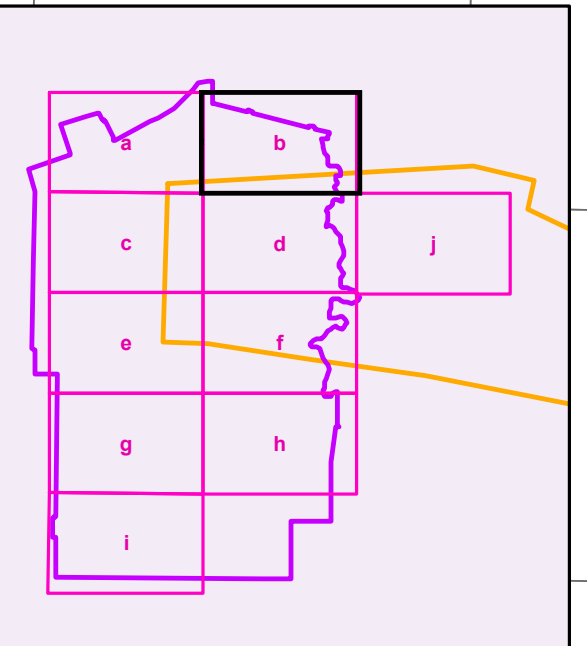


- Legend**
- Transmission Line Study Area
 - Wind Energy Centre Study Area
 - 120m Area of Investigation
 - Municipal Division
 - Railway
 - Watercourse (ABCA, SCRCA)
- Project Location**
- GE Turbine
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- Non-REA
 - REA
 - Unknown



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Metres

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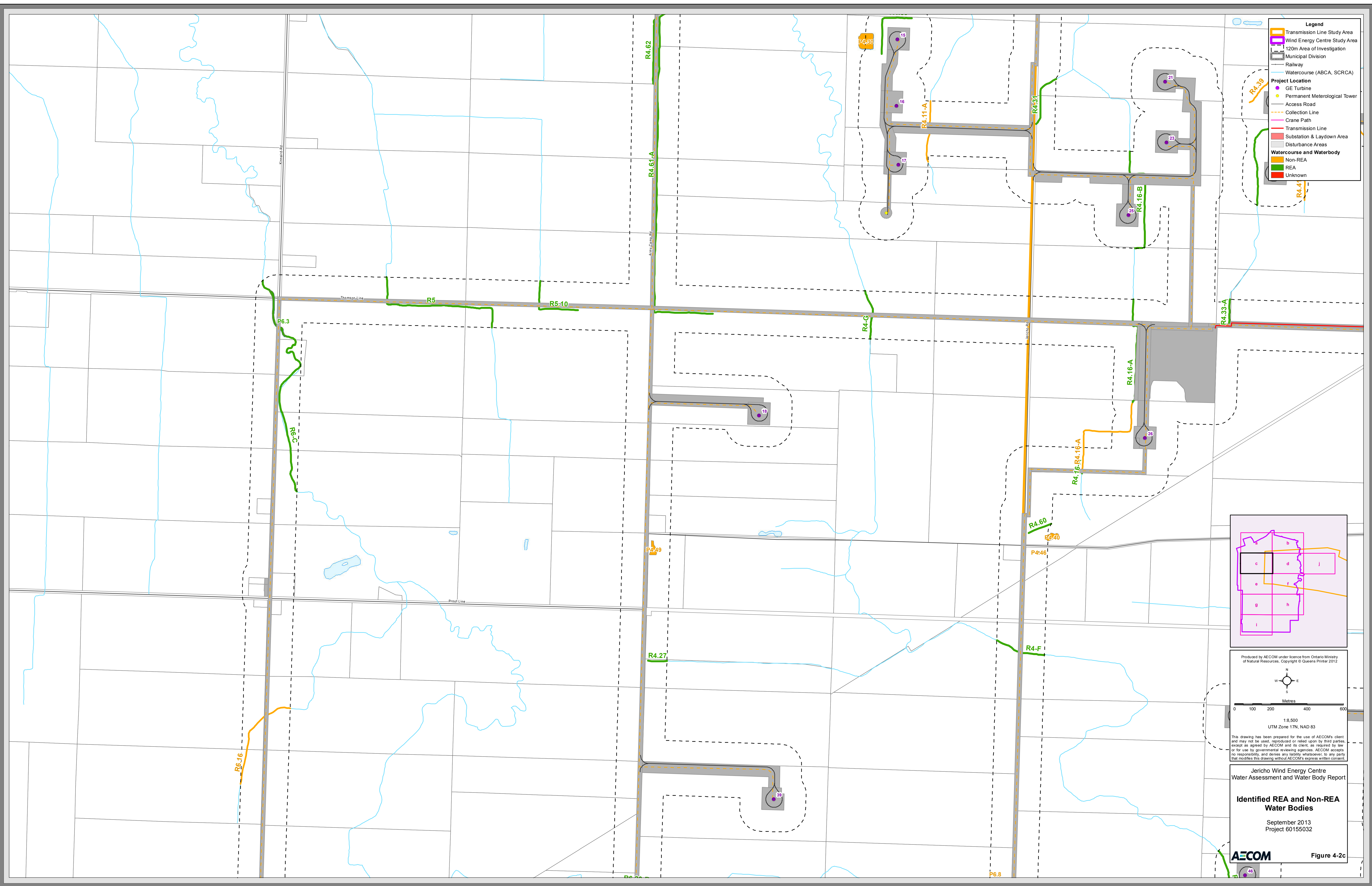
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UTM Zone 17N, NAD 83

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Jericho Wind Energy Centre
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Legend

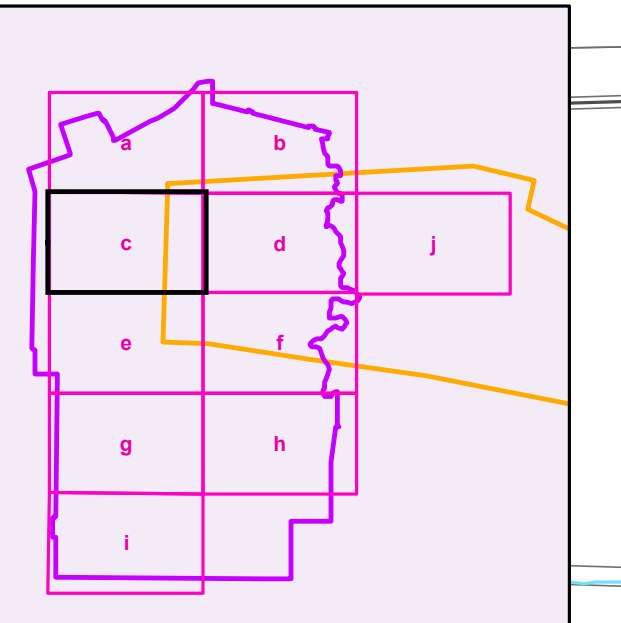
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Watercourse and Waterbody

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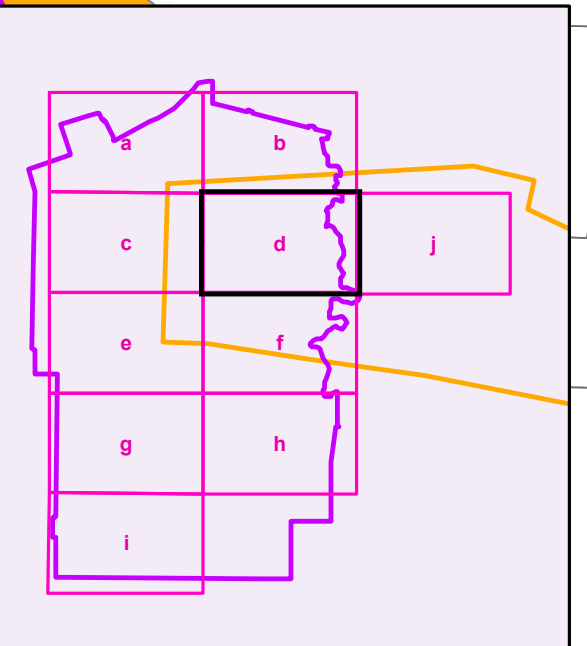
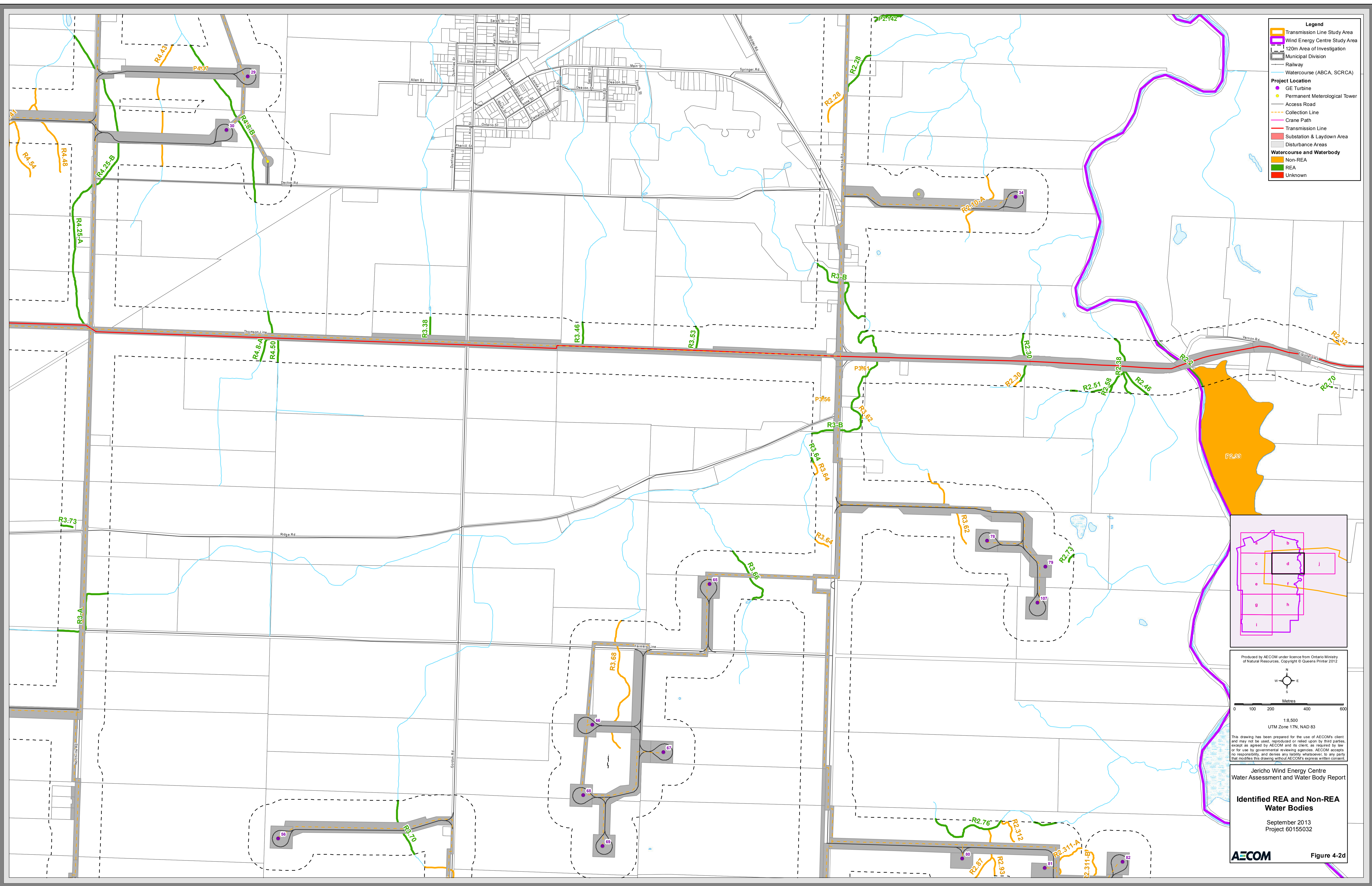
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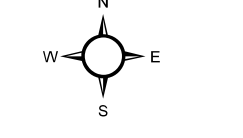
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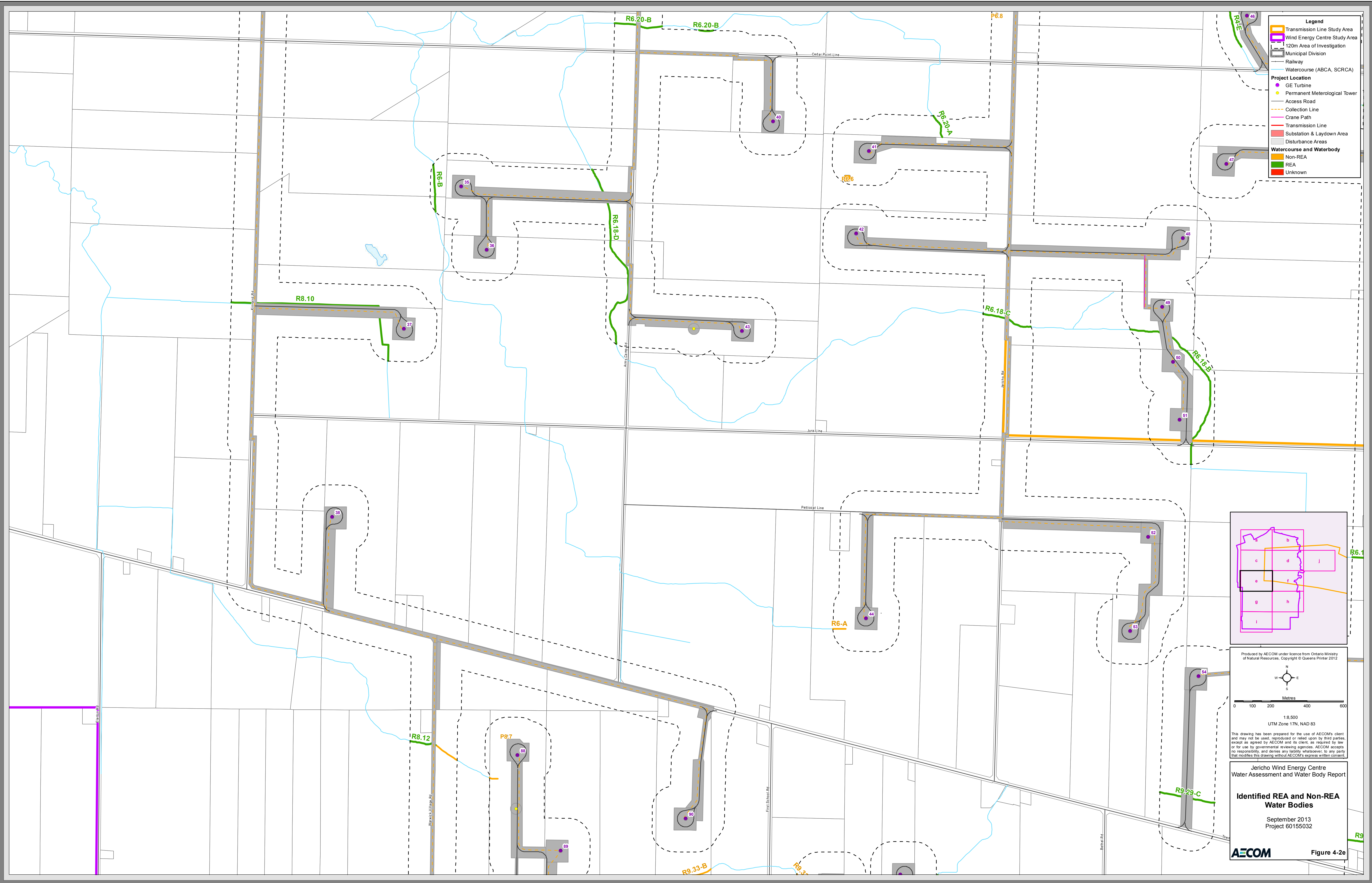
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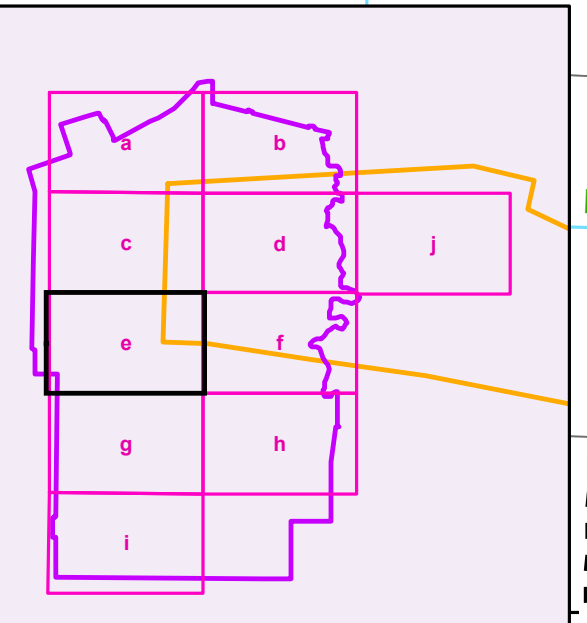
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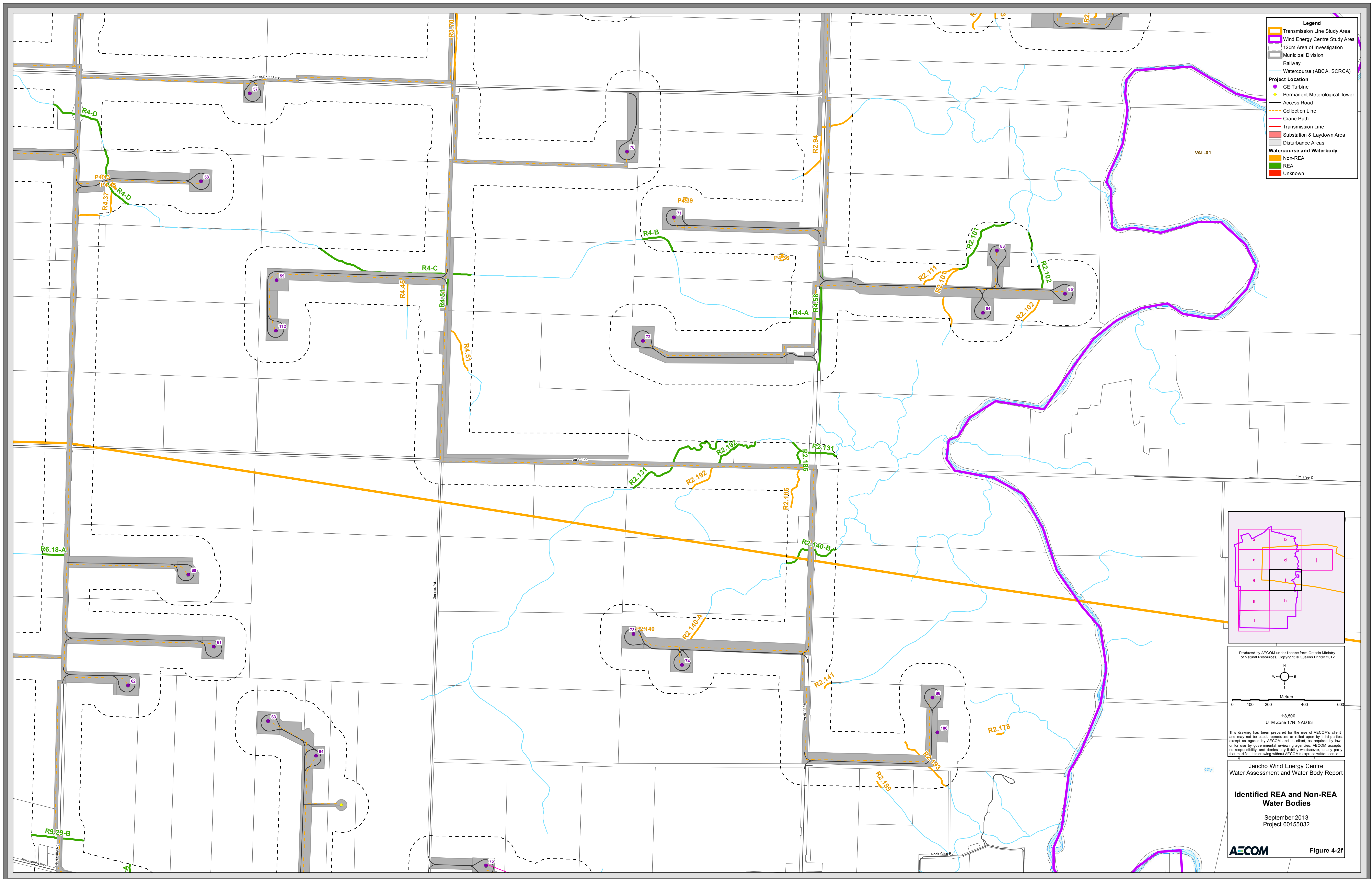
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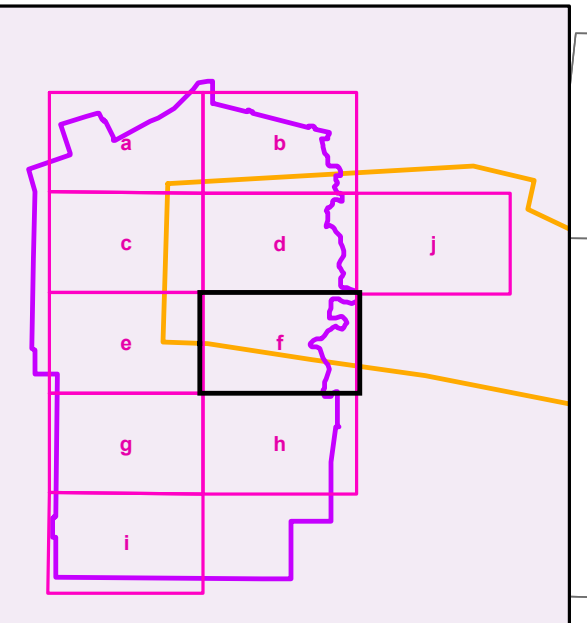
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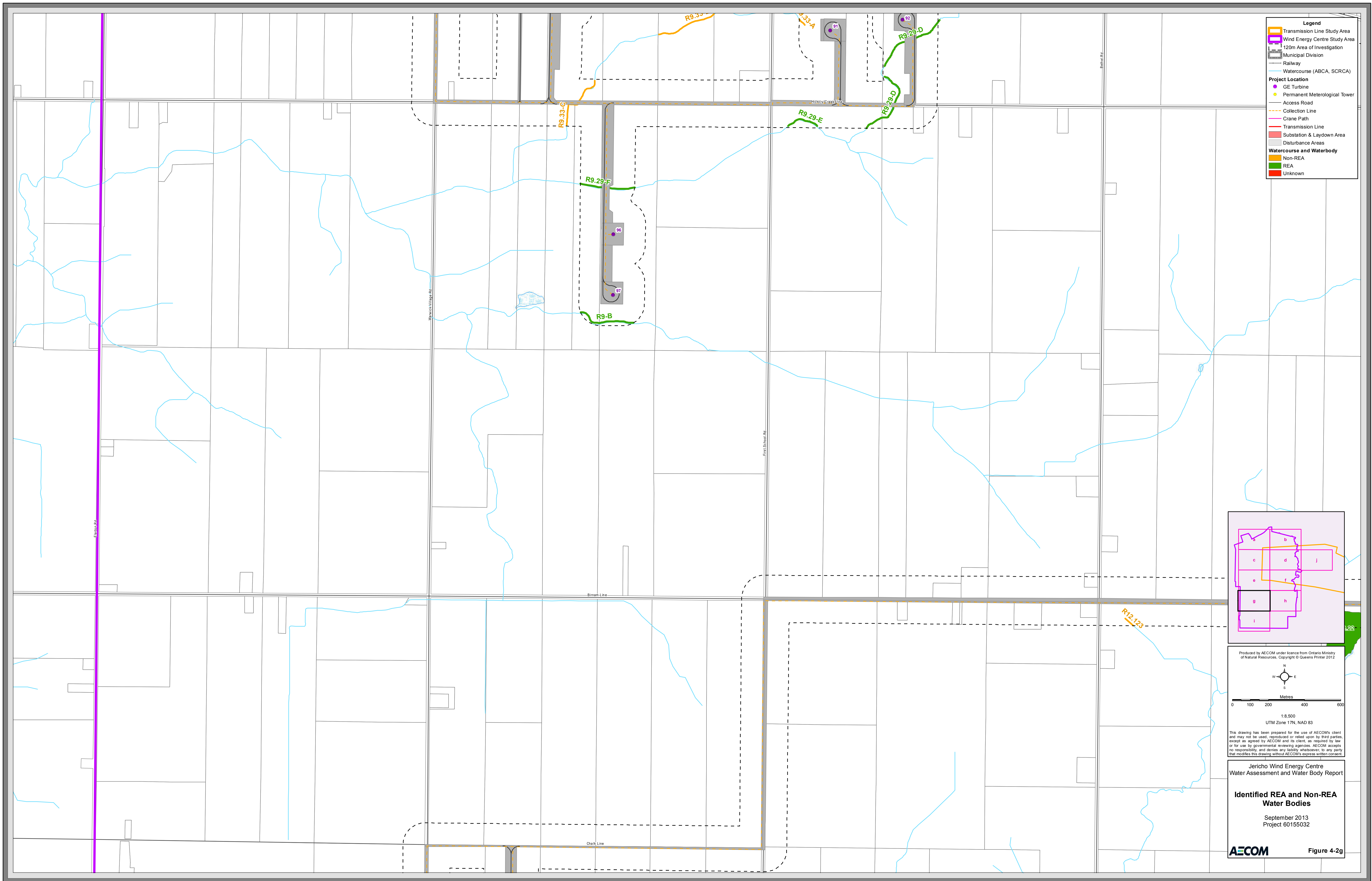
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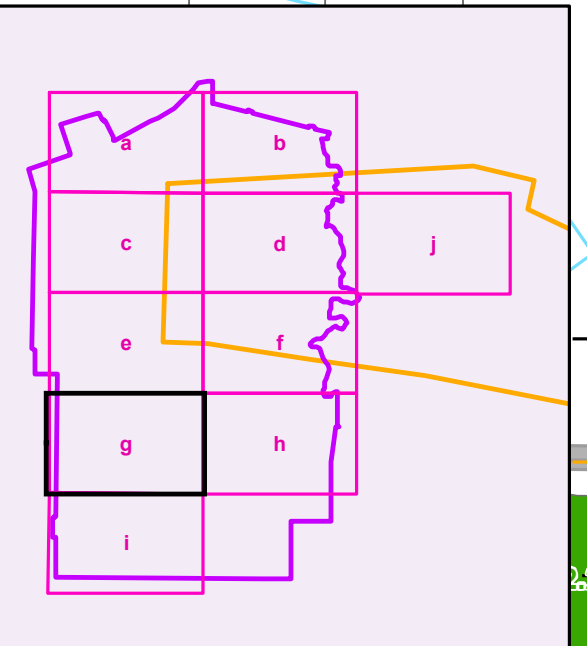
