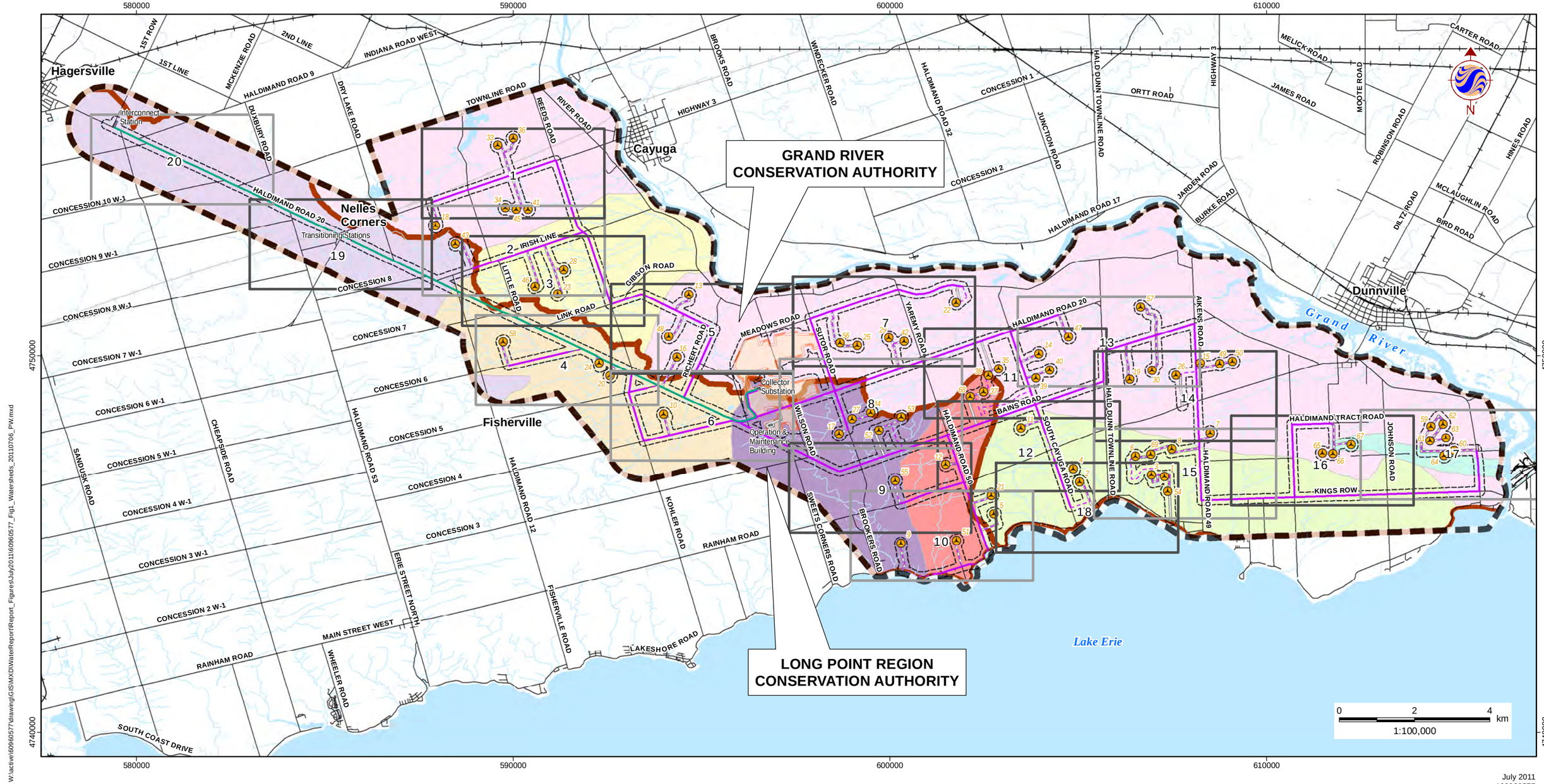

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July 2011
160960577

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

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

Figure No.
1.0 DRAFT

Title
WATERSHEDS AND SUBWATERSHEDS

588000 589000 590000 591000 592000

4756000 4755000 4754000

36 33 34 45 41

Gran-a Gran-b Gran-c Gran-d Gran-e Gran-f Gran-g

REEDS ROAD RIVER ROAD HIGHWAY 3 DECEWSVILLE ROAD KOHLER ROAD

N

0 150 300 m

1:12,500

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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

