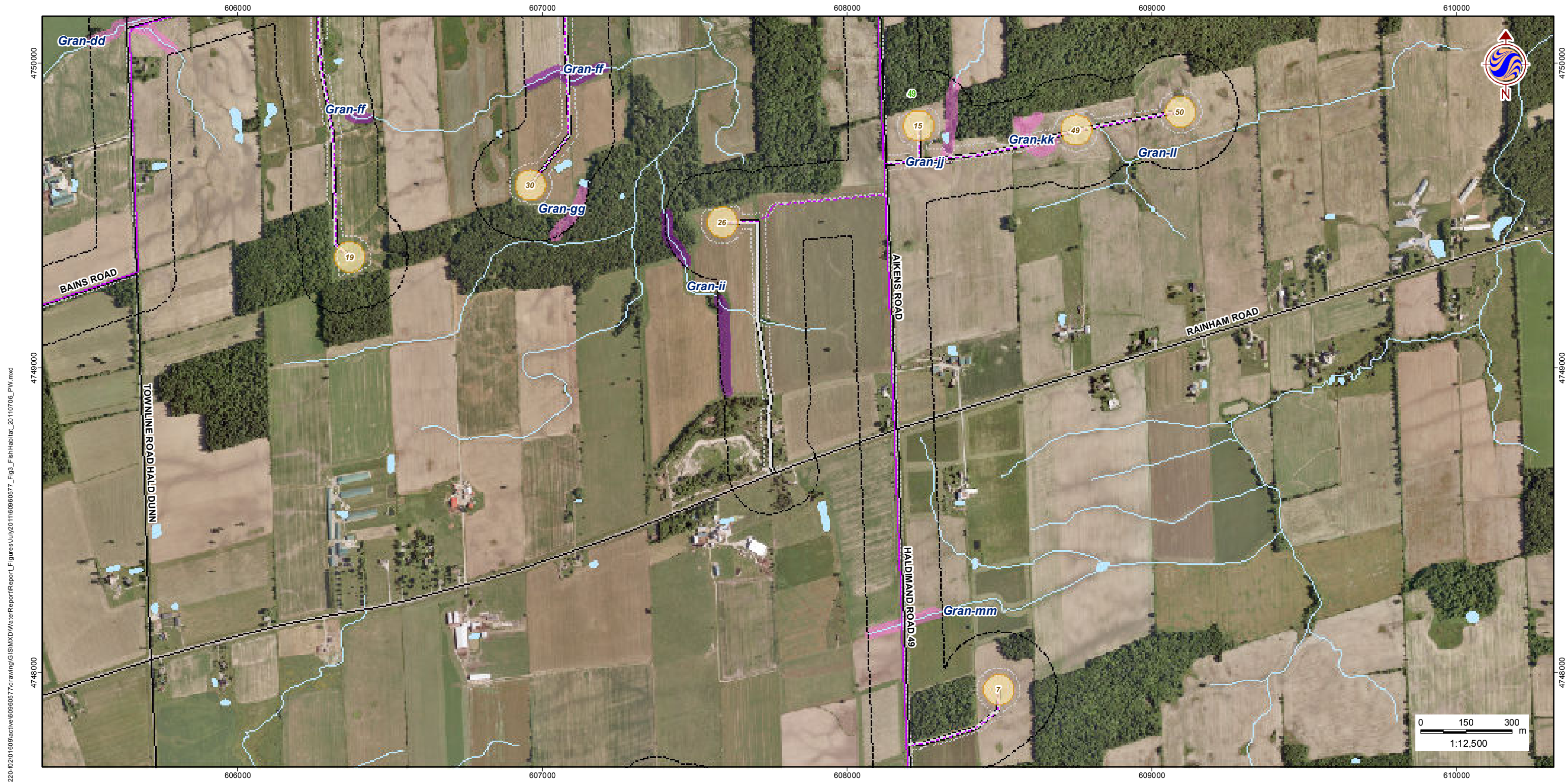
1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
3. Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

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

Figure No.
3.13

DRAFT

Title
FISHERIES HABITAT
Tile 13 of 20



K:\d1220-02\01609\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig3_FishHabitat_20110706_PW.mxd

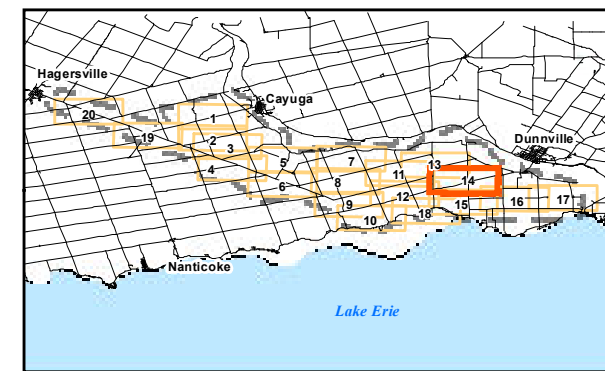
July 2011
160960577



Stantec

Legend

- | | | |
|--|--|--|
| <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 (OBM, as Modified by Stantec) Waterbody (OBM, as Modified by Stantec) | <ul style="list-style-type: none"> Fish Habitat Indirectly Contributes to Fish Habitat |
|--|--|--|



