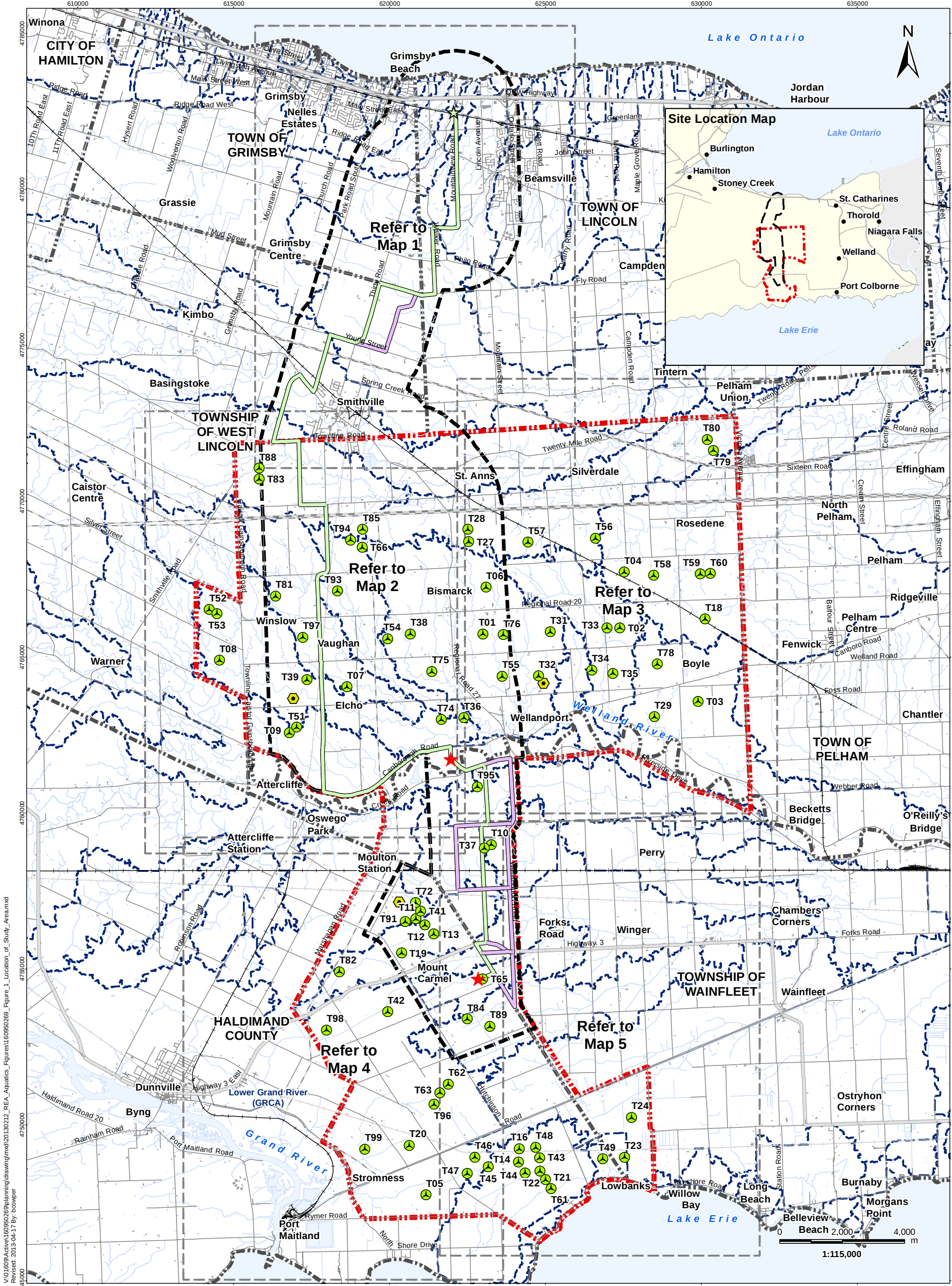


Appendix A

Figures



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Revised: 2013-04-17 By: bawpwr



Legend

- Project Study Area
- Interconnector Study Area
- Proposed Turbine Location
- Transformer Substation
- Tap-in Location
- Existing Met Tower
- Preferred Transmission Route
- Alternate Transmission Route
- Road
- Expressway / Highway
- Active Railway
- Abandoned Railway
- Existing Structures
- Existing Transmission Line
- Watercourse
- Waterbody
- Municipality Lower Tier
- Subwatershed (NPCA)

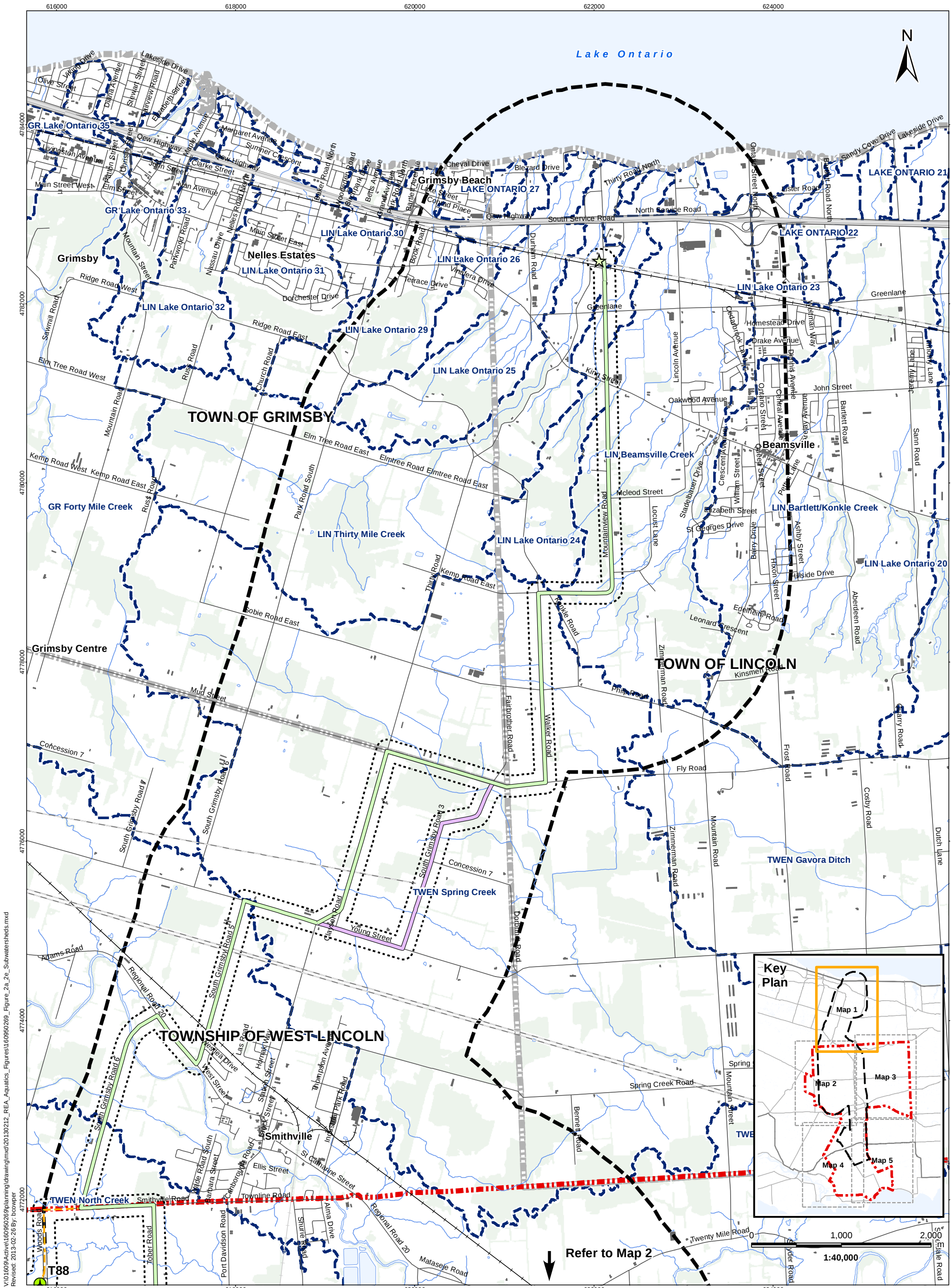
Client/Project
Niagara Region Wind Corporation
Niagara Region Wind Farm
Water Assessment and Waterbody Report

Figure No.
1

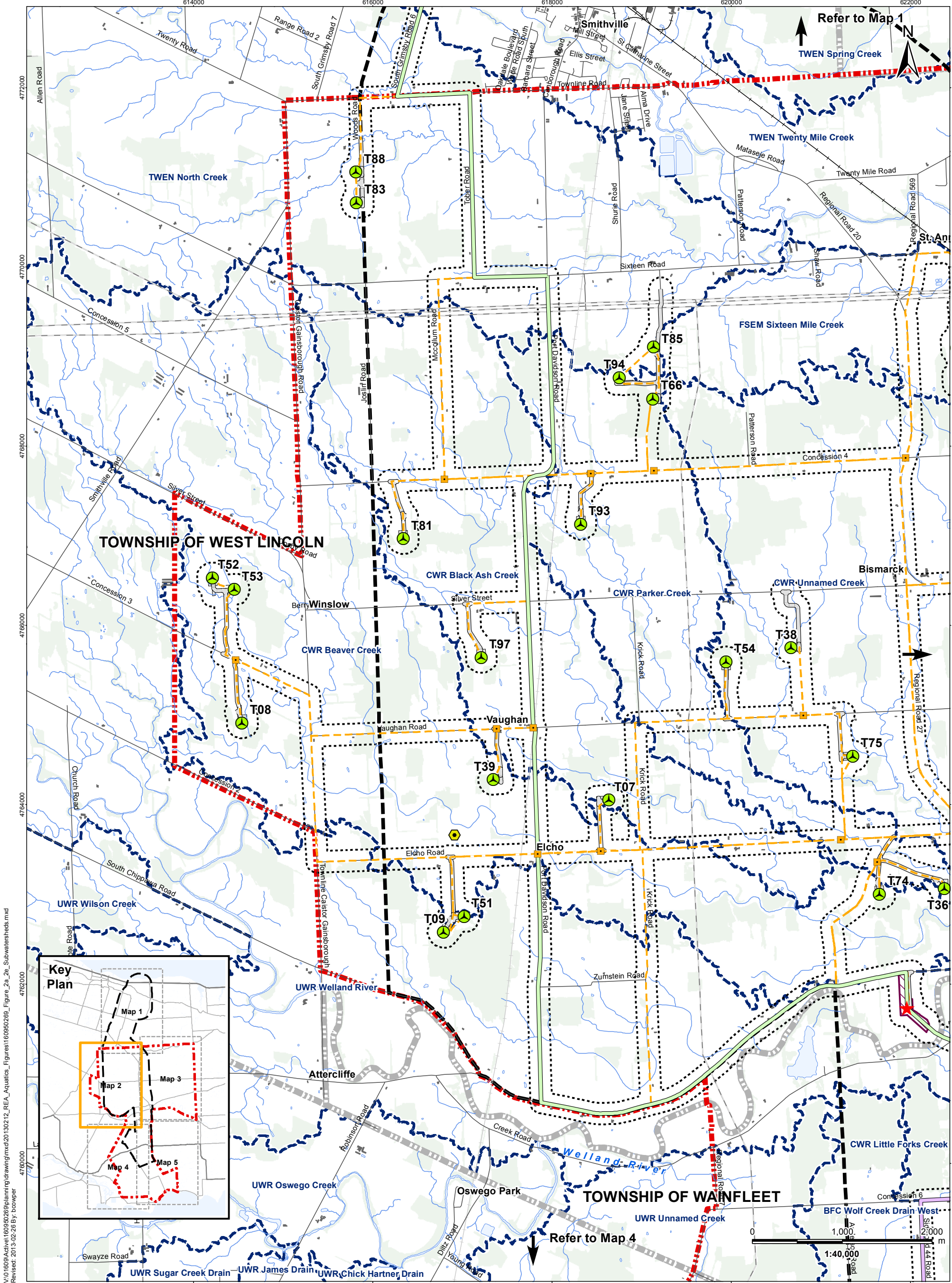
Title
Location of Study Area

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
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V:\01609\Active\160950269\planning\drawing\mxd\20130212_REA_Aquatics_Figures\160950269_Figure_2a_2e_Subwatersheds.mxd
Revised: 2013-02-26 By: bwwg