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

Figure No.
2.1

DRAFT

Title
WATER BODY LOCATIONS
Tile 1 of 20

599000 600000 601000 602000 603000

4746000 4745000 4744000

SUTOR ROAD
RAINHAM ROAD
BROOKERS ROAD
HALDIMAND ROAD 50
LAKESHORE ROAD
WHITE CAP LANE
EVANS POINT LINE

Ward-l
Evans-a
Evans-e
Evans-f
Lake-r
Lake-s
Lake-t
Lake-j
Ward-n
Ward-o
Ward-P
Evans-h
Evans-i

21
5
51
9

N

0 150 300 m
1:12,500

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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

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

Figure No.
2.10

DRAFT

Title
WATER BODY LOCATIONS
Tile 10 of 20

601000 602000 603000 604000 605000

4750000

4749000

Gran-t
Gran-aa
Gran-bb
Gran-dd
Gran-z
Gran-y
Gran-cc
Gran-x
Evans-g
Evans-i
Evans-k
Evans-c

HALDIMAND ROAD 20
HALDIMAND ROAD 50
SOUTH CAYUGA ROAD
BAINS ROAD
TOWNLINE ROAD HALD DUNN

47
14
35
40
38
39
37
68
53

N

0 150 300 m
1:12,500

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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

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

Figure No.
2.11

DRAFT

Title
WATER BODY LOCATIONS
Tile 11 of 20

602000 603000 604000 605000 606000

4748000 4747000

Evans-c
BAINS ROAD
Evans-d
Evans-c
HALDIMAND ROAD 50
12
RAINHAM ROAD
Evans-f
Evans-f
SOUTH CAYUGA ROAD
11
Lake-a
Lake-b
Lake-q
Lake-k
Lake-c
4
2
TOWNLINE ROAD HALD-DUNN
Lake-d
N
0 150 300 m
1:12,500

602000 603000 604000 605000 606000

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July 2011
160960577

Legend

Study Area
Zone of Investigation
Constructable Area

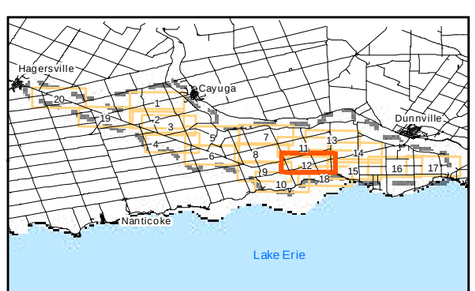
Wind Project Location
Proposed Turbine Location
Access Road
Overhead Collector Line
Underground Collector Line

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



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

Figure No.
2.12 DRAFT

Title
WATER BODY LOCATIONS
Tile 12 of 20

604000 605000 606000 607000 608000

4751000

4750000

REGIONAL ROAD 20

HALDIMAND ROAD 20

SOUTH CAYUGA ROAD

TOWNLINE ROAD HALD DUNN

BAINS ROAD

AIKENS ROAD

Gran-aa

Gran-bb

Gran-cc

Gran-dd

Gran-ee

Gran-ff

Gran-gg

Gran-hh

Gran-ii

Gran-jj

Gran-oo

Gran-y

Gran-z

14 47 57 40 39 30 19 26 15

N

0 150 300 m

1:12,500

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July 2011
160960577

Legend

Study Area
Zone of Investigation
Constructable Area

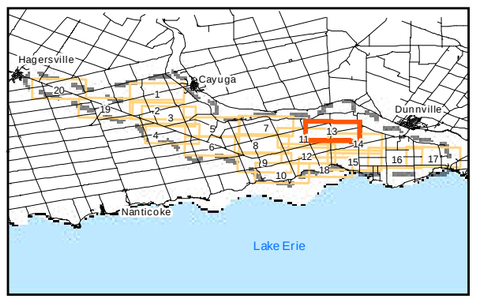
Wind Project Location
Proposed Turbine Location
Access Road
Overhead Collector Line
Underground Collector Line