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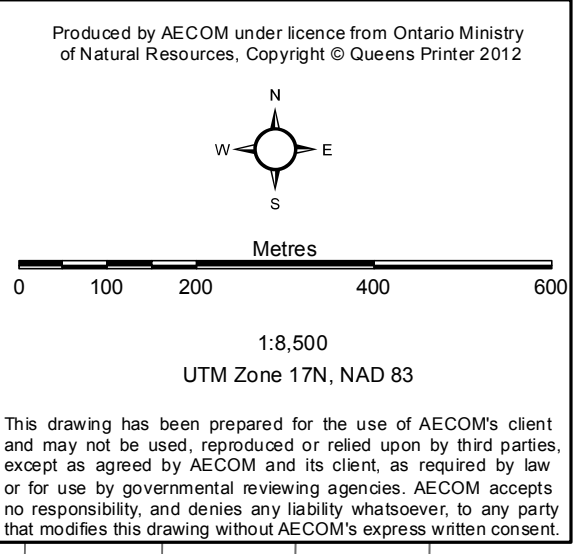
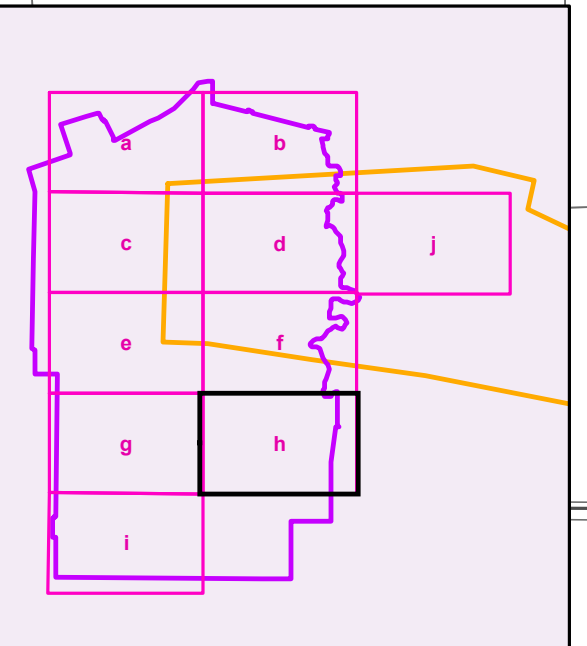
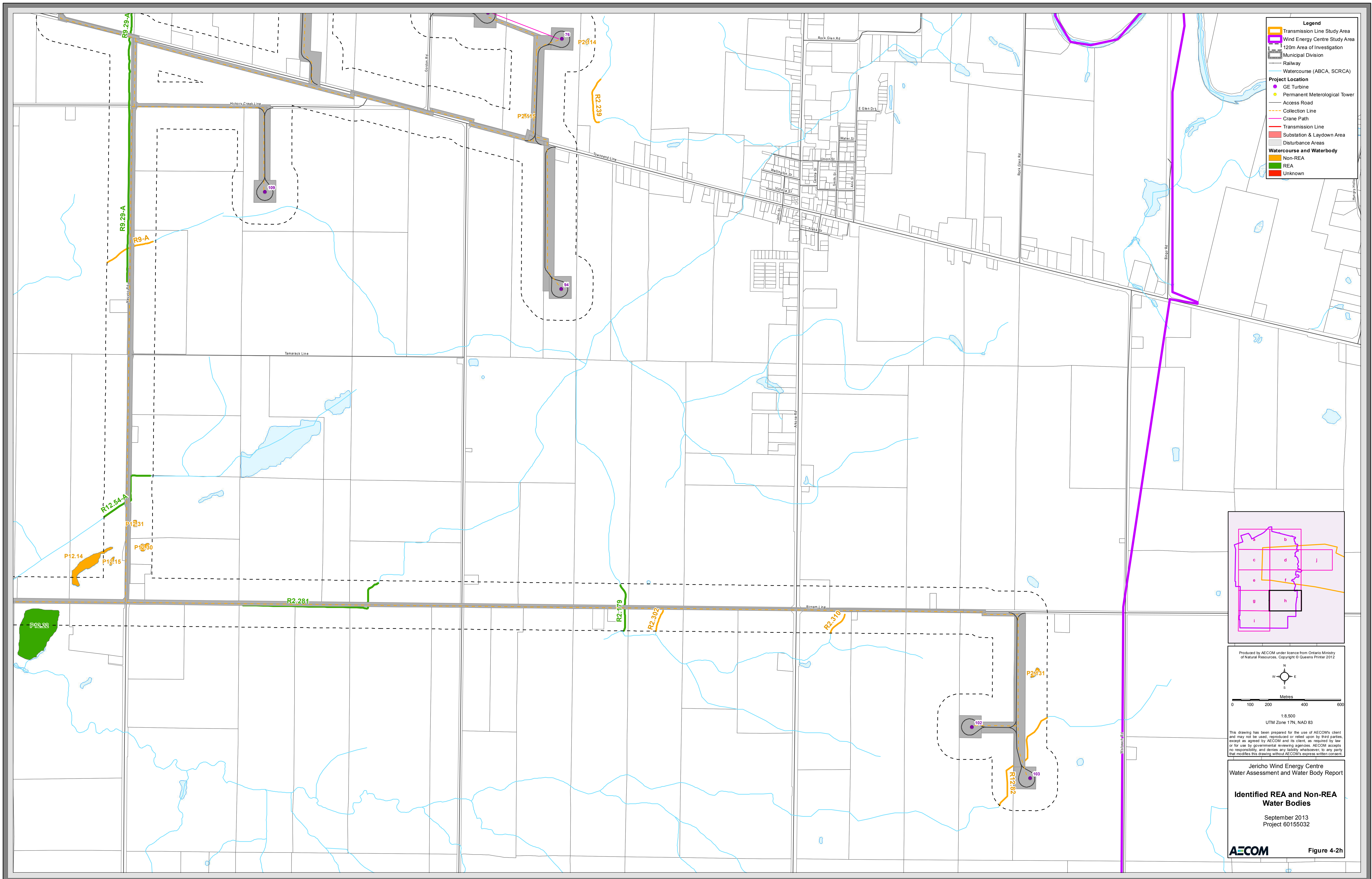
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Jericho Wind Energy Centre
Water Assessment and Water Body Report

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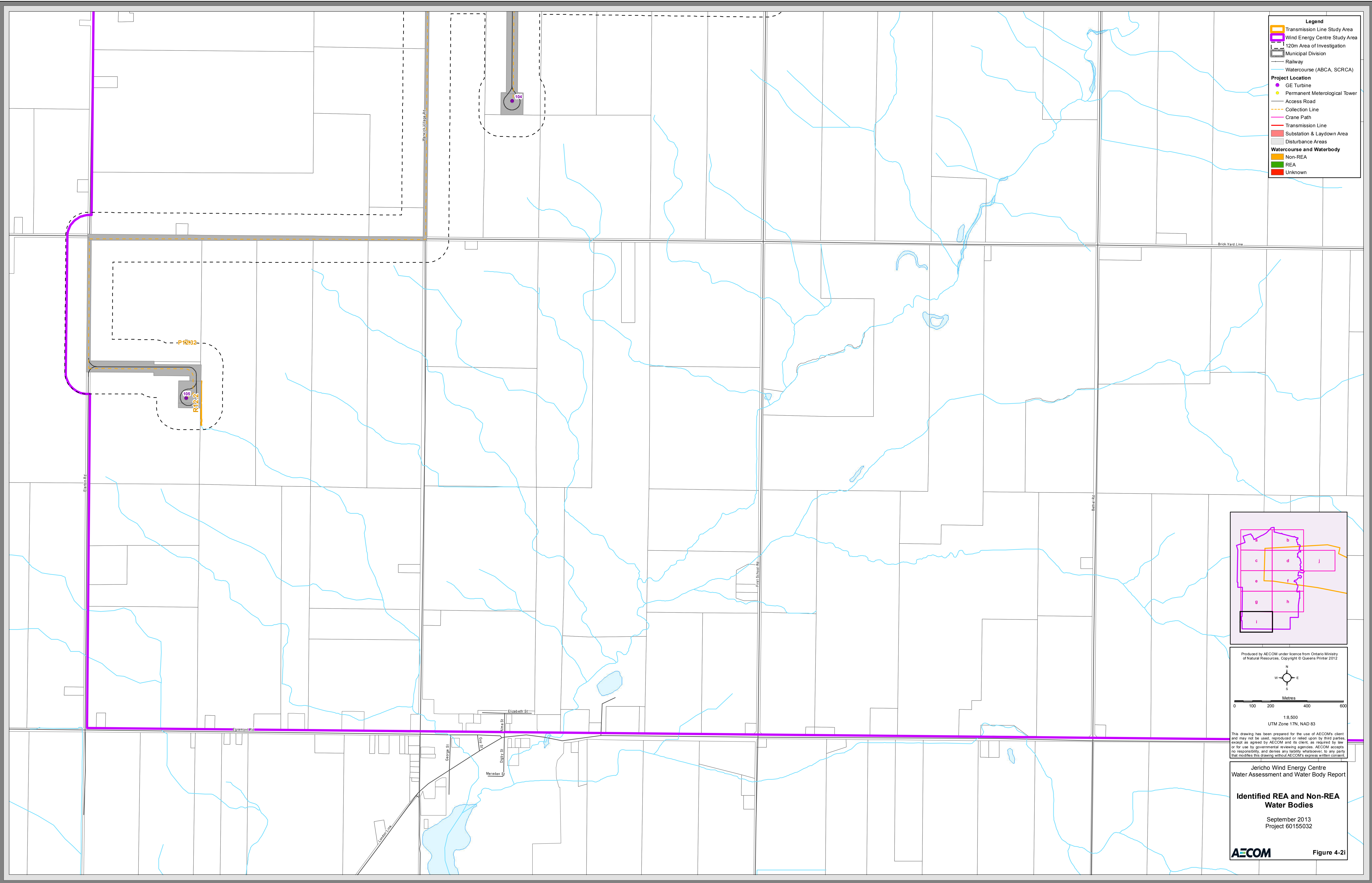
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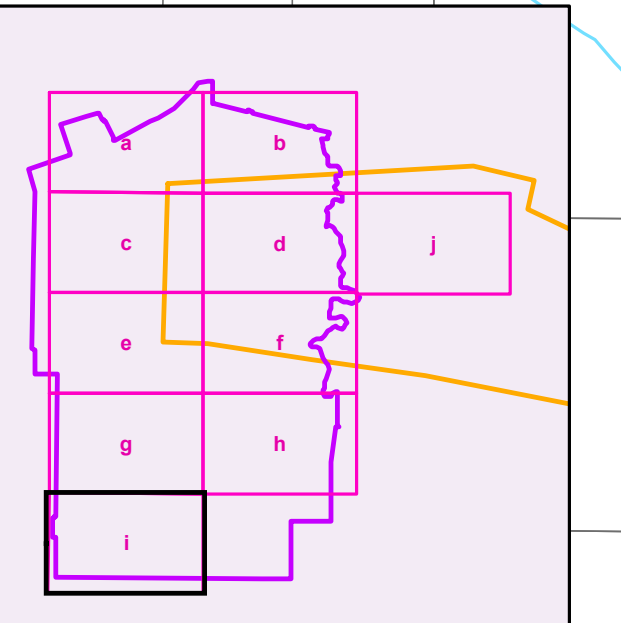
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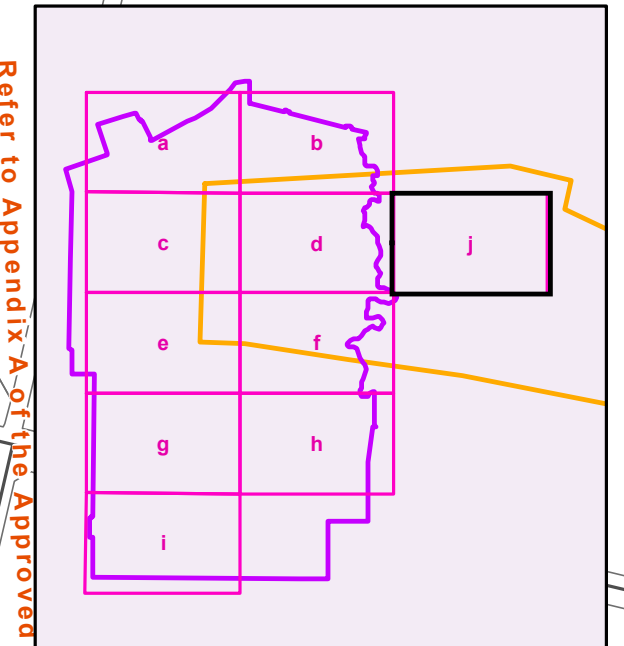
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Refer to Appendix A of the Approved NEMA Report

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Jericho Wind Energy Centre
Water Assessment and Water Body Report


**Identified REA and Non-REA
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Appendix D

Additional Site Investigations Summary Table

| Feature ID | Project Component | Investigation Date | Description of Site | Feature Descriptions | Feature Sensitivity | | | | | | | | | | | | | | | | |
|---------------------------------|---|--|--|-----------------------|----------------------|---------------------------------|---|--|--|----------------|----------------|---|----------------|-----|--|----------------|----------------|------|----------------|-----|----------|
