



Samsung Renewable Energy Inc. and
Pattern Energy

Consultation Report
For
South Kent Wind Project

Volume 2 of 3



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Pattern Energy

Consultation Report

Volume 2 of 3

For

South Kent Wind Project

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Rev. 3

May 14, 2012

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Project Report

May 14, 2012

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***Copies of Display Boards and Other Material at
the Final Public Meeting***



Samsung Renewable Energy
and Pattern Energy

Welcome You to the Final Public Meeting for the South Kent Wind Project

Saturday September 24, 2011

2:00pm to 5:00pm

Tilbury Memorial Arena, Ryder Hall,
55 Bond Street, Tilbury, ON

Purpose of this Final Public Meeting

Stakeholder Input:

An important aspect of the Renewable Energy Approval (REA) process is stakeholder input. This meeting provides you with an opportunity to:

- » Provide verbal or written comments on the REA supporting documents (such as the Design and Operations Report)
- » Raise concerns or issues regarding the proposed Project and the REA supporting documents
- » Ask any questions regarding the proposed Project and the REA supporting documents
- » Gain a greater understanding of the proposed Project, Samsung Renewable Energy and Pattern Energy

You can provide comments or concerns the following ways:

- » Fill out a comment sheet provided at this public meeting.
If you provide your mailing address this can be used to add your information to the Project mailing list
- » Discuss with any of the Project representatives present at this meeting
- » Contact the Hatch or BowArk Energy representatives:

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Niagara Falls, Ontario, L2E 7J7
Tel: 905-374-0701 Ext.5318
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Fax: 403-261-1708
Email: kknudsen@bowark.com

Please visit www.southkentwind.ca for more information

South Kent Wind Project



Pattern Energy

Pattern is one of North America's leading independent wind and transmission companies. Our mission is to provide our customers with clean, renewable energy, which we seek to achieve by developing, constructing, owning and operating projects that are built for lasting success.

Commitment to community is one of Pattern's core values. We are dedicated to building strong relationships with our landowners, communities, business partners, and customers. We are also committed to the environment, and we make the effort and take the time to understand and minimize our projects' impact on local habitat and wildlife.

We work with landowners to help them transform their land's renewable resource into a steady revenue stream. We are strong supporters of the local communities we work in, and strive to be a good corporate citizen and neighbor. Skilled contractors and vendors help to build our projects, and we frequently join together with local development partners who bring expertise and knowledge of the area. At the end of this process are the customers who purchase the energy we produce. All are critical partners in our mission to provide consumers with clean, renewable energy.

BowArk Energy

Pattern Energy and BowArk Energy have a long history of developing projects together in Canada. BowArk Energy has been developing Projects for the past 8 years, and is currently acting as a development partner with Pattern on the South Kent Wind Project. BowArk is assisting in permitting activities and landowner relations as it relates to the Renewable Energy Approval Process.

Pattern Energy and Samsung Renewable Energy have retained Hatch Ltd. to undertake the REA process. Hatch is an Ontario-based consulting, engineering, environmental and management company with operations worldwide and a reputation for excellence acquired over 85 years of continuous service to its clients.



South Kent Wind Project



Samsung



Since the company began in 1938, we have brought advanced technology and product excellence to fields as diverse as resource development, textiles, plastics, finance, construction – even fashion. Increasingly, we have shifted our focus to alternative energy in line with global aspirations for a greener world. Samsung is embracing the green-growth paradigm by focusing on energy and the environment, natural resources, and industrial material.

Samsung is comprised of many companies, one of which is Samsung C&T. It is Samsung C&T's two business divisions – Trading & Investment Group and Engineering and Construction Group with its partners – that will be building and operating the Wind and Solar Power Projects here in Ontario. Samsung has logged many milestones over the years in preparation for such an opportunity. Among them, launching Korea's first solar energy project.

*In a changing world, our company mission remains constant:
To create superior products and services, thereby contributing to a better global society.*

This vision has helped Samsung C&T emerge as a leading player in the new and alternative energy sector, offering solutions to customers worldwide through a network of over 100 offices in 44 countries.

Kepco

Kepco (Korea Electric Power Corporation) is South Korea's sole vertically integrated power utility, handling generation, transmission, distribution, and sales. It operates a total of 10 subsidiaries, six of which are directly involved in power generation. The company has a generation capacity of 64,500MW, making it one of the world's top power utilities. Kepco aims to lead the industry in low-carbon generation, high-efficiency transmission and distribution, and other green technologies. Kepco is building a global business infrastructure encompassing nuclear, hydro, renewable energy, and resource development as it pursues business opportunities around the world.



Why Renewable Energy

- » The Green Energy and Green Economy Act (GEA) received Royal Assent in the Ontario Legislature on May 14, 2009. According to the Government of Ontario, this legislation is part of Ontario's plan to become a leading green economy in North America.

A component of GEA is the Feed-in-Tariff (FIT) program which was launched in Ontario on October 1, 2009. The purpose of the FIT program was to encourage use of renewable energy sources, and promote growth within the environmental industry. The intent of the FIT program is to:

- Create new jobs
- Boost economic activity and
- Further the development of renewable energy technology and expertise in Ontario, while helping to phase out coal-fired electricity generation by 2014

Pattern Energy, Samsung Renewable Energy and KEPCO are developing the South Kent Wind Project in response to the initiatives established in GEA.

Advantages of Wind

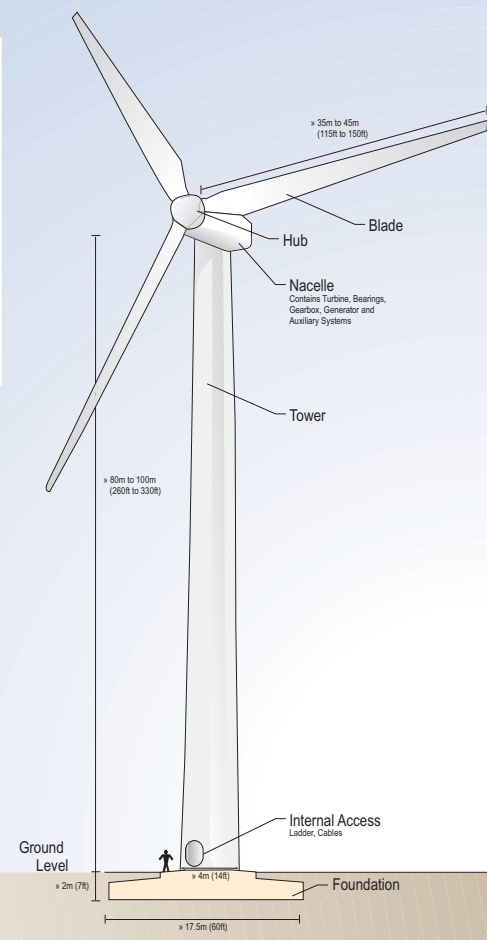
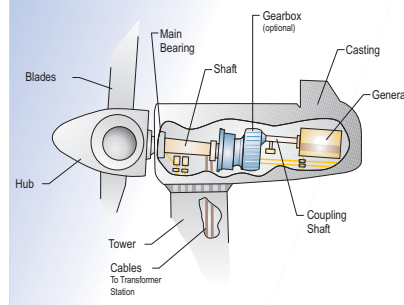
There are numerous advantages to wind. These advantages include:

- » Wind is an inexhaustible resource
- » Turbines are quick to install and are low maintenance once in place
- » Benefits the environment by reducing dependence on fossil fuel based power generation
- » Is compatible with mixed land use; grazing, agriculture and hunting
- » Provides a steady income to farmers and property owners
- » Strengthens the local tax base, helping to improve municipal services, including; schools, police and fire departments
- » Produces energy with stable production costs, offering a hedge against other energy sources with volatile fuel markets

Wind Technology: How it Works

The wind turbine consists of a tower, a rotor (including a hub and three blades), gearbox and generator as main components (the latter two are housed inside the nacelle). The rotor and nacelle turn into the wind for best electricity production.

Wind turbines start turning when wind speeds at hub height reach approximately 4 m/s (9 mph). The turbines stop operating and "park" safely for wind speeds above 25 m/s (56 mph) by pitching their blades and applying a break on the rotor, in addition to possibly turning the nacelle away from the wind.



Wind, like water, can be harnessed to transform the kinetic energy into electrical energy. Wind turbines do this by having blades mounted on towers which are turned by the wind, causing them to turn a shaft that's attached to a generator. This creates an electrical current that is carried by cables to the power grid, which, in turn, transmits electricity to your home.

Project Location

The Project is located south of Highway 401 between the Towns of Tilbury and Ridgeway (refer to draft site plan figure below) to the west and east, respectively, within the Municipality of Chatham-Kent in southwestern Ontario.

Project Description

The Project is described as a Class 4 Wind facility with a nameplate capacity of up to 270 MW consisting of approximately 130 wind turbines, as well as supporting infrastructure, including access roads, buried cables and overhead collector lines. A 34.1 km 230 kV transmission line and two (2) substations are required to step the voltage from 34.5kV to 230 kV to enable connection to the Chatham Switching Station (SS).

REA Project Schedule

First Public Meeting – November 22, 2010 and November 23, 2010

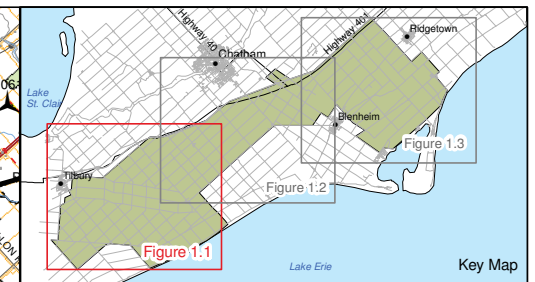
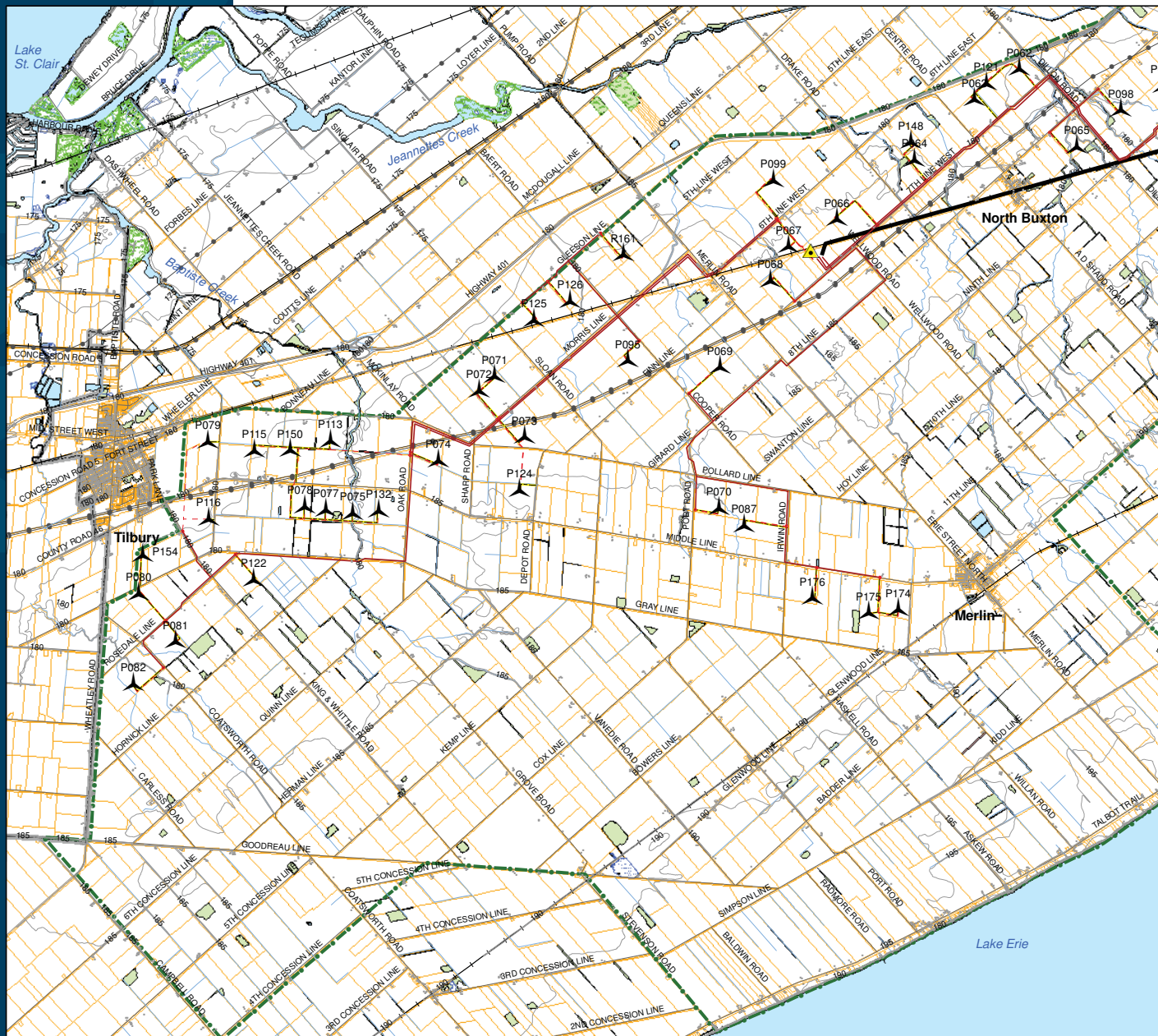
Final Public Meeting – September 24, 2011

REA Application Submission – September 30, 2011

REA Received –Early 2012

Start of Construction – Mid-2012 (subject to receiving final REA)

Commercial Operation Date –2013



Legend

- Building
- Roads
- Rail
- Hydro Line
- Topographic Contour (5m Interval)
- Intermittent Watercourse
- Watercourse
- Parcel
- Project Area
- Waterbody
- Unevaluated Wetland
- Significant Wetland
- Wooded Area
- Project Components**
- Proposed Turbine
- Substation
- Access Road
- 230 kV Distribution Line
- Underground Cabling
- Above Ground Cabling

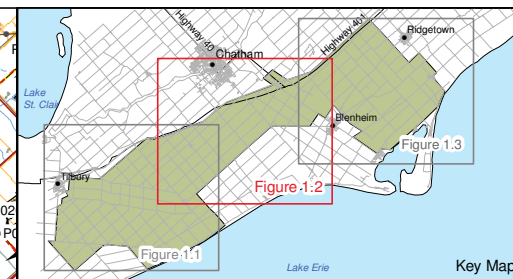
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Notes:
1. Base and environmental data downloaded from LID with permission.
2. Spatial referencing UTM NAD83.
3. Parcel data obtained from Teranet, Feb. 2011.

Figure 1.1
Pattern Wind Energy Development Inc.
South Kent Wind Project
Project Location (Part A)





Legend

- Building
- Roads
- Rail
- Hydro Line
- Topographic Contour (5m Interval)
- Intermittent Watercourse
- Watercourse
- Parcel
- Project Area
- Waterbody
- Unevaluated Wetland
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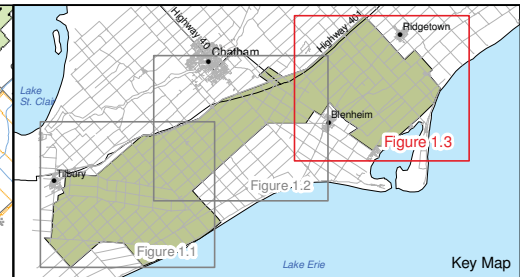
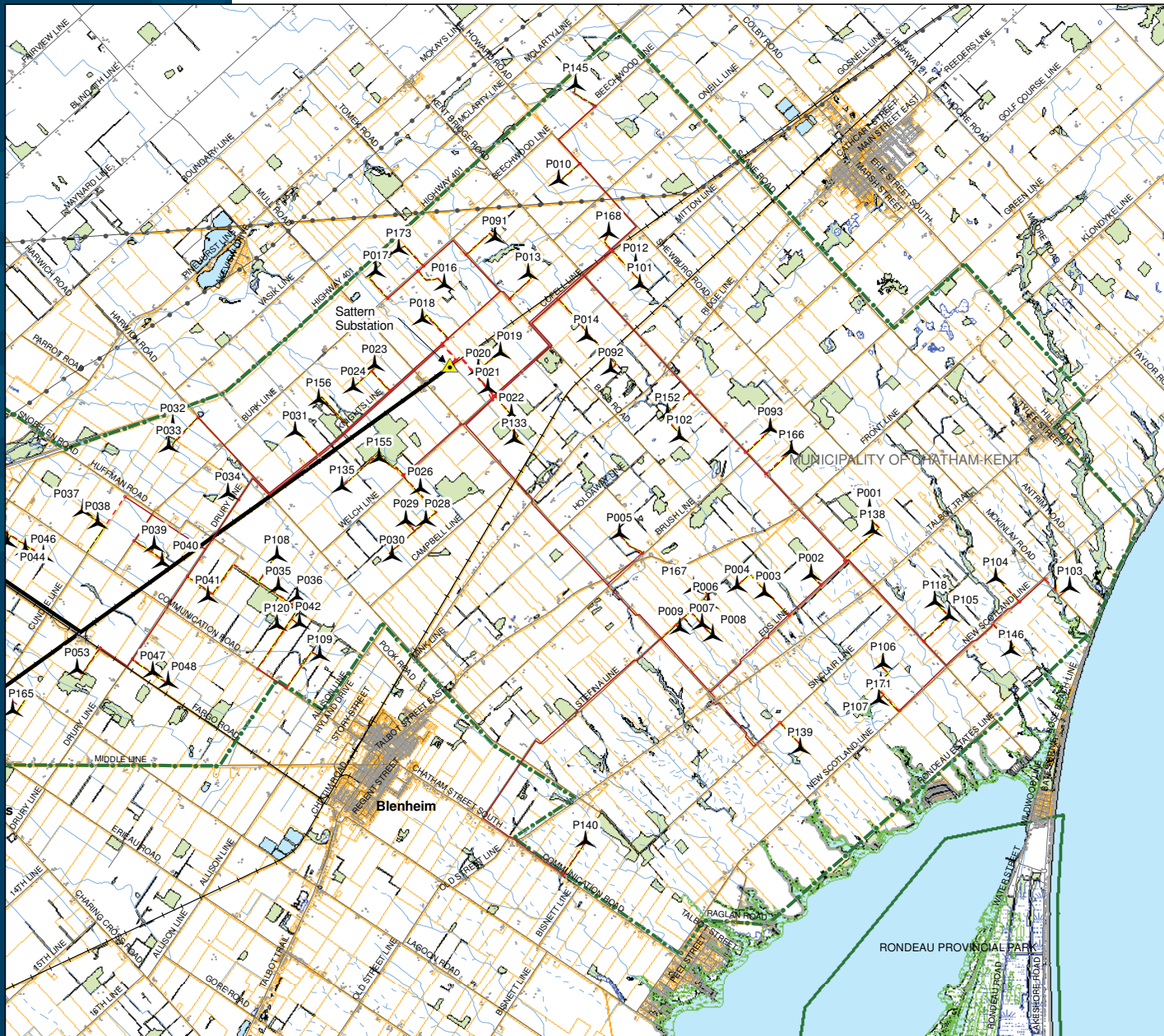
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Notes:
1. Base and environmental data downloaded from LID with permission.
2. Spatial referencing UTM NAD83.
3. Parcel data obtained from Teranet, Feb. 2011.

Figure 1.2
Pattern Wind Energy Development Inc.
South Kent Wind Project
Project Location (Part B)





Legend

- Building
- Roads
- Rail
- Hydro Line
- Topographic Contour (5m Interval)
- Intermittent Watercourse
- Watercourse
- Parcel
- Project Area
- Waterbody
- Unevaluated Wetland
- Significant Wetland
- Wooded Area
- Project Components**
- Proposed Turbine
- Substation
- Access Road
- 230 kV Distribution Line
- Underground Cabling
- Above Ground Cabling

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Notes:
1. Base and environmental data downloaded from LUC with permission.
2. Spatial referencing UTM NAD83.
3. Parcel data obtained from Teranet, Feb. 2011.

Figure 1.3
Pattern Wind Energy Development Inc.
South Kent Wind Project
Project Location (Part C)



Natural Features

Roadside surveys were completed at each site, and if the Project is to be located within 120 m of a natural feature, individual site surveys were completed. These individual site surveys confirmed the boundaries of the feature and collected more detailed vegetation community information.

Each feature was assessed for significance based on criteria from the Ministry of Natural Resources Natural Heritage Reference Manual and Significant Wildlife Habitat Technical Guide.

A total of 86 significant natural features were identified on or within 120 m of the Project location. Results include:

- » A total of 34 of the 42 significant woodlands were identified as being indirectly impacted by the Project. 3 woodlands are located directly adjacent to proposed above or below ground cabling and 4 woodlands would have the above/below ground cabling installed within the woodland.
- » 5 significant wetlands within 120 m of the Project location were identified. No direct encroachment will occur within the significant wetlands.
- » 11 bat maternity roosts are present on and within 120 m of the Project location. No direct encroachment will occur within these significant natural features.
- » 2 open country bird breeding habitats were identified on and within 120 m of the Project location. Underground cabling and access roads would occur within these habitats.
- » Fifteen significant woodland habitats for 3 bat species of concern (Eastern Small-footed Bat (*Myotis leibii*), Northern Long-eared Bat (*Myotis septentrionalis*), and Tricolour Bat (*Perimyotis subflavus*) are located within 120 m of wind turbines and associated infrastructure. Direct encroachment would occur only in one significant habitat.

- » 8 animal movement corridors were identified on and within 120 m of the Project location. 7 are associated with watercourses and 1 associated with the vegetated corridor along the railway line. The 7 watercourse animal movement corridors are interrupted at various locations by municipal and farm access roads. While components of the transmission line (and service road) will be within the railway animal movement corridor, the transmission poles and the service road would temporarily limit but not prevent the movement of wildlife through this area.

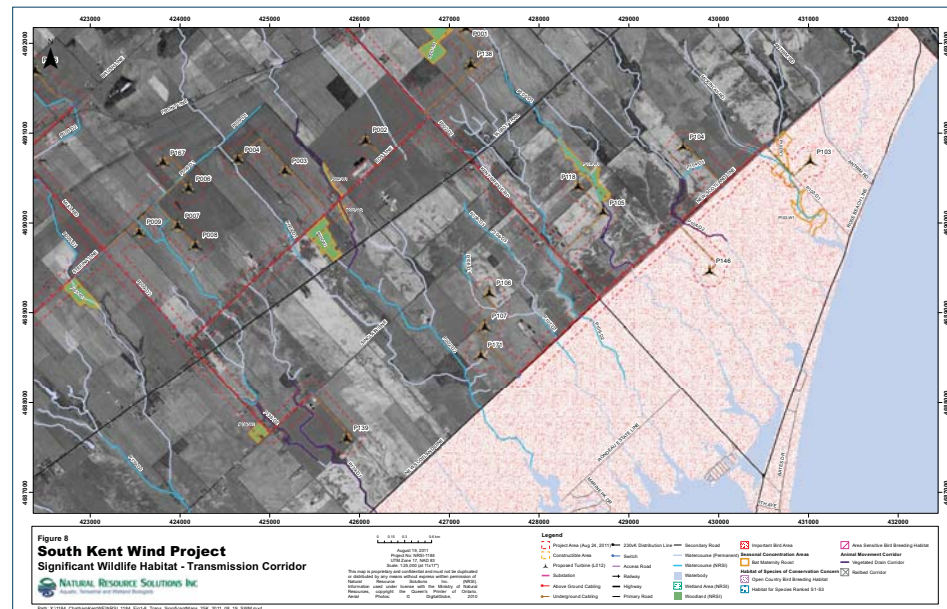
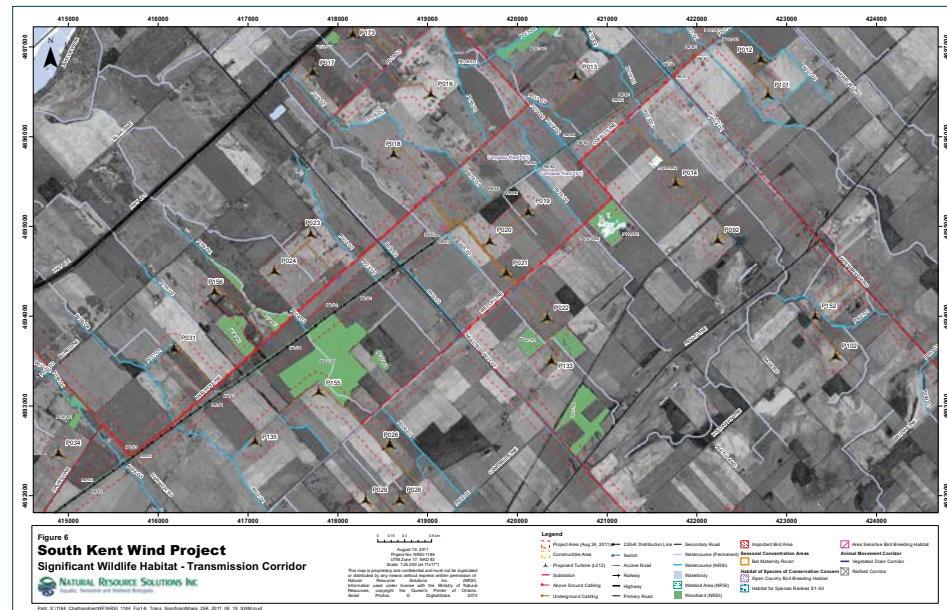
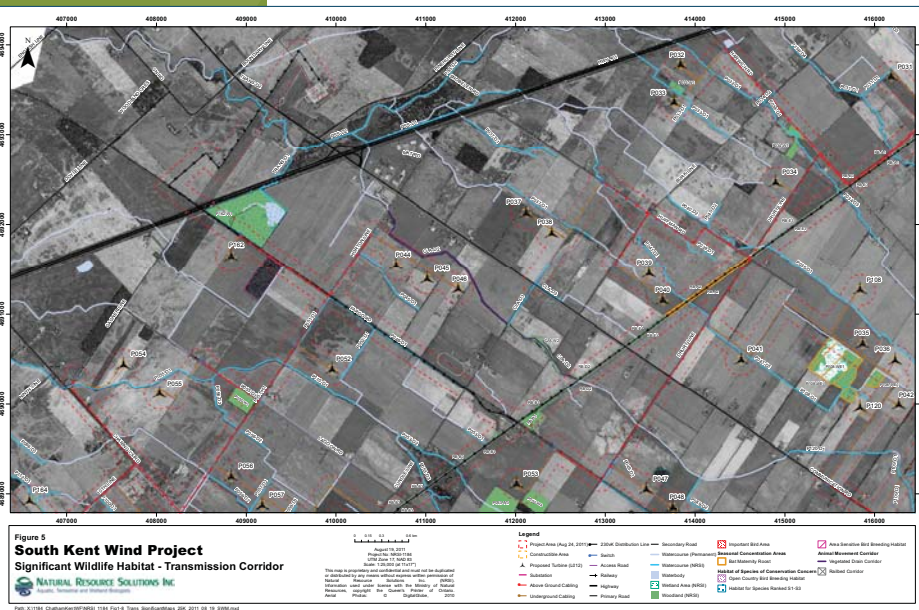
Mitigation Measures

A variety of mitigation measures will be implemented throughout the Project. Examples of mitigation measures include:

- » Clearly marked work areas, to limit impact of construction
- » Where possible, vegetation and earth moving activities to occur outside of the bird breeding season; otherwise an avian biologist will determine if nests are located in the Project footprint and if so, appropriate avoidance will be maintained until the birds leave the nest
- » Reduced speed on access roads
- » Daily monitoring for wildlife and establishment of wildlife encounter protocols
- » Erosion and sedimentation control measures (e.g. silt fence barriers, straw bale flow checks) will be in place to minimize and sediment into significant habitats
- » Post-construction monitoring of birds and bats in accordance with MNR requirements and guidelines will be completed. Should mortality be greater than stipulated levels, the Proponent will discuss mitigation measures with MNR and implement accordingly.