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Revised: 2013-02-26 By: bczwper



Legend

- Project Study Area
- Interconnector Study Area
- 120m Zone of Investigation
- Proposed Turbine Location
- Transformer Substation
- Potential Access Road
- Collector Lines – Underground or Overhead
- Preferred Transmission Route
- Alternate Transmission Route
- Junction Box
- Tap-in Location
- Existing Met Tower
- Potential Construction Laydown Area
- Road
- Expressway / Highway
- Active Railway
- Abandoned Railway
- Existing Transmission Line
- Existing Structures
- Watercourse
- Waterbody
- Wooded Area
- Subwatershed (NPCA)

Client/Project
Niagara Region Wind Corporation
Niagara Region Wind Farm
Water Assessment and Waterbody Report

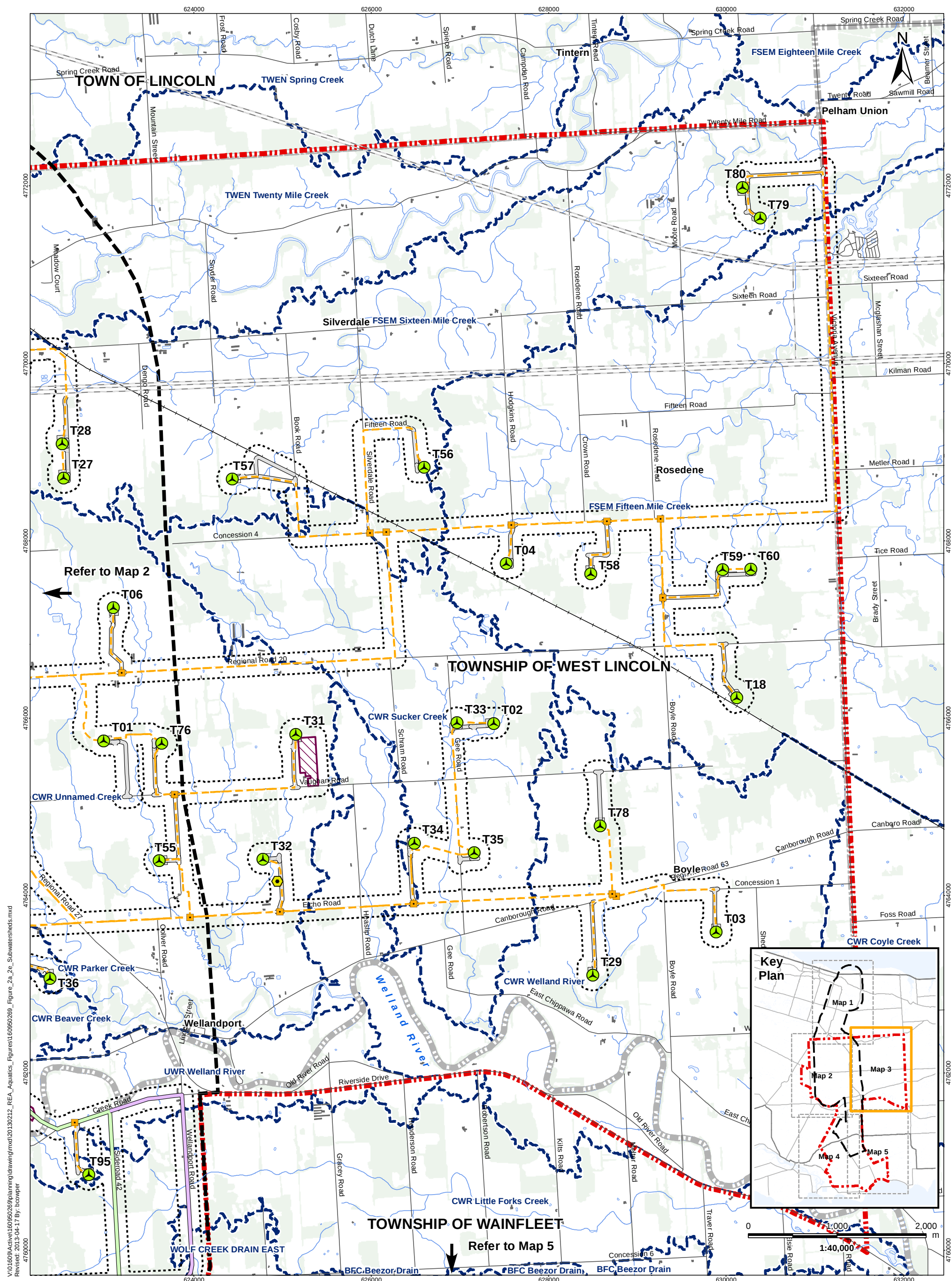
Figure No.
2b

Title
**Subwatersheds
Map 2 of 5**

Notes

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160950269



Legend

- | | | | | | |
|---|---|---|-------------------------------------|---|---------------------|
|  | Project Study Area |  | Junction Box |  | Watercourse |
|  | Interconnector Study Area |  | Tap-in Location |  | Waterbody |
|  | 120m Zone of Investigation |  | Existing Met Tower |  | Wooded Area |
|  | Proposed Turbine Location |  | Potential Construction Laydown Area |  | Subwatershed (NPCA) |
|  | Transformer Substation |  | Road | | |
|  | Potential Access Road |  | Expressway / Highway | | |
|  | Collector Lines – Underground or Overhead |  | Active Railway | | |
|  | Preferred Transmission Route |  | Abandoned Railway | | |
|  | Alternate Transmission Route |  | Existing Transmission Line | | |
| | |  | Existing Structures | | |
- ## Notes

 1. Coordinate System: NAD 1983
 2. Base features produced under the authority of the Ministry of Natural Resources Canada

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Niagara Region Wind Corporation	
Niagara Region Wind Farm	
Water Assessment and Waterbody Report	

Figure No.
2c

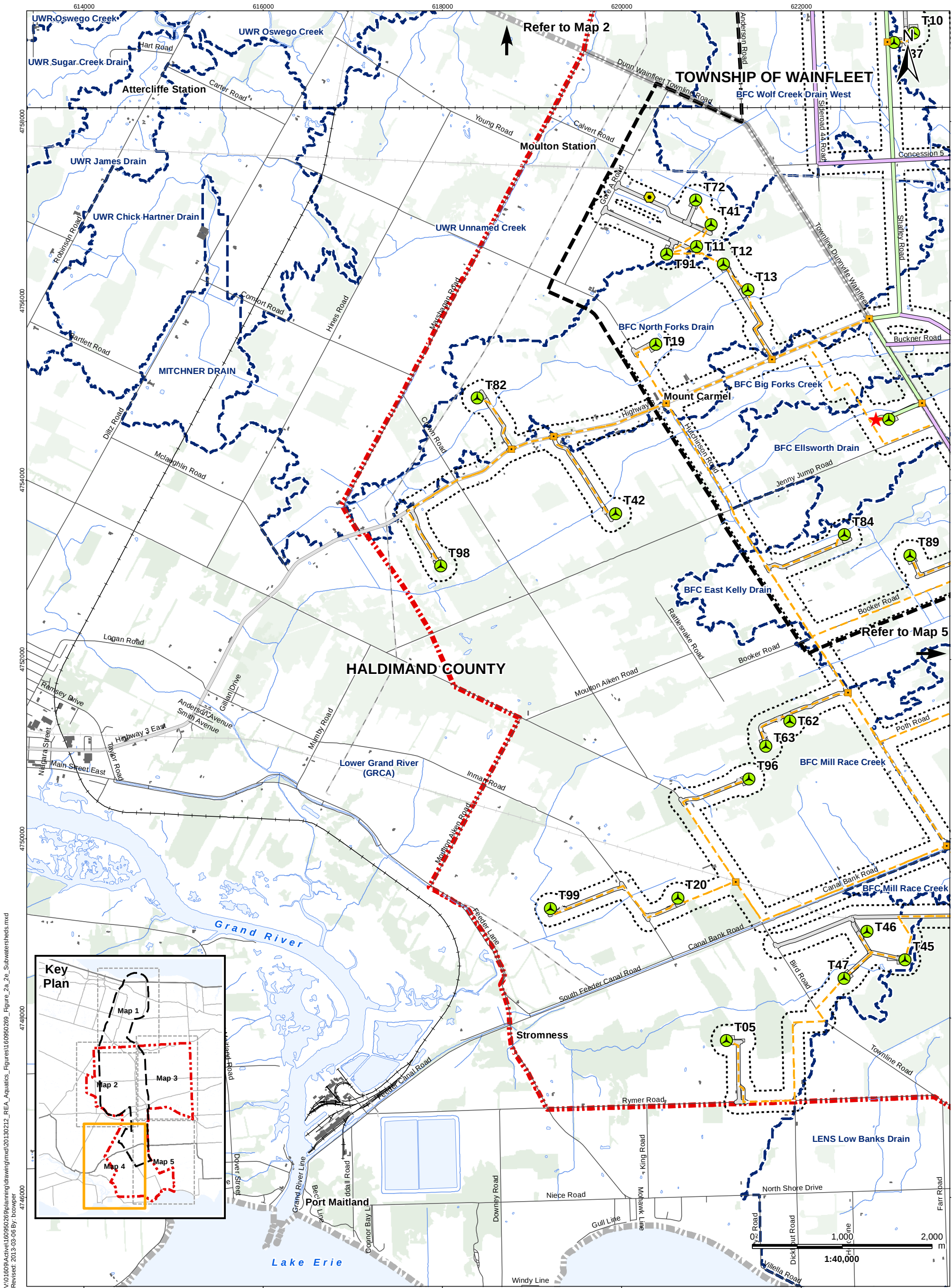
Title

Subwatersheds

Map 3 of 5

Notes

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Revised: 2013-03-06 By: bowyer