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



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

Figure No.
2.13 DRAFT

Title
WATER BODY LOCATIONS
Tile 13 of 20

606000 607000 608000 609000 610000

4750000 4749000 4748000

Gran-dd
Gran-ff
Gran-ff
Gran-gg
Gran-ii
Gran-jj
Gran-kk
Gran-ll
Gran-mm
BAINS ROAD
TOWNLINE ROAD HALDDUNN
AIKENS ROAD
HALDIMAND ROAD 49
RAINHAM ROAD
15
19
26
30
49
50
7

N

0 150 300 m
1:12,500

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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

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

Figure No.
2.14 DRAFT

Title
WATER BODY LOCATIONS
Tile 14 of 20

606000 607000 608000 609000 610000

4748000 4747000 4746000

RAINHAM ROAD

TOWNLINE ROAD HALDIMAND

RAMSEY ROAD

HALDIMAND ROAD 49

KINGS ROW

MYRNAM BEACH ROAD

EDGEWATER PLACE

LAKESHORE ROAD

SHORELINE TRAIL

Lake Erie

Lake-d

Lake-e

Lake-f

Lake-g

Lake-h

Lake-i

Lake-u

1 3 6 7 8 54 69

0 150 300 m

1:12,500

July 2011
160960577

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

Water Body Status

- REA Water Body
- Non-REA Watercourse

Notes

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

Figure No.
2.15 DRAFT

Title
WATER BODY LOCATIONS
Tile 15 of 20

609000 610000 611000 612000 613000

4748000 4747000 4746000

HALDIMAND TRACT ROAD
HALDIMAND TRAIL
MARSHALL ROAD
RAMSEY ROAD
JOHNSON ROAD
KINGS ROW

Lake-l
Lake-o
Lake-i
Lake-m
Lake-n
Lake-p
Mazi-a

65 66 67

N

0 150 300 m
1:12,500

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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

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

Figure No.
2.16 DRAFT

Title
WATER BODY LOCATIONS
Tile 16 of 20

613000 614000 615000 616000 617000

4748000

4747000

59 62 63 61 60 64

Mazi-b

Gran-qq

Gran-nn

Lake-p

JOHNSON ROAD

RAMSEY ROAD

KINGS ROW

PORT MAITLAND ROAD

DOVER STREET

Grand River

RYMER ROAD

FEEDER CANAL ROAD

SIDDALL ROAD

N

0 150 300 m

1:12,500

613000 614000 615000 616000 617000

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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

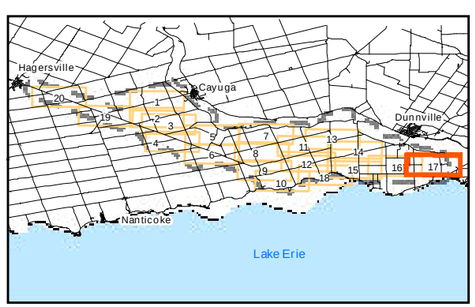
- Overhead Transmission Line
- Underground Transmission Line
- Electrical Transmission Component

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

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

Figure No.
2.17

DRAFT

Title
WATER BODY LOCATIONS
Tile 17 of 20

603000 604000 605000 606000 607000

4747000 4746000 4745000

RAINHAM ROAD
Lake-k
Lake-c
Lake-e
Lake-g
Lake-f
TOWNLINE ROAD HALD DUNN
SOUTH CAYUGA ROAD
EDGEWATER PLACE
LAKESHORE ROAD
SHORELINE TRAIL
Lake-u
Lake-h
Lake-r
Lake-s
Lake-t
Lake Erie
1
2
3
4
5
54

N

0 150 300 m
1:12,500

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July 2011
160960577

Legend

- Study Area
- Zone of Investigation
- Constructable Area

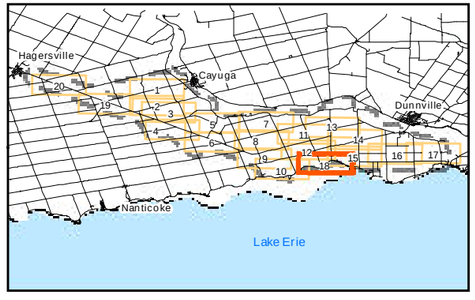
Wind Project Location
- Proposed Turbine Location
- Access Road
- Overhead Collector Line
- Underground Collector Line