Notes

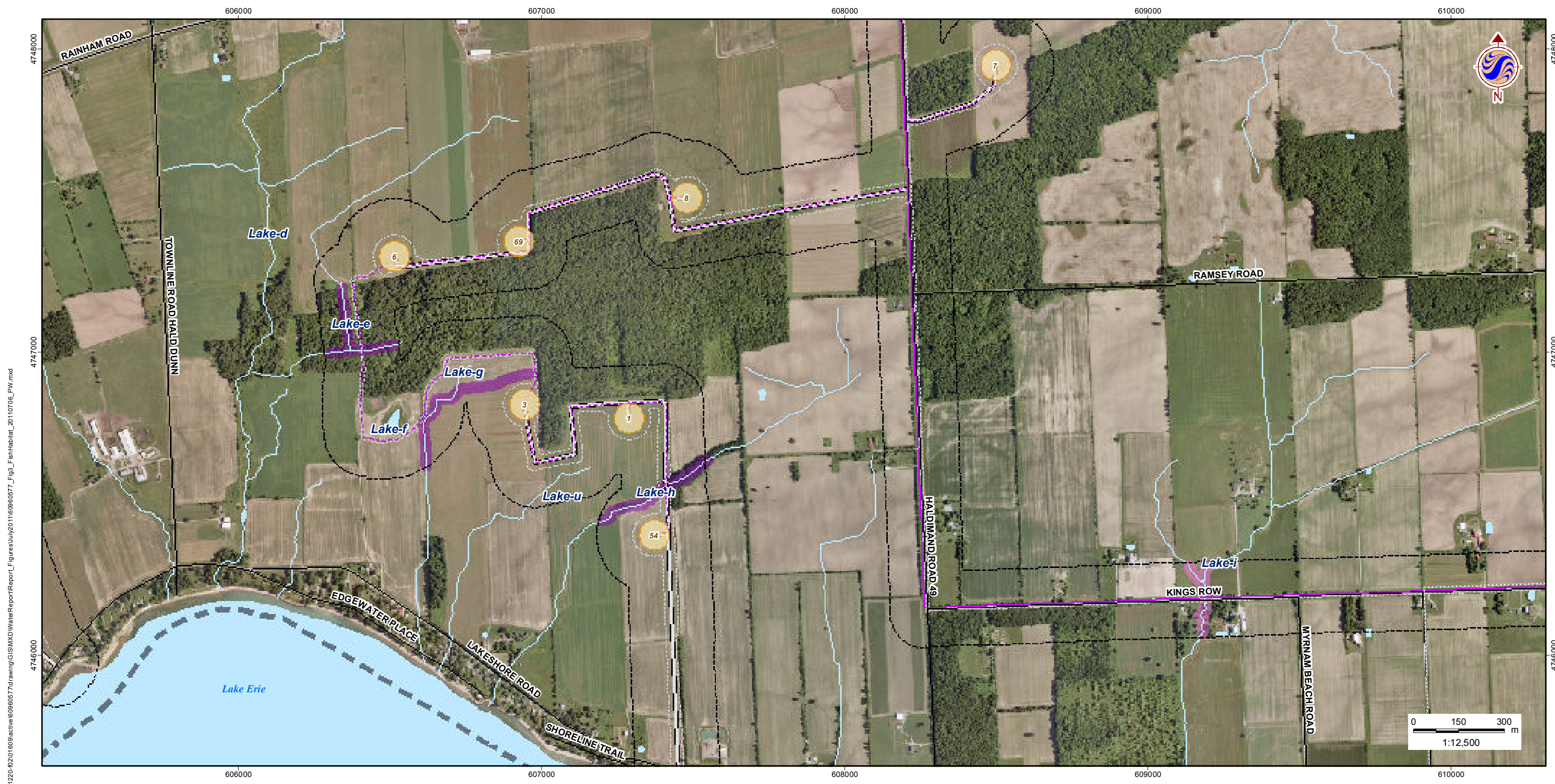
1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
3. Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

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

Figure No.
3.14

DRAFT

Title
**FISHERIES HABITAT
Tile 14 of 20**

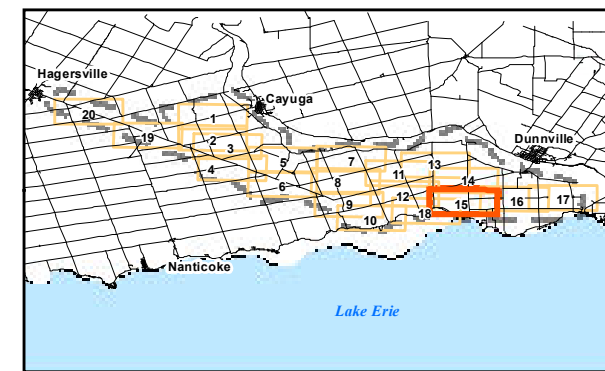


I:\cd1220-02\201609\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig3_FishHabitat_20110706_PW.mxd



Legend

- | | | |
|--|--|--|
| <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 (OBM, as Modified by Stantec) Waterbody (OBM, as Modified by Stantec) | <ul style="list-style-type: none"> Fish Habitat Indirectly Contributes to Fish Habitat |
|--|--|--|



Notes

1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
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.
3.15

DRAFT

Title
**FISHERIES HABITAT
 Tile 15 of 20**

July 2011
 160960577



I:\cd1220-02\201609\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig3_FishHabitat_20110706_PW.mxd

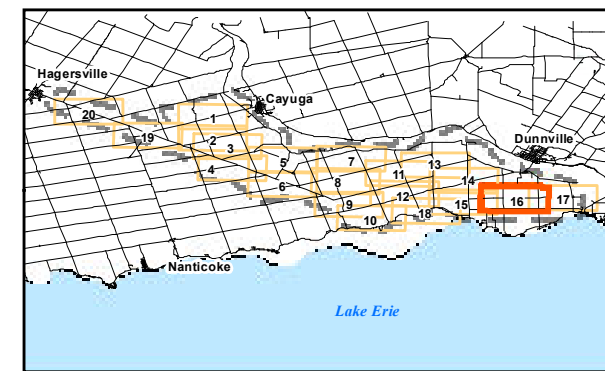
July 2011
160960577



Stantec

Legend

- | | | |
|--|--|--|
| <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 (OBM, as Modified by Stantec) Waterbody (OBM, as Modified by Stantec) | <ul style="list-style-type: none"> Fish Habitat Indirectly Contributes to Fish Habitat |
|--|--|--|