| R4.16-D | <ul style="list-style-type: none"> Road Buffer Turbine buffer Collection Line Buffer | June 20, 2013 | <ul style="list-style-type: none"> The watercourse flows through a deciduous forest stand that runs parallel Bog Line, then meets with another tributary and crosses under Lakeshore Rd.; becoming channelized as it runs through agricultural fields. No tile drain inputs were noted at time of investigations. The watercourse is located in a relatively flat and uniform landscape with low sloping banks. Riparian buffer remains consistent at approx. 30m on either side. As the watercourse flows downstream there are areas that narrow then open up to wide pools. <table border="1" data-bbox="688 581 1213 643"> <tr> <td>Waterbody Name</td> <td>Elliot McBryan Drain</td> </tr> <tr> <td>DFO Drain Classification</td> <td>C</td> </tr> </table> | Waterbody Name | Elliot McBryan Drain | DFO Drain Classification | C | <ul style="list-style-type: none"> This watercourse is defined historically as a channelized feature but has slowly naturalized. The watercourse is flat with some pooled areas. The water was slightly turbid, warm and had very low flow at time of investigation that at times could be an obstruction to fish passage. The banks were stable, and fairly vegetated. Substrate consists mostly of sand, with muck, clay and silt. Canopy cover is high consisting mostly of trees with some understory shrubs and grasses. Instream cover is high and consists of aquatic vegetation and some woody debris. School of young of year fish and tadpoles were observed during time of investigation. <table border="1" data-bbox="1247 639 1472 724"> <tr> <td></td> <td>R4.16-D</td> </tr> <tr> <td>MWW(m):</td> <td>2</td> </tr> <tr> <td>MBW(m):</td> <td>4.5</td> </tr> </table> <table