For more details on mitigation measures please see the Natural Heritage Environmental Impact Study.





Aquatic Environment

Roadside surveys were completed at each site to either confirm the presence or absence of a water body. Individual site surveys were conducted at each location where a water body is within 120 m of a Project component.

The water bodies and associated habitat characteristics (including aquatic vegetation, substrates, water depths, temperatures, etc.) found within the Project area are typical of the southwestern Ontario landscape. An extensive system of drains has been established to facilitate land drainage for agricultural practices. These drains represent a large proportion of the water bodies found throughout the Project area, typically located alongside roads and agricultural fields. Additional permanent and intermittent streams are found as naturally vegetated tributaries that flow either northward to the Thames River and ultimately into Lake St. Clair or southward into Rondeau Bay or Lake Erie. A summary of water bodies is as follows:

- » A total of 367 water body observations were included in the report including 188 observations from the investigations carried out in 2010 and 179 in 2011.
- » Confirmation of the presence of 218 water body locations consisting of 139 different drains are within 120 m of the South Kent Wind Project. Additionally, 244 total crossing locations where water bodies are crossed by project infrastructure were documented. Of these, 162 crossings are attributed to aboveground cabling, 9 are access roads only, 9 are underground cabling only, and 69 are a crossing location that includes both access roads and underground cabling at the same location.

- » None of the documented water bodies are found within 30 m of a turbine location. A total of 19 water bodies were documented within 30 m of the project location, including measurements from access roads, cabling, and the extent of blade sweep area surrounding the turbine locations.
- » No lakes, lake trout lakes were identified within the Project area, however a total of 8 sites were found to have aquatic vegetation (i.e., watercress) indicative of groundwater seepage areas.
- » Essential habitat for fish and other aquatic organisms is provided in many of these streams year round and therefore careful consideration must be given in order to protect the streams from immediate or prolonged degradation.

Mitigation Measures

A variety of mitigation measures will be implemented throughout the Project. Examples of mitigation measures include:

- » Erosion and sedimentation controls measures (e.g. silt fence barriers, straw bale flow checks) will be in place to minimize any sedimentation into nearby water bodies.
- » Stormwater management measures (e.g. site revegetation) to allow water to naturally percolate into the ground will be implemented to maintain natural and original drainage
- » Spill response measures (e.g. spill kits and emergency response plan) will be implemented to minimize the potential for spill adjacent to a water body

For more details on mitigation measures please see the Water Body Heritage Environmental Impact Study.

Anticipated Construction Schedule

Activity	Start	Finish
REA Approval (Estimate)	Spring 2012	Spring 2012
Turbine Procurement, Fabrication & Delivery	Spring 2012	Spring 2013
Mobilize	Spring 2012	Summer 2012
Installation of Site Access Components	Summer 2012	Winter 2013
Safety and Security	Summer 2012	Fall 2013
Temporary Facilities	Summer 2012	Summer 2013
Power and Communication	Summer 2012	Summer 2013
Turbine Site Preparation	Summer 2012	Winter 2013
Foundations	Summer 2012	Spring 2013
Turbine Erection	Fall 2012	Spring 2013
Electrical Systems	Fall 2012	Spring 2013
Commissioning	Fall 2012	Summer 2013
Commercial Operation Date	Summer 2013	Summer 2013
Remediation and Demobilization	Summer 2013	Fall 2013

Project Construction

Construction expected to occur from 7:00 am to 7:00 pm Monday through Saturday for the duration of construction. If required, the daily construction time could be extended to 11:00pm as per Municipal by-law.

Site Preparation

- » Staking and surveying, clearing and grubbing, if required
- » Installation of security measures, e.g fencing
- » Preparation of construction staging areas

Construction of Facility

- » Construction of access roads
- » Installation of foundations for turbines
- » Base preparation for substations
- » Wind turbine and substation installation
- » Installation of distribution and transmission lines
- » Testing and commissioning

Site restoration

- » All construction material and temporary facilities will be removed and disposed of properly
- » Top soil will be backfilled where appropriate to achieve property drainage
- » Re-vegetation and hydro-seeding to occur, where needed

Traffic and Roads

- » Only designated transportation routes will be followed
- » Proper signage for detours will be promptly displayed
- » Flagman and police escorts will be used as necessary

Safety

- » Fencing and signs will be used to mark off construction zones
- » Spills will be handled by the procedures outlined in the Emergency Response Plan

Design and Operations

Project Components

Project Component	Number	Description
Wind Turbine	130	Siemens SWT-2.3-101
Substation	2	Sattern and Railbed substations – prefabricated building, transformer to be surrounded by 5 - 6 m tall sound barriers

Project Operations

- » Real time monitoring of the Project will occur remotely to adequately ensure the performance and safety of the wind turbines.
- » Weekly and monthly maintenance activities are to occur throughout the life of the Project.

Decommissioning

It is anticipated that the Project will have a useful lifetime of at least 20 years, which can be extended further with proper maintenance, component replacement and repowering. It is assumed that the Project will be decommissioned after the conclusion of its useful economic life.

Activities involved in decommissioning include:

- » removal of the wind turbines and all electrical appurtenances for salvage
- » removal of foundations and any access roads not wanted for future farming purposes to a depth suitable for ploughing (approximately 1.0 m)
- » replacement of topsoil to a depth of surrounding undisturbed lands and plant with suitable ground cover dependant on time of year and in consultation with property owner
- » ensuring that there are no environmental impacts related to decommissioning activities.

Property Values

"In the study area, where wind farms were clearly visible, there was no empirical evidence to indicate that rural residential properties realized lower sale prices than similar residential properties within the same area that were outside of the viewshed of a wind turbine."

Canning, G., and L. J. Simmons. (February 2010). Wind Energy Study Effect of Real Estate Values in the Municipality of Chatham-Kent. Canning Consultants Inc. & John Simmons Realty Services Ltd. Prepared for the Canadian Wind Energy Association.

"Research collected data on almost 7,500 sales of single family homes situated within 10 miles of 24 existing wind facilities in nine different U.S. states. The conclusions of the study are drawn from eight different hedonic pricing models, as well as both repeat sales and sales volume models".

The various analyses are strongly consistent in that none of the models uncovers conclusive evidence of the existence of any widespread property value impacts that might be present in communities surrounding wind energy facilities. Specifically, neither the view of the wind facilities nor the distance of the home to those facilities is found to have any consistent, measureable, and statistically significant effect on home sales prices.

Although the analysis cannot dismiss the possibility that individual homes or small numbers of homes have been or could be negatively impacted, it finds that if these impacts do exist, they are either too small and/or too infrequent to result in any widespread, statistically observable impact."

Hoen, B., Wiser, R., Cappers, P., Thayer, M., and G. Sethi. (December 2009). The Impact of Wind Power Projects on Residential Property Values in the United States: A Multi-Hedonic Analysis. Ernest Orlando Lawrence Berkeley National Laboratory. Prepared for the Office of Energy Efficiency and Renewable Energy.



Community Benefits

Supports the local economy by:

- » Purchasing good and services during construction and operation
- » Significantly increasing revenue for all service businesses, i.e. local restaurants and hotels during construction and operations

Significantly contributes to the tax base annually with approximately \$800,000/year, benefiting:

- » Local Government and Related Services
- » Lambton Kent School District

Through land lease agreements with landowners, the Project will provide additional income for farmers

Job Creation

Construction

Job opportunities: up to 300 positions during peak construction periods

- » Subcontractors experienced in civil work (grading, excavation, and concrete), electrical work, and mechanical assembly
- » Construction managers, electricians, heavy equipment operators and general labourers for assembly & civil work

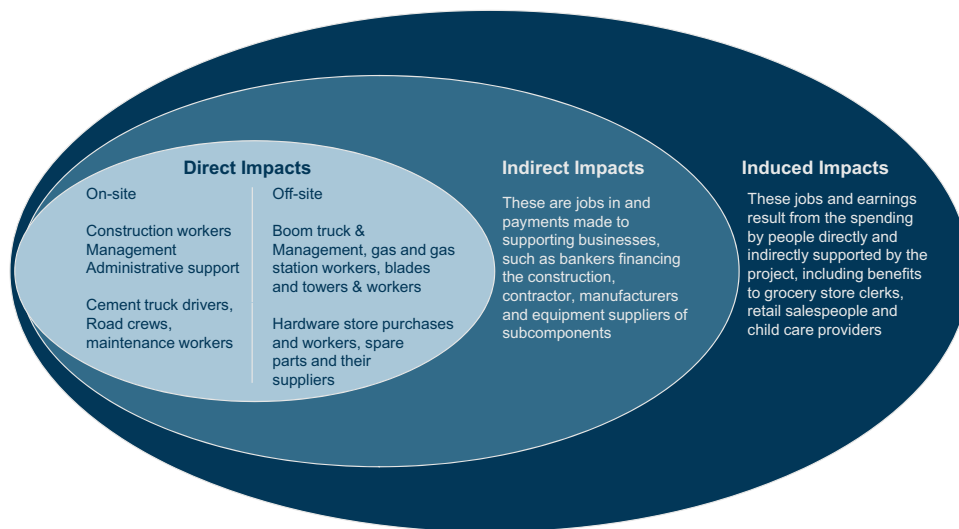
Operation

- » Maintenance personnel proficient in mechanics or electrical/electronic technicians

Manufacturing

- » This project is part of the Samsung Green Energy Investment Agreement, which is committed to the establishment of four manufacturing facilities in the Province of Ontario. The manufacturing facilities will create:
 - 900 or more jobs (from 4 manufacturing facilities)
 - 550 or more (steel industry etc.) (excluding construction, operation & maintenance jobs)

Wind Energy's Economic Ripple Effect



Source: National Renewable Energy Lab



Environmental Benefits of 270 MW of Wind Energy Compared to Coal-Fired Generation

Carbon Dioxide Emissions Reduced

877,077 tonnes/year
157,172 car equivalent

Coal

409,491 tonnes/year

Sulfur Dioxide

3,940 tonnes/year

Nitrogen Oxides

1,331 tonnes/year

Water Conserved

1,840,610,359 litres/year
5,042,768 litres/day
56,031 people each day



Sources: Based on information from the Energy Information Administration, National Energy Technology Laboratory, and U.S. Geological Survey. Annual emission offsets based on 270 MW wind project offsetting coal-fired generation, using capacity factor for Chatham-Kent area and accounting for regular turbine maintenance. Water conserved compared to coal-fired generation (541 gallon/MWh), source American Wind Energy Association. People supplied figure based on USGS estimation of 80-100 gallons/day per capita water consumption, US Geological Survey, "Water Q&A: Water use at home," <http://ga.water.usgs.gov/edu/qahome.html>.

Blowing Smoke: Correcting Ontario Anti-Wind Myths

• Myth 1: Health impacts

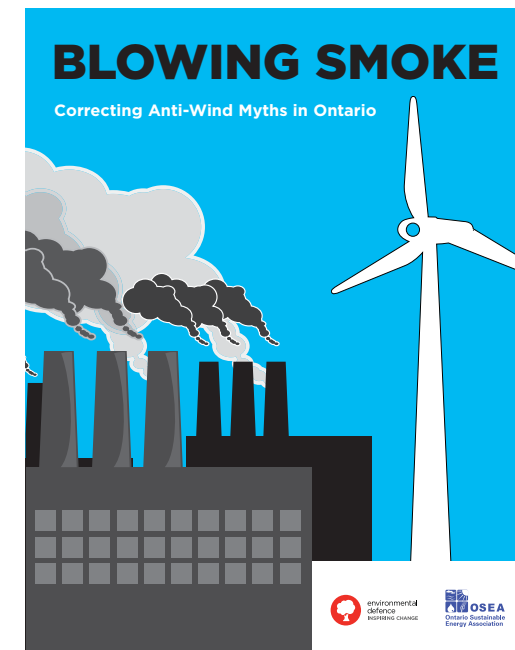
- » Reality: Repeated studies around the world have found no scientific evidence of health impacts from wind power projects.

• Myth 2: Viability

- » Reality: Wind power has been successfully used for decades and the world is rapidly scaling up its use because it works, particularly in light of climate change.

• Myth 3: Economic & Environmental Benefits

- » Reality: Wind power is creating thousands of jobs across Ontario and letting us reduce the use of harmful fossil fuels.



Sierra Club: The Real Truth About Wind Energy

June 2011 report by the Sierra Club Canada

- “ After a thorough review of the science, we are confident in saying there is no evidence of significant health effects that should prevent the further development and implementation of wind turbines, wind farms and wind energy.”
- “ The further development of wind energy as a growing portion of our energy supply will reduce direct carbon emissions, improve the quality of the air we breathe, and generally improve the health and well-being of Canadians, our families and the environment in which we live.”
- “ With a full review of available data, including that referenced by wind opposition groups, Sierra Club Canada adds its voice to the overwhelming majority of governmental, non-governmental, scientific and environmental groups in saying that a link between wind turbines and health concerns is unfounded.”



South Kent Wind Project



Public Health and Safety

- » Public health and safety will be considered during all stages of the Project (i.e. construction, operation and decommissioning).
- » To date, much study has been done on the effects of environmental noise on human health.
- » A recent summary of scientific literature related to wind turbines and public health, as compiled by Ontario's Chief Medical Officer of Health, revealed the following:

"...while some people living near wind turbines report symptoms such as dizziness, headaches, and sleep disturbance, the scientific evidence available to date does not demonstrate a direct causal link between wind turbine noise and adverse health effects. The sound level from wind turbines at common residential setbacks is not sufficient to cause hearing impairment or other direct health effects, although some people may find it annoying".

(The Potential Health Impact of Wind Turbines - Chief Medical Officer of Health Report, Dr. Arlene King May 2010)

Additional information from the report includes:

- » The report includes an assessment of sound/noise, low frequency sound, infrasound, vibration, electric and magnetic fields, shadow flicker, ice throw and ice shed, and structural hazards
- » Ontario used the most conservative sound modelling available nationally and internationally, which is supported by experiences in the province and in other jurisdictions
- » Low frequency sound and infrasound from current generation upwind model turbines are well below the pressure sound levels at which known health effects occur. Further, there is no scientific evidence to date that vibration from low frequency wind turbine noise causes adverse health effects
- » With regards to vibrations from wind turbines the Wind Turbine Sound and Health Effects, An Expert Panel Review states:

"The ground-borne vibrations from wind turbines are too weak to be detected by, or to affect, humans". It also states *"there is nothing unique about the sounds or vibrations emitted by wind turbines."*

(W. David Colby, M.D., Robert Dobie, M.D., Geoff Leventhall, Ph.D., David M. Lipscomb, Ph.D., Robert J. McCunney, M.D., Michael T. Seilo, Ph.D., Bo Søndergaard, M.Sc.)

Your Comments

Comments or concerns can be provided in the following ways:

1. Completion of a comment sheet. Please deposit the completed sheet in the Comments Box provided at this meeting or complete at home and fax/e-mail. If you wish to receive future Project mailings, please ensure your complete mailing address is provided.
2. Identification of comments or concerns to any Pattern Energy, Samsung Renewable Energy, Bowark or Hatch representatives present at this Public Meeting.
3. Contact the representatives for the Project at the addresses provided below:

Kimberley Arnold, BSc, MES

Manager – Environmental Services
Hatch Ltd.

4342 Queen St., Suite 500, Niagara Falls, Ontario, L2E 7J7

Phone: 905-374-0701 Ext. 5318 Fax: 905-374-1157

karnold@hatch.ca

Keith Knudsen

Project Manager

BowArk Energy Ltd.

915, 530 8th Avenue SW, Calgary, Alberta T2P 3S8

Phone: 403-264-2259 Fax: 403-261-1708

kknudsen@bowark.com

Please visit the South Kent Wind Project website at www.southkentwind.ca for more information on the Project and the Proponent.

Next Steps

A consultation report, documenting all concerns and questions, will be produced and a complete package will be sent to the MOE for acceptance.

Following acceptance and posting on the Environmental Registry (www.ebr.gov.on.ca), a Notice of Posting will be published in the Chatham Daily News and the REA reports, including the Consultation Report, will become available for review on the Project website (www.southkentwind.ca) with any further comments to be sent to the Ministry of the Environment.

Approval can take up to six months after which the public has 15 days to request an appeal of the approval decision with the Ministry of the Environment

Thank you

for attending our
Final Public Meeting.

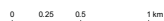


Figure A
South Kent Wind Project
Site Plan A



Sept 1, 2011
 Project No: NRSI-1184
 UTM Zone 17, NAD 83
 Scale: 1:35,000 (at 11x17")

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Legend

- | | | | | |
|---|--|--|--|--|
| <ul style="list-style-type: none"> Project Area (Aug 24, 2011) Constructible Area Proposed Turbine (L012) Substation Above Ground Cabling Underground Cabling | <ul style="list-style-type: none"> 230kV Distribution Line Switch Access Road Railway Highway Primary Road | <ul style="list-style-type: none"> Secondary Road Watercourse (Permanent) Watercourse (NRSI) Waterbody Wetland Area (NRSI) Woodland (NRSI) | <ul style="list-style-type: none"> Important Bird Area Seasonal Concentration Areas Bat Maternity Roost Habitat of Species of Conservation Concern Open Country Bird Breeding Habitat Habitat for Species Ranked S1-S3 | <ul style="list-style-type: none"> Area Sensitive Bird Breeding Habitat Animal Movement Corridor Vegetated Drain Corridor Railbed Corridor |
|---|--|--|--|--|

Path: X:\1184_ChathamKent\WF\NRSI_1184_FigA-I_SigFeatureSitePlan_35k_2011_09_01_SWM.mxd

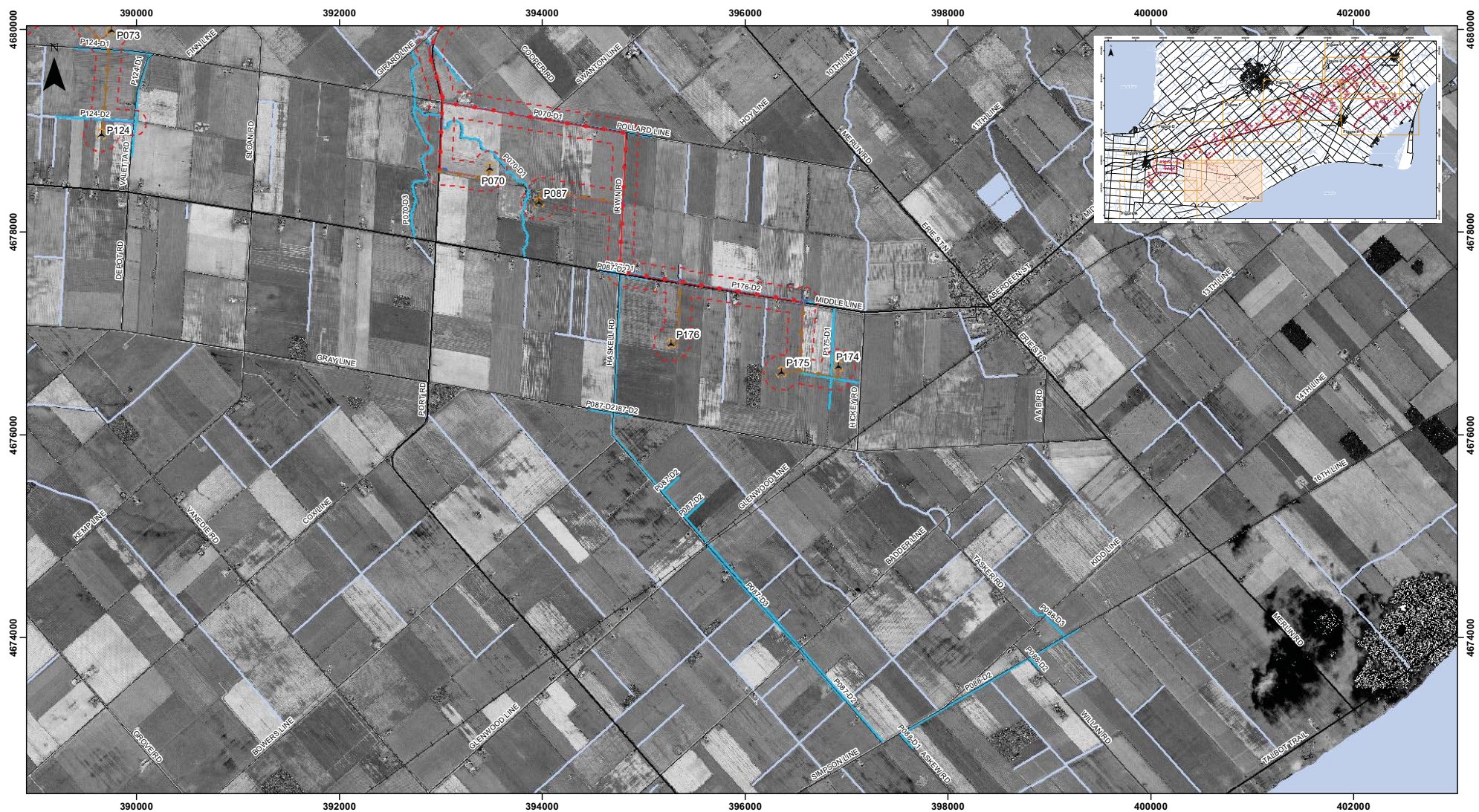


Figure B
South Kent Wind Project
Site Plan B



Sept 1, 2011
 Project No: NRSI-1184
 UTM Zone 17, NAD 83
 Scale: 1:35,000 (at 11x17")
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Legend

- [Red dashed line] Project Area (Aug 24, 2011)
- [Orange dashed line] Constructible Area
- [Blue dot] Proposed Turbine (L012)
- [Red line] Substation
- [Red line] Above Ground Cabling
- [Orange line] Underground Cabling
- [Black line] 230kV Distribution Line
- [Blue line] Switch
- [Purple line] Access Road
- [Black line] Railway
- [Black line] Highway
- [Black line] Primary Road
- [Blue line] Secondary Road
- [Blue line] Watercourse (Permanent)
- [Blue line] Watercourse (NRSI)
- [Blue line] Waterbody
- [Green line] Wetland Area (NRSI)
- [Green line] Woodland (NRSI)
- [Red dashed box] Important Bird Area
- [Orange dashed box] Seasonal Concentration Areas
- [Orange dashed box] Bat Maternity Roost
- [Red dashed box] Habitat of Species of Conservation Concern
- [Red dashed box] Open Country Bird Breeding Habitat
- [Red dashed box] Habitat for Species Ranked S1-S3
- [Pink dashed box] Area Sensitive Bird Breeding Habitat
- [Pink dashed box] Animal Movement Corridor
- [Purple dashed box] Vegetated Drain Corridor
- [Black dashed box] Railed Corridor