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



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

Figure No.
2.18 DRAFT

Title
WATER BODY LOCATIONS
Tile 18 of 20

583000 584000 585000 586000 587000

4754000 4753000 4752000

CONCESSION 9 W-1
CONCESSION 8 W-1
CONCESSION 9
CONCESSION 8
HALDIMAND ROAD 53
OLD TALBOT ROAD
HIGHWAY 3
DRY LAKE ROAD
HALDIMAND ROAD 20
Nelles Corners
Ston-c
Ston-d
Ston-e
Ston-f
Ston-g
N
0 150 300 m
1:12,500

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July 2011
160960577

Legend

- Study Area
- Zone of Investigation
- Constructable Area

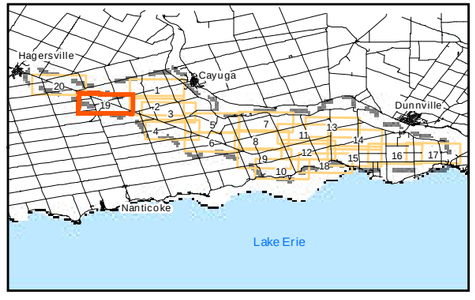
Wind Project Location
- Proposed Turbine Location
- Access Road
- Overhead Collector Line
- Underground Collector Line

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

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

Figure No.
2.19 DRAFT

Title
WATER BODY LOCATIONS
Tile 19 of 20

588000 589000 590000 591000 592000

4754000 4753000 4752000

Gran-a
Gran-b
Ston-g
Holm-a
Holm-b
Holm-c
Holm-d
Holm-e
Holm-f
Holm-h
Holm-i
Holm-j
Holm-k
18
34
45
41
43
28
46
23
DECEWSVILLE ROAD
IRISH LINE
LITTLE ROAD
HALDIMAND ROAD 20
12 ROAD
KOHLER ROAD
N
0 150 300 m
1:12,500

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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

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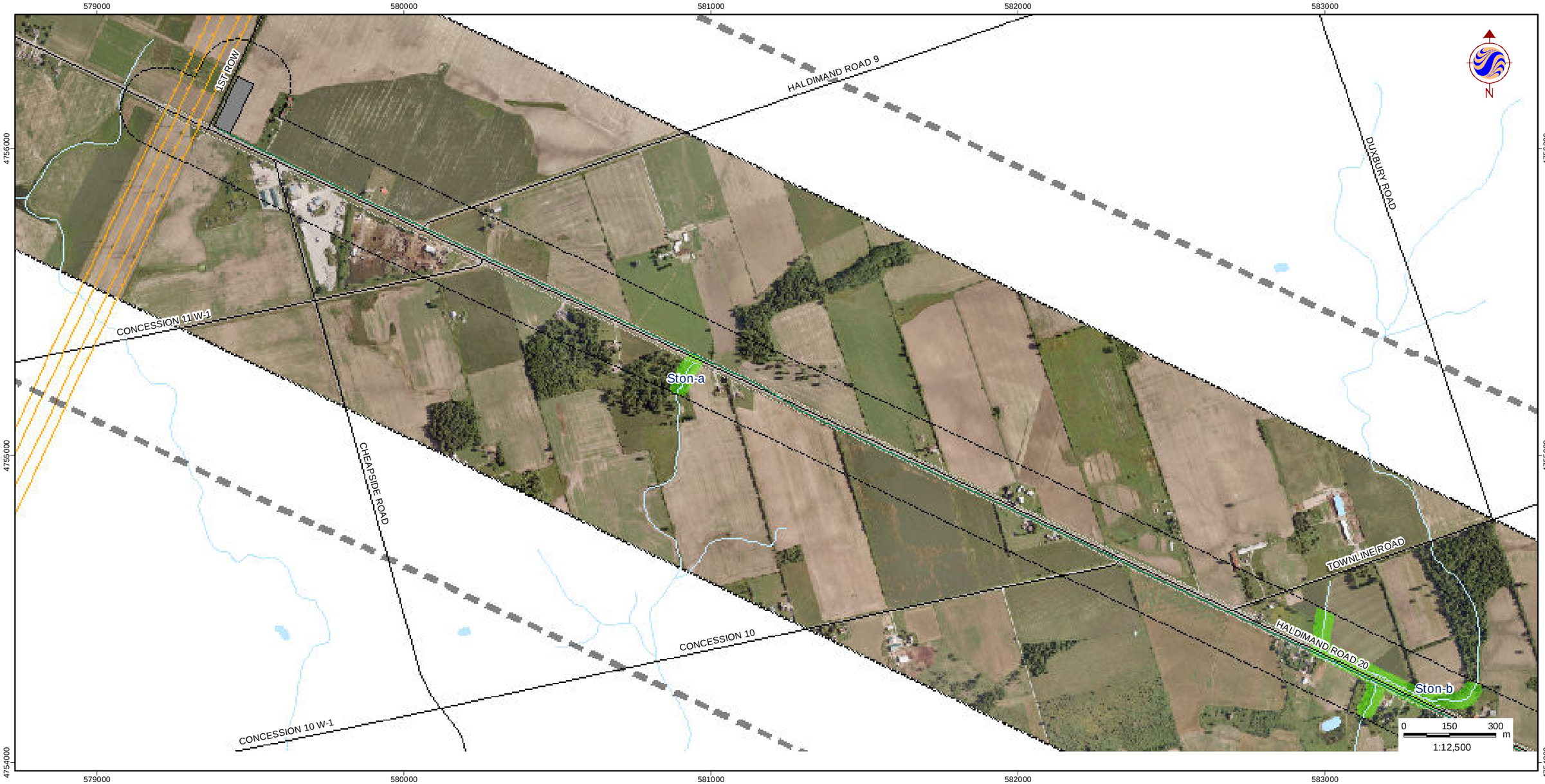
Client/Project
SAMSUNG, PATTERN & KEPCO (SPK)
GRAND RENEWABLE ENERGY PARK