border="1" data-bbox="1499 639 1724 724"> <tr> <td></td> <td>R4.16-D</td> </tr> <tr> <td>MWD(m):</td> <td>0.15</td> </tr> <tr> <td>MBD(m):</td> <td>0.5</td> </tr> </table> | | R4.16-D | MWW(m): | 2 | MBW(m): | 4.5 | | R4.16-D | MWD(m): | 0.15 | MBD(m): | 0.5 | Moderate |
| Waterbody Name | Elliot McBryan Drain | | | | | | | | | | | | | | | | | | | | |
| DFO Drain Classification | C | | | | | | | | | | | | | | | | | | | | |
| | R4.16-D | | | | | | | | | | | | | | | | | | | | |
| MWW(m): | 2 | | | | | | | | | | | | | | | | | | | | |
| MBW(m): | 4.5 | | | | | | | | | | | | | | | | | | | | |
| | R4.16-D | | | | | | | | | | | | | | | | | | | | |
| MWD(m): | 0.15 | | | | | | | | | | | | | | | | | | | | |
| MBD(m): | 0.5 | | | | | | | | | | | | | | | | | | | | |
| Photos | |  <p data-bbox="688 1222 1003 1252">Photograph 1. Site overview ↑</p> | | | | | | | | | | | | | | | | | | | |

| Feature ID | Project Component | Investigation Date | Description of Site | Feature Descriptions | Feature Sensitivity |
|------------|---|--------------------|--|--|---------------------|
| P4.51 | <ul style="list-style-type: none"> • Road Buffer • Turbine 4 buffer • Collection Line buffer | June 20, 2013 | <ul style="list-style-type: none"> • This pond is located adjacent to agricultural fields. It is a natural depression that may have been altered by land owner. It is surrounded by scrub land that transitions into a deciduous forest stand. Its estimated size is 75m by 50m and its depth is unknown. | <ul style="list-style-type: none"> • The pond