Path: X:\1184_ChathamKent\WF\NRSI_1184_FigA-1_SigFeatures\SitePlan_35k_2011_09_01_SWM.mxd



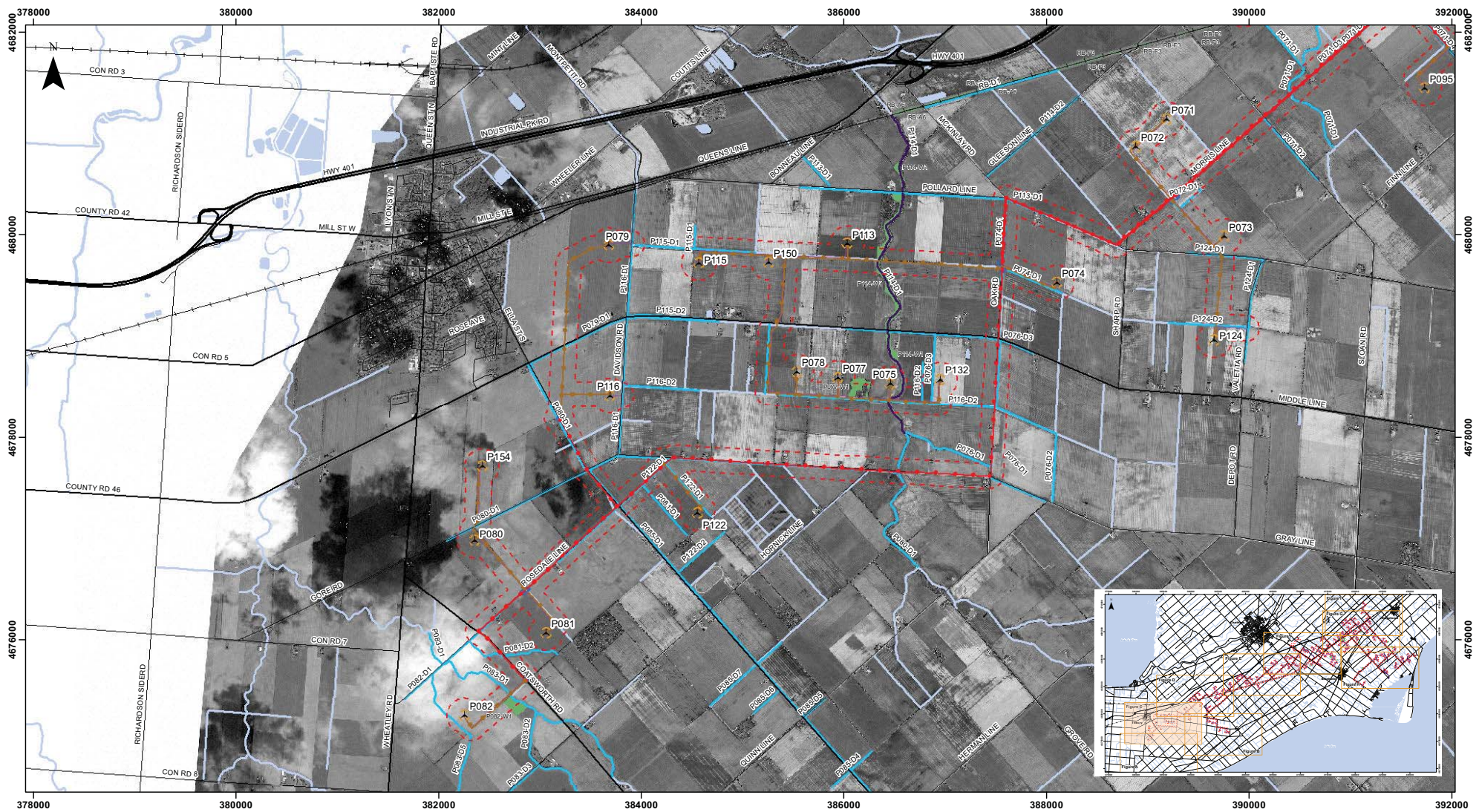


Figure C
South Kent Wind Project
Site Plan C

NATURAL RESOURCE SOLUTIONS INC.
 Aquatic, Terrestrial and Wetland Biologists

Sept 1, 2011
 Project No: NRS-1184
 UTM Zone 17, NAD 83
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Legend

- Project Area (Aug 24, 2011)
- Constructible Area
- Proposed Turbine (L012)
- Substation
- Above Ground Cabling
- Underground Cabling
- 230kV Distribution Line
- Switch
- Access Road
- Railway
- Highway
- Primary Road
- Secondary Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Wetland Area (NRSI)
- Woodland (NRSI)
- Important Bird Area
- Seasonal Concentration Areas
- Bat Maternity Roost
- Habitat of Species of Conservation Concern
- Open Country Bird Breeding Habitat
- Habitat for Species Ranked S1-S3
- Area Sensitive Bird Breeding Habitat
- Animal Movement Corridor
- Vegetated Drain Corridor
- Railbed Corridor

Path: X:\1184_ChathamKent\WF\NRSI_1184_FigA-I_SigFeatureSitePlan_35k_2011_09_01_SWM.mxd

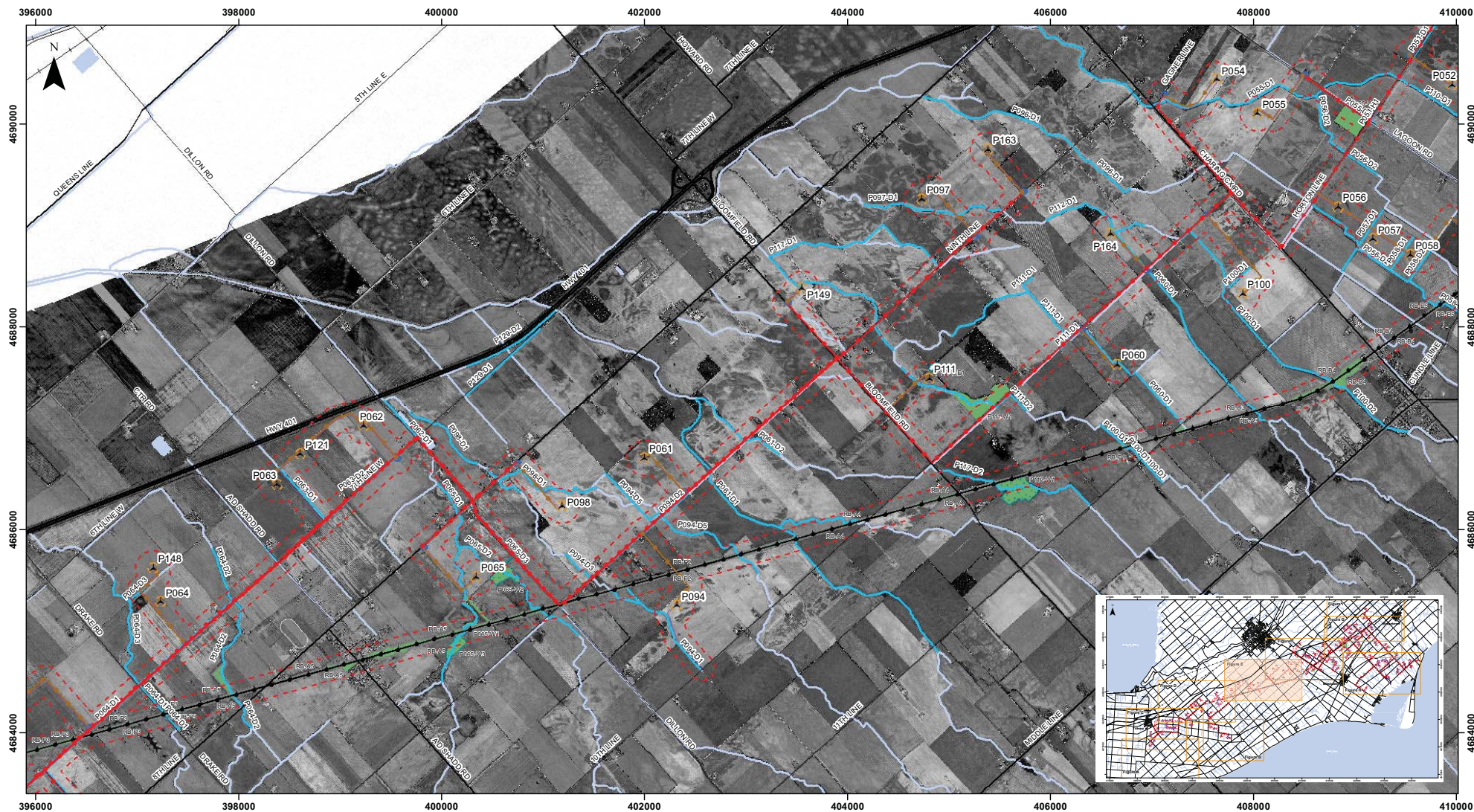


Figure E
South Kent Wind Project
Site Plan E

NATURAL RESOURCE SOLUTIONS INC.
 Aquatic, Terrestrial and Wetland Biologists

Sept 1, 2011
 Project No: NRSI-1184
 UTM Zone 17, NAD 83
 Scale: 1:35,000 (at 11x17)
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Legend

- Project Area (Aug 24, 2011)
- Constructible Area
- Proposed Turbine (L012)
- Substation
- Above Ground Cabling
- Underground Cabling
- 230kV Distribution Line
- Switch
- Access Road
- Railway
- Highway
- Primary Road
- Secondary Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Wetland Area (NRSI)
- Woodland (NRSI)
- Important Bird Area
- Seasonal Concentration Areas
- Bat Maternity Roost
- Habitat of Species of Conservation Concern
- Open Country Bird Breeding Habitat
- Habitat for Species Ranked S1-S3
- Area Sensitive Bird Breeding Habitat
- Animal Movement Corridor
- Vegetated Drain Corridor
- Railed Corridor

Path: X:\1184_ChathamKentWF\NRSI_1184_FigA-1_SigFeaturesSitePlan_35k_2011_09_01_SWM.mxd

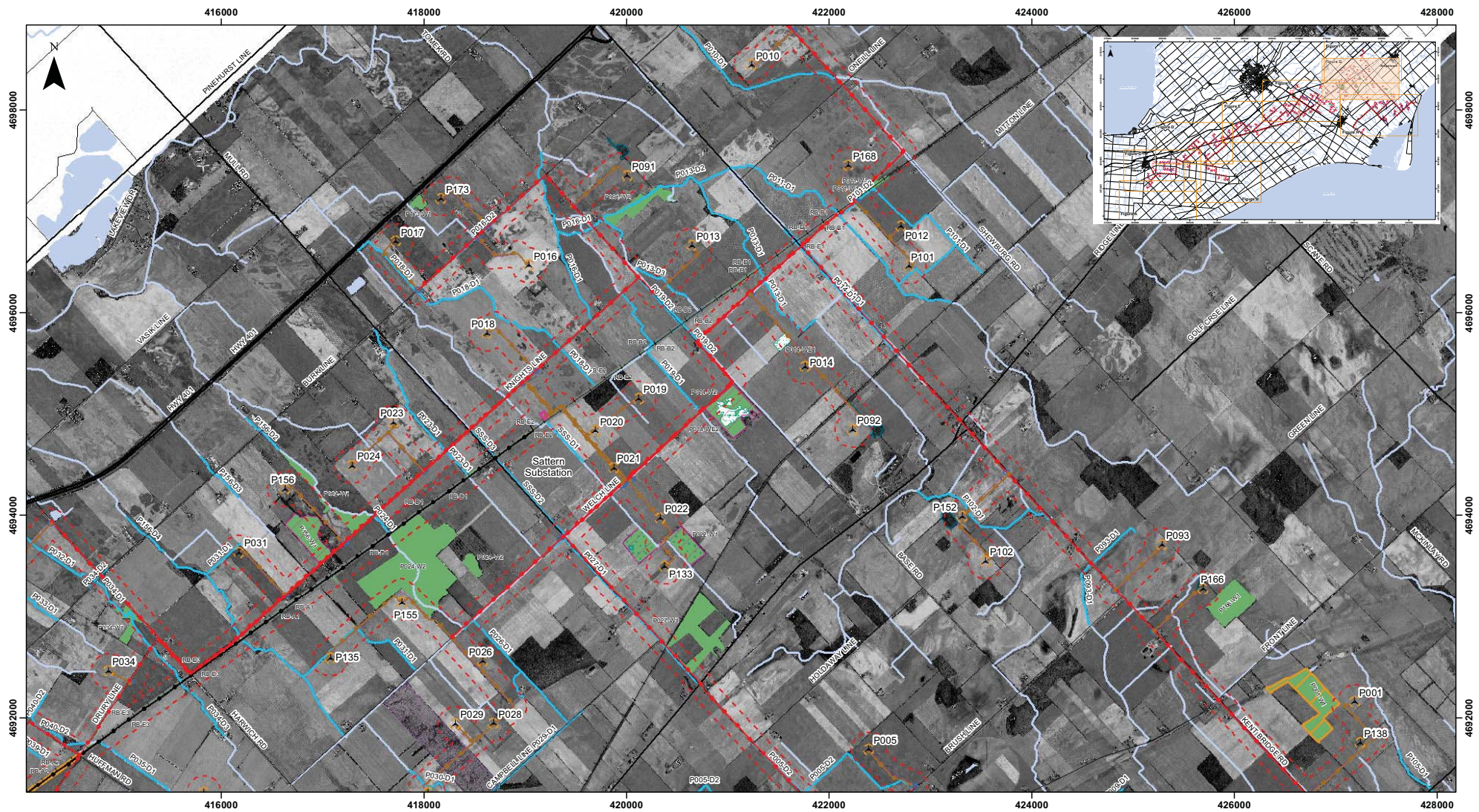


Figure G
South Kent Wind Project
Site Plan G

NATURAL RESOURCE SOLUTIONS INC.
 Aquatic, Terrestrial and Wetland Biologists

Sept 1, 2011
 Project No: NRSI-1184
 UTM Zone 17, NAD 83
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Legend

- Project Area (Aug 24, 2011)
- Constructible Area
- Proposed Turbine (L012)
- Substation
- Above Ground Cabling
- Underground Cabling
- 230kV Distribution Line
- Switch
- Access Road
- Railway
- Highway
- Primary Road
- Secondary Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Wetland Area (NRSI)
- Woodland (NRSI)
- Important Bird Area
- Seasonal Concentration Areas
- Bat Maternity Roost
- Habitat of Species of Conservation Concern
- Open Country Bird Breeding Habitat
- Habitat for Species Ranked S1-S3
- Area Sensitive Bird Breeding Habitat
- Animal Movement Corridor
- Vegetated Drain Corridor
- Railed Corridor

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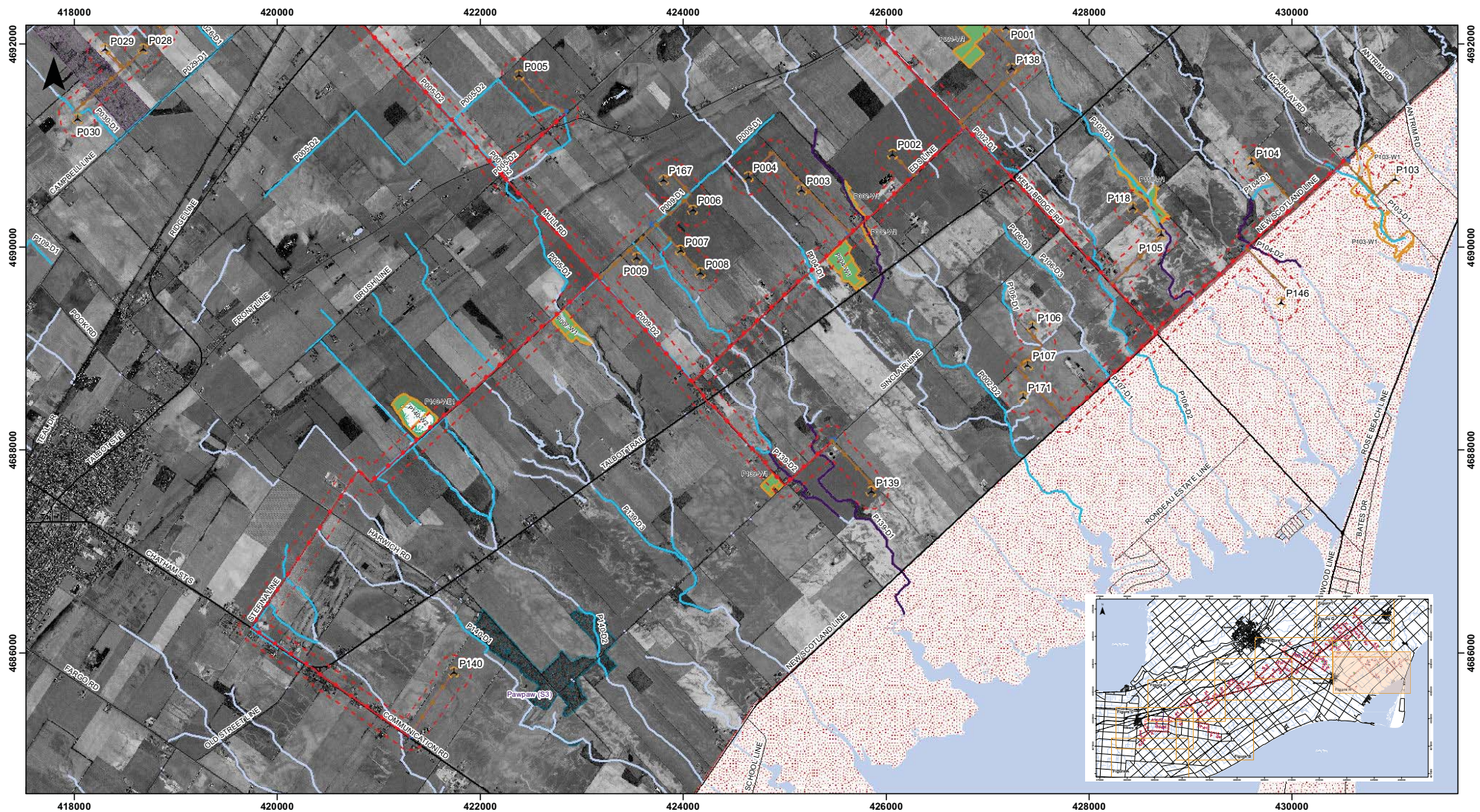


Figure H
South Kent Wind Project
Site Plan H

NATURAL RESOURCE SOLUTIONS INC.
 Aquatic, Terrestrial and Wetland Biologists

Sept 1, 2011
 Project No: NRSI-1184
 UTM Zone 17, NAD 83
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Legend

- Project Area (Aug 24, 2011)
- Constructible Area
- Proposed Turbine (L012)
- Substation
- Above Ground Cabling
- Underground Cabling
- 230kV Distribution Line
- Switch
- Access Road
- Railway
- Highway
- Primary Road
- Secondary Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Wetland Area (NRSI)
- Woodland (NRSI)
- Important Bird Area
- Seasonal Concentration Areas
- Bat Maternity Roost
- Habitat of Species of Conservation Concern
- Open Country Bird Breeding Habitat
- Habitat for Species Ranked S1-S3
- Area Sensitive Bird Breeding Habitat
- Animal Movement Corridor
- Vegetated Drain Corridor
- Railed Corridor

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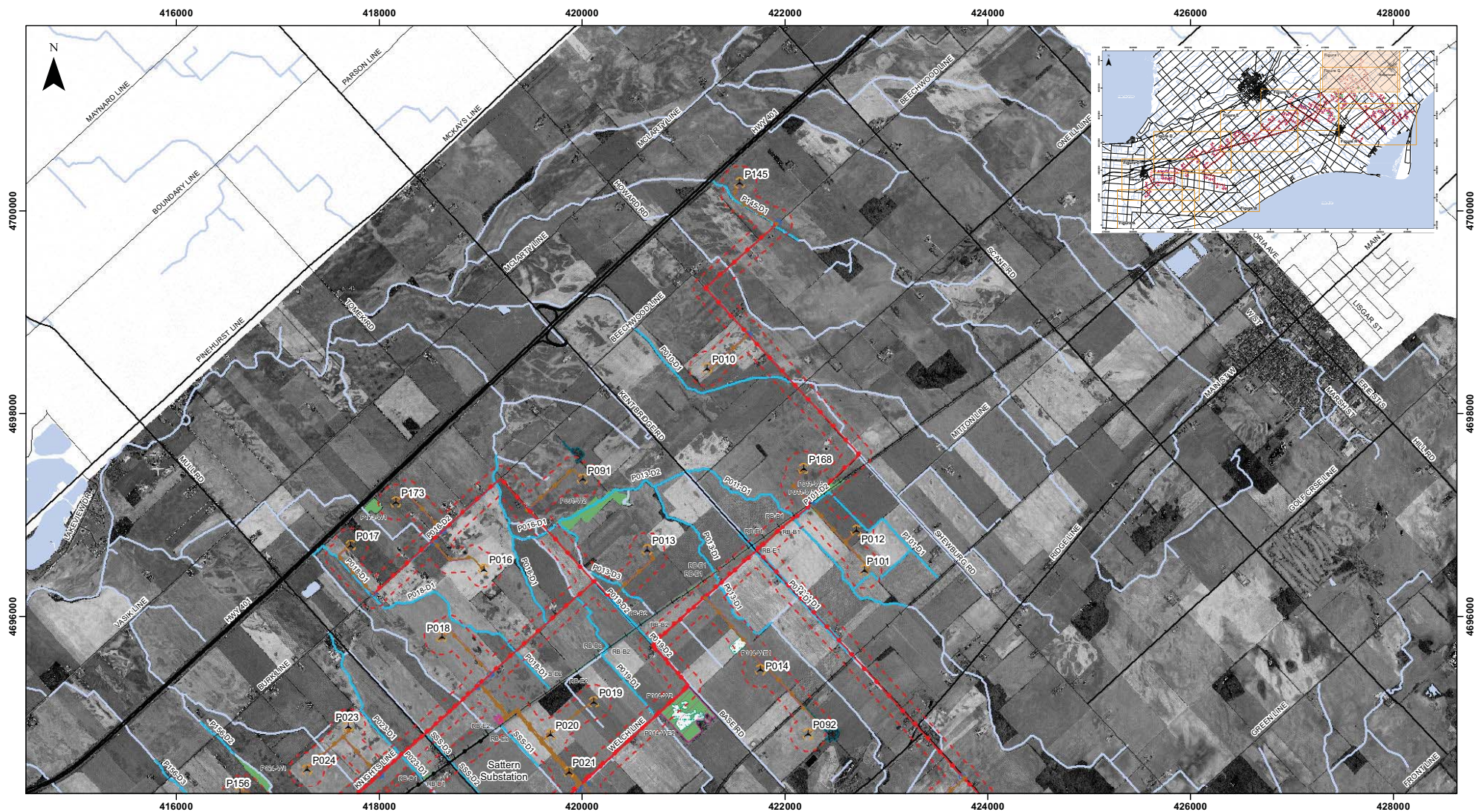


Figure I
South Kent Wind Project
Site Plan I

NATURAL RESOURCE SOLUTIONS INC.
 Aquatic, Terrestrial and Wetland Biologists

Sept 1, 2011
 Project No: NRSI-1184
 UTM Zone 17, NAD 83
 Scale: 1:35,000 (at 11x17")
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Legend

- | | | | | |
|-----------------------------|-------------------------|-------------------------|--|--------------------------------------|
| Project Area (Aug 24, 2011) | 230kV Distribution Line | Secondary Road | Important Bird Area | Area Sensitive Bird Breeding Habitat |
| Constructible Area | Switch | Watercourse (Permanent) | Seasonal Concentration Areas | Animal Movement Corridor |
| Proposed Turbine (L012) | Access Road | Watercourse (NRSI) | Bat Maternity Roost | Vegetated Drain Corridor |
| Substation | Railway | Waterbody | Habitat of Species of Conservation Concern | Railed Corridor |
| Above Ground Cabling | Highway | Wetland Area (NRSI) | Open Country Bird Breeding Habitat | |
| Underground Cabling | Primary Road | Woodland (NRSI) | Habitat for Species Ranked S1-S3 | |

Path: X:\1184_ChathamKentWF\NRSI_1184_FigA-I_SigFeatureSitePlan_35k_2011_09_01_SWM.mxd

Please Sign In

(PLEASE USE BLOCK LETTERS)

South Kent Wind Project – Final Public Meeting

Date: Saturday, September 24, 2011

Name	Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
Don / Donna Pollard		Blenheim	N0P 1W0	689-4417
David Santo		Essex	N8M 2X6	
Jensen Crasler		Tilbury	NOP 2L0	
Brad Gardiner	4354 LINDA MIDDLE	MERLIN	NOP 1W0	682 2611
Helen Dajczak	10657 Lakeview	Chatham	N7M 5J5	352-1078
Even Coak	4367 Middle Merlin, ON	Merlin	NOP 1W0	682 1093
Larry & Glada Anderson				692-4221
Leand Hawmeyer	902	Tilbury	NOP 2L0	682 1570
Doug & Dorothy Chinn	5102 Gleason R.R. 1	Tilbury	NOP 2L0	682-1849
John & Cindy Boagart	R.R. #7	Blenheim	NOP 1A0	