Legend

	Project Study Area		Junction Box		Watercourse
	Interconnector Study Area		Tap-in Location		Waterbody
	120m Zone of Investigation		Existing Met Tower		Wooded Area
	Proposed Turbine Location		Potential Construction Laydown Area		Subwatershed (NPCA)
	Transformer Substation		Road		
	Potential Access Road		Expressway / Highway		
	Collector Lines - Underground or Overhead		Active Railway		
	Preferred Transmission Route		Abandoned Railway		
	Alternate Transmission Route		Existing Transmission Line		
			Existing Structures		

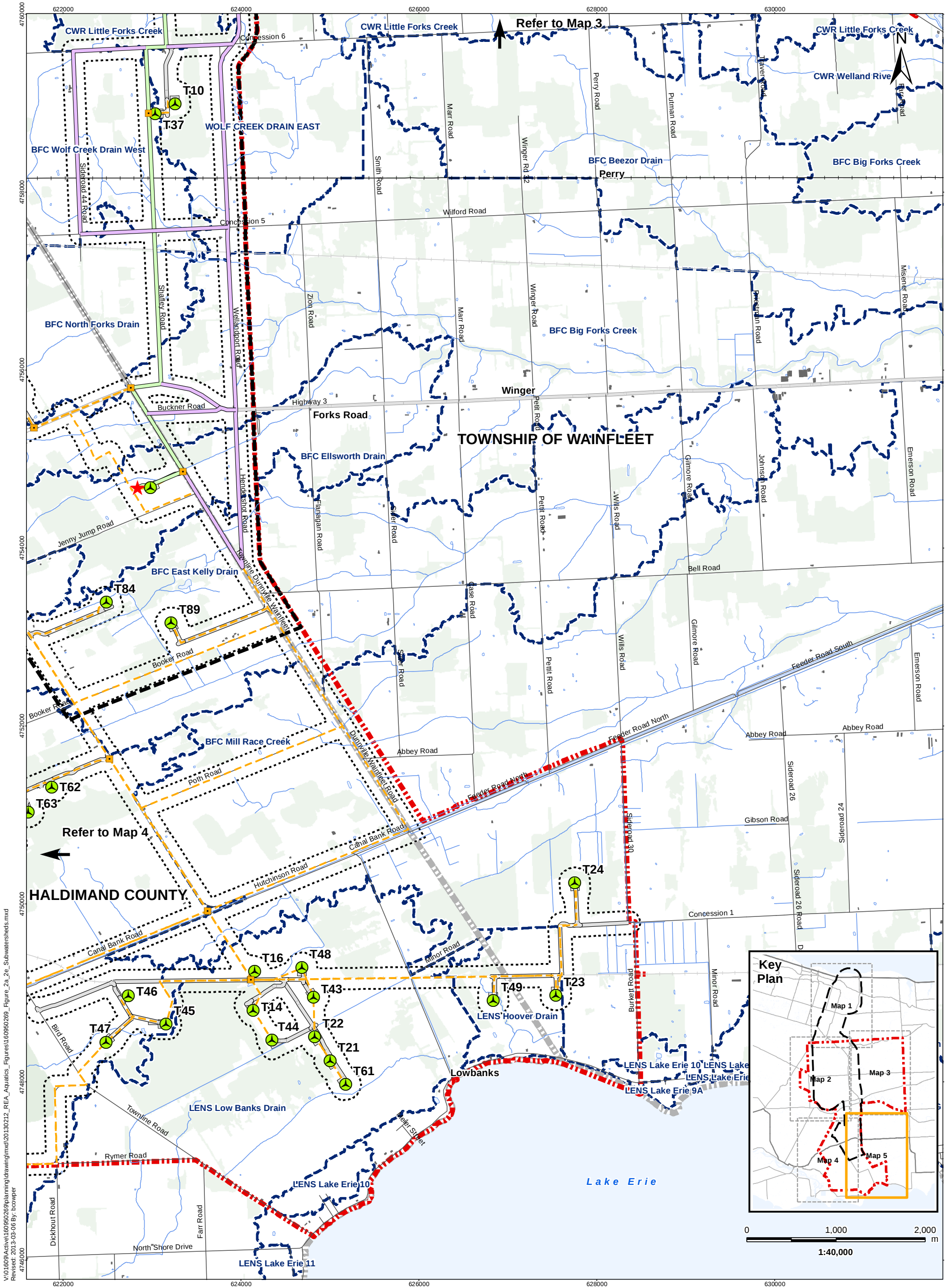
Client/Project
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Water Assessment and Waterbody Report

Figure No.
2d

Title
Subwatersheds
Map 4 of 5

Notes
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Revised: 2013-03-06 By: bawpwr



Legend

- | | | |
|---|-------------------------------------|---------------------|
| Project Study Area | Junction Box | Watercourse |
| Interconnector Study Area | Tap-in Location | Waterbody |
| 120m Zone of Investigation | Existing Met Tower | Wooded Area |
| Proposed Turbine Location | Potential Construction Laydown Area | Subwatershed (NPCA) |
| Transformer Substation | Road | |
| Potential Access Road | Expressway / Highway | |
| Collector Lines – Underground or Overhead | Active Railway | |
| Preferred Transmission Route | Abandoned Railway | |
| Alternate Transmission Route | Existing Transmission Line | |
| | Existing Structures | |

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Water Assessment and Waterbody Report

Figure No.
2e

Title

Subwatersheds Map 5 of 5

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Revised: 2013-03-28 By: p.worsell



March, 2013
160950269



Legend



Watercourse (MNR)

Waterbody

Non-waterbody

Proposed Turbine Location

Turbine Blade Length 30m Buffer

Tap-in Location



Preferred Transmission Route

Alternate Transmission Route

Temporary Laydown Area

Transformer Substation

Potential Construction Laydown Area

Collector Lines – Underground or Overhead

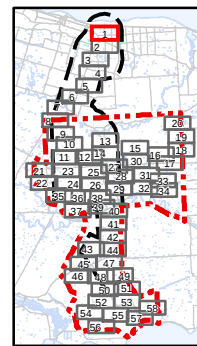
Fibre Optic Line

Potential Access Road

Access Road 20m Construction Area

Notes

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Niagara Region Wind Corporation
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Water Assessment and Waterbody Report

Figure No.

3.1

Title

Water Bodies
Figure 3.1

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Revised: 2013-03-28 By: p.worsell



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Legend



Watercourse (MNR)

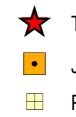
Waterbody

Non-waterbody

Proposed Turbine Location

Turbine Blade Length 30m Buffer

Tap-in Location



Preferred Transmission Route

Alternate Transmission Route

Temporary Laydown Area

Transformer Substation

Potential Construction Laydown Area

Collector Lines – Underground or Overhead

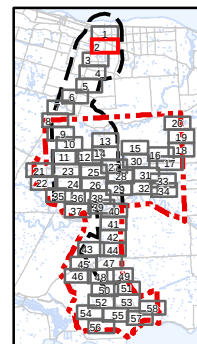
Fibre Optic Line

Potential Access Road

Access Road 20m Construction Area

Notes

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Water Assessment and Waterbody Report

Figure No.

3.2

Title

Water Bodies
Figure 3.2

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Revised: 2013-03-28 By: pwnsell



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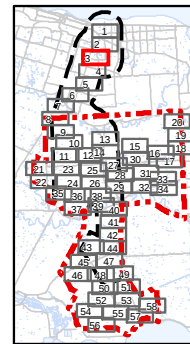
Legend

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|--|---------------------------------|--|-------------------------------------|
| | Project Study Area | | Transformer Substation Location |
| | Interconnector Study Area | | Junction Box |
| | 120m Zone of Investigation | | Proposed Culvert |
| | Watercourse (MNR) | | Turbine Blade Length |
| | Waterbody | | Preferred Transmission Route |
| | Non-waterbody | | Alternate Transmission Route |
| | Proposed Turbine Location | | Temporary Laydown Area |
| | Turbine Blade Length 30m Buffer | | Transformer Substation |
| | Tap-in Location | | Potential Construction Laydown Area |

- | | |
|--|---|
| | Collector Lines – Underground or Overhead |
| | Fibre Optic Line |
| | Potential Access Road |
| | Access Road 20m Construction Area |

Notes

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Water Assessment and Waterbody Report

Figure No.

3.3

Title

Water Bodies
Figure 3.3



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Revised: 2013-03-28 By: p.worsell

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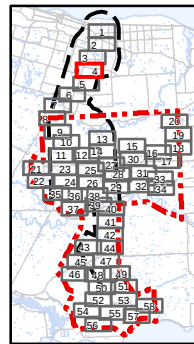
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|--|---------------------------------|--|-------------------------------------|
| | Project Study Area | | Transformer Substation Location |
| | Interconnector Study Area | | Junction Box |
| | 120m Zone of Investigation | | Proposed Culvert |
| | Watercourse (MNR) | | Turbine Blade Length |
| | Waterbody | | Preferred Transmission Route |
| | Non-waterbody | | Alternate Transmission Route |
| | Proposed Turbine Location | | Temporary Laydown Area |
| | Turbine Blade Length 30m Buffer | | Transformer Substation |
| | Tap-in Location | | Potential Construction Laydown Area |

- | | |
|--|---|
| | Collector Lines – Underground or Overhead |
| | Fibre Optic Line |
| | Potential Access Road |
| | Access Road 20m Construction Area |