is a semi dugout and as shown on aerial imagery, has a tributary that flows out of it towards the east and into Unknown tributary. Visible in-situ cover is low and consists of aquatic vegetation (cattails visible). Substrate unknown. | Non-REA |
| | | Photos |  <p data-bbox="690 870 1005 898">Photograph 1. Site overview ↑</p> | | |

| Feature ID | Project Component | Investigation Date | Description of Site | Feature Descriptions | Feature Sensitivity | | | | | | | | | | | | | | | | |
|---------------------------------|--|--------------------|--|-------------------------|---------------------|---------------------------------|---|--|--|---------------|--|---------------|----------------|---|----------------|------|----------------|---|----------------|---|----------|
| R3-C-1 | <ul style="list-style-type: none"> Collection Line Buffer | June 19, 2013 | <ul style="list-style-type: none"> This watercourse runs adjacent to a deciduous forest along Gordon Road, then crosses (south of Widder Road) and runs northwest through the same forest stand. It is channelized along the road then turns into a natural channel after crossing. After road crosses this water course is a natural meandering system with a moderately vegetated bank. The surrounding landscape is slightly sloped and has moderately dense canopy cover. <table border="1" data-bbox="730 529 1178 586"> <tr> <td>Watercourse Name</td> <td>Decker Creek</td> </tr> <tr> <td>DFO Drain Classification</td> <td>F</td> </tr> </table> | Watercourse Name | Decker Creek | DFO Drain Classification | F | <ul