Notes

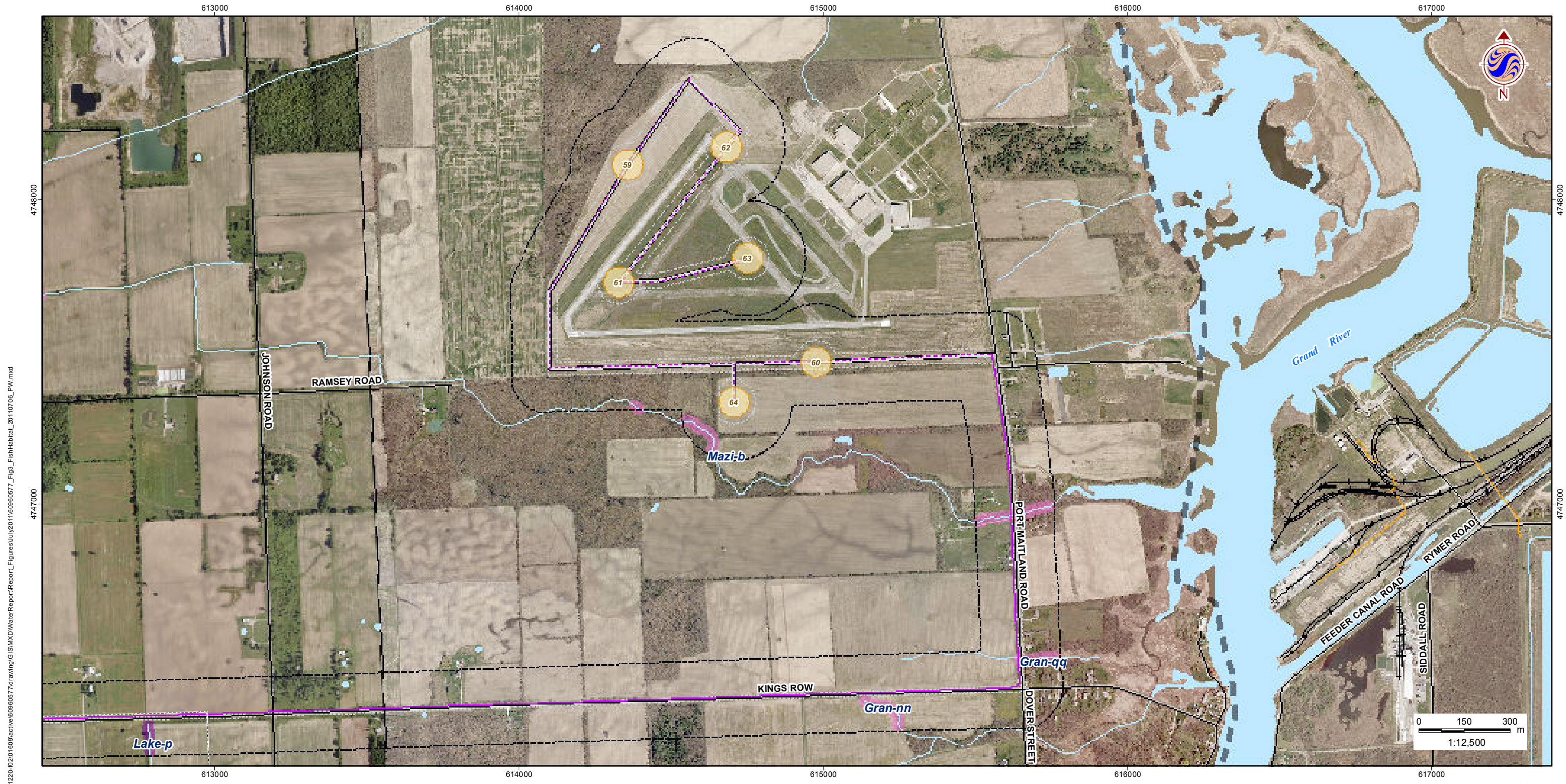
1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
3. Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

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

Figure No.
3.16

Title
**FISHERIES HABITAT
Tile 16 of 20**

DRAFT

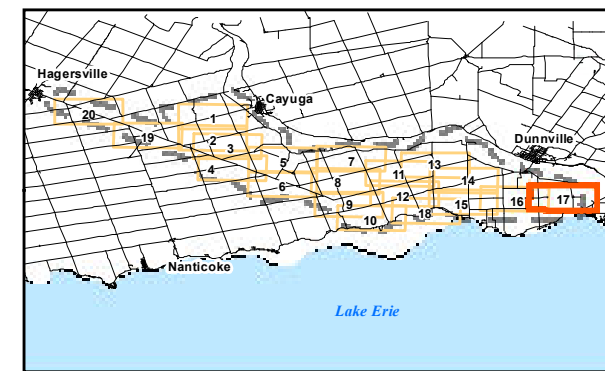


I:\cd1220-02\01609\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig3_FishHabitat_20110706_PW.mxd



Legend

- | | | |
|--|--|--|
| <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 (OBM, as Modified by Stantec) Waterbody (OBM, as Modified by Stantec) | <ul style="list-style-type: none"> Fish Habitat Indirectly Contributes to Fish Habitat |
|--|--|--|



Notes

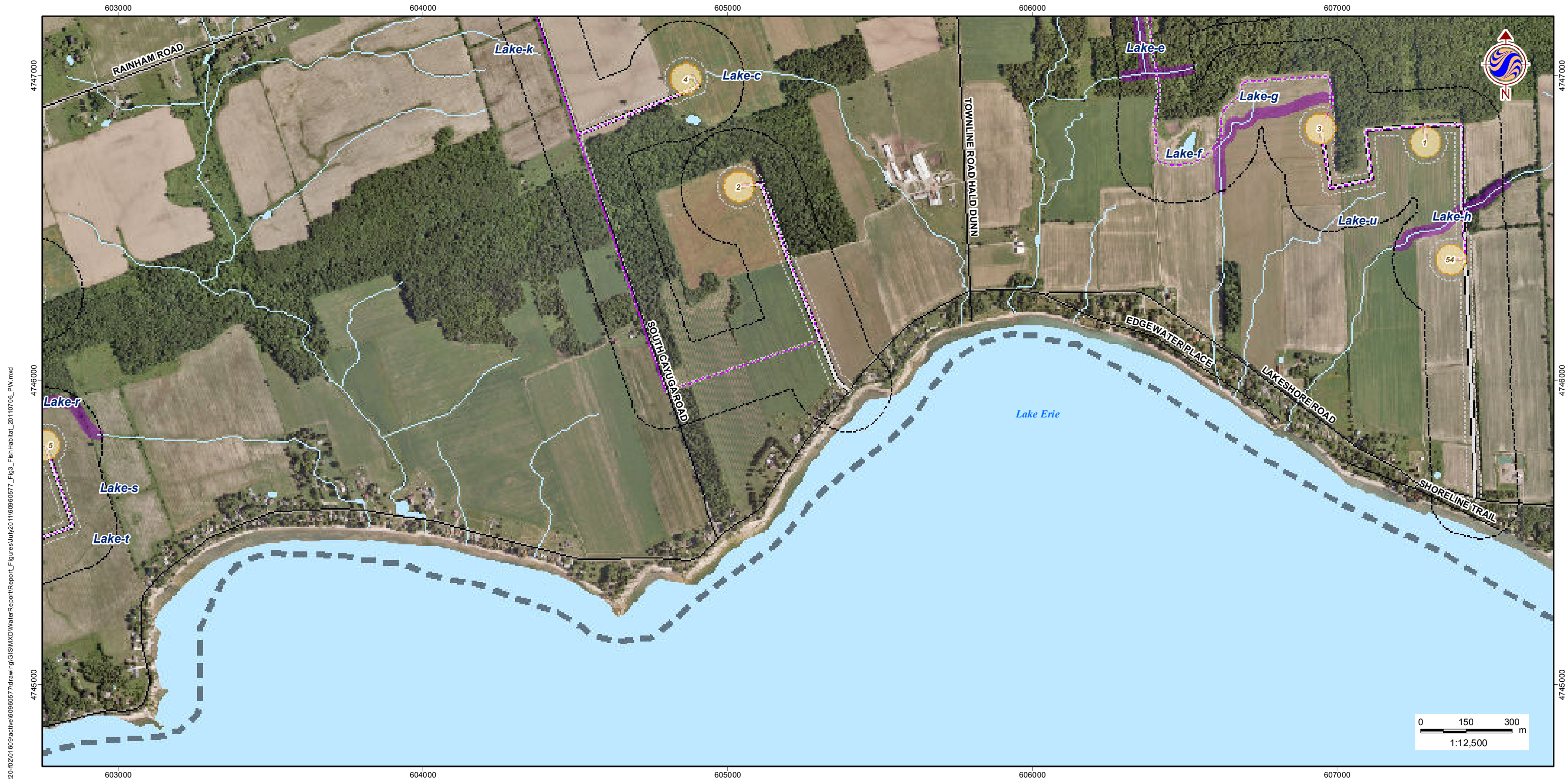
1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
3. Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