Notes

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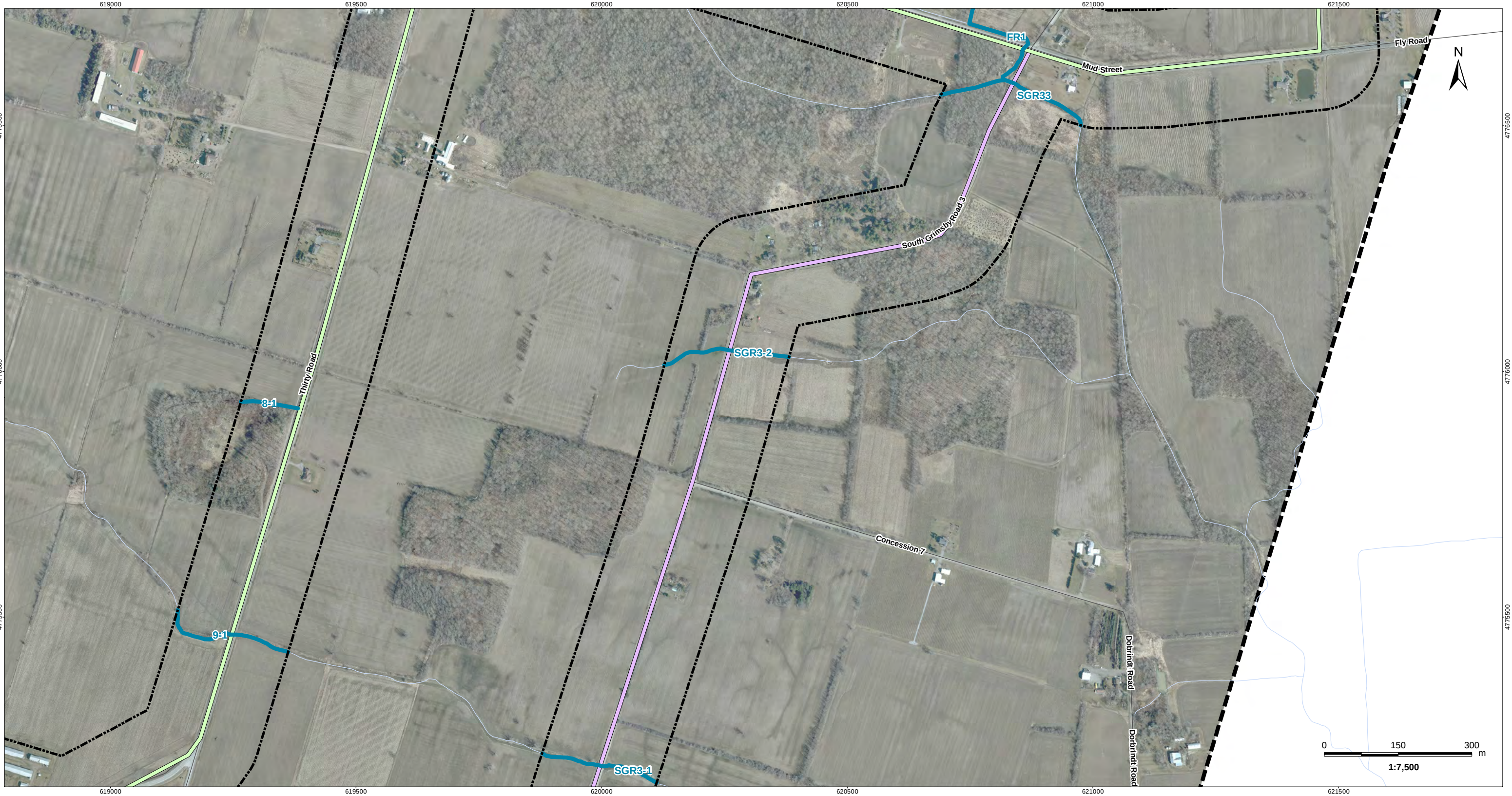


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Niagara Region Wind Corporation
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Water Assessment and Waterbody Report

Figure No.
3.4

Title
Water Bodies
Figure 3.4

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Revised: 2013-03-28 By: p.worsell



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160950269



Legend



Project Study Area
Interconnector Study Area
120m Zone of Investigation
Watercourse (MNR)



Waterbody

Non-waterbody



Proposed Turbine Location



Turbine Blade Length 30m Buffer



Tap-in Location



Transformer Substation Location



Junction Box



Proposed Culvert



Turbine Blade Length



Preferred Transmission Route



Alternate Transmission Route



Temporary Laydown Area



Transformer Substation



Potential Construction Laydown Area



Collector Lines - Underground or Overhead



Fibre Optic Line



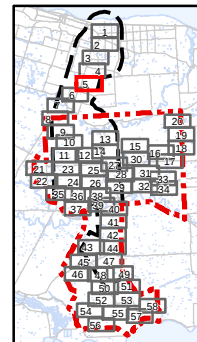
Potential Access Road



Access Road 20m Construction Area

Notes

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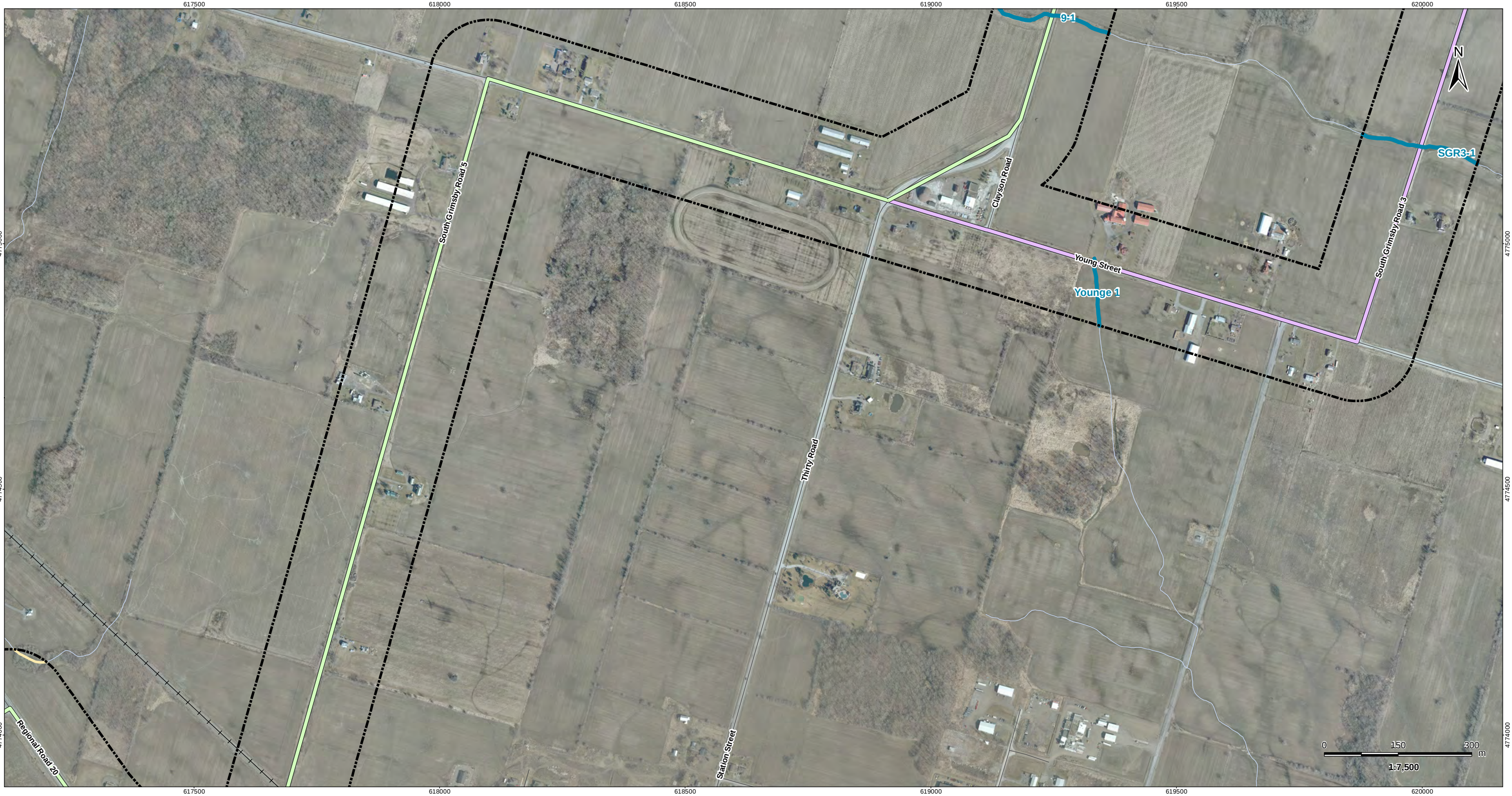
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3.5

Title

Water Bodies
Figure 3.5

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Revised: 2013-03-28 By: p.worsell



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160950269



Legend



Project Study Area
Interconnector Study Area
120m Zone of Investigation

Watercourse (MNR)

Waterbody

Non-waterbody

Proposed Turbine Location

Turbine Blade Length 30m Buffer

Tap-in Location



Transformer Substation Location
Junction Box
Proposed Culvert
Turbine Blade Length
Preferred Transmission Route
Alternate Transmission Route
Temporary Laydown Area
Transformer Substation
Potential Construction Laydown Area

Preferred Transmission Route

Alternate Transmission Route

Temporary Laydown Area

Transformer Substation

Potential Construction Laydown Area

Collector Lines – Underground or Overhead

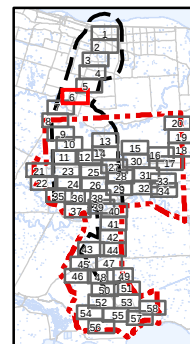
Fibre Optic Line

Potential Access Road

Access Road 20m Construction Area

Notes

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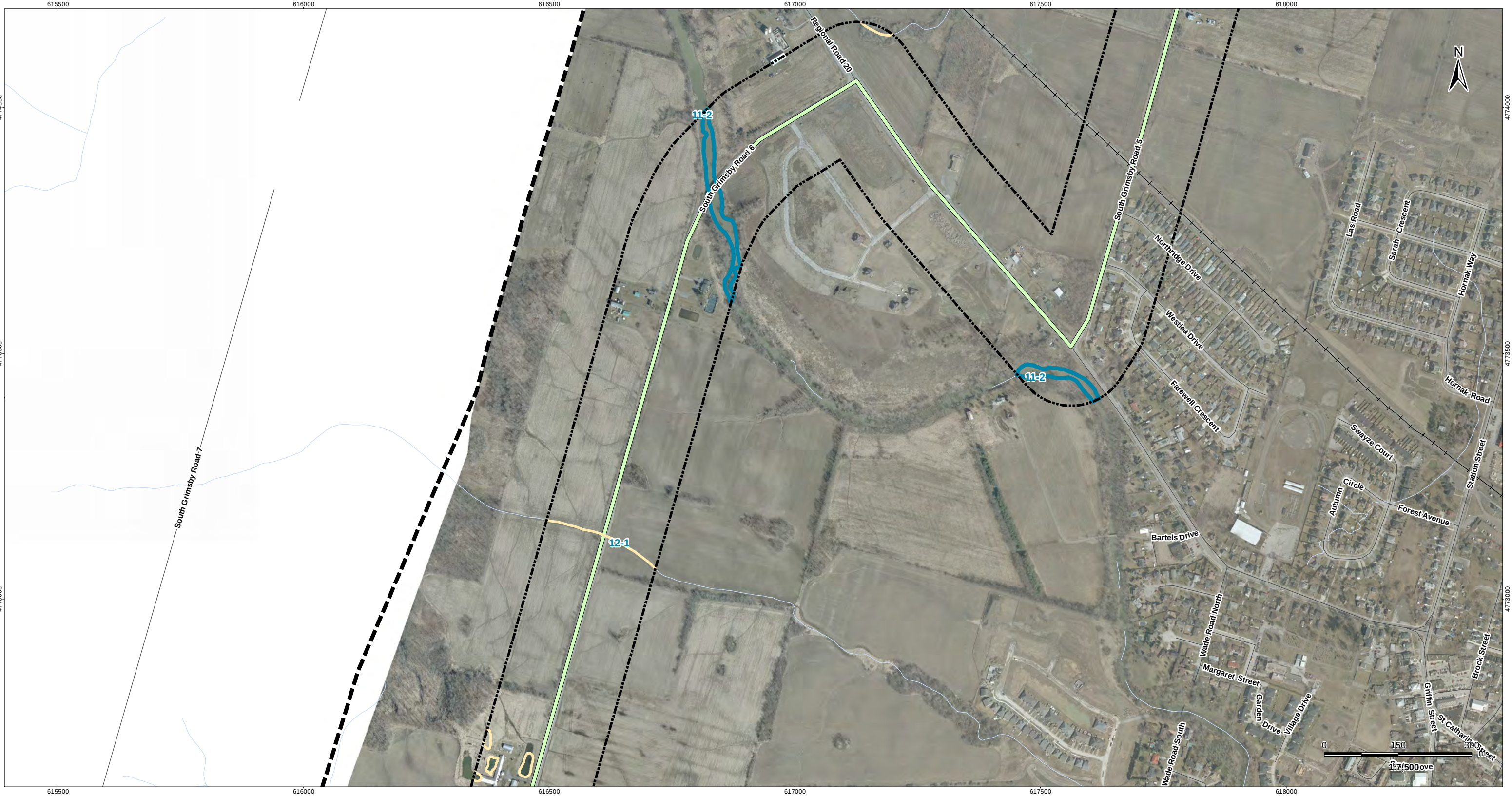
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Title