style="list-style-type: none"> The watercourse is a partially channelized feature that turns into a natural channel downstream. The watercourse is flat with some pooled areas and a natural riffle run sequence. The water was clear and had very slow flow at the time of investigation. Water was cool, with moderate water quality. The banks were slightly unstable and evidence of erosion was observed. Substrate consists mostly of clay, silt and sand with some cobble and a couple boulders. Canopy cover is high consisting mostly of trees and shrubs. Instream cover is moderate and consists of boulder, cobble, very little aquatic vegetation and some woody debris. Minnows were observed during investigation. <table border="1" data-bbox="1262 662 1724 748"> <tr> <td></td> <td>R3-C-1</td> <td></td> <td>R3-C-1</td> </tr> <tr> <td>MWW(m):</td> <td>3</td> <td>MWD(m):</td> <td>0.22</td> </tr> <tr> <td>MBW(m):</td> <td>6</td> <td>MBD(m):</td> <td>1</td> </tr> </table> | | R3-C-1 | | R3-C-1 | MWW(m): | 3 | MWD(m): | 0.22 | MBW(m): | 6 | MBD(m): | 1 | Moderate |
| Watercourse Name | Decker Creek | | | | | | | | | | | | | | | | | | | | |
| DFO Drain Classification | F | | | | | | | | | | | | | | | | | | | | |
| | R3-C-1 | | R3-C-1 | | | | | | | | | | | | | | | | | | |
| MWW(m): | 3 | MWD(m): | 0.22 | | | | | | | | | | | | | | | | | | |
| MBW(m): | 6 | MBD(m): | 1 | | | | | | | | | | | | | | | | | | |