*Please note that all information provided on this form will become part of the formal record and will be published in Project reports that will be available for public review

Please Sign In
(PLEASE USE BLOCK LETTERS)

South Kent Wind Project – Final Public Meeting

Date: Saturday, September 24, 2011

Name	Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	

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Please Sign In

(PLEASE USE BLOCK LETTERS)

South Kent Wind Project – Final Public Meeting

Date: Saturday, September 24, 2011

Name	Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
Ann & Carl Armstrong	4092 Pollard Line	Tilbury	N0P 2L0	519-682-2055
Tom & Beth Olsen + Jim	RR #1	Blenheim	N0P 1A0	519-676-9499
MIKE & DENISE DODMAN	RR #3	TILBURY	N0P 2L0	519 682 3178
GARY LANSUE	RR #3	"	"	692-2236
JAMIE DAWSON		STONY POINT MORRIS		519-798-7300

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Please Sign In

(PLEASE USE BLOCK LETTERS)

South Kent Wind Project – Final Public Meeting

Date: Saturday, September 24, 2011

Name	Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	

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Please Sign In

(PLEASE USE BLOCK LETTERS)

South Kent Wind Project – Final Public Meeting

Date: Saturday, September 24, 2011

Name	Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
Robert Farguharson	4018 POLLARD Line RRI	Tilbury	N0P2L0	682 1944
Mr. & Mrs. Smith	4018 6045 RD. 1	Merlin	N0P1N0	689 4487
Row Boldman	19203 KENT BUCKLE	BLENHEIM	N0P1A0	674-3526
Henry Ptascynski	6444 8th Line	Merlin	N0P-1W0	354-3002
Del Jackson	Communication 21402 Rd	Blenheim	N0P-1A0	351-1984
Wm Janoue	22200	Tilbury	N0P2L0	682-4322
Serge Kreson	10151 BURKLINE	BLENHEIM	N0P1A0	676 2905
Carol Iverson	3844 Middle Line	Tilbury	N0P 2L0	682-3130
J. Burton Gilhula	31 PAXTON	Chatham	N7L 5M1	354.4094
Shirley F. Gilhula	31 Paxton	Chatham	N7L 5M1	"

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Please Sign In

(PLEASE USE BLOCK LETTERS)

South Kent Wind Project – Final Public Meeting

Date: Saturday, September 24, 2011

Name	Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
BILL & MARY ANN MACHACEK	21536 Bloomfield Rd. Chatham	Chatham	NOP 1G0	4360634
Kevin Doyle	5458 Middle Line, Merlin	Merlin	NOP1W0	6897883
Murray Doyle	5396 Middle Line, Merlin	Merlin	NOP1W0	6894969
ED WADDICK	7129 NINTH LINE	CHATHAM		519-436 0733
Shirley's Row Debussche	5178 Gleeson Line	Tilbury		519-682-3525
MIKE DORSCHEIS.	Rte 5 Blenheim	Blenheim	ON N0P1A0	519-676-3817
Joan Winifred Drummond	3036 Rosedale Line	Tilbury	NOP2L0 R3.	519-682-1879
G. Magaz	440 Dornar	Windsor	N8S3Z4	
Garry Cradock	21207	Channing Creek	NOP 1G0	436-0718

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Please Sign In

(PLEASE USE BLOCK LETTERS)

South Kent Wind Project – Final Public Meeting

Date: Saturday, September 24, 2011

Name	Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
John W. Elles	223 Garden Path	Chatham	N7L 5M 2	519 689 4042
Chuck Lippert	R.R. 6	Marlin	NOP 1W8	519 689 4591
Rick Samrozinski	Charing Cross		NOP 1G0	519-355-5580
DAN AMERLINCK	20492 Kew Bridge Rd		NOP 2C0	519-684-3048
BILL MCGUIRE	7 ODETT			519-682-2028
MIKE WADDICK	RR#5	BLENNHEIM	NOP 1A0	519 676 2760
RANDY HOPE				
Malcolm MacPherson	9474 Pinchurst	Chatham	N7M 5J3	519-351-5034

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Please Sign In

(PLEASE USE BLOCK LETTERS)

South Kent Wind Project – Final Public Meeting

Date: Saturday, September 24, 2011

Name	Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
Jim English	RR #4	Blenheim	NOP 1A0	(519) 676-3840
Ray Lewis	RR #7	Blenheim	NOP 1A0	(519) 676-2129
Tom & Sharon	Box Lewis	Ridgeway	NOP 1A0	519 674-5330
Celice Uher (Federation of Agricult)	20970 Harwick Rd. RR 7	Blenheim	NOP 1A0	519 676-2583
Lisa Hill	Box 35	Tilbury	NOP 2L0	519-682-4353
Bryan FLYNN		MUN. OF C.K.		
Ed. McMullan		Blenheim	NOP-1A0	519-676-8624
Donald J. Jones	142 Aberdeen St.	P.O. Box 2	Windsor	519-401-1313
Stephen Crackel	21207 Charming Cross Rd	Charming Cross	NOP 1G0	519-436-0718

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Please Sign In

(PLEASE USE BLOCK LETTERS)

South Kent Wind Project – Final Public Meeting

Date: Saturday, September 24, 2011

Name	Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
September MacAlpine	9474 Pinchurst	Line Chatham	N7M5J3	519-351-5034
Ona Forget	8105 11 th line	Charing Cross	N0P1G0	351-8693
Murray Moerman	10706	Blenheim	N0P1A0	676-8209
Pat Moerman	10706 Seabair ^{Li}	Blenheim	N0P1A0	676-8209
Leslie Mance		Fletcher	N0P1W0	
Jeff Wilson	R.R.1	CHATHAM	N0P1B0	431-0714
Jenny Wilson	"	"	"	"
DANIEL P. O'NEIL	7807 8 th LINE	CHATHAM	N7M-SJ6	519-436-0528 519-436-0838
Mary L Guttridge	51 Bayett. R.R. 16	Blenheim	N0P1A0	519-676-1644
Bernard Ginn	R.R. 1	Merlin	N0P1W0	519-689-4970

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SAMSUNG RENEWABLE ENERGY INC.

South Kent Wind Project Comment Sheet

Final Public Meeting: Saturday, September 24, 2011

(PLEASE USE BLOCK LETTERS)

1. Please describe where you reside in relation to the Project area? _____

Land owner prop
LAND OWNER

2. Please provide any relevant information related to the Project area which, in your opinion, should be considered in assessing the potential effects of the Project?

· migration patterns for birds + butterflies
· the abundance of small woodlots

- very responsive + polite staff - thank you!



South Kent Wind Project



SAMSUNG RENEWABLE ENERGY INC.

3. Please provide any comments, questions or concerns related to the Project.

good public response
green energy is good energy!
- thanks for investing in our community

If you would you like to be included on the Project mailing list, please provide your name and full mailing address below:

Name: J P WICKS
Mailing Address: Rm 1
CHARING

WE WELCOME YOUR INPUT. PLEASE COMPLETE AND SUBMIT THIS COMMENT SHEET BEFORE LEAVING - THANK YOU

Please note that all information provided on this form will become part of the formal record and will be published in Project reports that will be available for public review



SAMSUNG RENEWABLE ENERGY INC.

South Kent Wind Project Comment Sheet

Final Public Meeting: Saturday, September 24, 2011

(PLEASE USE BLOCK LETTERS)

1. Please describe where you reside in relation to the Project area? _____

*property next to P121 (to the
last).*

2. Please provide any relevant information related to the Project area which, in your opinion, should be considered in assessing the potential effects of the Project?

See over



South Kent Wind Project

SAMSUNG

SAMSUNG RENEWABLE ENERGY INC.

3. Please provide any comments, questions or concerns related to the Project.

P121 - cutting road with sub surface & subsurface drainage

J. Case, H. Ptaszynski properties.

close to main drains.

Want to anticipate this join headers as possible solution new 8'-14" to Bell Drain (P063-D1)

will be same as P63

If you would you like to be included on the Project mailing list, please provide your name and full mailing address below:

Name:

H. Ptaszynski

Mailing Address:

6444 Fth Line.

- want to work with on planning the solution

most important message here.

WE WELCOME YOUR INPUT. PLEASE COMPLETE AND SUBMIT THIS COMMENT SHEET BEFORE LEAVING - THANK YOU

Please note that all information provided on this form will become part of the formal record and will be published in Project reports that will be available for public review



SAMSUNG RENEWABLE ENERGY INC.

South Kent Wind Project Comment Sheet

Final Public Meeting: Saturday, September 24, 2011

(PLEASE USE BLOCK LETTERS)

1. Please describe where you reside in relation to the Project area? Land owner

within project area

2. Please provide any relevant information related to the Project area which, in your opinion, should be considered in assessing the potential effects of the Project?

- Great fit with farmer providing diversified
income source -



South Kent Wind Project



SAMSUNG RENEWABLE ENERGY INC.

3. Please provide any comments, questions or concerns related to the Project.

- Well thought out project
- Looking after all environmental concerns of land owner

If you would you like to be included on the Project mailing list, please provide your name and full mailing address below:

Name: _____

Mailing Address: _____

WE WELCOME YOUR INPUT. PLEASE COMPLETE AND SUBMIT THIS COMMENT SHEET BEFORE LEAVING - THANK YOU

Please note that all information provided on this form will become part of the formal record and will be published in Project reports that will be available for public review



SAMSUNG RENEWABLE ENERGY INC.

South Kent Wind Project Comment Sheet

Final Public Meeting: Saturday, September 24, 2011

(PLEASE USE BLOCK LETTERS)

1. Please describe where you reside in relation to the Project area? Mull Road

Between Ridge Line & Front Line.

2. Please provide any relevant information related to the Project area which, in your opinion, should be considered in assessing the potential effects of the Project?

We have 3 municipal drains on west side.

of Mull Road ① in ditch area & ~~next~~ ^② next is
Dad's from ~~so~~ north of Holdaway Road & ③

My own for 50 ac's with Bush farm.

① clay tile, ② cement Tile ③ plastic +
clay tile.

- road allowance is narrow in this area.

- road is too narrow now for large Trucks &
farm machinery



South Kent Wind Project

SAMSUNG

SAMSUNG RENEWABLE ENERGY INC.

3. Please provide any comments, questions or concerns related to the Project.

Should have been contacted about project so concerns are heard first, not use have to try & figure out what is happening. Poles are a hazard for farm equipment and help (workers). ~~the~~ Over head lines where not use to are a real hazard & danger to people not use to them put there after all these years.

If you would you like to be included on the Project mailing list, please provide your name and full mailing address below:

Name:

Jim Englist

Mailing Address:

11099 Ridge Line

Blenheim, Ontario N0P1A0

Ron Englist

11194 Ridge Line Blenheim, Ontario N0P1A0

WE WELCOME YOUR INPUT. PLEASE COMPLETE AND SUBMIT THIS COMMENT SHEET BEFORE LEAVING - THANK YOU

Please note that all information provided on this form will become part of the formal record and will be published in Project reports that will be available for public review



SAMSUNG RENEWABLE ENERGY INC.

South Kent Wind Project Comment Sheet

Final Public Meeting: Saturday, September 24, 2011

(PLEASE USE BLOCK LETTERS)

1. Please describe where you reside in relation to the Project area? _____

HOLDWAY ROAD - OWN BOTH SIDES OF
MULL ROAD NORTH OF FRONT LINE UP TO
UNION DRAIN ON WEST SIDE - UP TO HOLDWAY
LINE ON EAST SIDE

2. Please provide any relevant information related to the Project area which, in your opinion, should be considered in assessing the potential effects of the Project?

SEE OVER



South Kent Wind Project



SAMSUNG RENEWABLE ENERGY INC.

3. Please provide any comments, questions or concerns related to the Project.

→ PROPOSED ABOVE GROUND LINE ALONG MILL RD
IS NOT FEASIBLE

→ TREES ON ONE SIDE LARGE OPEN DRAIN ON
THE OTHER (TREES ON PRIVATE PROPERTY)

→ ROAD ALLOWANCE IS ALREADY MAXED OUT.

→ NONE OF LAND ALONG HERE IS SIGNED UP
FOR WIND PROJECT SO ITS USELESS FOR FUTURE
EXPANSION

→ LARGE DRAINS (TILE) RUNNING UNDERGROUND ALONG
ROAD

→ COULD BURY CABLES UNDER THE ROAD ITSELF

→ PREFER YOU FIND A DIFFERENT ROUTE!

If you would you like to be included on the Project mailing list, please provide your name and full mailing address below:

Name:

TERRY CASIER

Mailing Address:

RR #7 BLENHEIM ON

t.casier128@gmail.com

519-676-2129

WE WELCOME YOUR INPUT. PLEASE COMPLETE AND SUBMIT THIS COMMENT SHEET BEFORE LEAVING - THANK YOU

Please note that all information provided on this form will become part of the formal record and will be published in Project reports that will be available for public review



SAMSUNG RENEWABLE ENERGY INC.

South Kent Wind Project Comment Sheet

Final Public Meeting: Saturday, September 24, 2011

(PLEASE USE BLOCK LETTERS)

1. Please describe where you reside in relation to the Project area? _____

OWN PROPERTY NORTH/
WEST OF WINDMILL POOL

2. Please provide any relevant information related to the Project area which, in your opinion, should be considered in assessing the potential effects of the Project?

- TOLD AT MEETING THAT SET BACK TO ~~THE~~
PROPERTY LINE IS 60 METERS (TOWER HT.) + 10 METERS.

→ IF WINDMILLS NEEDED TO BE 450 METERS APART
THIS SET BACK SHOULD BE 225 METERS ($\frac{450}{2}$)
SO AS NOT TO IMPACT MY PROPERTY

→ NOT FAIR TO BUILD @ 70 METERS THEN
CRYSTALLIZE AREA 380 METERS INTO MY PROPERTY

3. Please provide any comments, questions or concerns related to the Project.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

If you would you like to be included on the Project mailing list, please provide your name and full mailing address below:

Name:

TERRY CASIO

Mailing Address:

RR# 7

BLENHEIM ON

519-676-2129

t.casier128@gmail.com

WE WELCOME YOUR INPUT. PLEASE COMPLETE AND SUBMIT THIS COMMENT SHEET BEFORE LEAVING - THANK YOU

Please note that all information provided on this form will become part of the formal record and will be published in Project reports that will be available for public review



SAMSUNG RENEWABLE ENERGY INC.

South Kent Wind Project Comment Sheet

Final Public Meeting: Saturday, September 24, 2011

(PLEASE USE BLOCK LETTERS)

1. Please describe where you reside in relation to the Project area? _____

LOT 14 CON 1 ECR.

2. Please provide any relevant information related to the Project area which, in your opinion, should be considered in assessing the potential effects of the Project?

TO HARVEST WIND JUST ~~MAKES~~
MAKES SENSE. GOOD LUCK.

John Desser.

3. Please provide any comments, questions or concerns related to the Project.

[illegible]

If you would you like to be included on the Project mailing list, please provide your name and full mailing address below:

Name: _____

Mailing Address: _____

[illegible]

WE WELCOME YOUR INPUT. PLEASE COMPLETE AND SUBMIT THIS COMMENT SHEET BEFORE LEAVING - THANK YOU

Please note that all information provided on this form will become part of the formal record and will be published in Project reports that will be available for public review



SAMSUNG RENEWABLE ENERGY INC.

South Kent Wind Project Comment Sheet

Final Public Meeting: Saturday, September 24, 2011

(PLEASE USE BLOCK LETTERS)

1. Please describe where you reside in relation to the Project area? _____

Harwich + DRURY Street Intersection
466000 - 4692000

2. Please provide any relevant information related to the Project area which, in your opinion, should be considered in assessing the potential effects of the Project?

Oak Tree Blind 4th Road + Drury Ave



South Kent Wind Project



SAMSUNG RENEWABLE ENERGY INC.

3. Please provide any comments, questions or concerns related to the Project.

Concerned about future connection to transmission line of generation. Concerned about stray voltage if connections are made of our System to distribution System serving customers.

Protocol in place to monitor change in stray current pre & post facility.

Have fencing ^{up to} 30 feet into road & w because of a ditch. Agreed to by Municipality reportedly.

Answer:

We have balanced Three phase system that are Transmission connected to Chatham SS. We are not connected to distribution system ~~to~~ & we shouldn't contribute to unbalanced currents responsible for stray currents from dist system. If you would you like to be included on the Project mailing list, please provide your name and full mailing address below:

Name:

Alice Uher (Kent Federation of Agriculture)

Mailing Address:

209 70 Harwich Road

RR #7 Blenheim

N0P 1A0 S19 676 2583

WE WELCOME YOUR INPUT. PLEASE COMPLETE AND SUBMIT THIS COMMENT SHEET BEFORE LEAVING - THANK YOU

Please note that all information provided on this form will become part of the formal record and will be published in Project reports that will be available for public review



SAMSUNG RENEWABLE ENERGY INC.

South Kent Wind Project Comment Sheet

Final Public Meeting: Saturday, September 24, 2011

(PLEASE USE BLOCK LETTERS)

1. Please describe where you reside in relation to the Project area? Ridge Line 11099.

~~400~~ The Tower on Marc Campbell's
~~farm~~

2. Please provide any relevant information related to the Project area which, in your opinion, should be considered in assessing the potential effects of the Project?

I understand that the land for
400 m is Crystallized.
This should be split between you's
and me 200 m each.
If I signed I would agree.
I did not sign so I
want fair set back for myself
for future so that I can build
my own tower later or sign with
another company.



South Kent Wind Project



SAMSUNG RENEWABLE ENERGY INC.

3. Please provide any comments, questions or concerns related to the Project.

Crystallize fairly for all
-should only be able to do this
if property for 400m is signed
up with the company building towers

If you would you like to be included on the Project mailing list, please provide your name and full mailing address below:

Name:

Jim English

Mailing Address:

11099 Ridge Line Blenheim, Ont
N0P 1A0

WE WELCOME YOUR INPUT. PLEASE COMPLETE AND SUBMIT THIS COMMENT SHEET BEFORE LEAVING - THANK YOU

Please note that all information provided on this form will become part of the formal record and will be published in Project reports that will be available for public review

South Kent Wind

Fact Sheet / 2011

Owner	Samsung Renewable Energy and Pattern Energy Joint Venture
Location	Chatham-Kent, Ontario
Turbine Manufacturer	Siemens Energy
Number of Turbines	Approximately 125
Project Capacity	270 MW
Power Equivalent	73,000 homes
Target Construction Start	First Quarter 2012
Target Operation Start	First Quarter 2013
Permanent Jobs	Up to 20
Construction Jobs	Up to 300
Estimated Tax Revenue	\$800,000 per year



Pattern and Samsung are jointly proposing to develop the South Kent Wind Farm, a 270 MW wind energy project, which will be located within the Municipality of Chatham-Kent. Once complete, the project will produce clean and renewable energy equivalent to the annual needs of 73,000 Ontario homes.

The electricity produced by South Kent Wind will offset more than 877,000 tonnes of carbon dioxide a year compared to electricity generated by coal – the equivalent as taking 157,000 cars off the roads each year. The project will also bring many benefits to the Chatham-Kent region, including the creation of employment positions, the strong capital infusion from the tax and royalty payments, and the economic ripple effect resulting from the project.

We are in the final stages of completing the environmental reports and necessary site studies required under the Renewable Energy Approval (REA) process. The draft reports and project turbine layout are now available on the website, www.southkentwind.ca, and in the South Kent Wind office located at 57 Talbot Street West in Blenheim.

Your comments are important to us. You can contact the project team by emailing southkentwind@patternenergy.com, calling (519) 676-0237, or stopping by the South Kent Wind project office. We are always seeking ways to contribute to communities where we build projects and look forward to announcing a South Kent Wind community benefits package soon.



ABOUT PATTERN

Pattern Energy Group LP is one of North America's leading independent wind and transmission companies. Our mission is to provide our customers with clean, renewable energy, which we seek to achieve by developing, constructing, owning and operating projects that are built for lasting success.

Pattern commenced operations in June of 2009 as one of the most experienced and best-capitalized renewable energy and transmission development companies in the United States when a private equity fund managed by Riverstone Holdings LLC, an energy and power-focused private equity firm with the largest renewable energy fund in the world, and our Executive Management Team purchased our thriving energy business and development pipeline to form Pattern.

The Pattern team employs more than 100 highly-skilled scientists, legal and financial professionals, engineers, and construction and operations experts located in San Francisco, Houston, San Diego, New York and Toronto. We are all devoted to a common purpose: developing high performance renewable energy and transmission projects.

Pattern has 525 MW of wind projects in operation, including our 138 MW St. Joseph Wind Farm in southern Manitoba. We are growing and building on our current development pipeline, which includes over 4,000 MW of wind projects and multiple transmission projects in the United States, Canada and Latin America.

ABOUT SAMSUNG C&T CORPORATION

Founded in 1938, Samsung C&T is the mother company of the Samsung Group, South Korea's largest conglomerate with interests in electronics, chemicals, finance, and numerous other fields. Today, the company's two business groups – Trading & Investment and Engineering & Construction – are involved in a broad and growing portfolio of businesses, delivering creative, integrated business solutions to customers worldwide through a network of over 100 offices in 44 countries. Both business groups have achieved many landmark accomplishments over the years in preparation for such an opportunity - among them, launching one of Korea's first solar energy projects and building the world's tallest skyscraper.

Samsung C & T, Korea Electric Power Corporation (KEPCO) and Pattern Energy plan to build and operate the world's largest renewable energy cluster in Southern Ontario. Samsung is proud to be part of an endeavour that will bring not just clean energy to Ontario households but many new jobs. Samsung was selected by the Ontario Government for its rapidly expanding expertise in the alternative energy field, but also for the proven track record of constructing projects of similar scale from planning and financing through to execution. Samsung and its partners intend to take advantage of Ontario's talented workforce and hire locally.

Samsung C&T is an emerging global leader in new and renewable energy solutions with projects in Canada, the United States, Costa Rica, Korea, France, Italy, Greece, and Turkey.



Samsung Renewable Energy
and Pattern Energy

Welcome You to the Final Public Meeting for the South Kent Wind Project

Saturday November 12, 2011

2:00pm to 5:00pm

Tilbury Knights of Columbus Hall,
22 Dupuis Avenue, Tilbury, ON

Purpose of this Final Public Meeting

Stakeholder Input:

An important aspect of the Renewable Energy Approval (REA) process is stakeholder input. This meeting provides you with an opportunity to:

- » Provide verbal or written comments on the REA supporting documents (such as the Design and Operations Report)
- » Raise concerns or issues regarding the proposed Project and the REA supporting documents
- » Ask any questions regarding the proposed Project and the REA supporting documents
- » Gain a greater understanding of the proposed Project, Samsung Renewable Energy and Pattern Energy

You can provide comments or concerns the following ways:

- » Fill out a comment sheet provided at this public meeting.
If you provide your mailing address this can be used to add your information to the Project mailing list
- » Discuss with any of the Project representatives present at this meeting
- » Contact the Hatch or BowArk Energy representatives:

Kimberley Arnold, BSc, MES
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, Ontario, L2E 7J7
Tel: 905-374-0701 Ext.5318
Fax: 905-374-1157
Email: karnold@hatch.ca

Keith Knudsen
BowArk Energy Ltd.
915, 530 8th Avenue SW
Calgary, Alberta T2P 3S8
Tel: 403-264-2259
Fax.: 403-261-1708
Email: kknudsen@bowark.com

Please visit www.southkentwind.ca for more information

South Kent Wind Project



Pattern Energy

Pattern is one of North America's leading independent wind and transmission companies. Our mission is to provide our customers with clean, renewable energy, which we seek to achieve by developing, constructing, owning and operating projects that are built for lasting success.

Commitment to community is one of Pattern's core values. We are dedicated to building strong relationships with our landowners, communities, business partners, and customers. We are also committed to the environment, and we make the effort and take the time to understand and minimize our projects' impact on local habitat and wildlife.

We work with landowners to help them transform their land's renewable resource into a steady revenue stream. We are strong supporters of the local communities we work in, and strive to be a good corporate citizen and neighbor. Skilled contractors and vendors help to build our projects, and we frequently join together with local development partners who bring expertise and knowledge of the area. At the end of this process are the customers who purchase the energy we produce. All are critical partners in our mission to provide consumers with clean, renewable energy.

BowArk Energy

Pattern Energy and BowArk Energy have a long history of developing projects together in Canada. BowArk Energy has been developing Projects for the past 8 years, and is currently acting as a development partner with Pattern on the South Kent Wind Project. BowArk is assisting in permitting activities and landowner relations as it relates to the Renewable Energy Approval Process.

Pattern Energy and Samsung Renewable Energy have retained Hatch Ltd. to undertake the REA process. Hatch is an Ontario-based consulting, engineering, environmental and management company with operations worldwide and a reputation for excellence acquired over 85 years of continuous service to its clients.



South Kent Wind Project



Samsung



Since the company began in 1938, we have brought advanced technology and product excellence to fields as diverse as resource development, textiles, plastics, finance, construction – even fashion. Increasingly, we have shifted our focus to alternative energy in line with global aspirations for a greener world. Samsung is embracing the green-growth paradigm by focusing on energy and the environment, natural resources, and industrial material.