Water Bodies
Figure 3.6

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Revised: 2013-03-28 By: p.worsell



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160950269



Legend



Watercourse (MNR)

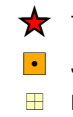
Waterbody

Non-waterbody

Proposed Turbine Location

Turbine Blade Length 30m Buffer

Tap-in Location



Preferred Transmission Route

Alternate Transmission Route

Temporary Laydown Area

Transformer Substation

Potential Construction Laydown Area

Collector Lines – Underground or Overhead

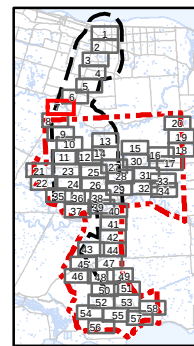
Fibre Optic Line

Potential Access Road

Access Road 20m Construction Area

Notes

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Water Assessment and Waterbody Report

Figure No.

3.7

Title

Water Bodies
Figure 3.7

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Revised: 2013-03-28 By: p.worsell



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160950269



Legend



Project Study Area
Interconnector Study Area
120m Zone of Investigation
Watercourse (MNR)



Waterbody



Non-waterbody

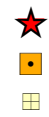


Proposed Turbine Location



Turbine Blade Length 30m Buffer

Tap-in Location



Transformer Substation Location



Junction Box



Proposed Culvert



Turbine Blade Length



Preferred Transmission Route



Alternate Transmission Route



Temporary Laydown Area



Transformer Substation



Potential Construction Laydown Area

Collector Lines – Underground or Overhead

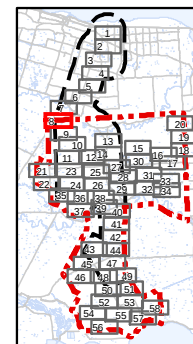
Fibre Optic Line

Potential Access Road

Access Road 20m Construction Area

Notes

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Water Assessment and Waterbody Report

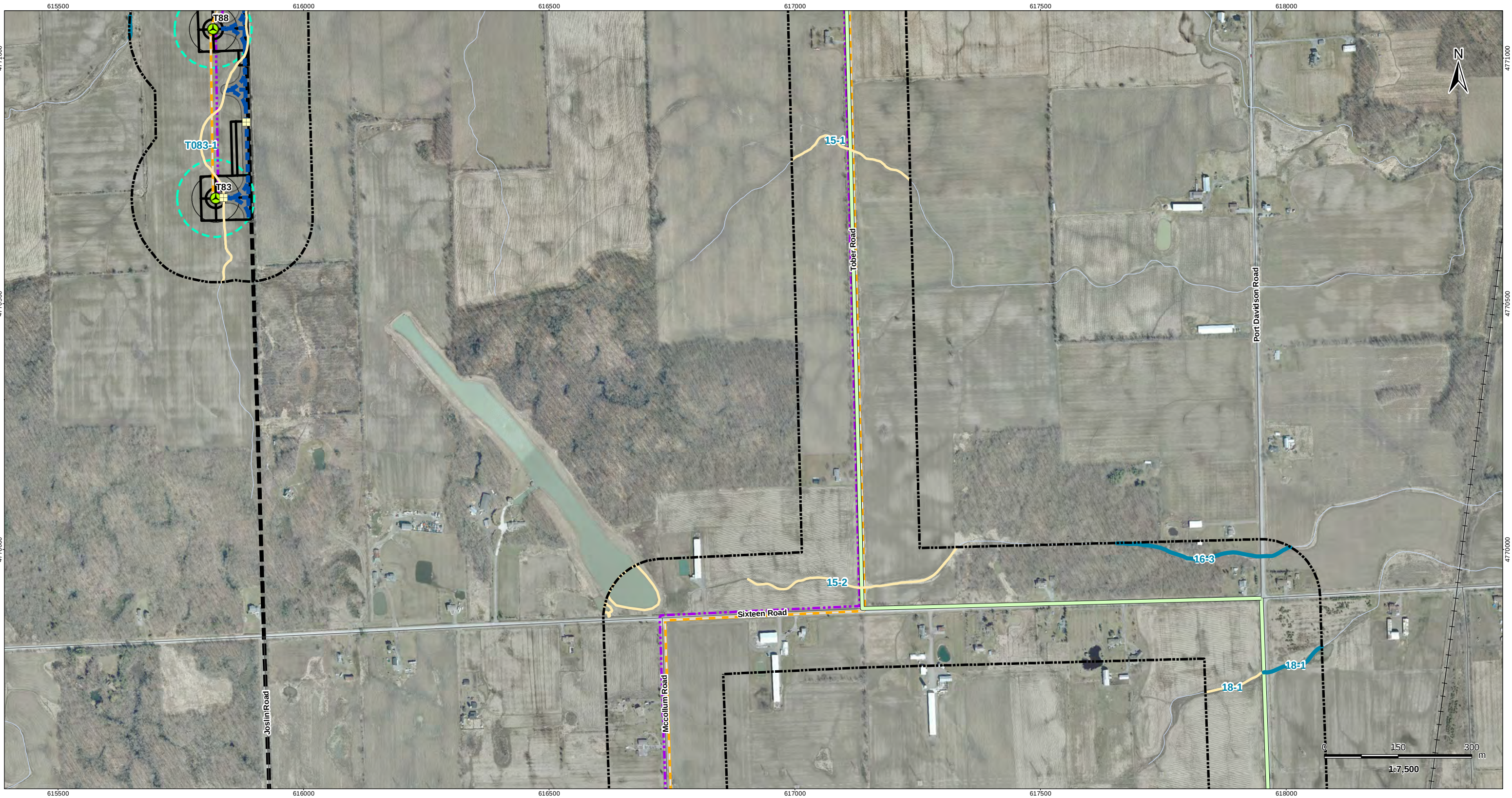
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3.8

Title

Water Bodies
Figure 3.8

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Revised: 2013-03-28 By: p.worsell



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160950269

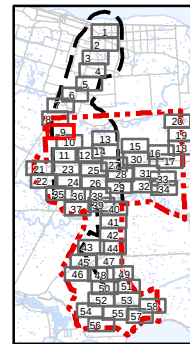


Legend

- | | | |
|---------------------------------|-------------------------------------|---|
| Project Study Area | Transformer Substation Location | Collector Lines – Underground or Overhead |
| Interconnector Study Area | Junction Box | Fibre Optic Line |
| 120m Zone of Investigation | Proposed Culvert | Potential Access Road |
| Watercourse (MNR) | Turbine Blade Length | Access Road 20m Construction Area |
| Waterbody | Preferred Transmission Route | |
| Non-waterbody | Alternate Transmission Route | |
| Proposed Turbine Location | Temporary Laydown Area | |
| Turbine Blade Length 30m Buffer | Transformer Substation | |
| Tap-in Location | Potential Construction Laydown Area | |

Notes

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Figure No.
3.9

Title
Water Bodies
Figure 3.9

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Revised: 2013-03-28 By: p.worsell



March, 2013
160950269



Legend



Project Study Area
Interconnector Study Area
120m Zone of Investigation
Watercourse (MNR)

Waterbody

Non-waterbody

Proposed Turbine Location

Turbine Blade Length 30m Buffer

Tap-in Location



Transformer Substation Location
Junction Box
Proposed Culvert
Turbine Blade Length
Preferred Transmission Route
Alternate Transmission Route
Temporary Laydown Area
Transformer Substation
Potential Construction Laydown Area

Collector Lines – Underground or Overhead

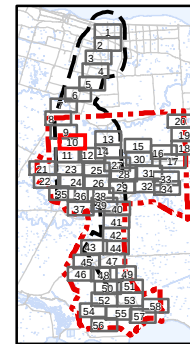
Fibre Optic Line

Potential Access Road

Access Road 20m Construction Area

Notes

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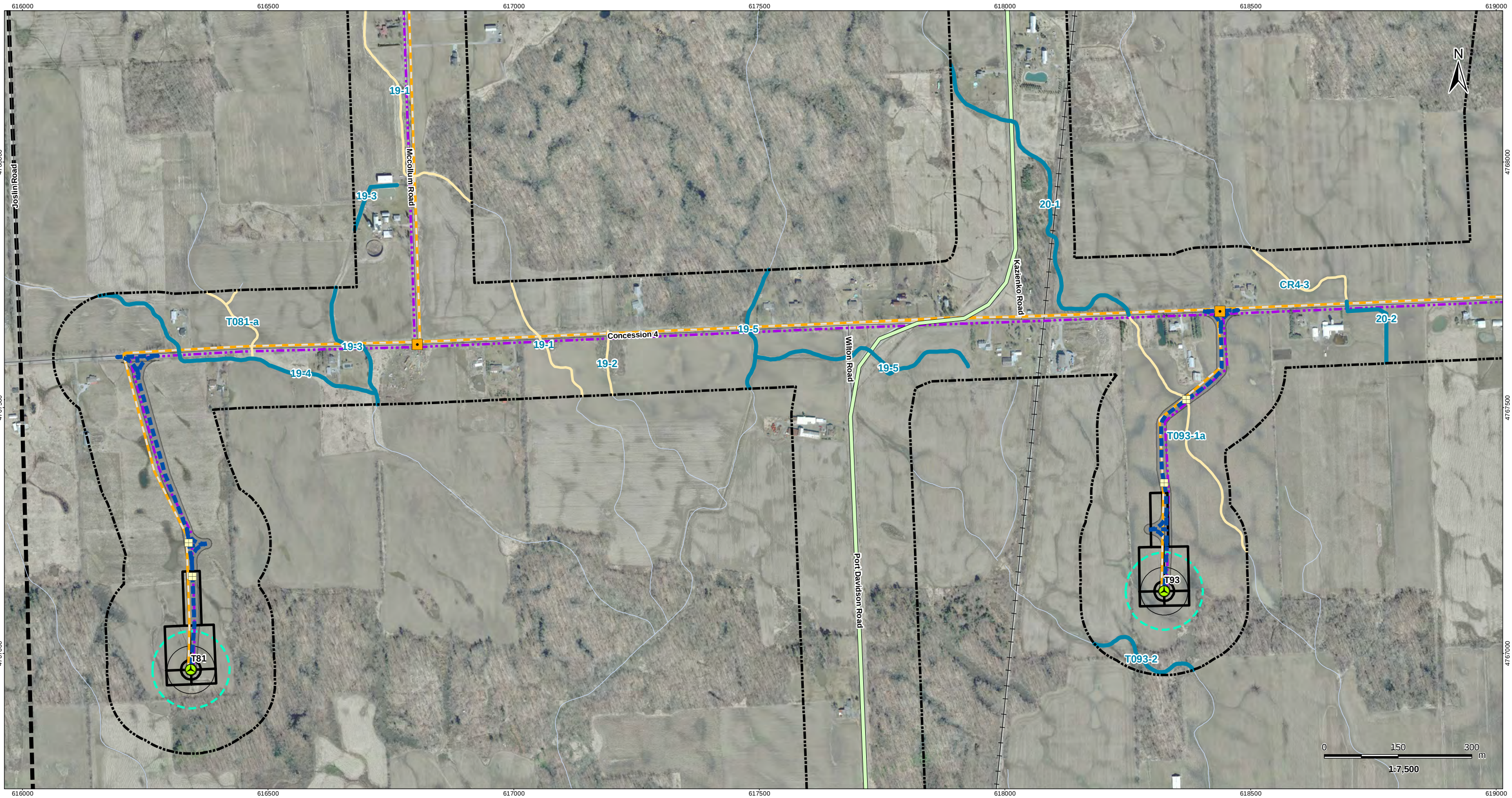
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Title