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

Figure No.
3.17

Title
FISHERIES HABITAT
Tile 17 of 20

DRAFT



I:\cd1220-02\01609\active\60960577\drawing\GIS\MXD\WaterReport\Figures\July2011\60960577_Fig3_FishHabitat_20110706_P1W.mxd

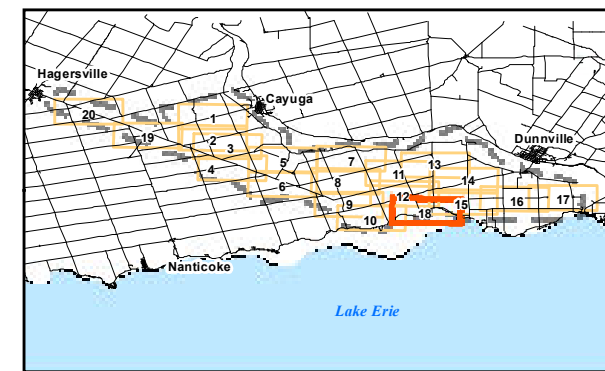
July 2011
160960577



Stantec

Legend

- | | | | | | |
|-------------------------------|----------------------------|--------------------------|---|--|--|
| | Study Area | | Overhead Transmission Line | | Fish Habitat |
| | Zone of Investigation | | Underground Transmission Line | | Indirectly Contributes to Fish Habitat |
| | Constructable Area | | Electrical Transmission Component | | |
| Wind Project Location | | | | | |
| | Proposed Turbine Location | Existing Features | | | |
| | Access Road | | Road | | |
| | Overhead Collector Line | | Railway | | |
| | Underground Collector Line | | Abandoned Railway | | |
| Solar Project Location | | | | | |
| | Solar Lands | | Transmission Line (MNR) | | |
| | | | Watercourse (OBM, as Modified by Stantec) | | |
| | | | Waterbody (OBM, as Modified by Stantec) | | |



Notes

- Coordinate System: UTM NAD 83 - Zone 17 (N).
- Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
- 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.
3.18

Title
**FISHERIES HABITAT
Tile 18 of 20**

DRAFT



I:\cd1220-02\201609\active\60960577\drawing\GIS\MXD\WaterReport\Figures\July2011\60960577_Fig3_FishHabitat_20110706_PW.mxd

July 2011
160960577



Legend

- | | | |
|--|--|--|
| <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 (OBM, as Modified by Stantec) Waterbody (OBM, as Modified by Stantec) | <ul style="list-style-type: none"> Fish Habitat Indirectly Contributes to Fish Habitat |
|--|--|--|



Notes

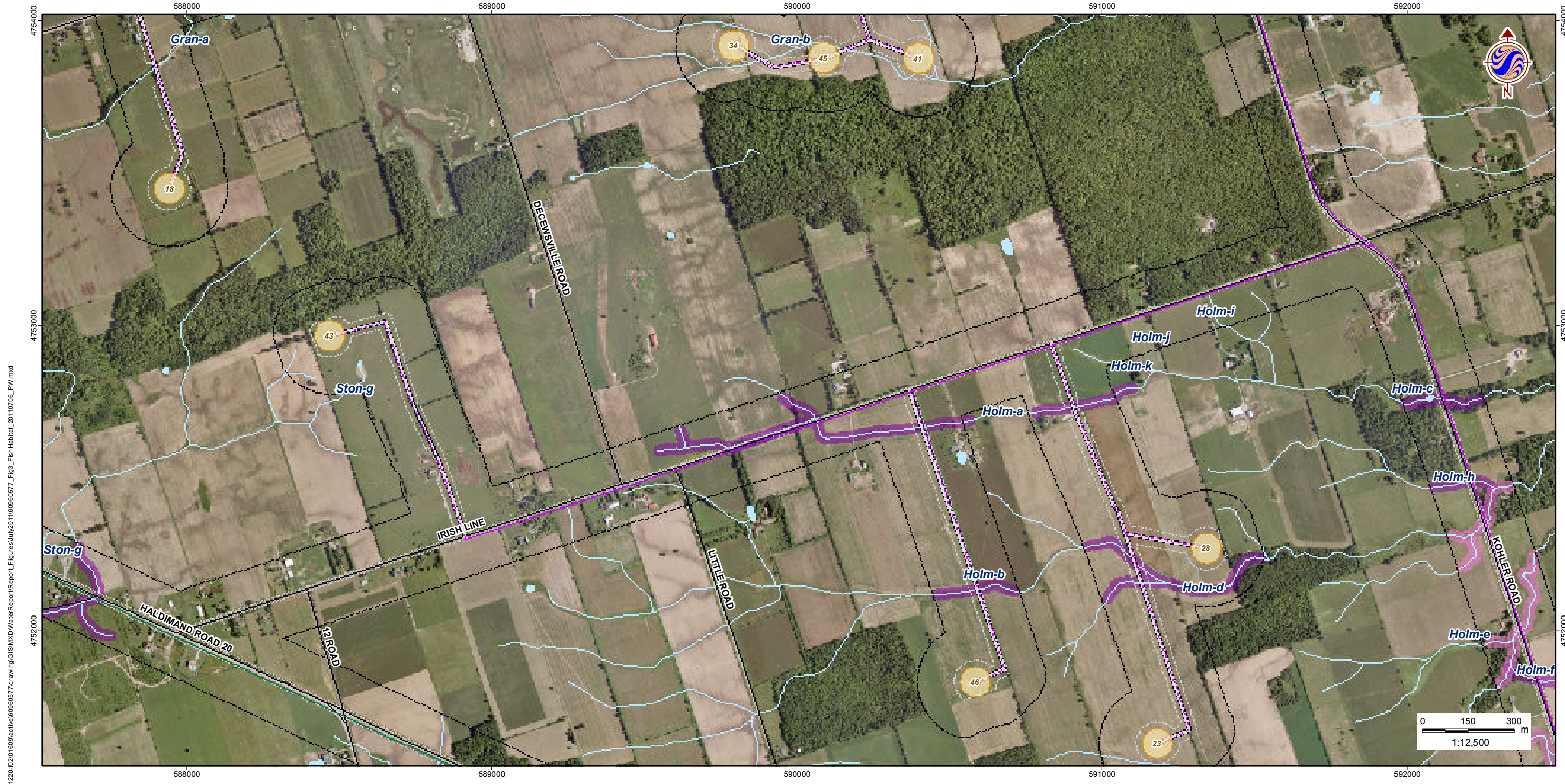
1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
3. Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