Samsung is comprised of many companies, one of which is Samsung C&T. It is Samsung C&T's two business divisions – Trading & Investment Group and Engineering and Construction Group with its partners – that will be building and operating the Wind and Solar Power Projects here in Ontario. Samsung has logged many milestones over the years in preparation for such an opportunity. Among them, launching Korea's first solar energy project.

*In a changing world, our company mission remains constant:
To create superior products and services, thereby contributing to a better global society.*

This vision has helped Samsung C&T emerge as a leading player in the new and alternative energy sector, offering solutions to customers worldwide through a network of over 100 offices in 44 countries.

Kepco

Kepco (Korea Electric Power Corporation) is South Korea's sole vertically integrated power utility, handling generation, transmission, distribution, and sales. It operates a total of 10 subsidiaries, six of which are directly involved in power generation. The company has a generation capacity of 64,500MW, making it one of the world's top power utilities. Kepco aims to lead the industry in low-carbon generation, high-efficiency transmission and distribution, and other green technologies. Kepco is building a global business infrastructure encompassing nuclear, hydro, renewable energy, and resource development as it pursues business opportunities around the world.



Project Location

The Project is located south of Highway 401 between the Towns of Tilbury and Ridgeway to the west and east, respectively, within the Municipality of Chatham-Kent in southwestern Ontario.

Project Description

The Project is described as a Class 4 Wind facility with a nameplate capacity of up to 270 MW consisting of approximately 130 wind turbines, as well as supporting infrastructure, including access roads, buried cables and overhead collector lines. A 34.1 km 230 kV transmission line and two (2) substations are required to step the voltage from 34.5kV to 230 kV to enable connection to the Chatham Switching Station (SS).

REA Project Schedule

First Public Meeting – November 22, 2010 and November 23, 2010

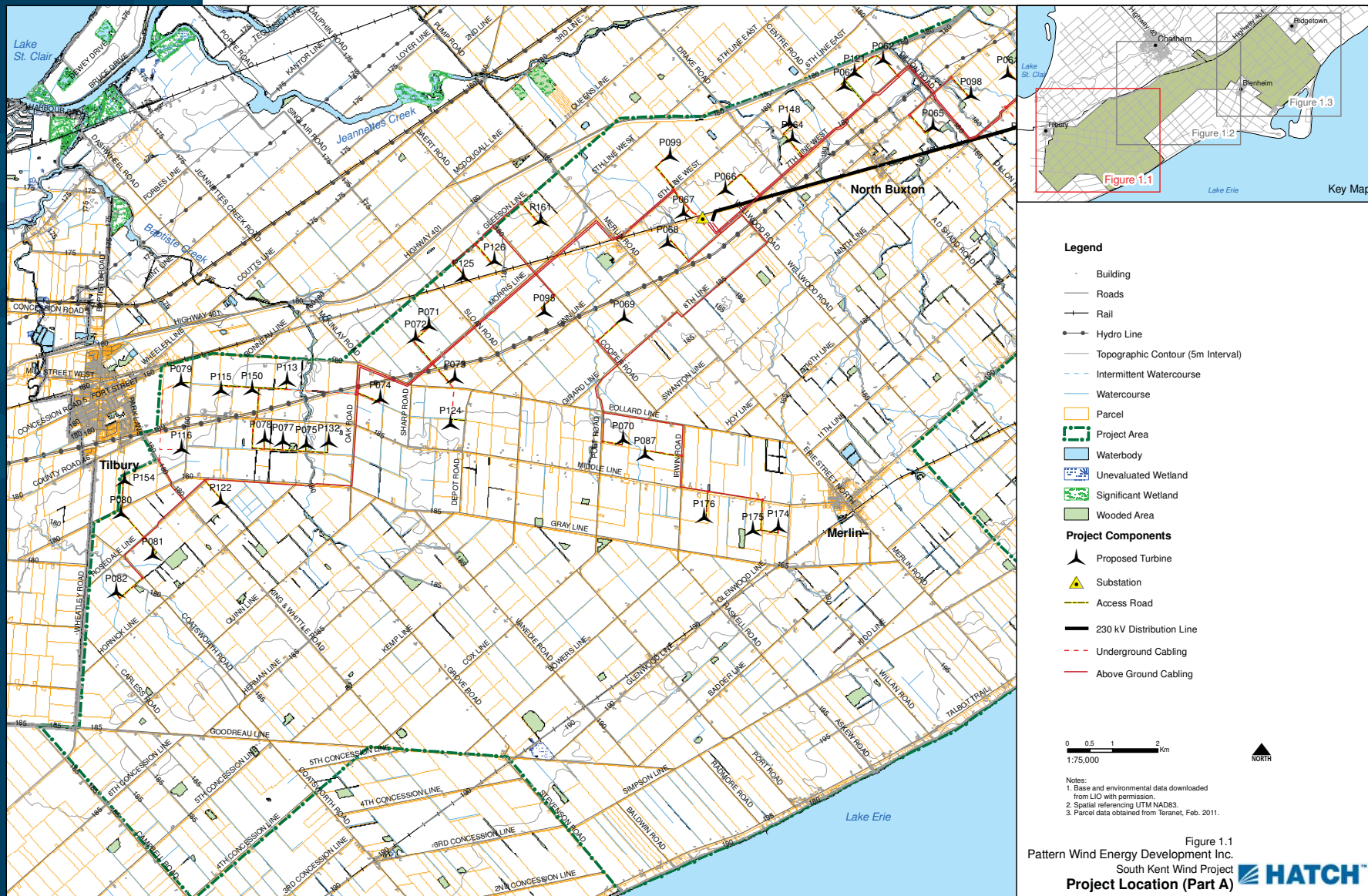
Second Public Meeting – September 24, 2011

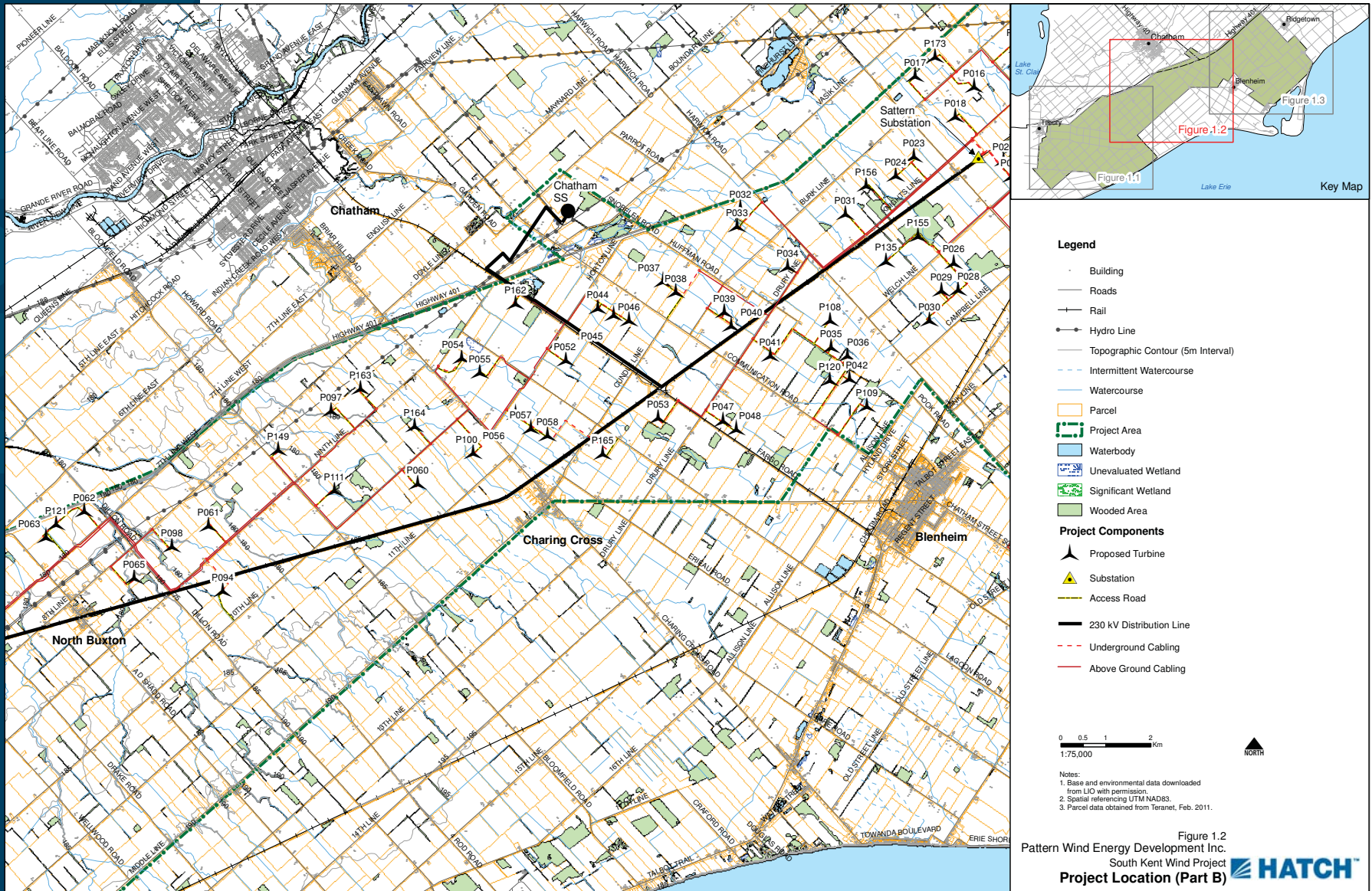
Final Public Meeting – November 12, 2011

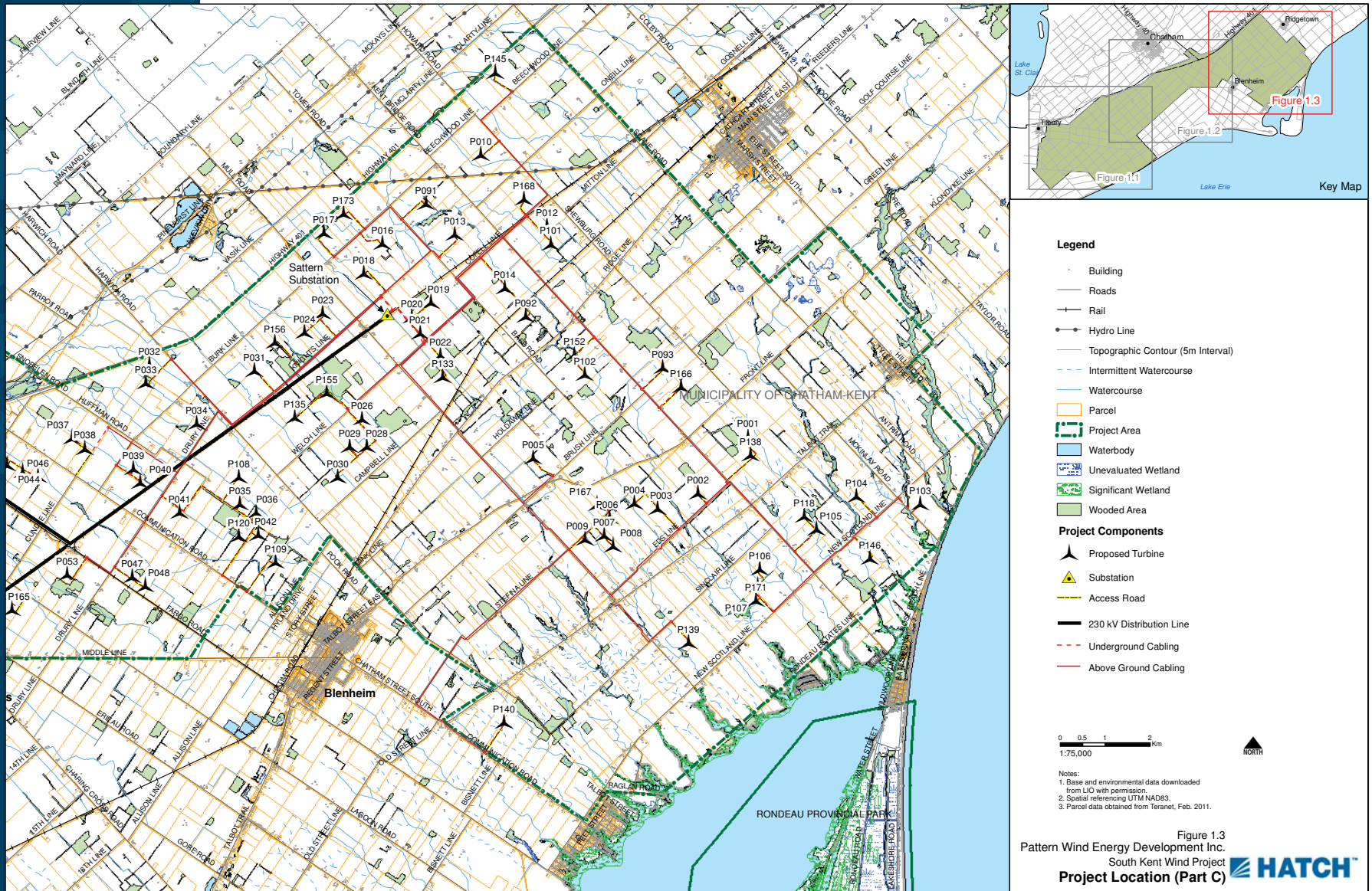
REA Received –Early 2012

Start of Construction – Mid-2012 (subject to receiving final REA)

Commercial Operation Date –2013







Natural Features

Roadside surveys were completed at each site, and if the Project is to be located within 120 m of a natural feature, individual site surveys were completed. These individual site surveys confirmed the boundaries of the feature and collected more detailed vegetation community information.

Each feature was assessed for significance based on criteria from the Ministry of Natural Resources Natural Heritage Reference Manual and Significant Wildlife Habitat Technical Guide.

A total of 86 significant natural features were identified on or within 120 m of the Project location. Results include:

- » A total of 34 of the 42 significant woodlands were identified as being indirectly impacted by the Project. 3 woodlands are located directly adjacent to proposed above or below ground cabling and 4 woodlands would have the above/below ground cabling installed within the woodland.
- » 5 significant wetlands within 120 m of the Project location were identified. No direct encroachment will occur within the significant wetlands.
- » 11 bat maternity roosts are present on and within 120 m of the Project location. No direct encroachment will occur within these significant natural features.
- » 2 open country bird breeding habitats were identified on and within 120 m of the Project location. Underground cabling and access roads would occur within these habitats.
- » Fifteen significant woodland habitats for 3 bat species of concern (Eastern Small-footed Bat (*Myotis leibii*), Northern Long-eared Bat (*Myotis septentrionalis*), and Tricolour Bat (*Perimyotis subflavus*) are located within 120 m of wind turbines and associated infrastructure. Direct encroachment would occur only in one significant habitat.

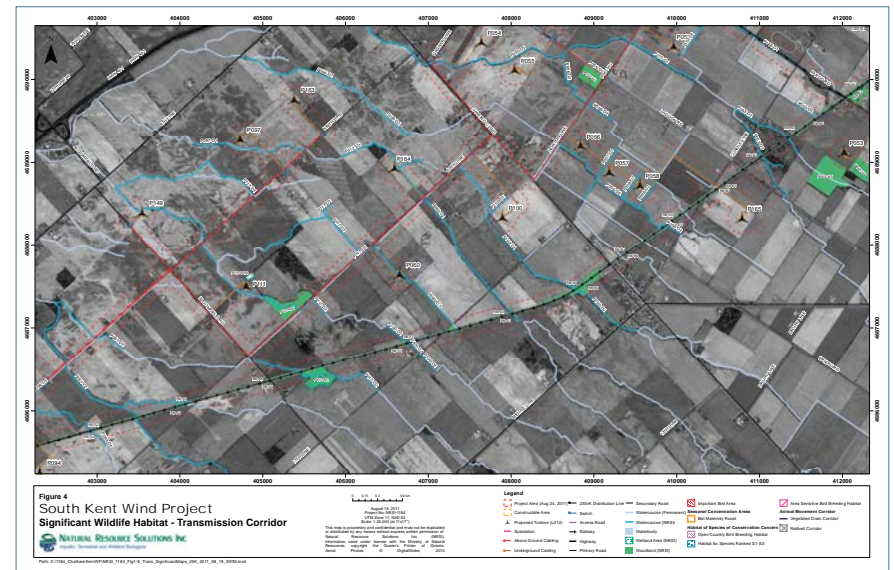
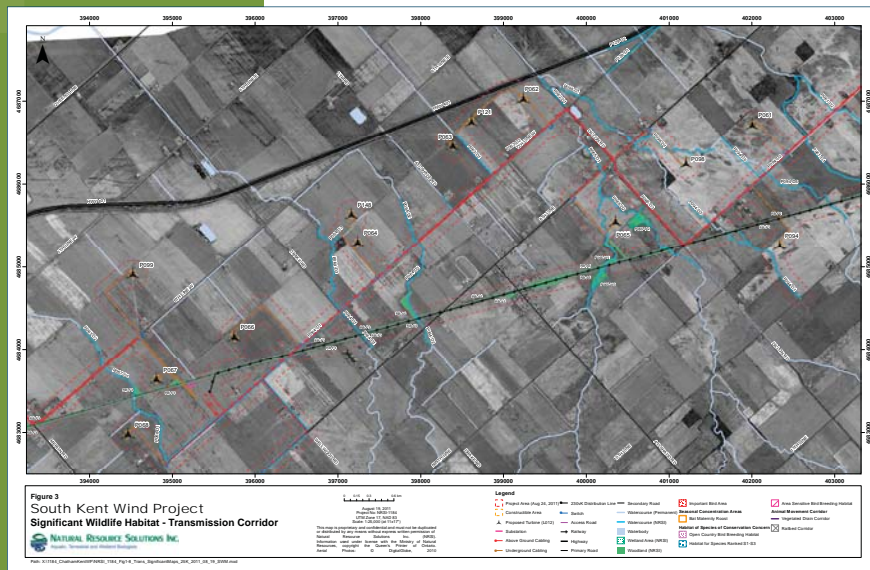
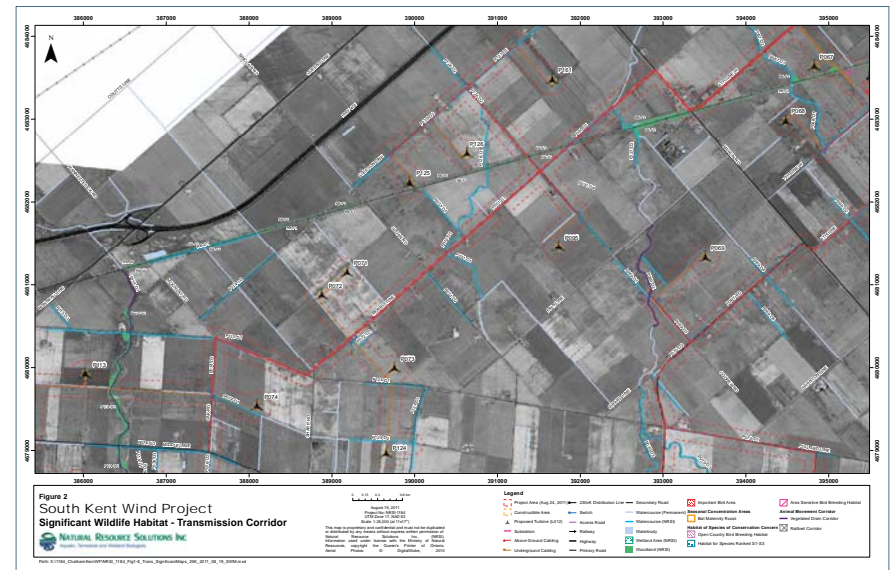
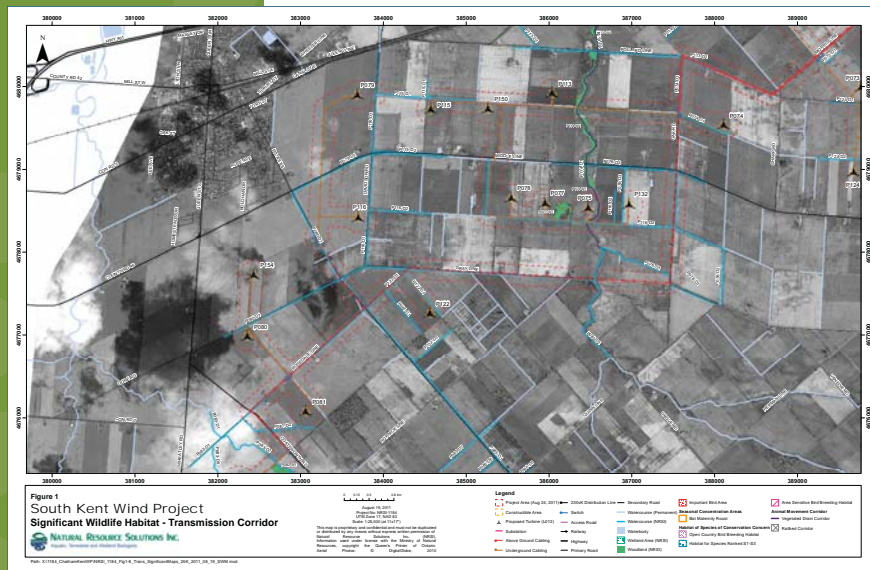
- » 8 animal movement corridors were identified on and within 120 m of the Project location. 7 are associated with watercourses and 1 associated with the vegetated corridor along the railway line. The 7 watercourse animal movement corridors are interrupted at various locations by municipal and farm access roads. While components of the transmission line (and service road) will be within the railway animal movement corridor, the transmission poles and the service road would temporarily limit but not prevent the movement of wildlife through this area.

Mitigation Measures

A variety of mitigation measures will be implemented throughout the Project. Examples of mitigation measures include:

- » Clearly marked work areas, to limit impact of construction
- » Where possible, vegetation and earth moving activities to occur outside of the bird breeding season; otherwise an avian biologist will determine if nests are located in the Project footprint and if so, appropriate avoidance will be maintained until the birds leave the nest
- » Reduced speed on access roads
- » Daily monitoring for wildlife and establishment of wildlife encounter protocols
- » Erosion and sedimentation control measures (e.g. silt fence barriers, straw bale flow checks) will be in place to minimize and sediment into significant habitats
- » Post-construction monitoring of birds and bats in accordance with MNR requirements and guidelines will be completed. Should mortality be greater than stipulated levels, the Proponent will discuss mitigation measures with MNR and implement accordingly.

For more details on mitigation measures please see the Natural Heritage Environmental Impact Study.



Aquatic Environment

Roadside surveys were completed at each site to either confirm the presence or absence of a water body. Individual site surveys were conducted at each location where a water body is within 120 m of a Project component.

The water bodies and associated habitat characteristics (including aquatic vegetation, substrates, water depths, temperatures, etc.) found within the Project area are typical of the southwestern Ontario landscape. An extensive system of drains has been established to facilitate land drainage for agricultural practices. These drains represent a large proportion of the water bodies found throughout the Project area, typically located alongside roads and agricultural fields. Additional permanent and intermittent streams are found as naturally vegetated tributaries that flow either northward to the Thames River and ultimately into Lake St. Clair or southward into Rondeau Bay or Lake Erie. A summary of water bodies is as follows:

- » A total of 367 water body observations were included in the report including 188 observations from the investigations carried out in 2010 and 179 in 2011.
- » Confirmation of the presence of 218 water body locations consisting of 139 different drains are within 120 m of the South Kent Wind Project. Additionally, 244 total crossing locations where water bodies are crossed by project infrastructure were documented. Of these, 162 crossings are attributed to aboveground cabling, 9 are access roads only, 9 are underground cabling only, and 69 are a crossing location that includes both access roads and underground cabling at the same location.

- » None of the documented water bodies are found within 30 m of a turbine location. A total of 19 water bodies were documented within 30 m of the project location, including measurements from access roads, cabling, and the extent of blade sweep area surrounding the turbine locations.
- » No lakes, lake trout lakes were identified within the Project area, however a total of 8 sites were found to have aquatic vegetation (i.e., watercress) indicative of groundwater seepage areas.
- » Essential habitat for fish and other aquatic organisms is provided in many of these streams year round and therefore careful consideration must be given in order to protect the streams from immediate or prolonged degradation.

Mitigation Measures

A variety of mitigation measures will be implemented throughout the Project. Examples of mitigation measures include:

- » Erosion and sedimentation controls measures (e.g. silt fence barriers, straw bale flow checks) will be in place to minimize any sedimentation into nearby water bodies.
- » Stormwater management measures (e.g. site revegetation) to allow water to naturally percolate into the ground will be implemented to maintain natural and original drainage
- » Spill response measures (e.g. spill kits and emergency response plan) will be implemented to minimize the potential for spill adjacent to a water body

For more details on mitigation measures please see the Water Body Heritage Environmental Impact Study.

Anticipated Construction Schedule

Activity	Start	Finish
REA Approval (Estimate)	Spring 2012	Spring 2012
Turbine Procurement, Fabrication & Delivery	Spring 2012	Spring 2013
Mobilize	Spring 2012	Summer 2012
Installation of Site Access Components	Summer 2012	Winter 2013
Safety and Security	Summer 2012	Fall 2013
Temporary Facilities	Summer 2012	Summer 2013
Power and Communication	Summer 2012	Summer 2013
Turbine Site Preparation	Summer 2012	Winter 2013
Foundations	Summer 2012	Spring 2013
Turbine Erection	Fall 2012	Spring 2013
Electrical Systems	Fall 2012	Spring 2013
Commissioning	Fall 2012	Summer 2013
Commercial Operation Date	Summer 2013	Summer 2013
Remediation and Demobilization	Summer 2013	Fall 2013

Project Construction

Construction expected to occur from 7:00 am to 7:00 pm Monday through Saturday for the duration of construction. If required, the daily construction time could be extended to 11:00pm as per Municipal by-law.