Water Bodies
Figure 3.10

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Revised: 2013-03-28 By: p.worsell



March, 2013
160950269



Legend

- Project Study Area
- Interconnector Study Area
- 120m Zone of Investigation

Watercourse (MNR)

Waterbody

Non-waterbody

Proposed Turbine Location

Turbine Blade Length 30m Buffer

Tap-in Location

Transformer Substation Location

Junction Box

Proposed Culvert

Turbine Blade Length

Preferred Transmission Route

Alternate Transmission Route

Temporary Laydown Area

Transformer Substation

Potential Construction Laydown Area

Collector Lines – Underground or Overhead

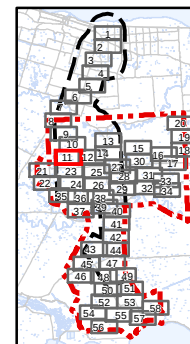
Fibre Optic Line

Potential Access Road

Access Road 20m Construction Area

Notes

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Niagara Region Wind Farm
Water Assessment and Waterbody Report

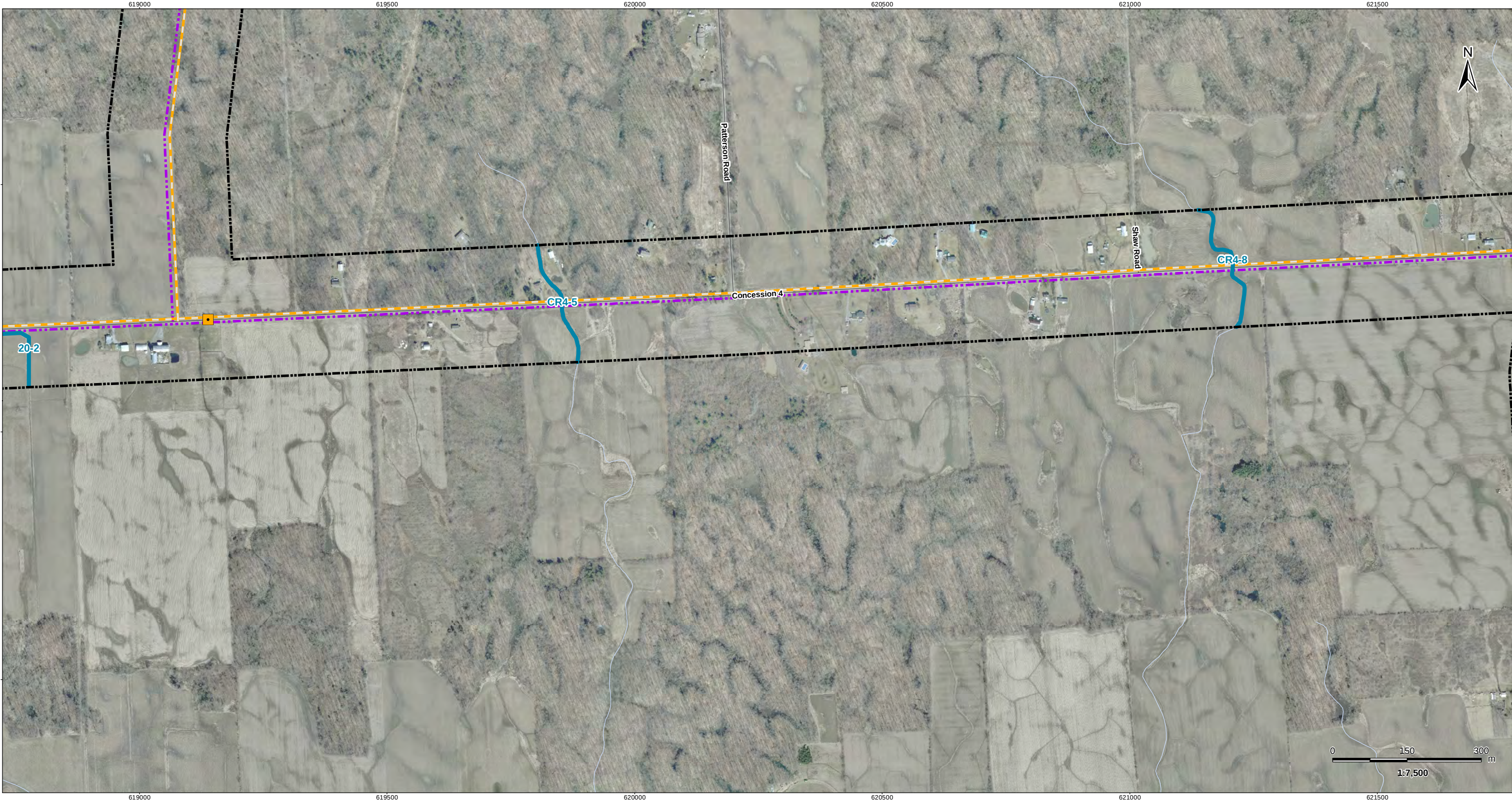
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Title

Water Bodies
Figure 3.11

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Revised: 2013-03-28 By: p.worsell



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160950269



Legend



Project Study Area
Interconnector Study Area
120m Zone of Investigation
Watercourse (MNR)



Waterbody



Non-waterbody



Proposed Turbine Location

Turbine Blade Length 30m Buffer

Tap-in Location



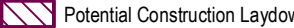
Transformer Substation Location
Junction Box
Proposed Culvert



Turbine Blade Length



Preferred Transmission Route

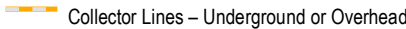


Alternate Transmission Route

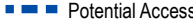
Temporary Laydown Area

Transformer Substation

Potential Construction Laydown Area



Collector Lines – Underground or Overhead



Fibre Optic Line



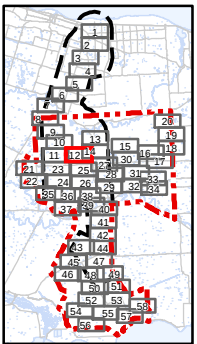
Potential Access Road



Access Road 20m Construction Area

Notes

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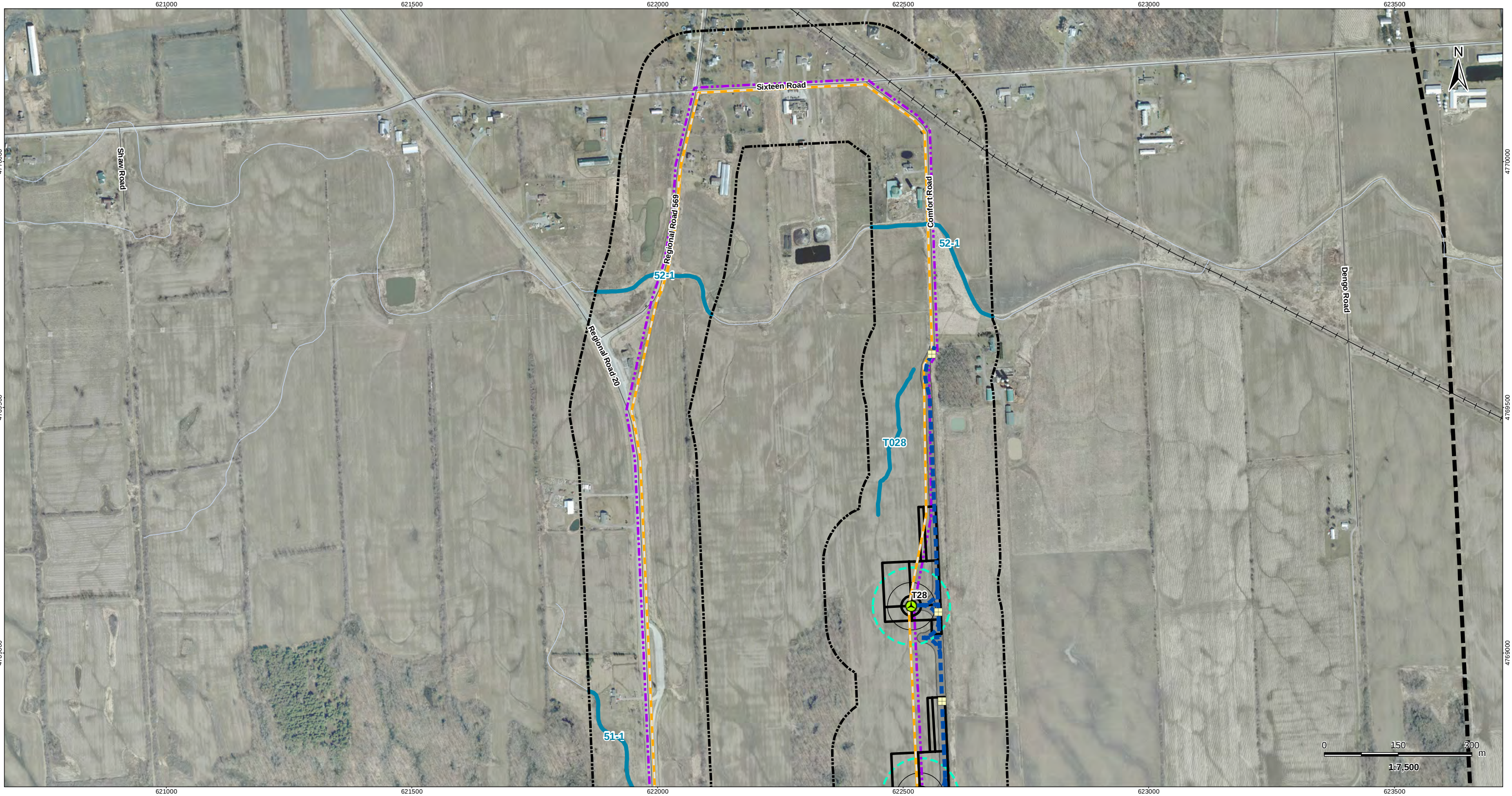