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

Figure No.
3.19

Title
FISHERIES HABITAT
Tile 19 of 20

DRAFT



I:\cd1220-02\201609\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig3_FishHabitat_20110706_PW.mxd



Legend

- | | | |
|--|--|--|
| <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 (OBM, as Modified by Stantec) Waterbody (OBM, as Modified by Stantec) | <ul style="list-style-type: none"> Fish Habitat Indirectly Contributes to Fish Habitat |
|--|--|--|



Notes

1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
3. Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

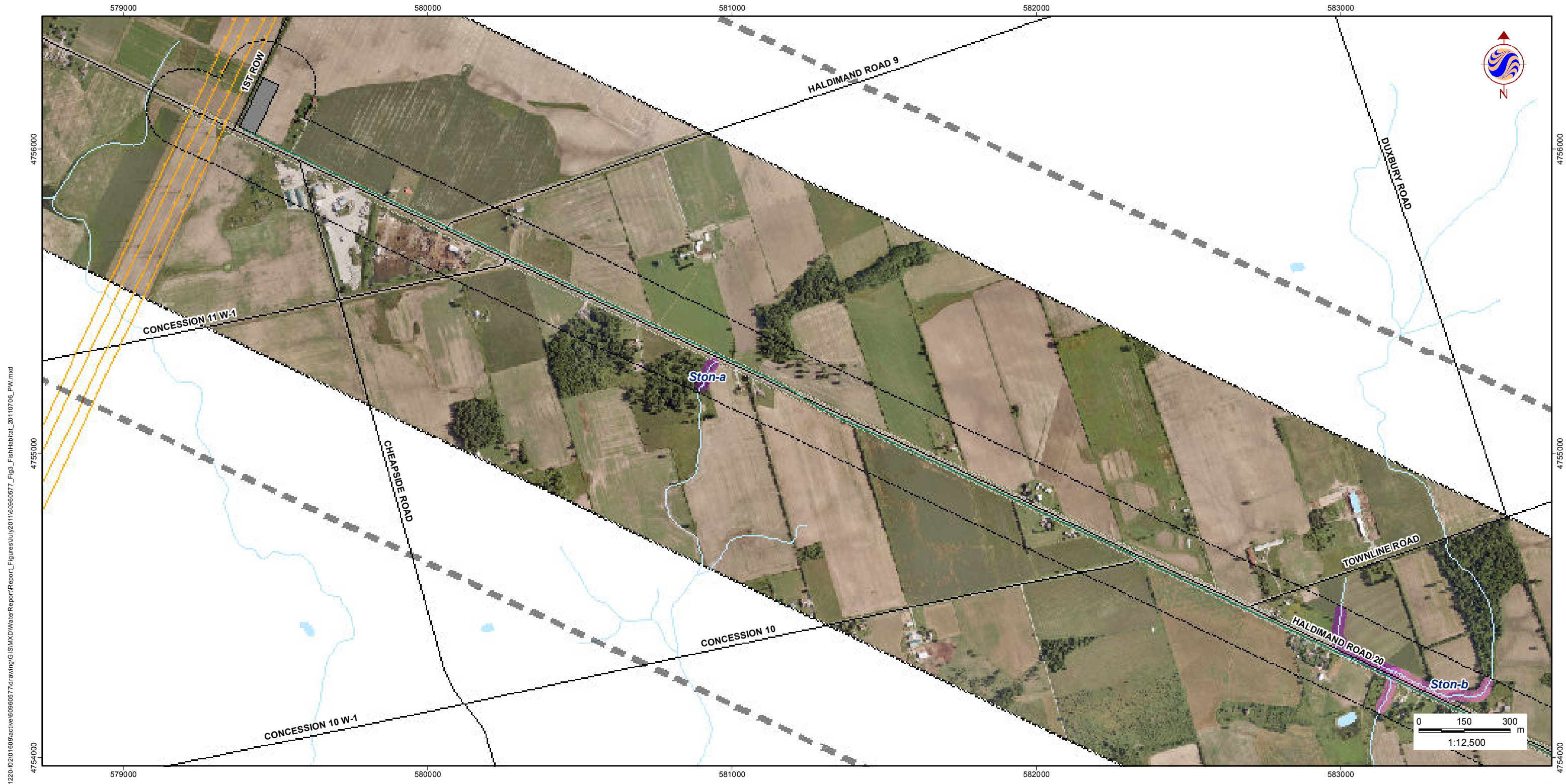
Client/Project
SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK

Figure No.
3.2

DRAFT

Title
FISHERIES HABITAT
Tile 2 of 20

July 2011
160960577



I:\cd1220-02\201609\active\60960577\drawing\GIS\MXD\WaterReport\Figures\Fig3_FishHabitat_20110706_PW.mxd

July 2011
160960577



Legend

- | | | |
|--|--|--|
| <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 (OBM, as Modified by Stantec) Waterbody (OBM, as Modified by Stantec) | <ul style="list-style-type: none"> Fish Habitat Indirectly Contributes to Fish Habitat |
|--|--|--|



Notes

1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
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.
3.20 **DRAFT**

Title
FISHERIES HABITAT
Tile 20 of 20



I:\cd1220-02\201609\active\60960577\drawing\GIS\MXD\WaterReport\Figures\July2011\60960577_Fig3_FishHabitat_20110706_PW.mxd

July 2011
160960577



Legend

- | | | |
|--|--|--|
| <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 (OBM, as Modified by Stantec) Waterbody (OBM, as Modified by Stantec) | <ul style="list-style-type: none"> Fish Habitat Indirectly Contributes to Fish Habitat |
|--|--|--|



Notes

1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
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.
3.3

DRAFT

Title
FISHERIES HABITAT
Tile 3 of 20



kcd1220-02201609/active/60960577/drawing/C/SIMX/D/Map/WaterReport/Report_Figures/July2011/60960577_Fig3_FishHabitat_20110706_PW.mxd

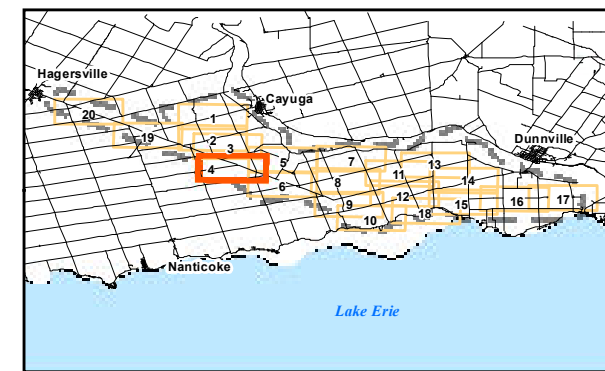
July 2011
160960577



Stantec

Legend

- | | | |
|--|--|--|
| <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 (OBM, as Modified by Stantec) Waterbody (OBM, as Modified by Stantec) | <ul style="list-style-type: none"> Fish Habitat Indirectly Contributes to Fish Habitat |
|--|--|--|



Notes

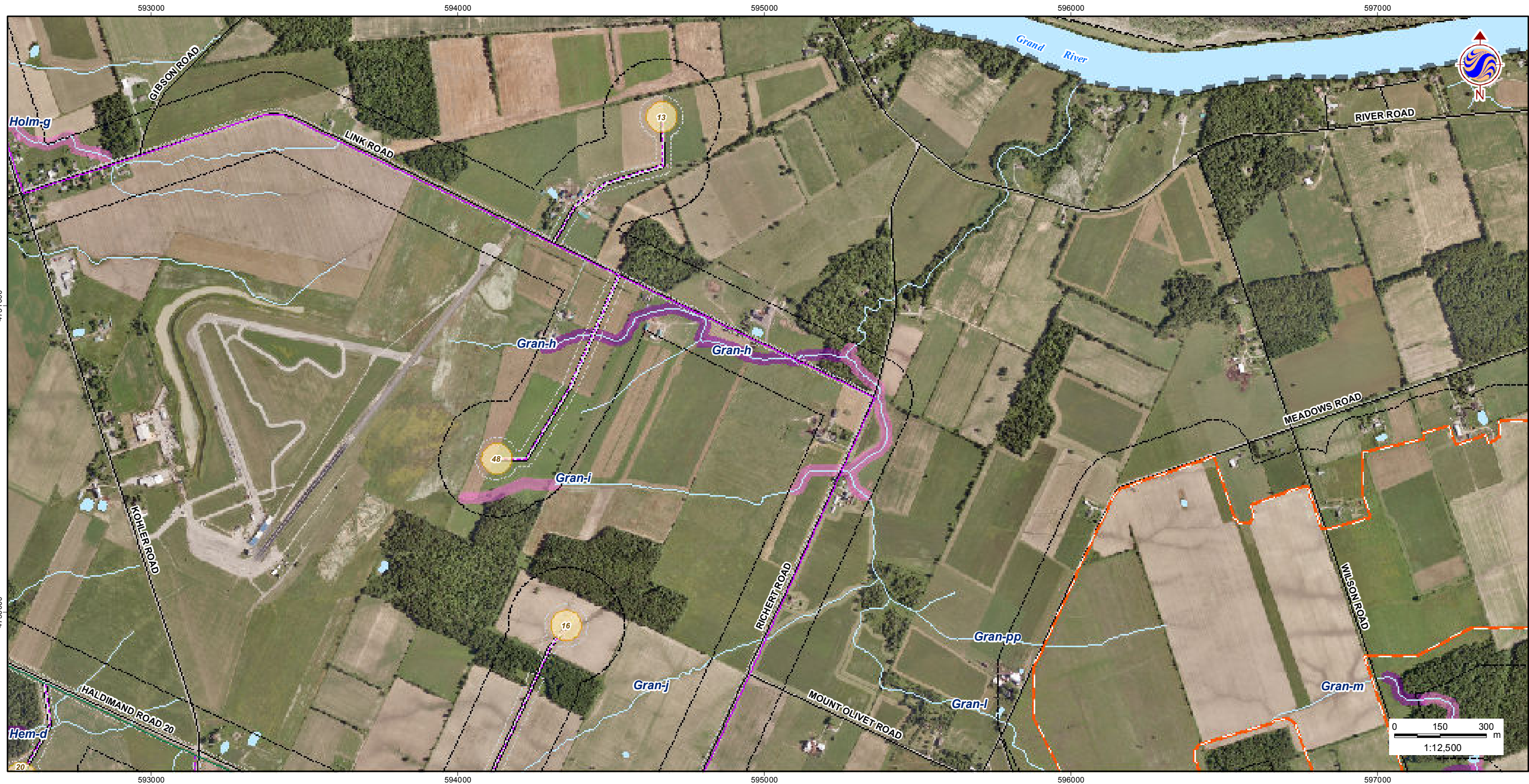
1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
3. Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