Site Preparation

- » Staking and surveying, clearing and grubbing, if required
- » Installation of security measures, e.g fencing
- » Preparation of construction staging areas

Construction of Facility

- » Construction of access roads
- » Installation of foundations for turbines
- » Base preparation for substations
- » Wind turbine and substation installation
- » Installation of distribution and transmission lines
- » Testing and commissioning

Site restoration

- » All construction material and temporary facilities will be removed and disposed of properly
- » Top soil will be backfilled where appropriate to achieve property drainage
- » Re-vegetation and hydro-seeding to occur, where needed

Traffic and Roads

- » Only designated transportation routes will be followed
- » Proper signage for detours will be promptly displayed
- » Flagman and police escorts will be used as necessary

Safety

- » Fencing and signs will be used to mark off construction zones
- » Spills will be handled by the procedures outlined in the Emergency Response Plan

Design and Operations

Project Components

Project Component	Number	Description
Wind Turbine	130	Siemens SWT-2.3-101
Substation	2	Sattern and Railbed substations – prefabricated building, transformer to be surrounded by 5 - 6 m tall sound barriers

Project Operations

- » Real time monitoring of the Project will occur remotely to adequately ensure the performance and safety of the wind turbines.
- » Weekly and monthly maintenance activities are to occur throughout the life of the Project.



Decommissioning

It is anticipated that the Project will have a useful lifetime of at least 20 years, which can be extended further with proper maintenance, component replacement and repowering. It is assumed that the Project will be decommissioned after the conclusion of its useful economic life.

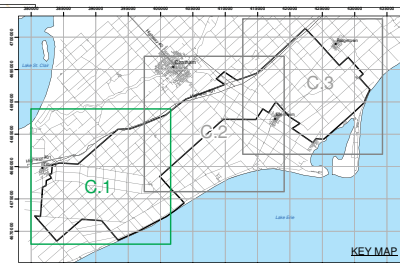
Activities involved in decommissioning include:

- » removal of the wind turbines and all electrical appurtenances for salvage
- » removal of foundations and any access roads not wanted for future farming purposes to a depth suitable for ploughing (approximately 1.0 m)
- » replacement of topsoil to a depth of surrounding undisturbed lands and plant with suitable ground cover dependant on time of year and in consultation with property owner



Noise

A detailed analysis of the noise to be emitted by the Project has been conducted. As per Ministry of Environment guidelines, noise levels will not exceed 40 dBA at non-participating receptors any time of day or night.



LEGEND

Other Turbines, 19Jul11

Sound Pressure Levels (dBA)



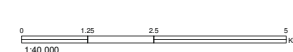
- ROAD
- RAIL
- INTERMITTENT WATERCOURSE
- WATERCOURSE
- EXISTING TRANSMISSION LINE
- PARCEL
- WATERBODY
- SIGNIFICANT WETLAND
- WOODED AREA

PROJECT COMPONENTS

- POINT OF RECEPTION - EXISTING
- POINT OF RECEPTION - VACANT
- PROJECT AREA (PROJECT AREA INDICATED SHOWS PERIMETER ONLY AND NOT SPECIFIC LANDS USED FOR THE PROJECT)
- SOUTH KENT TURBINE
- ADJACENT WIND FARM TURBINE
- SOUTH KENT SUBSTATION
- ADJACENT WIND FARM SUBSTATION

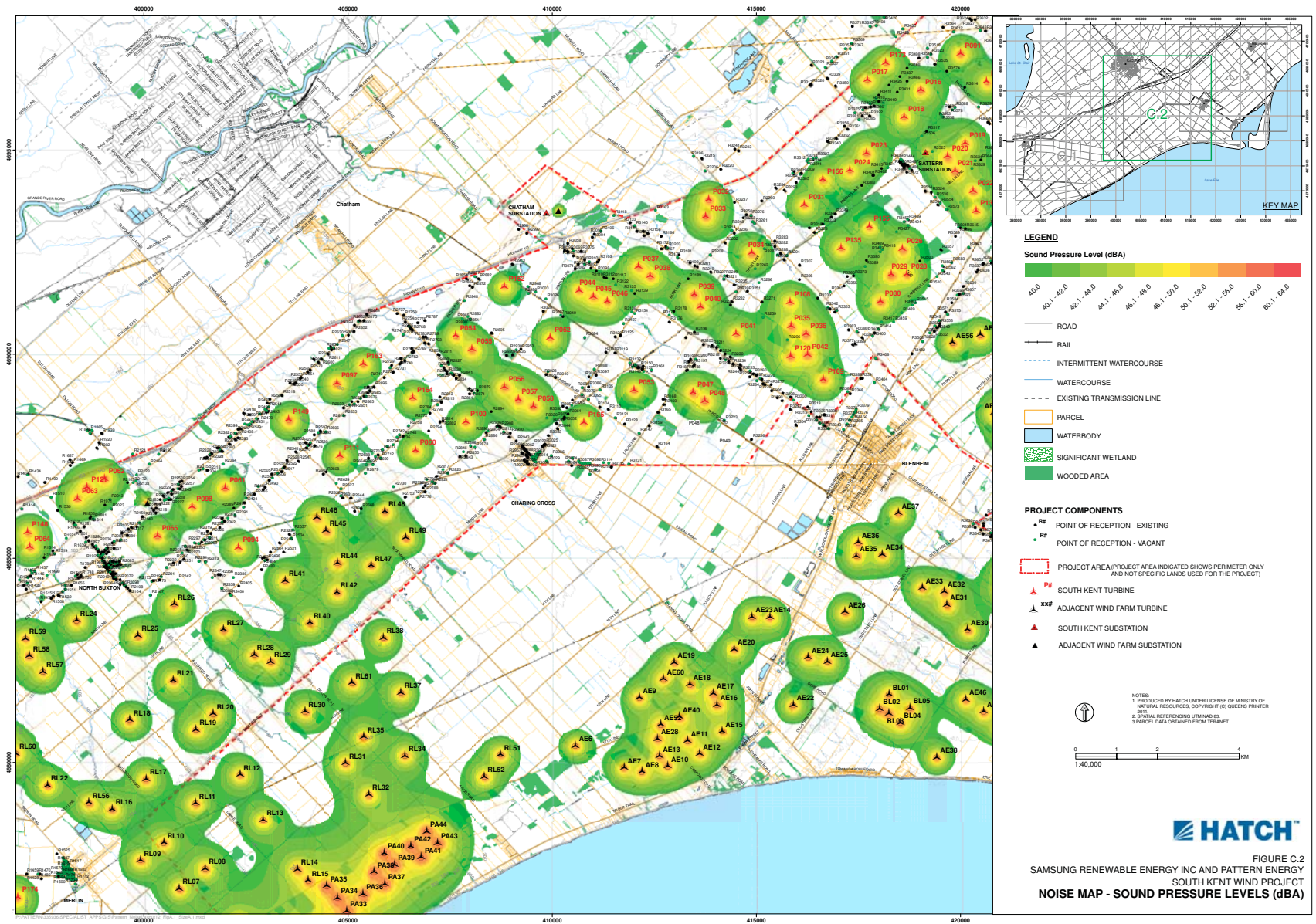


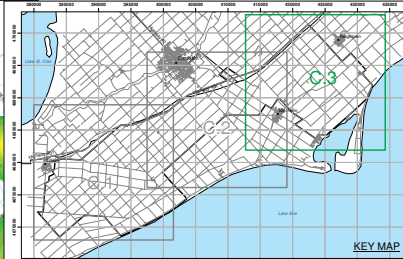
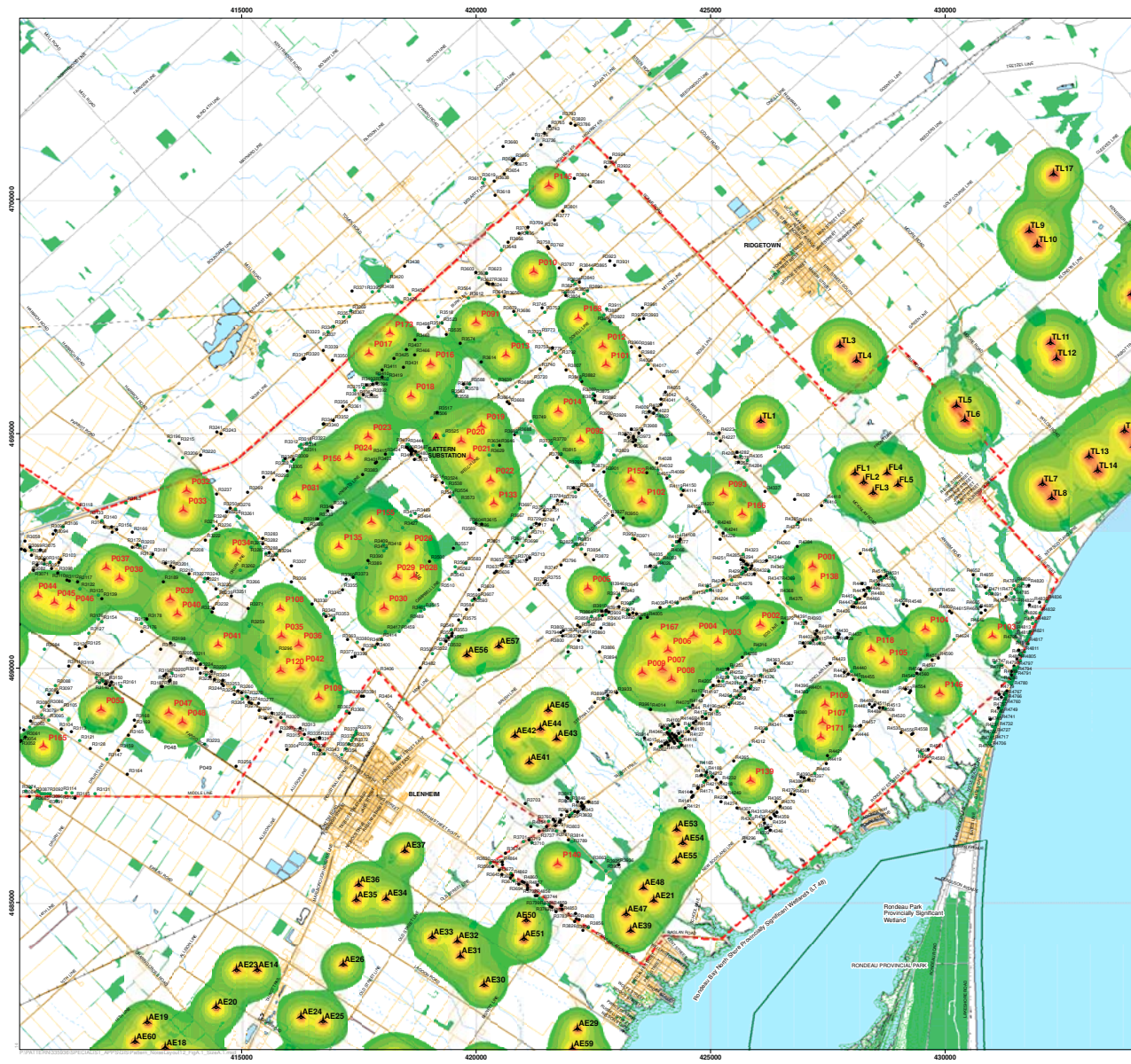
NOTES:
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2. SPATIAL REFERENCING UTM NAD 83.
3. PARCEL DATA OBTAINED FROM TERAMET.



HATCH

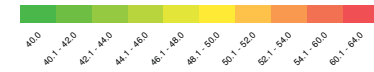
FIGURE C.1
SAMSUNG RENEWABLE ENERGY INC AND PATTERN ENERGY
SOUTH KENT WIND PROJECT
NOISE MAP - SOUND PRESSURE LEVELS (dBA)





LEGEND

Sound Pressure Levels (dBA)



- ROAD
- RAIL
- INTERMITTENT WATERCOURSE
- WATERCOURSE
- EXISTING TRANSMISSION LINE
- PARCEL
- WATERBODY
- SIGNIFICANT WETLAND
- WOODED AREA

PROJECT COMPONENTS

- P# POINT OF RECEPTION - EXISTING
- R# POINT OF RECEPTION - VACANT
- P# SOUTH KENT TURBINE
- XX# ADJACENT WIND FARM TURBINE
- S# SOUTH KENT SUBSTATION
- AE# ADJACENT WIND FARM SUBSTATION

NOTES:
 1. PRODUCED BY HATCH UNDER LICENSE OF MINISTRY OF NATURAL RESOURCES COPYRIGHT © CADENIS PAPER 2011
 2. SPATIAL REFERENCE UTM NAD 83
 3. PARCEL DATA OBTAINED FROM TERANET



FIGURE C.3
 SAMSUNG RENEWABLE ENERGY INC AND PATTERN ENERGY
 SOUTH KENT WIND PROJECT
 NOISE MAP - SOUND PRESSURE LEVELS (dBA)

Property Values

"In the study area, where wind farms were clearly visible, there was no empirical evidence to indicate that rural residential properties realized lower sale prices than similar residential properties within the same area that were outside of the viewshed of a wind turbine."

Canning, G., and L. J. Simmons. (February 2010). Wind Energy Study Effect of Real Estate Values in the Municipality of Chatham-Kent. Canning Consultants Inc. & John Simmons Realty Services Ltd. Prepared for the Canadian Wind Energy Association.

"Research collected data on almost 7,500 sales of single family homes situated within 10 miles of 24 existing wind facilities in nine different U.S. states. The conclusions of the study are drawn from eight different hedonic pricing models, as well as both repeat sales and sales volume models".

The various analyses are strongly consistent in that none of the models uncovers conclusive evidence of the existence of any widespread property value impacts that might be present in communities surrounding wind energy facilities. Specifically, neither the view of the wind facilities nor the distance of the home to those facilities is found to have any consistent, measureable, and statistically significant effect on home sales prices.

Although the analysis cannot dismiss the possibility that individual homes or small numbers of homes have been or could be negatively impacted, it finds that if these impacts do exist, they are either too small and/or too infrequent to result in any widespread, statistically observable impact."

Hoen, B., Wiser, R., Cappers, P., Thayer, M., and G. Sethi. (December 2009). The Impact of Wind Power Projects on Residential Property Values in the United States: A Multi-Hedonic Analysis. Ernest Orlando Lawrence Berkeley National Laboratory. Prepared for the Office of Energy Efficiency and Renewable Energy.



Community Benefits

Supports the local economy by:

- » Purchasing good and services during construction and operation
- » Significantly increasing revenue for all service businesses, i.e. local restaurants and hotels during construction and operations

Significantly contributes to the tax base annually with approximately \$800,000/year, benefiting:

- » Local Government and Related Services
- » Lambton Kent School District

Through land lease agreements with landowners, the Project will provide additional income for farmers

Job Creation

Construction

Job opportunities: up to 300 positions during peak construction periods

- » Subcontractors experienced in civil work (grading, excavation, and concrete), electrical work, and mechanical assembly
- » Construction managers, electricians, heavy equipment operators and general labourers for assembly & civil work

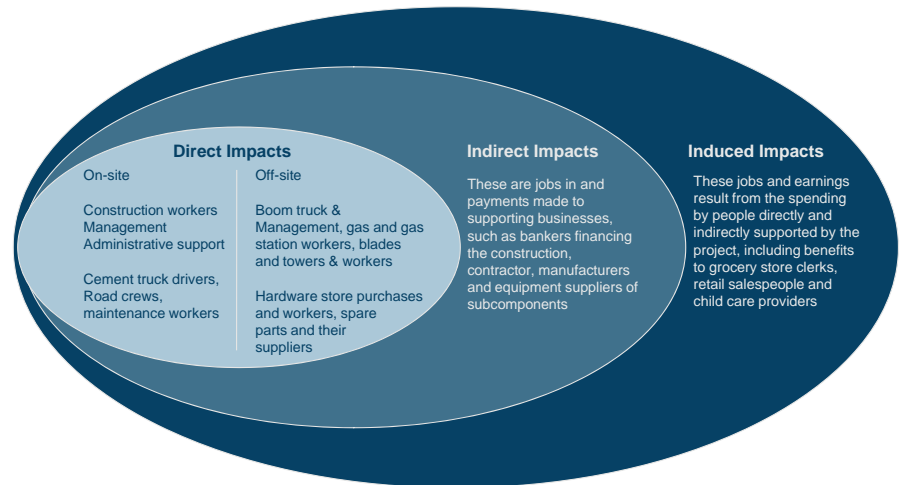
Operation

- » Maintenance personnel proficient in mechanics or electrical/electronic technicians

Manufacturing

- » This project is part of the Samsung Green Energy Investment Agreement, which is committed to the establishment of four manufacturing facilities in the Province of Ontario. The manufacturing facilities will create:
 - 900 or more jobs (from 4 manufacturing facilities)
 - 550 or more (steel industry etc.) (excluding construction, operation & maintenance jobs)

Wind Energy's Economic Ripple Effect



Source: National Renewable Energy Lab



Environmental Benefits of 270 MW of Wind Energy Compared to Coal-Fired Generation

Carbon Dioxide Emissions Reduced

877,077 tonnes/year

157,172 car equivalent

Coal

409,491 tonnes/year

Sulfur Dioxide

3,940 tonnes/year

Nitrogen Oxides

1,331 tonnes/year

Water Conserved

1,840,610,359 litres/year

5,042,768 litres/day

56,031 people each day



Sources: Based on information from the Energy Information Administration, National Energy Technology Laboratory, and U.S. Geological Survey. Annual emission offsets based on 270 MW wind project offsetting coal-fired generation, using capacity factor for Chatham-Kent area and accounting for regular turbine maintenance. Water conserved compared to coal-fired generation (541 gallon/MWh), source American Wind Energy Association. People supplied figure based on USGS estimation of 80-100 gallons/day per capita water consumption, US Geological Survey, "Water Q&A: Water use at home," <http://ga.water.usgs.gov/edu/qahome.html>.

Blowing Smoke: Correcting Ontario Anti-Wind Myths

• Myth 1: Health impacts

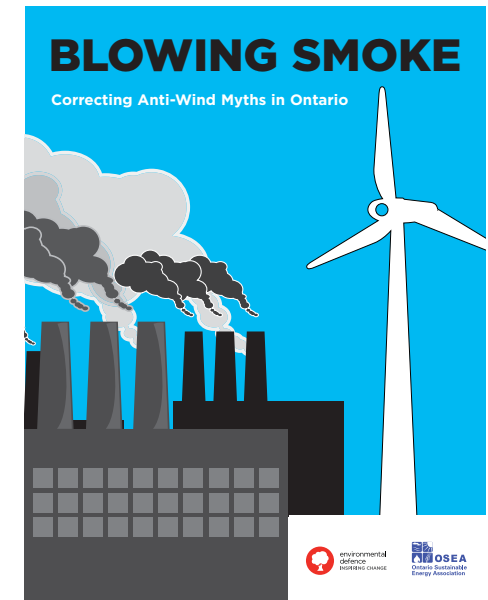
- » Reality: Repeated studies around the world have found no scientific evidence of health impacts from wind power projects.

• Myth 2: Viability

- » Reality: Wind power has been successfully used for decades and the world is rapidly scaling up its use because it works, particularly in light of climate change.

• Myth 3: Economic & Environmental Benefits

- » Reality: Wind power is creating thousands of jobs across Ontario and letting us reduce the use of harmful fossil fuels.



Sierra Club: The Real Truth About Wind Energy

June 2011 report by the Sierra Club Canada

- " After a thorough review of the science, we are confident in saying there is no evidence of significant health effects that should prevent the further development and implementation of wind turbines, wind farms and wind energy."
- " The further development of wind energy as a growing portion of our energy supply will reduce direct carbon emissions, improve the quality of the air we breathe, and generally improve the health and well-being of Canadians, our families and the environment in which we live."
- " With a full review of available data, including that referenced by wind opposition groups, Sierra Club Canada adds its voice to the overwhelming majority of governmental, non-governmental, scientific and environmental groups in saying that a link between wind turbines and health concerns is unfounded."





Public Health and Safety

- » Public health and safety will be considered during all stages of the Project (i.e. construction, operation and decommissioning).
- » To date, much study has been done on the effects of environmental noise on human health.
- » A recent summary of scientific literature related to wind turbines and public health, as compiled by Ontario's Chief Medical Officer of Health, revealed the following:

"...while some people living near wind turbines report symptoms such as dizziness, headaches, and sleep disturbance, the scientific evidence available to date does not demonstrate a direct causal link between wind turbine noise and adverse health effects. The sound level from wind turbines at common residential setbacks is not sufficient to cause hearing impairment or other direct health effects, although some people may find it annoying".

(The Potential Health Impact of Wind Turbines - Chief Medical Officer of Health Report, Dr. Arlene King May 2010)

Additional information from the report includes:

- » The report includes an assessment of sound/noise, low frequency sound, infrasound, vibration, electric and magnetic fields, shadow flicker, ice throw and ice shed, and structural hazards
- » Ontario used the most conservative sound modelling available nationally and internationally, which is supported by experiences in the province and in other jurisdictions
- » Low frequency sound and infrasound from current generation upwind model turbines are well below the pressure sound levels at which known health effects occur. Further, there is no scientific evidence to date that vibration from low frequency wind turbine noise causes adverse health effects
- » With regards to vibrations from wind turbines the Wind Turbine Sound and Health Effects, An Expert Panel Review states:

"The ground-borne vibrations from wind turbines are too weak to be detected by, or to affect, humans". It also states *"there is nothing unique about the sounds or vibrations emitted by wind turbines."*

(W. David Colby, M.D., Robert Dobie, M.D., Geoff Leventhall, Ph.D., David M. Lipscomb, Ph.D., Robert J. McCunney, M.D., Michael T. Seilo, Ph.D., Bo Søndergaard, M.Sc.)

Your Comments

Comments or concerns can be provided in the following ways:

1. Completion of a comment sheet. Please deposit the completed sheet in the Comments Box provided at this meeting or complete at home and fax/e-mail. If you wish to receive future Project mailings, please ensure your complete mailing address is provided.
2. Identification of comments or concerns to any Pattern Energy, Samsung Renewable Energy, Bowark or Hatch representatives present at this Public Meeting.
3. Contact the representatives for the Project at the addresses provided below:

Kimberley Arnold, BSc, MES

Manager – Environmental Services
Hatch Ltd.

4342 Queen St., Suite 500, Niagara Falls, Ontario, L2E 7J7

Phone: 905-374-0701 Ext. 5318 Fax: 905-374-1157

karnold@hatch.ca

Keith Knudsen

Project Manager
BowArk Energy Ltd.

915, 530 8th Avenue SW, Calgary, Alberta T2P 3S8

Phone: 403-264-2259 Fax: 403-261-1708

kknudsen@bowark.com

Please visit the South Kent Wind Project website at www.southkentwind.ca for more information on the Project and the Proponent.

Next Steps

A consultation report, documenting all concerns and questions, will be produced and a complete package will be sent to the MOE for acceptance.

Following acceptance and posting on the Environmental Registry (www.ebr.gov.on.ca), a Notice of Posting will be published in the Chatham Daily News and the REA reports, including the Consultation Report, will become available for review on the Project website (www.southkentwind.ca) with any further comments to be sent to the Ministry of the Environment.

Approval can take up to six months after which the public has 15 days to request an appeal of the approval decision with the Ministry of the Environment

Thank you

for attending our
Final Public Meeting.