Client/Project
Niagara Region Wind Corporation
Niagara Region Wind Farm
Water Assessment and Waterbody Report

Figure No.
3.12

Title
Water Bodies
Figure 3.12

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Revised: 2013-03-28 By: p.worsell



March, 2013
160950269

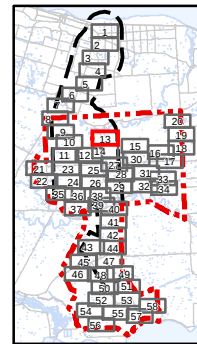


Legend

- | | | |
|---------------------------------|-------------------------------------|---|
| Project Study Area | Transformer Substation Location | Collector Lines – Underground or Overhead |
| Interconnector Study Area | Junction Box | Fibre Optic Line |
| 120m Zone of Investigation | Proposed Culvert | Potential Access Road |
| Watercourse (MNR) | Turbine Blade Length | Access Road 20m Construction Area |
| Waterbody | Preferred Transmission Route | |
| Non-waterbody | Alternate Transmission Route | |
| Proposed Turbine Location | Temporary Laydown Area | |
| Turbine Blade Length 30m Buffer | Transformer Substation | |
| Tap-in Location | Potential Construction Laydown Area | |

Notes

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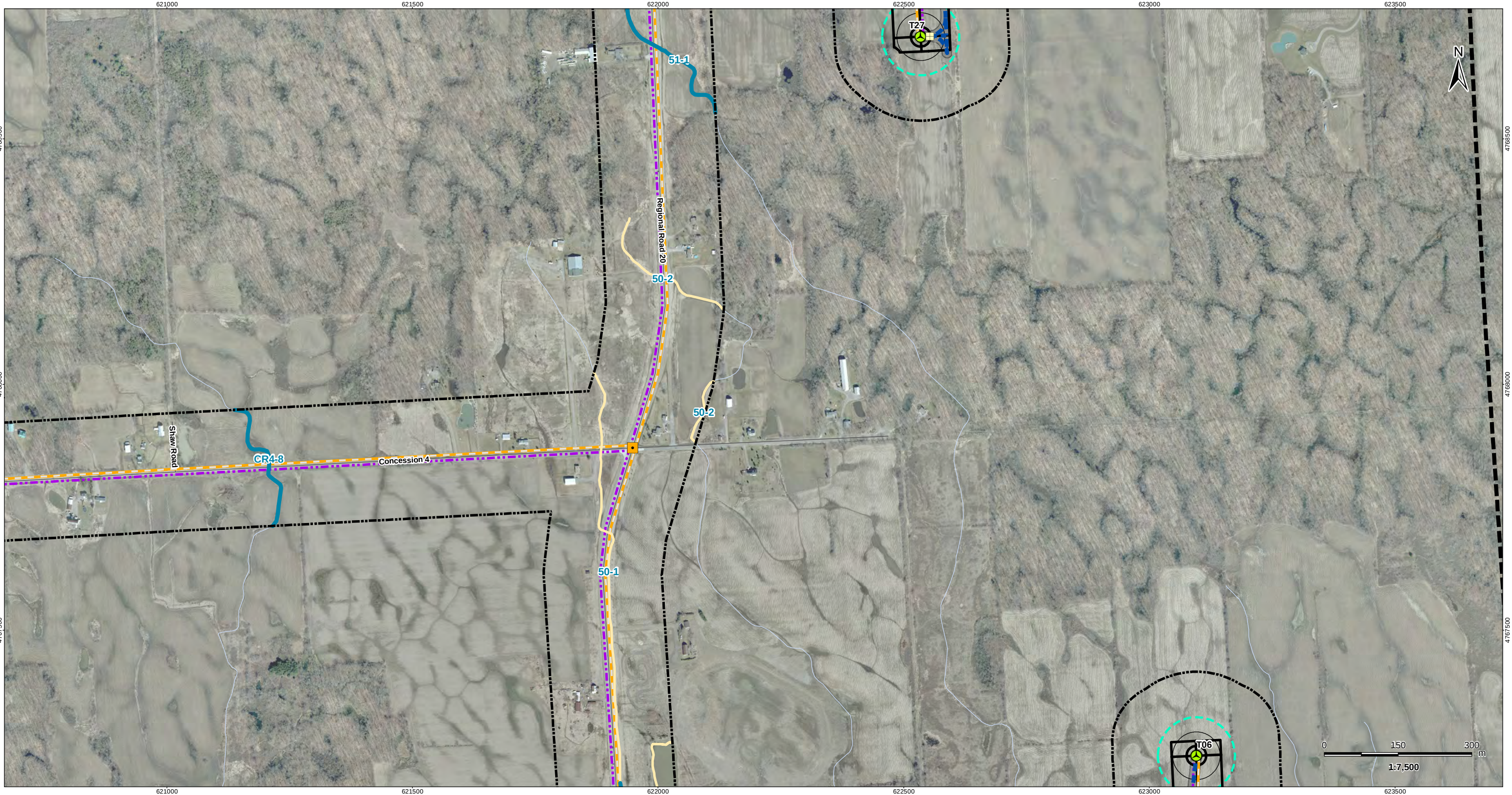


Client/Project
Niagara Region Wind Corporation
Niagara Region Wind Farm
Water Assessment and Waterbody Report

Figure No.
3.13

Title
Water Bodies
Figure 3.13

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Revised: 2013-03-28 By: p.worsell



March, 2013
160950269



Legend



- Project Study Area
- Interconnector Study Area
- 120m Zone of Investigation
- Watercourse (MNR)
- Waterbody
- Non-waterbody
- Proposed Turbine Location
- Turbine Blade Length 30m Buffer
- Tap-in Location

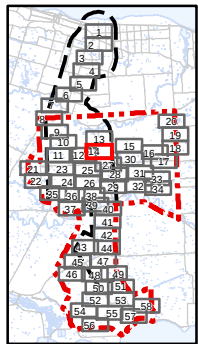


- Transformer Substation Location
- Junction Box
- Proposed Culvert
- Turbine Blade Length
- Preferred Transmission Route
- Alternate Transmission Route
- Temporary Laydown Area
- Transformer Substation
- Potential Construction Laydown Area

- Collector Lines – Underground or Overhead
- Fibre Optic Line
- Potential Access Road
- Access Road 20m Construction Area

Notes

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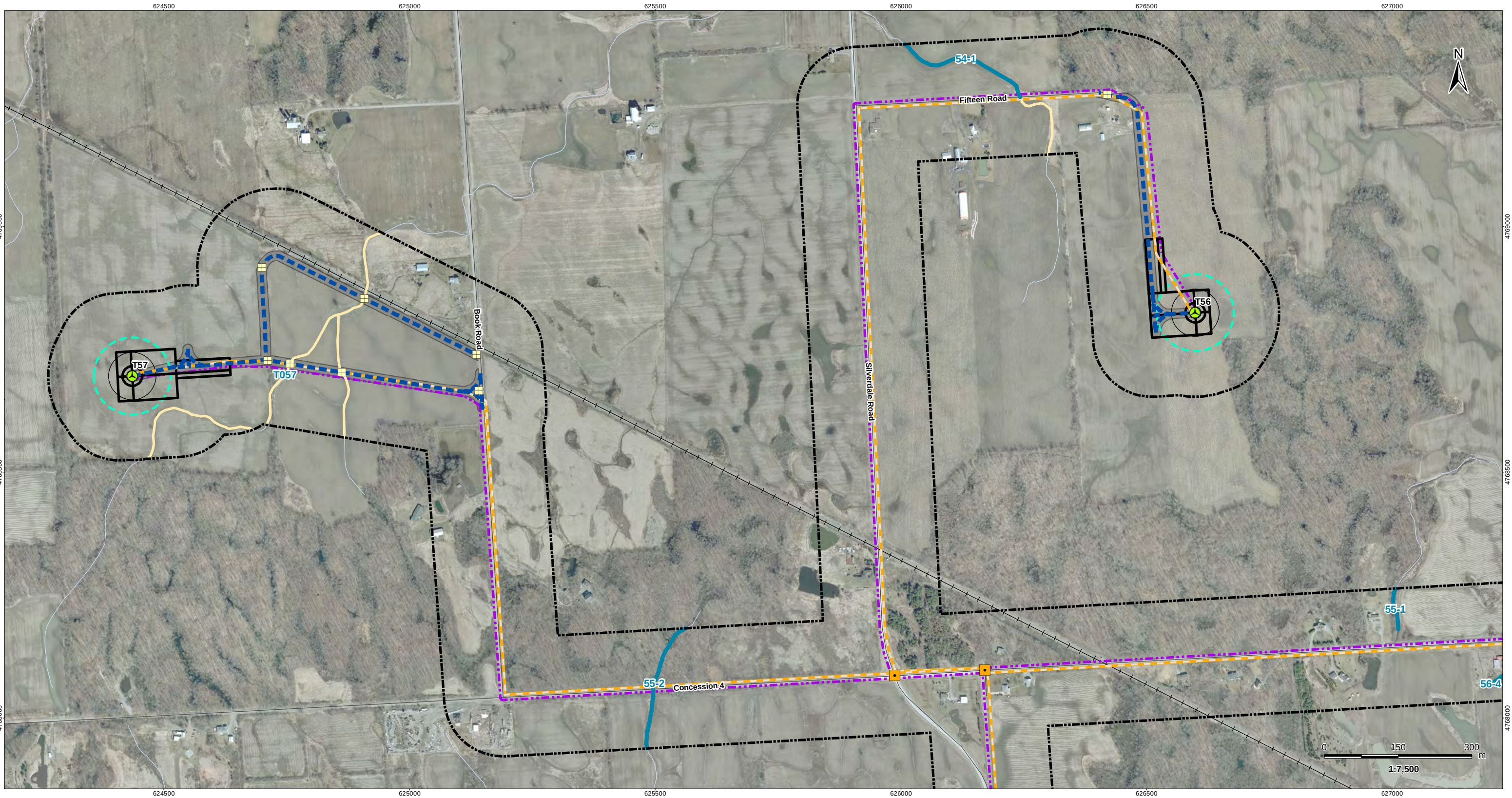


Client/Project
Niagara Region Wind Corporation
Niagara Region Wind Farm
Water Assessment and Waterbody Report

Figure No.
3.14

Title
Water Bodies
Figure 3.14

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Revised: 2013-03-28 By: p.worsell