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

Figure No.
3.4

DRAFT

Title
**FISHERIES HABITAT
Tile 4 of 20**



I:\cd1220-02\01609\active\60960577\drawing\GIS\MXD\WaterReport\Figures\July2011\60960577_Fig3_FishHabitat_20110706_PW.mxd

July 2011
160960577



Stantec

Legend

- | | | |
|--|--|--|
| <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 (OBM, as Modified by Stantec) Waterbody (OBM, as Modified by Stantec) | <ul style="list-style-type: none"> Fish Habitat Indirectly Contributes to Fish Habitat |
|--|--|--|



Notes

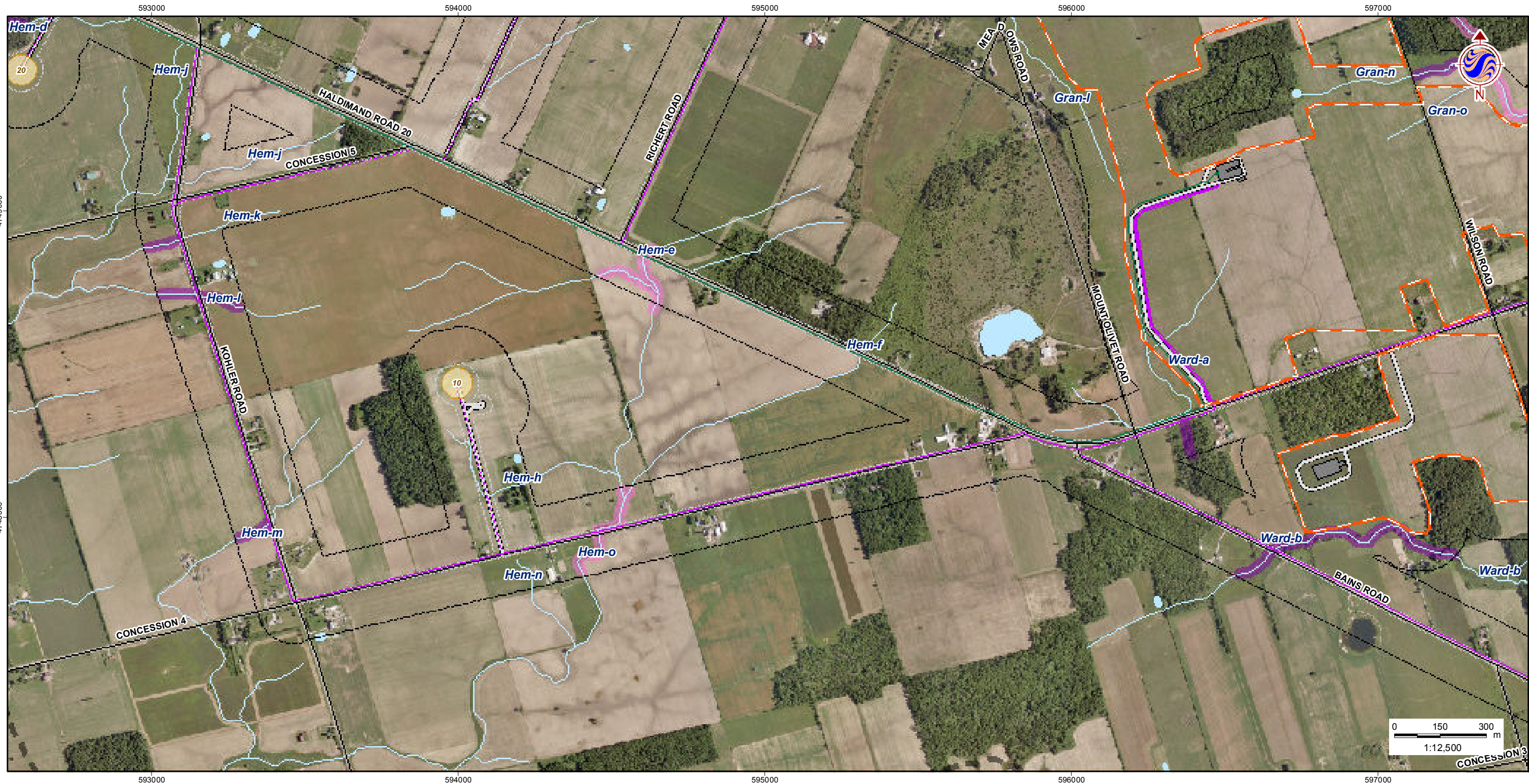
1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
3. Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

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

Figure No.
3.5

DRAFT

Title
**FISHERIES HABITAT
Tile 5 of 20**



I:\cd1220-02\01609\active\60960577\drawing\GIS\MXD\WaterReport\Figures\July2011\60960577_Fig3_FishHabitat_20110706_PW.mxd



Legend

- | | | |
|--|--|--|
| <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 (OBM, as Modified by Stantec) Waterbody (OBM, as Modified by Stantec) | <ul style="list-style-type: none"> Fish Habitat Indirectly Contributes to Fish Habitat |
|--|--|--|



Notes

1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
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.
3.6

Title
FISHERIES HABITAT
Tile 6 of 20

DRAFT



\\cd1220-02201609\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig3_FishHabitat_20110706_PW.mxd

July 2011
160960577



Legend

- | | | |
|--|--|--|
| <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 (OBM, as Modified by Stantec) Waterbody (OBM, as Modified by Stantec) | <ul style="list-style-type: none"> Fish Habitat Indirectly Contributes to Fish Habitat |
|--|--|--|



Notes

1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
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.
3.7

DRAFT

Title
FISHERIES HABITAT
Tile 7 of 20



I:\cd1220-02\01609\active\60960577\drawing\GIS\MXD\WaterReport\Figures\Fig3_FishHabitat_20110706_PW.mxd



Legend

- | | | |
|--|--|--|
| <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 (OBM, as Modified by Stantec) Waterbody (OBM, as Modified by Stantec) | <ul style="list-style-type: none"> Fish Habitat Indirectly Contributes to Fish Habitat |
|--|--|--|



Notes

1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
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.
3.8

DRAFT

Title
FISHERIES HABITAT
Tile 8 of 20



I:\cd1220-02\01609\active\60960577\drawing\GIS\MXD\WaterReport\Figures\July2011\60960577_Fig3_FishHabitat_20110706_PW.mxd