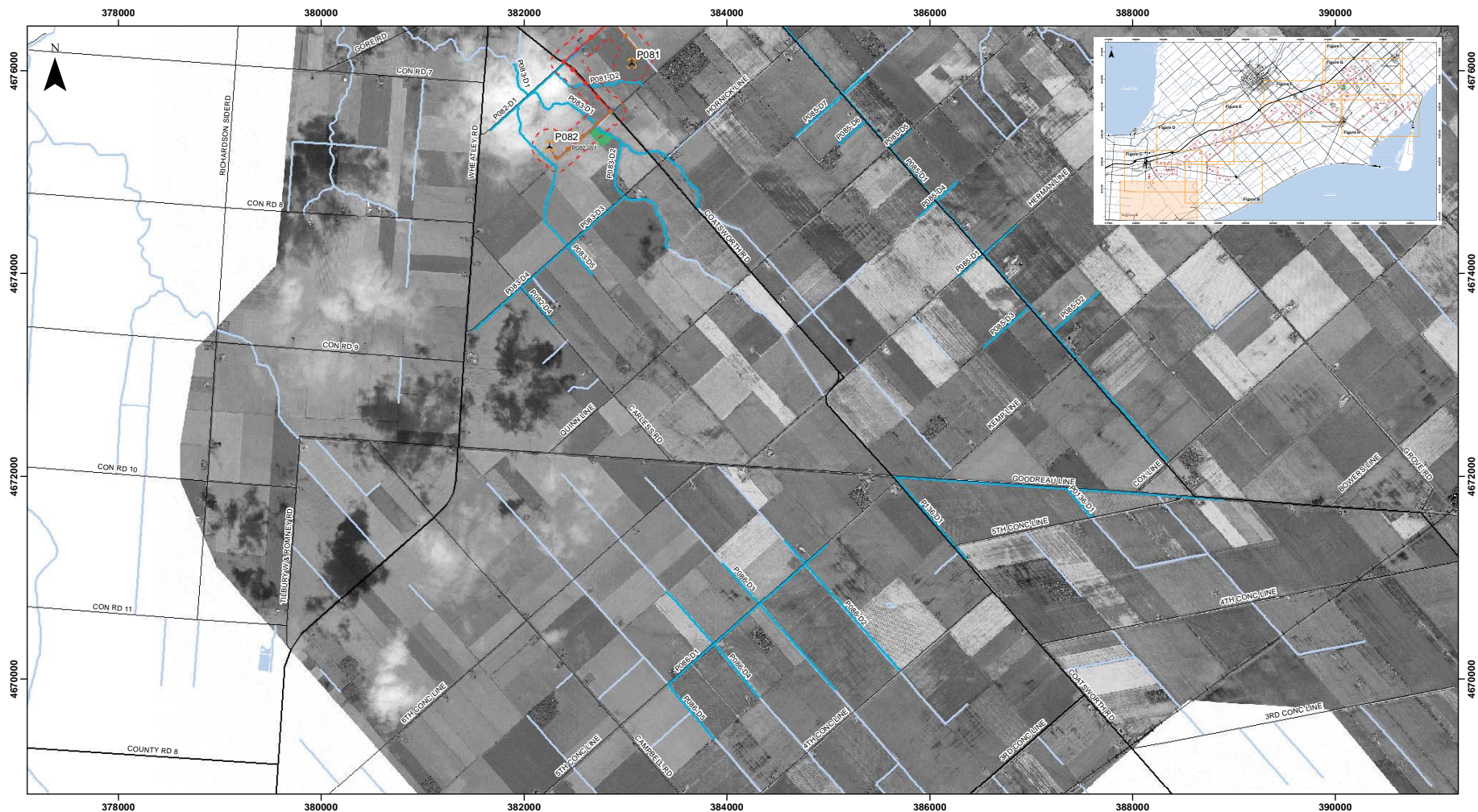


Figure A
South Kent Wind Project
Site Plan A



Sept 1, 2011
 Project No: NRS1-1184
 UTM Zone 17, NAD 83
 Scale: 1:35,000 (at 11x17")
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Legend

- Project Area (Aug 24, 2011)
- Constructible Area
- Proposed Turbine (L012)
- Substation
- Above Ground Cabling
- Underground Cabling
- 230kV Distribution Line
- Switch
- Access Road
- Railway
- Highway
- Primary Road
- Secondary Road
- Watercourse (Permanent)
- Watercourse (NRSI)
- Waterbody
- Wetland Area (NRSI)
- Woodland (NRSI)
- Important Bird Area
- Seasonal Concentration Areas
- Bat Maternity Roost
- Habitat of Species of Conservation Concern
- Open Country Bird Breeding Habitat
- Habitat for Species Ranked S1-S3
- Area Sensitive Bird Breeding Habitat
- Animal Movement Corridor
- Vegetated Drain Corridor
- Railed Corridor

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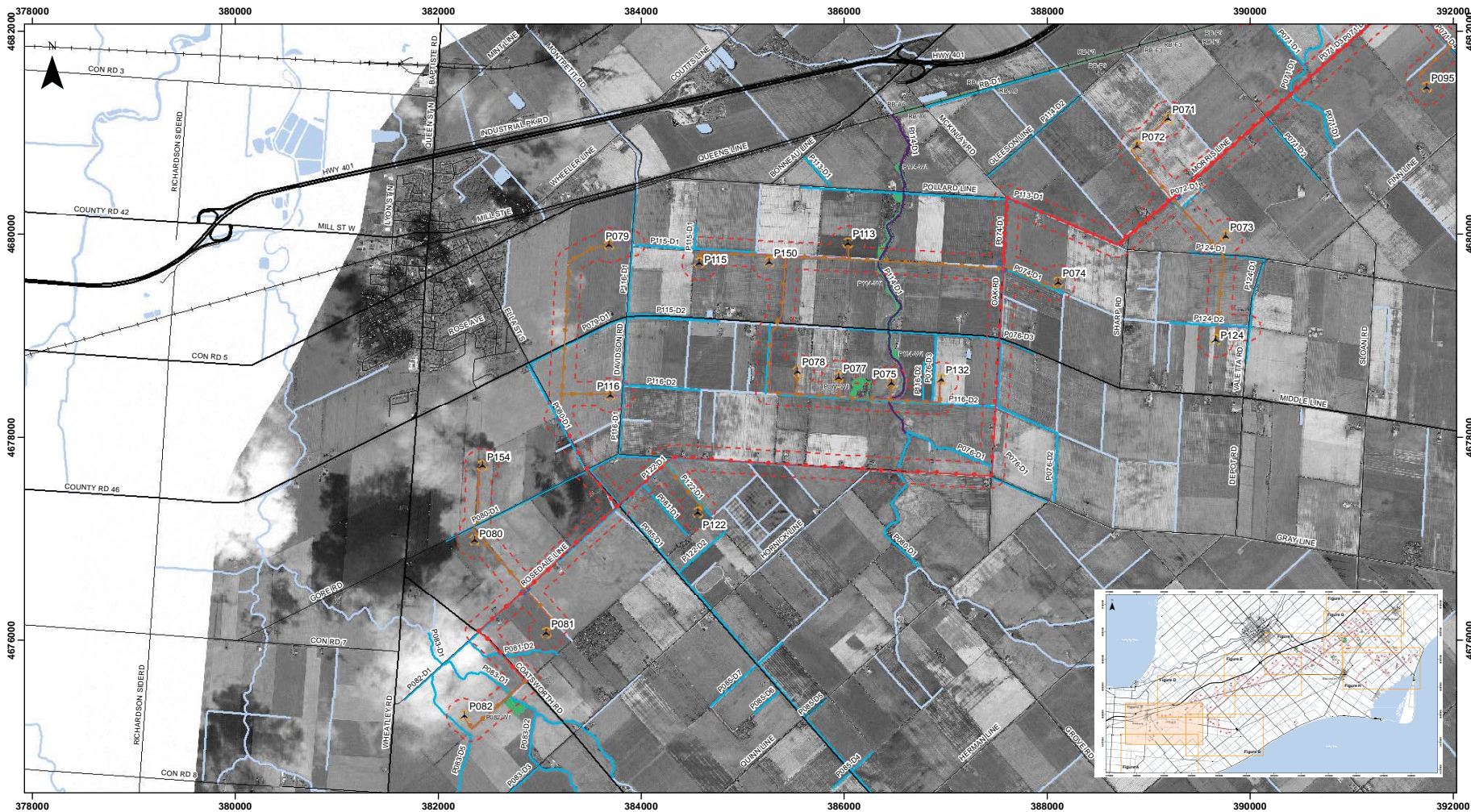


Figure C
South Kent Wind Project
Site Plan C

NATURAL RESOURCE SOLUTIONS INC.
 Aquatic, Terrestrial and Wetland Biologists

Sept 1, 2011
 Project No: NRSI-1184
 UTM Zone 17, NAD 83
 Scale: 1:35,000 (at 11x17")
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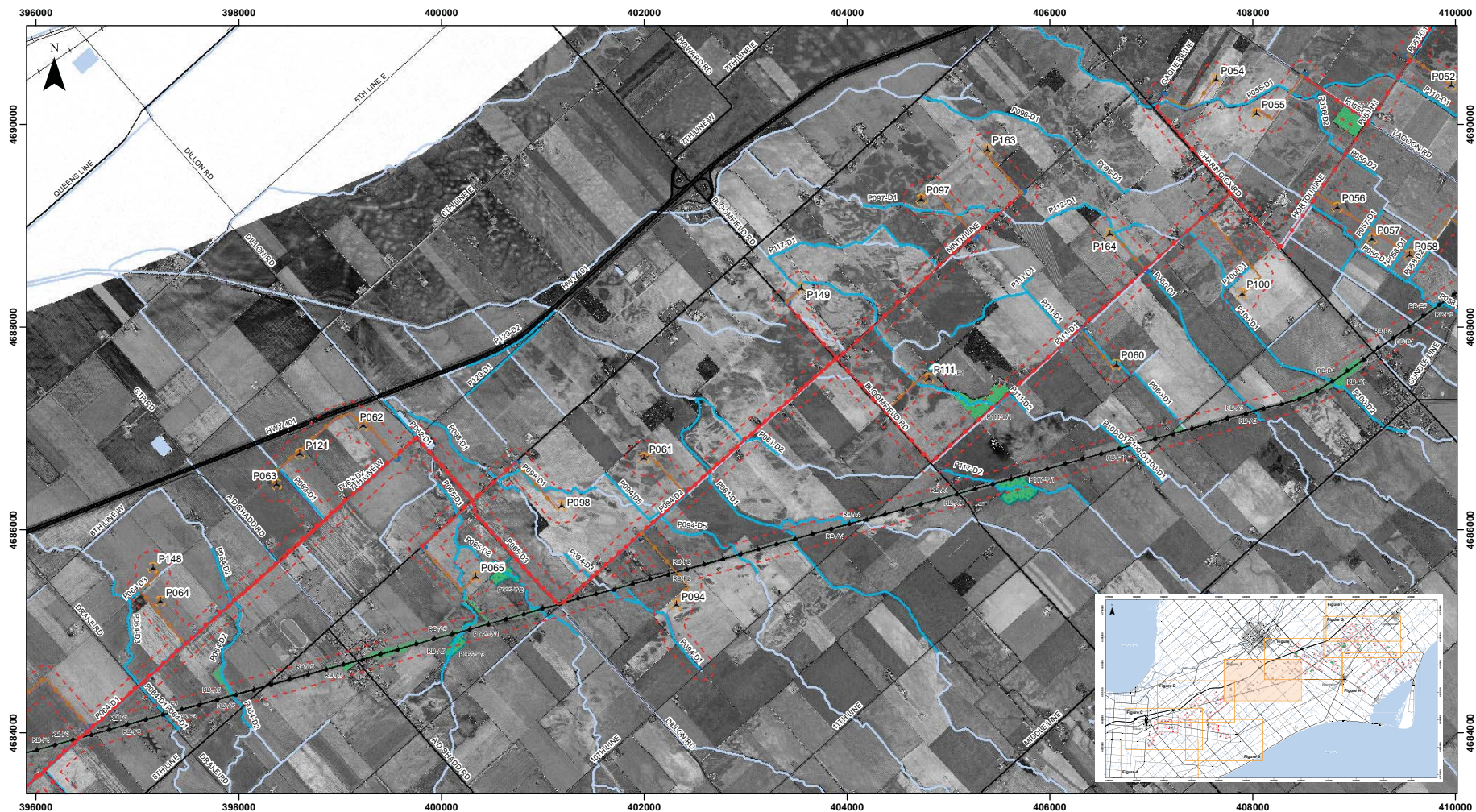


Figure E
South Kent Wind Project
Site Plan E

NATURAL RESOURCE SOLUTIONS INC.
 Aquatic, Terrestrial and Wetland Biologists

Sept 1, 2011
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Legend

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- Animal Movement Corridor
- Vegetated Drain Corridor
- Railbed Corridor

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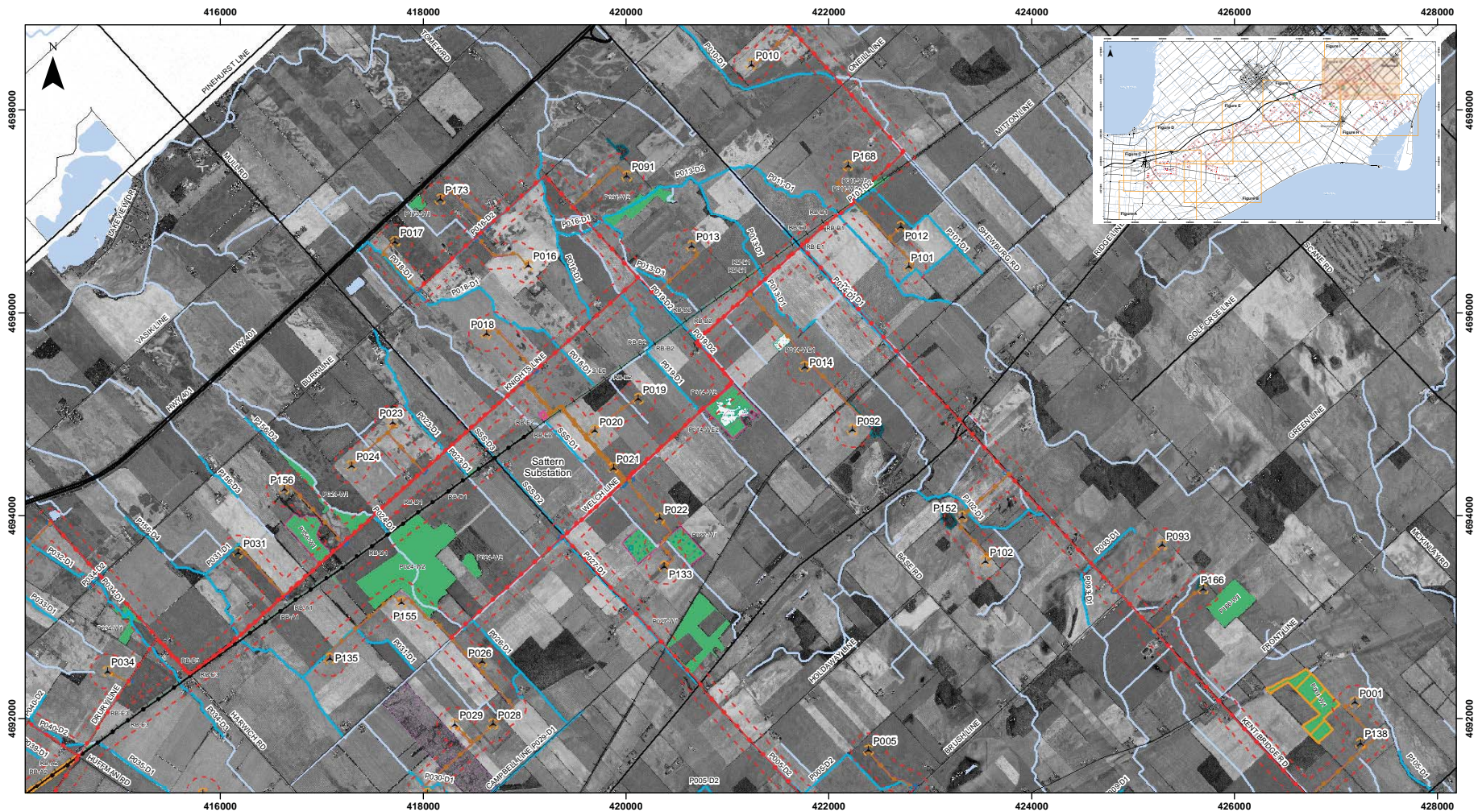


Figure G
South Kent Wind Project
Site Plan G

NATURAL RESOURCE SOLUTIONS INC.
 Aquatic, Terrestrial and Wetland Biologists

0 0.25 0.5 1 km

Sept 1, 2011
 Project No: NRSI-1184
 UTM Zone 17, NAD 83
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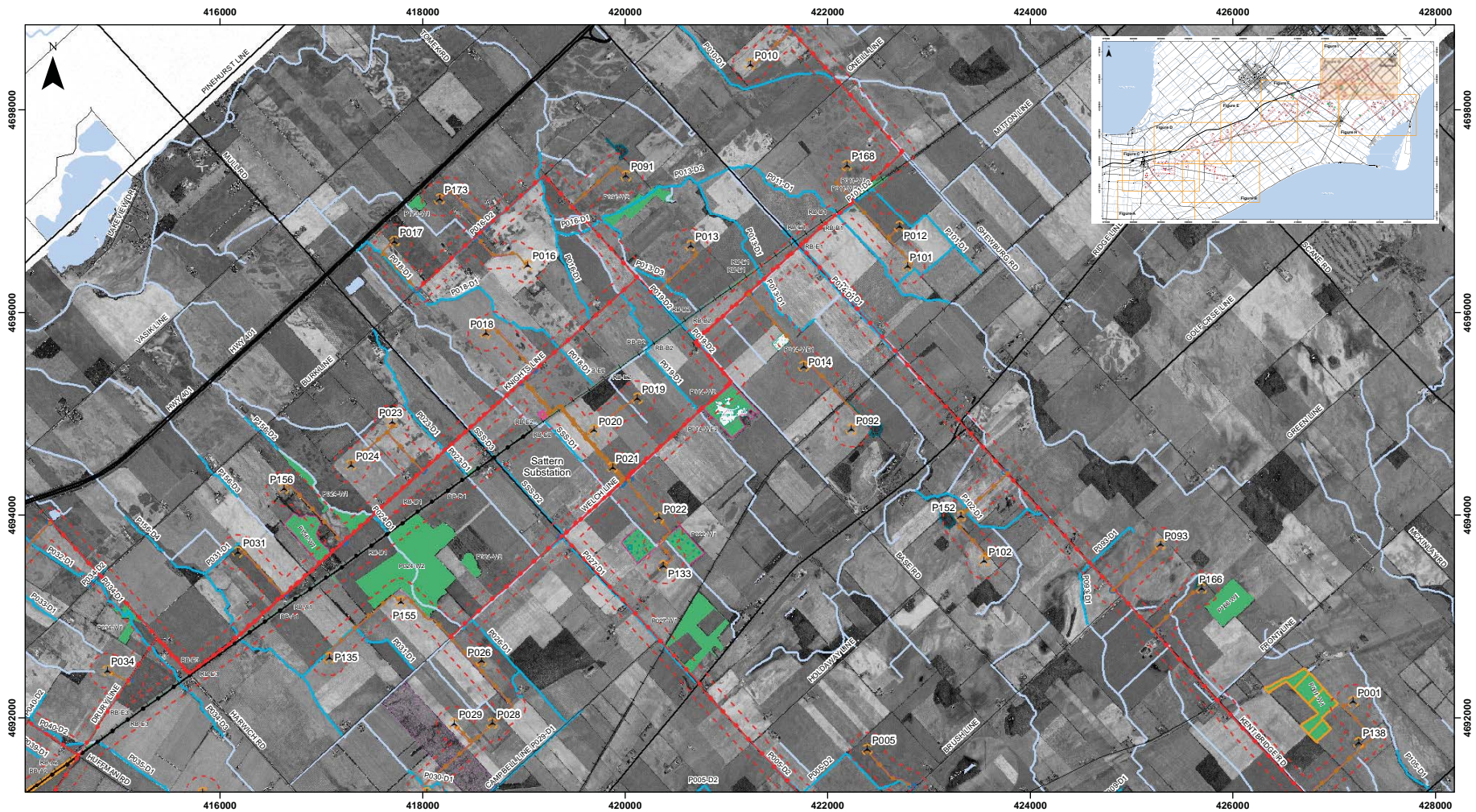


Figure G
South Kent Wind Project
Site Plan G

NATURAL RESOURCE SOLUTIONS INC.
 Aquatic, Terrestrial and Wetland Biologists

0 0.25 0.5 1 km

Sept 1, 2011
 Project No: NRSI-1184
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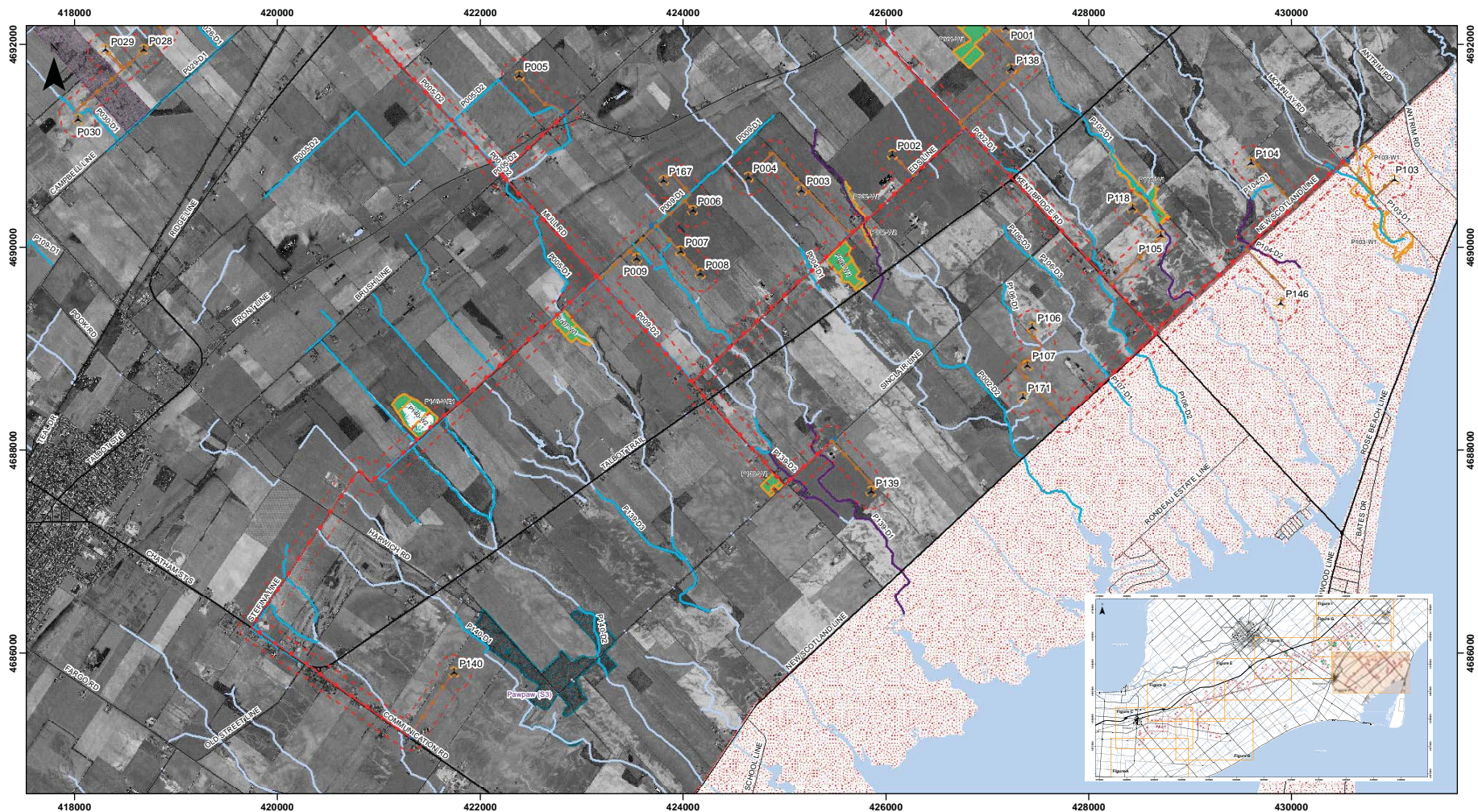


Figure H
South Kent Wind Project
Site Plan H

NATURAL RESOURCE SOLUTIONS INC.
 Aquatic, Terrestrial and Wetland Biologists

Sept 1, 2011
 Project No: NRS-1184
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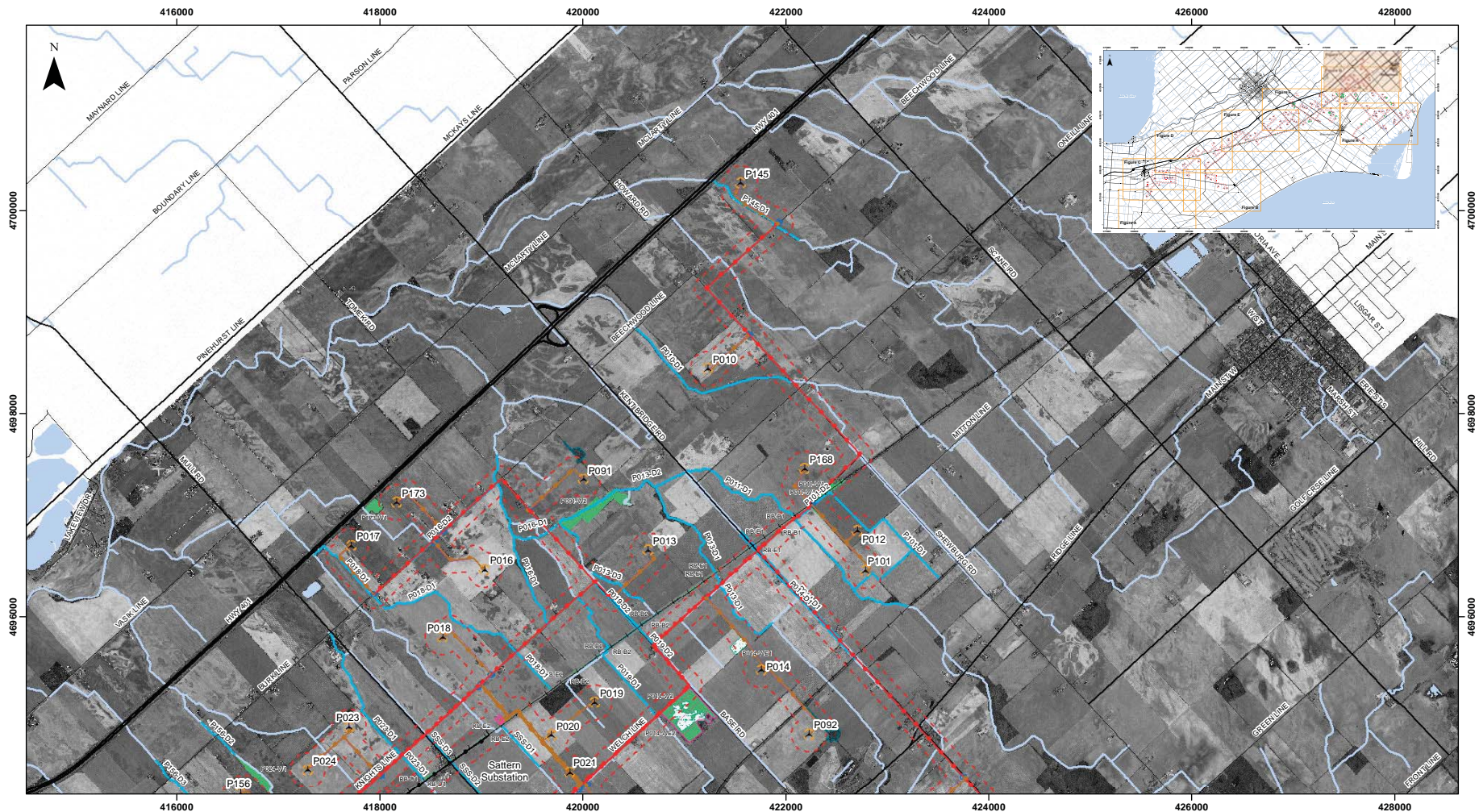