March, 2013
160950269

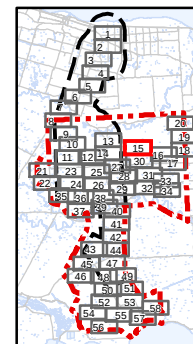


Legend

- | | | |
|---------------------------------|-------------------------------------|---|
| Project Study Area | Transformer Substation Location | Collector Lines – Underground or Overhead |
| Interconnector Study Area | Junction Box | Fibre Optic Line |
| 120m Zone of Investigation | Proposed Culvert | Potential Access Road |
| Watercourse (MNR) | Turbine Blade Length | Access Road 20m Construction Area |
| Waterbody | Preferred Transmission Route | |
| Non-waterbody | Alternate Transmission Route | |
| Proposed Turbine Location | Temporary Laydown Area | |
| Turbine Blade Length 30m Buffer | Transformer Substation | |
| Tap-in Location | Potential Construction Laydown Area | |

Notes

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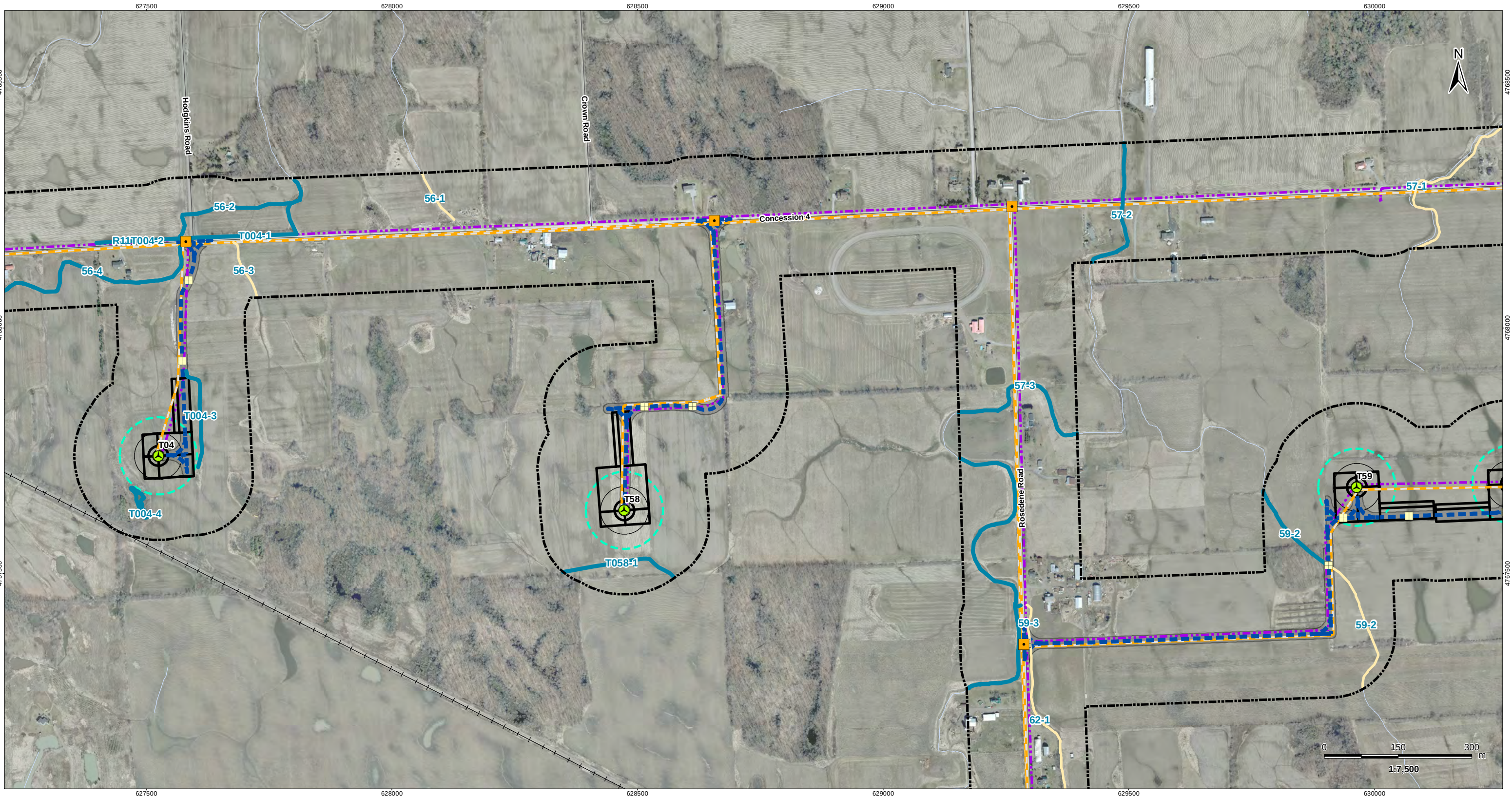


Client/Project
Niagara Region Wind Corporation
Niagara Region Wind Farm
Water Assessment and Waterbody Report

Figure No.
3.15

Title
Water Bodies
Figure 3.15

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Revised: 2013-03-28 By: p.worsell



March, 2013
160950269



Legend



Watercourse (MNR)

Waterbody

Non-waterbody

Proposed Turbine Location

Turbine Blade Length 30m Buffer

Tap-in Location



Transformer Substation Location



Junction Box



Proposed Culvert



Turbine Blade Length



Preferred Transmission Route



Alternate Transmission Route



Temporary Laydown Area



Transformer Substation



Potential Construction Laydown Area



Collector Lines – Underground or Overhead



Fibre Optic Line



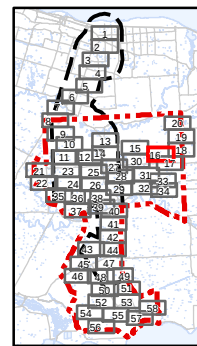
Potential Access Road



Access Road 20m Construction Area

Notes

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Client/Project

Niagara Region Wind Corporation
Niagara Region Wind Farm
Water Assessment and Waterbody Report

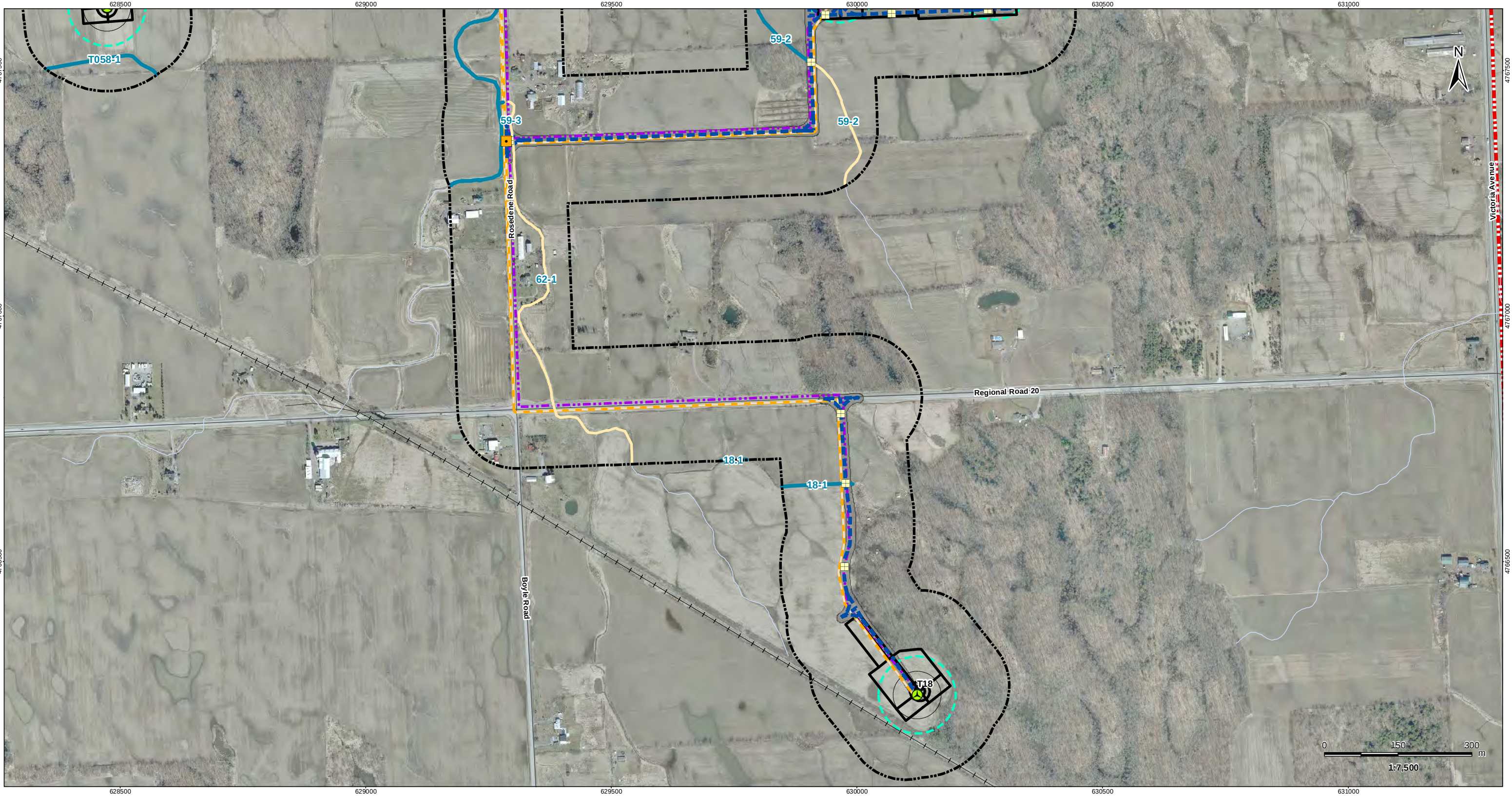
Figure No.

3.16

Title

Water Bodies
Figure 3.16

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Revised: 2013-04-17 By: bowper



April, 2013
160950269

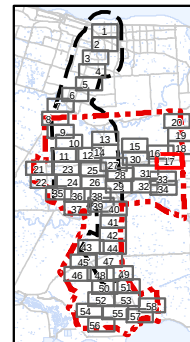


Legend

- | | | | | | |
|--|----------------------------|--|---------------------------------|--|---|
| | Project Study Area | | Turbine Blade Length 30m Buffer | | Transformer Substation |
| | Interconnector Study Area | | Turbine Blade Length | | Potential Construction Laydown Area |
| | 120m Zone of Investigation | | Tap-in Location | | Collector Lines – Underground or Overhead |
| | Watercourse (MNR) | | Transformer Substation Location | | Fibre Optic Line |
| | Waterbody | | Junction Box | | Potential Access Road |
| | Non-waterbody | | Proposed Culvert | | Access Road 20m Construction Area |
| | Proposed Turbine Location | | Preferred Transmission Route | | |
| | | | Alternate Transmission Route | | |
| | | | Temporary Laydown Area | | |

Notes

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Niagara Region Wind Corporation
Niagara Region Wind Farm
Water Assessment and Waterbody Report

Figure No.

3.17

Title

Water Bodies
Figure 3.17