Figure No.
2.2 DRAFT

Title
WATER BODY LOCATIONS
Tile 2 of 20



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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

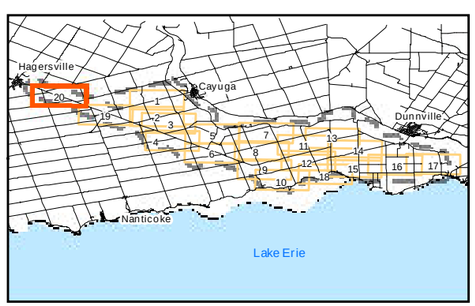
- Overhead Transmission Line
- Underground Transmission Line
- Electrical Transmission Component

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

Figure No.
2.20

DRAFT

Title
WATER BODY LOCATIONS
Tile 20 of 20

589000 590000 591000 592000 593000

4753000 4752000 4751000

DECEWSVILLE ROAD
IRISH LINE
LITTLE ROAD
KOHLER ROAD
GIBSON ROAD
HALDIMAND ROAD 12
CONCESSION 7
HALDIMAND ROAD 20
LINK ROAD

Holm-i
Holm-j
Holm-k
Holm-a
Holm-c
Holm-h
Holm-b
Holm-d
Holm-e
Holm-f
Holm-g
Holm-l
Hem-i
Hem-h
Hem-g

28
46
23

N

0 150 300 m
1:12,500

W:\active\60960577\drawing\GIS\MXD\WaterReport\Report_Figures\July2011\160960577_Fig2_WaterBodyLocation_20110706_PW.mxd

July 2011
160960577

Legend

Study Area
Zone of Investigation
Constructable Area

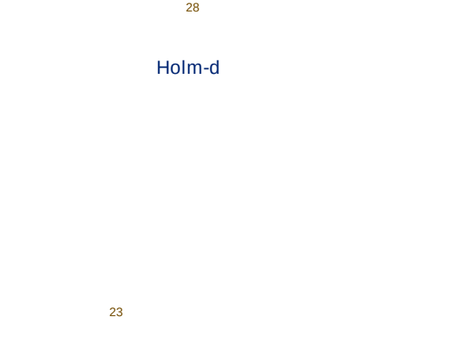
Wind Project Location
Proposed Turbine Location
Access Road
Overhead Collector Line
Underground Collector Line

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

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

Figure No.
2.3 DRAFT

Title
WATER BODY LOCATIONS
Tile 3 of 20