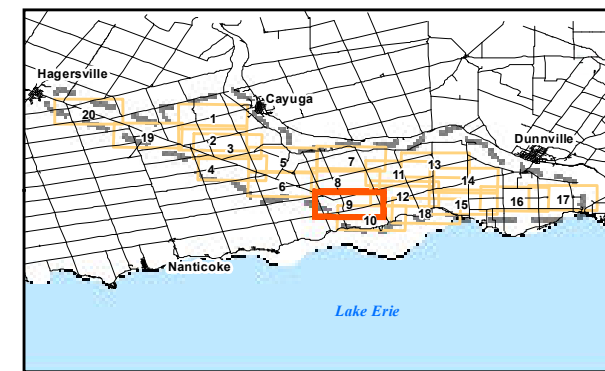
July 2011
160960577



Stantec

Legend

- | | | |
|--|--|--|
| <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 (OBM, as Modified by Stantec) Waterbody (OBM, as Modified by Stantec) | <ul style="list-style-type: none"> Fish Habitat Indirectly Contributes to Fish Habitat |
|--|--|--|



Notes

1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
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.
3.9

DRAFT

Title
**FISHERIES HABITAT
Tile 9 of 20**



W:\active\6096577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\6096577_Fig4_2_WaterBodyLocation_Solar_20110706_PW.mxd

July 2011
160960577



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 (OBM, as modified by Stantec)
- Waterbody (OBM, as modified by Stantec)

- Water Body Status**
- REA Water Body
- Non-REA Watercourse

Notes

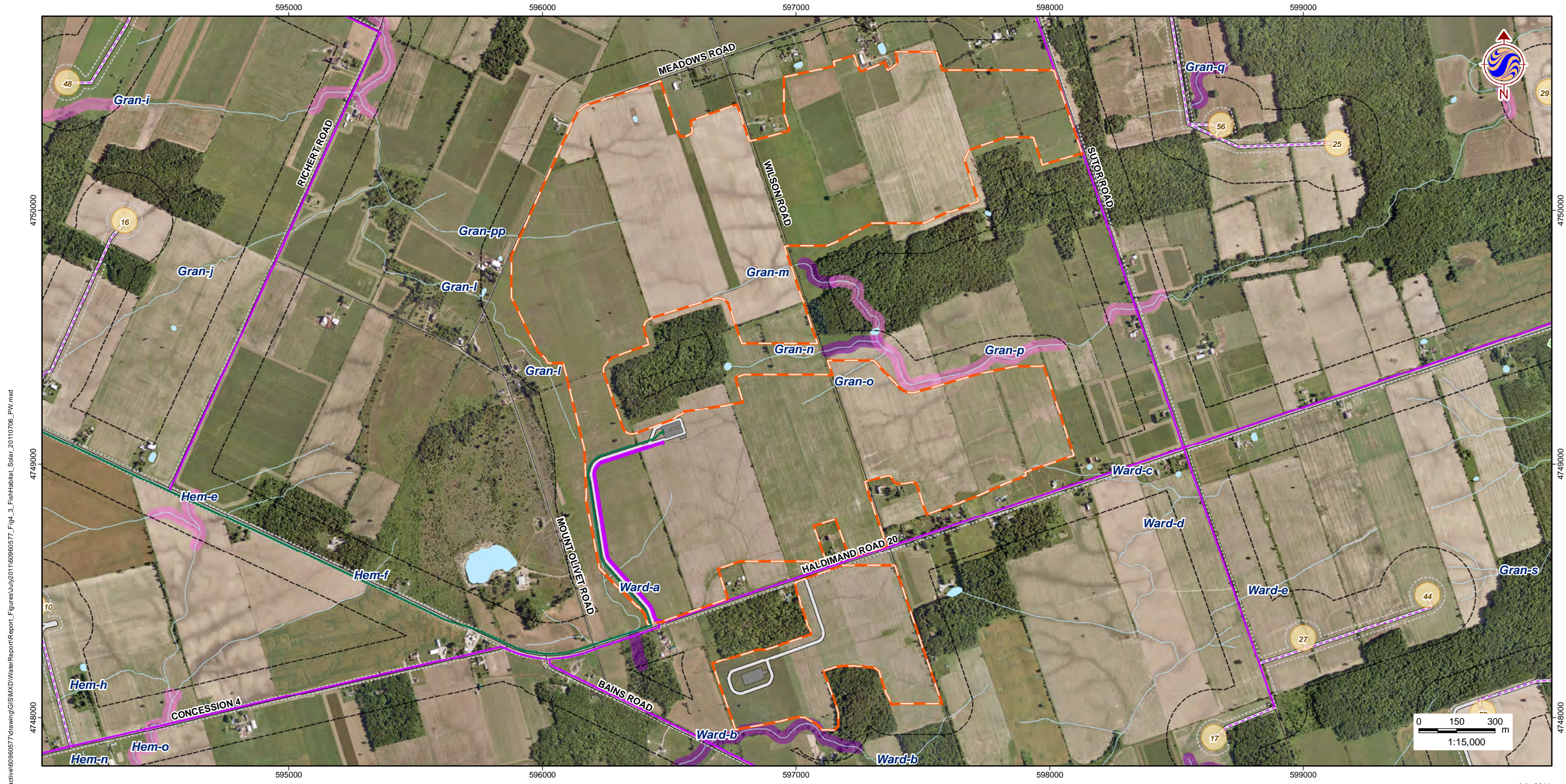
1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
3. Image Source: © Terrapoint, 2011 - Imagery Date: July 2009; Grand River Conservation Authority © First Base Solutions, 2011 - Imagery Date: Spring 2006.

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

Figure No.
4.2

Title
WATER BODY LOCATIONS
Solar Lands

DRAFT



W:\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\60960577_Fig4_3_FishHabitat_Solar_20110706_PW.mxd

July 2011
160960577



Legend

- | | | |
|--|--|--|
| <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 (OBM, as Modified by Stantec) Waterbody (OBM, as Modified by Stantec) | <ul style="list-style-type: none"> Fish Habitat Indirectly Contributes to Fish Habitat |
|--|--|--|

Notes

1. Coordinate System: UTM NAD 83 - Zone 17 (N).
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queens Printer Ontario, 2011; © Samsung, 2011.
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.
4.3

Title
**FISHERIES HABITAT
Solar Lands**

DRAFT