| Photos | | | <div style="display: flex; justify-content: space-around;"> <div data-bbox="688 789 1094 1092">  <p data-bbox="688 1101 1010 1127">Photograph 1. Site overview ↑</p> </div> <div data-bbox="1115 789 1520 1092">  <p data-bbox="1115 1101 1436 1127">Photograph 2. Site overview ↑</p> </div> <div data-bbox="1541 789 1946 1092">  <p data-bbox="1541 1101 1862 1127">Photograph 3. View of canopy ↑</p> </div> </div> | | | | | | | | | | | | | | | | | | |

| Feature ID | Project Component | Investigation Date | Description of Site | Feature Descriptions | Feature Sensitivity | | | | | | | | | | | | | | | | |
|---------------------------------|---|--|---|-------------------------|--|---------------------------------|---|---|--|-------------|----------------|---|----------------|---|--|-------------|----------------|-----|----------------|---|----------|
| R4-J | <ul style="list-style-type: none"> Collection Line Buffer Road Buffer Turbine Buffer | July 12, 2013 | <ul style="list-style-type: none"> Watercourse flows through a deciduous forest surrounded by corn and wheat agricultural fields on either side. It is south off of Highway 21 west of Jericho Road and crosses under Bruce Scott Road. Overland flow is noted to be an input into this system and it has a gently sloped surrounding landscape. <table border="1" data-bbox="690 451 1213 532"> <tr> <td>Watercourse Name</td> <td>Lower Mud Creek Drain No 2/Jericho Creek</td> </tr> <tr> <td>DFO Drain Classification</td> <td>C</td> </tr> </table> | Watercourse Name | Lower Mud Creek Drain No 2/Jericho Creek | DFO Drain Classification | C | <ul style="list-style-type: none"> The watercourse is a historically channelized, permanent natural feature with a well-established natural riparian edge (~5-10m). The watercourse has a natural riffle/run sequence. The water had a consistent flow at time of investigation. The banks were slightly unstable, with evidence of erosion on left bank upstream. Substrate consists mostly of cobble, sand and gravel. Canopy cover is moderate consisting mostly of trees with some understory shrubs and herbaceous vegetation. Instream cover is low and consists of cobble and some woody debris (no instream vegetation). Woody debris creates 1.5m obstruction at the beginning of the site. <table border="1" data-bbox="1255 638 1482 722"> <tr> <td></td> <td>R4-J</td> </tr> <tr> <td>MWW(m):</td> <td>2</td> </tr> <tr> <td>MBW(m):</td> <td>6</td> </tr> </table> <table border="1" data-bbox="1509 638 1724 722"> <tr> <td></td> <td>R4-J</td> </tr> <tr> <td>MWD(m):</td> <td>0.4</td> </tr> <tr> <td>MBD(m):</td> <td>4</td> </tr> </table> | | R4-J | MWW(m): | 2 | MBW(m): | 6 | | R4-J | MWD(m): | 0.4 | MBD(m): | 4 | Moderate |
| Watercourse Name | Lower Mud Creek Drain No 2/Jericho Creek | | | | | | | | | | | | | | | | | | | | |
| DFO Drain Classification | C | | | | | | | | | | | | | | | | | | | | |
| | R4-J | | | | | | | | | | | | | | | | | | | | |
| MWW(m): | 2 | | | | | | | | | | | | | | | | | | | | |
| MBW(m): | 6 | | | | | | | | | | | | | | | | | | | | |
| | R4-J | | | | | | | | | | | | | | | | | | | | |
| MWD(m): | 0.4 | | | | | | | | | | | | | | | | | | | | |
| MBD(m): | 4 | | | | | | | | | | | | | | | | | | | | |
| Photos | |  <p data-bbox="690 1157 1010 1179">Photograph 1. Site overview ↑</p> | | | | | | | | | | | | | | | | | | | |