Figure I
South Kent Wind Project
Site Plan I

NATURAL RESOURCE SOLUTIONS INC.
 Aquatic, Terrestrial and Wetland Biologists

0 0.25 0.5 1 km
 Sept 1, 2011
 Project No: NRSI-1184
 UTM Zone 17, NAD 83
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Please Sign In

(PLEASE USE BLOCK LETTERS)

South Kent Wind Project - Final Public Meeting

Date: Saturday, November 12, 2011

Name	Complete Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
DOUG SMITH	ST ANDREWS LINE	CHATHAM	N7M 5J8	519-436-3371
Brendan MacDonald	Peet RD.	Merrin	N0P 1W0	519-809-2736
Robert Ivison	3905 Middle Line	Tilbury	N0P 2L0	519-682-1090
GARY FAVITZ	2255-b Queen St E	TORONTO	M4E 1G3	416-858-5481
William Lussier	3980 middle line	Tilbury	N0P 1W0	519-689-4926
Bayer Saisse	3980 middle line	Tilbury	N0P 2L0	519-682-2754
Cindy Boagart		Blenheim	N0P 1A0	519-676-8404

*Please note that all information provided on this form will become part of the formal record and will be published in Project reports that will be available for public review

Please Sign In

(PLEASE USE BLOCK LETTERS)

South Kent Wind Project - Final Public Meeting

Date: Saturday, November 12, 2011

Name	Complete Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
Gerry Moerman	RR2	Blenheim	N0P 1A0	519-676-2955
DAN ONERL	7807 8 th LINE	CHATHAM	N7M 5J6	519-436-0828
LARRY & JOAN KERR	7782 9 th LINE	CHATHAM	N7M 5J6	519-436-0612

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Please Sign In

(PLEASE USE BLOCK LETTERS)

South Kent Wind Project - Final Public Meeting

Date: Saturday, November 12, 2011

Name	Complete Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
Joshua Michael	Dew Drop Road	Thornville	NOP 2K0	(519) 697-9200
Joseph Litchko	RR#16	Chatham	N7M 5J6	(519) 352-7009
Steve McFadden	5009 6th Line	Marlton	NOP 1W0	519 689 4042
Cheney	RR#1	Chatham	N7M 5J6	351-8693
Murray Maermer	RR#4	Blenheim	NOP 1A0	676-8209
Don & Pat Forget	RR#1 8105-11th Line	Charing Cross	NOP 1G0	351-8693
MARILYN FLOOK	7851 NINTH LINE	CHATHAM	N7M 5J6	354-8189
BRIAN FLOOK	7851 NINTH LINE	CHATHAM	N7M 5J6	354-8189
DOUG + DIANNE FLOOK	6925 Eighth Line	Chatham	N7M 5J6	
KEITH WEBSTER	8393 MIDDLE LINE	CHATHAM CROSS	NOP 1L0	351-5720
Carol Ivison	3844 Middle Line RR#1	Tilbury	NOP 2L0	682-3130

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Please Sign In

(PLEASE USE BLOCK LETTERS)

South Kent Wind Project - Final Public Meeting

Date: Saturday, November 12, 2011

Name	Complete Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
JOHN KANA (12162 O'NEILL LANE)	272 FOREST AVE	ST. THOMAS	N5R-2K4	519-631-4341
KEITH RYAN		BRLE ST N	MERLIN	519 627 3517
Michelle Lisa Michael	23752 bendrop	thamesville	NOP-2K0	642-9208
Tom Matesic	19 Crocus crt	Chatham	N7L 5L5	380-0888
Charles L. Lupton	R.A. 6 M. Lupton		NOP JWO	519-689-4597
Larry Litschko	R.#2	Kent Bridge	NOP IVO	519-351-3975
ROBERT LITSCHKO	RR#6	CHATHAM	N7M 5J6	519-351-3851
Doug & Dorothy Amer	RR#1 5102 Glenview Line	TILBURY	NOP 2L0	519-682-1849
BOB MITCHELL	401 Fawn	W-N BRR		519-557-9100
Chris Marenkette	53 Ella St. S.	Tilbury	NOP 2L0	682-1257
Nada Atukol				744-8680

*Please note that all information provided on this form will become part of the formal record and will be published in Project reports that will be available for public review

3. Please provide any comments, questions or concerns related to the Project.

PROJECT DOES NOT RESPECT
PROPER SETBACK REQUIREMENTS

If you would you like to be included on the Project mailing list, please provide your name and full mailing address below:

Name:

DAN O'NEILL

Mailing Address:

7807 8TH LINE

N7M-516

CHATHAM

WE WELCOME YOUR INPUT. PLEASE COMPLETE AND SUBMIT THIS COMMENT SHEET BEFORE LEAVING - THANK YOU

Please note that all information provided on this form will become part of the formal record and will be published in Project reports that will be available for public review.

South Kent Wind Project

Comment Sheet

Final Public Meeting: Saturday November 12, 2011

(PLEASE USE BLOCK LETTERS)

1. Please describe where you reside in relation to the Project area? _____

We own 2 farms adjacent to turbine
P149. We feel it does not meet
proper setback requirements

Doug + Dianne Flook.

R.R. 6

Chatham Ontario N7M5J6

2. Please provide any relevant information related to the Project area which, in your opinion, should be considered in assessing the potential effects of the Project?

Continued on back



This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper appears to be a standard notebook page.

Name: _____

Mailing Address: _____

Please note that all information provided on this form will become part of the formal record and will be published in Project reports that will be available for public review.

South Kent Wind Project

Comment Sheet

Final Public Meeting: Saturday November 12, 2011

(PLEASE USE BLOCK LETTERS)

1. Please describe where you reside in relation to the Project area? _____

RIGHT IN THE MIDDLE OF THE PROJECT!

2. Please provide any relevant information related to the Project area which, in your opinion, should be considered in assessing the potential effects of the Project?

TOO RESIDENTIAL OF AN AREA AND EXCELLENT

FARMLAND!

Continued on back



3. Please provide any comments, questions or concerns related to the Project.

PROJECT DOES NOT RESPECT SETBACKS!

If you would you like to be included on the Project mailing list, please provide your name and full mailing address below:

Name: _____

Mailing Address: _____

WE WELCOME YOUR INPUT. PLEASE COMPLETE AND SUBMIT THIS COMMENT SHEET BEFORE LEAVING - THANK YOU

Please note that all information provided on this form will become part of the formal record and will be published in Project reports that will be available for public review.

South Kent Wind Project

Comment Sheet

Final Public Meeting: Saturday November 12, 2011

(PLEASE USE BLOCK LETTERS)

1. Please describe where you reside in relation to the Project area? _____

Residence - 53 Ella St. S. Tilbury
Chris Marentette

2. Please provide any relevant information related to the Project area which, in your opinion, should be considered in assessing the potential effects of the Project?

I am greatly disappointed with the situation of P079. I don't understand why you couldn't have started on the North side of Davidson St. Rd. I feel that you could stay further away from the town. I am not against renewable energy but there should be more consideration to location. This is something that will be around for 20+ years. This could also hamper future development in my area.
I would really like to see some consideration

Continued on back



3. Please provide any comments, questions or concerns related to the Project.

in moving this turbine, or eliminating
it.

If you would you like to be included on the Project mailing list, please provide your name and full mailing address below:

Name:

Chris Marentette

Mailing Address:

Box 1301

Tilbury, ON N0P2L0

WE WELCOME YOUR INPUT. PLEASE COMPLETE AND SUBMIT THIS COMMENT SHEET BEFORE LEAVING - THANK YOU

Please note that all information provided on this form will become part of the formal record and will be published in Project reports that will be available for public review.

South Kent Wind Project



Samsung Renewable Energy
and Pattern Energy

Welcome You to the Final Public Meeting for the South Kent Wind Project

May 12, 2012

2:00pm to 5:00pm

Blenheim Golf Club
439 Chatham Street South, Blenheim, ON

Purpose of this Public Meeting

To advise you of changes to the Project since the last Public Meeting in November of 2011

Stakeholder Input:

An important aspect of the Renewable Energy Approval (REA) process is stakeholder input. This meeting provides you with an opportunity to:

- » Provide verbal or written comments on the REA supporting documents (such as the Design and Operations Report)
- » Raise concerns or issues regarding the proposed Project and the REA supporting documents
- » Ask any questions regarding the proposed Project and the REA supporting documents
- » Gain a greater understanding of the proposed Project, Samsung Renewable Energy and Pattern Energy

You can provide comments or concerns the following ways:

- » Fill out a comment sheet provided at this public meeting.
If you provide your mailing address this can be used to add your information to the Project mailing list
- » Discuss with any of the Project representatives present at this meeting
- » Contact the Hatch or BowArk Energy representatives:

Kimberley Arnold, BSc, MES
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, Ontario, L2E 7J7
Tel: 905-374-0701 Ext. 5318
Fax: 905-374-1157
Email: karnold@hatch.ca

Keith Knudsen
BowArk Energy Ltd.
Suite 4301, 400 3rd Avenue SW
Calgary, Alberta T2P 4H2
Tel: 403-264-2259
Fax: 403-261-1708
Email: kknudsen@bowark.com

Please visit www.southkentwind.ca for more information



South Kent Wind Project



Pattern Energy

Pattern is one of North America's leading independent wind and transmission companies. Our mission is to provide our customers with clean, renewable energy, which we seek to achieve by developing, constructing, owning and operating projects that are built for lasting success.

Commitment to community is one of Pattern's core values. We are dedicated to building strong relationships with our landowners, communities, business partners, and customers. We are also committed to the environment, and we make the effort and take the time to understand and minimize our projects' impact on local habitat and wildlife.

We work with landowners to help them transform their land's renewable resource into a steady revenue stream. We are strong supporters of the local communities we work in, and strive to be a good corporate citizen and neighbor. Skilled contractors and vendors help to build our projects, and we frequently join together with local development partners who bring expertise and knowledge of the area. At the end of this process are the customers who purchase the energy we produce. All are critical partners in our mission to provide consumers with clean, renewable energy.

BowArk Energy

Pattern Energy and BowArk Energy have a long history of developing projects together in Canada. BowArk Energy has been developing Projects for the past 8 years, and is currently acting as a development partner with Pattern on the South Kent Wind Project. BowArk is assisting in permitting activities and landowner relations as it relates to the Renewable Energy Approval Process.

Hatch Ltd.

Pattern Energy and Samsung Renewable Energy have retained Hatch Ltd. to undertake the REA process. Hatch is an Ontario-based consulting, engineering, environmental and management company with operations worldwide and a reputation for excellence acquired over 85 years of continuous service to its clients.



South Kent Wind Project



Samsung



Since the company began in 1938, we have brought advanced technology and product excellence to fields as diverse as resource development, textiles, plastics, finance, construction – even fashion. Increasingly, we have shifted our focus to alternative energy in line with global aspirations for a greener world. Samsung is embracing the green-growth paradigm by focusing on energy and the environment, natural resources, and industrial material.

Samsung is comprised of many companies, one of which is Samsung C&T. It is Samsung C&T's two business divisions – Trading & Investment Group and Engineering and Construction Group with its partners – that will be building and operating the Wind and Solar Power Projects here in Ontario. Samsung has logged many milestones over the years in preparation for such an opportunity. Among them, launching Korea's first solar energy project.

*In a changing world, our company mission remains constant:
To create superior products and services, thereby contributing to a better global society.*

This vision has helped Samsung C&T emerge as a leading player in the new and alternative energy sector, offering solutions to customers worldwide through a network of over 100 offices in 44 countries.

Kepco

Kepco (Korea Electric Power Corporation) is South Korea's sole vertically integrated power utility, handling generation, transmission, distribution, and sales. It operates a total of 10 subsidiaries, six of which are directly involved in power generation. The company has a generation capacity of 64,500MW, making it one of the world's top power utilities. Kepco aims to lead the industry in low-carbon generation, high-efficiency transmission and distribution, and other green technologies. Kepco is building a global business infrastructure encompassing nuclear, hydro, renewable energy, and resource development as it pursues business opportunities around the world.



Why Renewable Energy

- » The Green Energy and Green Economy Act (GEA) received Royal Assent in the Ontario Legislature on May 14, 2009. According to the Government of Ontario, this legislation is part of Ontario's plan to become a leading green economy in North America.

A component of GEA is the Feed-In-Tariff (FIT) program which was launched in Ontario on October 1, 2009. The purpose of the FIT program was to encourage use of renewable energy sources, and promote growth within the environmental industry. The intent of the FIT program is to:

- Create new jobs
- Boost economic activity and
- Further the development of renewable energy technology and expertise in Ontario, while helping to phase out coal-fired electricity generation by 2014

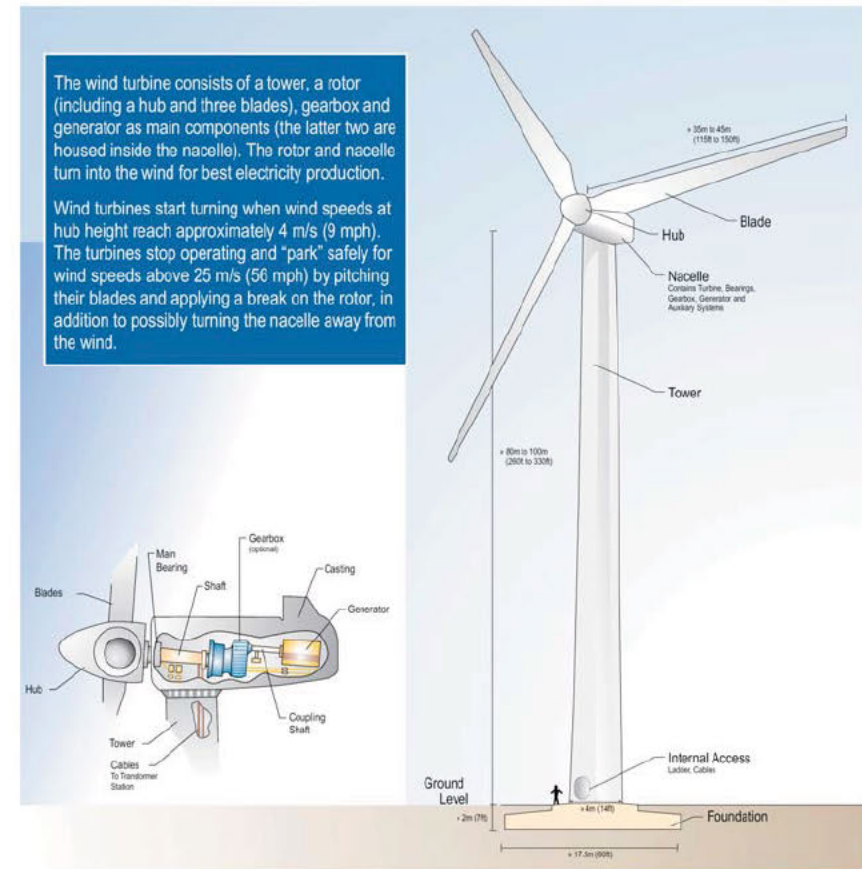
Pattern Energy, Samsung Renewable Energy and KEPCO are developing the South Kent Wind Project in response to the initiatives established in GEA.

Advantages of Wind

There are numerous advantages to wind. These advantages include:

- » Wind is an inexhaustible resource
- » Turbines are quick to install and are low maintenance once in place
- » Benefits the environment by reducing dependence on fossil fuel based power generation
- » Is compatible with mixed land use; grazing, agriculture and hunting
- » Provides a steady income to farmers and property owners
- » Strengthens the local tax base, helping to improve municipal services, including; schools, police and fire departments
- » Produces energy with stable production costs, offering a hedge against other energy sources with volatile fuel markets

Wind Technology: How it Works

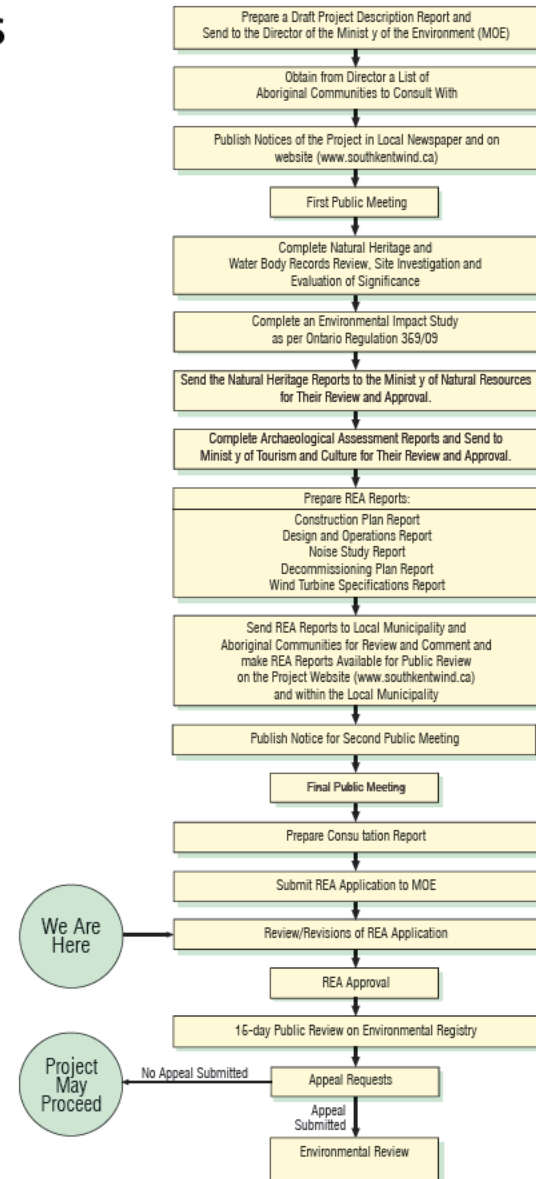


Wind, like water, can be harnessed to transform the kinetic energy into electrical energy. Wind turbines do this by having blades mounted on towers which are turned by the wind, causing them to turn a shaft that's attached to a generator. This creates an electrical current that is carried by cables to the power grid, which, in turn, transmits electricity to your home.

Renewable Energy Approval (REA) Process

REA Process Overview

- » The REA is issued under Ontario Regulation 359/09 (Renewable Energy Approvals under Part V0.1 of the Act) under the Environmental Protection Act
- » The REA process is a stringent environmental approvals process that Pattern/Samsung needs to satisfy before building the project
- » The REA approval will specify how the project will be designed, built, operated and decommissioned so that the local community and environment are protected
- » The proposed South Kent Wind Project is considered to be a Class 4 wind facility, as defined under Ontario Regulation 359/09
- » Class 4 wind facilities are defined as have a name plate capacity of 50kW or greater which are not in direct contact with surface water, other than a wetland
- » The Class of the project determines the study and information requirements under the REA process
- » Additional approval and permitting requirements from agencies such as the Ministry of Natural Resources, Ministry of Tourism and Culture and the Lower Thames Valley Conservation Authority will also be addressed as part of the REA application
- » Permits and plans (e.g., Building Permit, Entrance Permit) will also be sought from the Municipality of Chatham Kent prior to Project construction



South Kent Wind Project

Project Location

The Project is located south of Highway 401 between the Towns of Tilbury and Ridgeway to the west and east, respectively, within the Municipality of Chatham-Kent in southwestern Ontario.

Project Description

The Project is described as a Class 4 Wind facility with a nameplate capacity of up to 270 MW consisting of 124 wind turbines, as well as supporting infrastructure, including access roads, construction and turnaround areas, buried and/or overhead collector/transmission lines. A 34 km 230 kV transmission line and two (2) substations which are required to enable step-up the voltage from 34.5kV to 230 kV to connect to the Chatham Switching Station (SS).

REA Project Schedule

First Public Meeting – November 22, 2010 and November 23, 2010

Second Public Meeting – September 24, 2011

Final Public Meeting – November 12, 2011

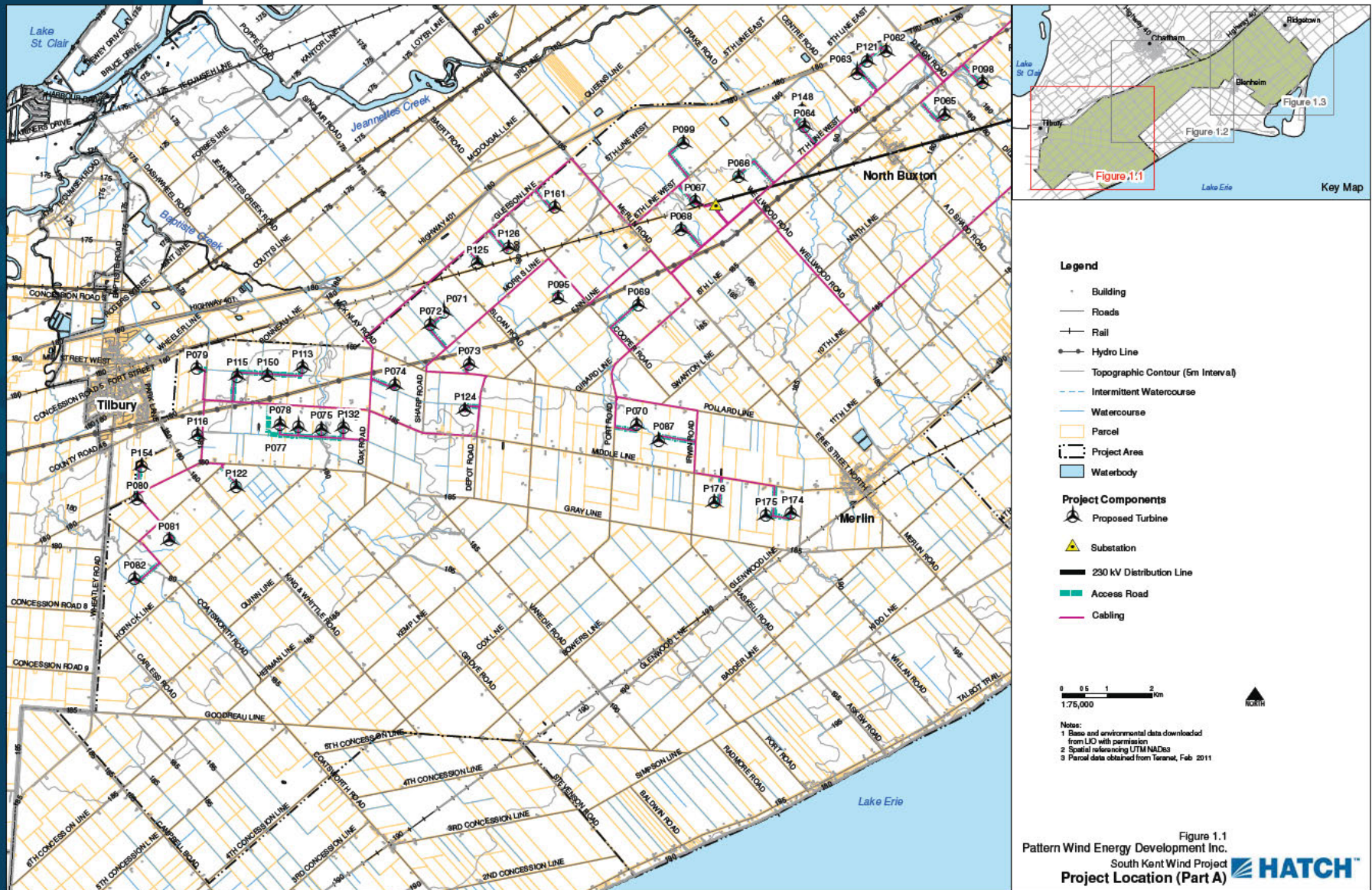
REA Application – deemed complete – February 7, 2012

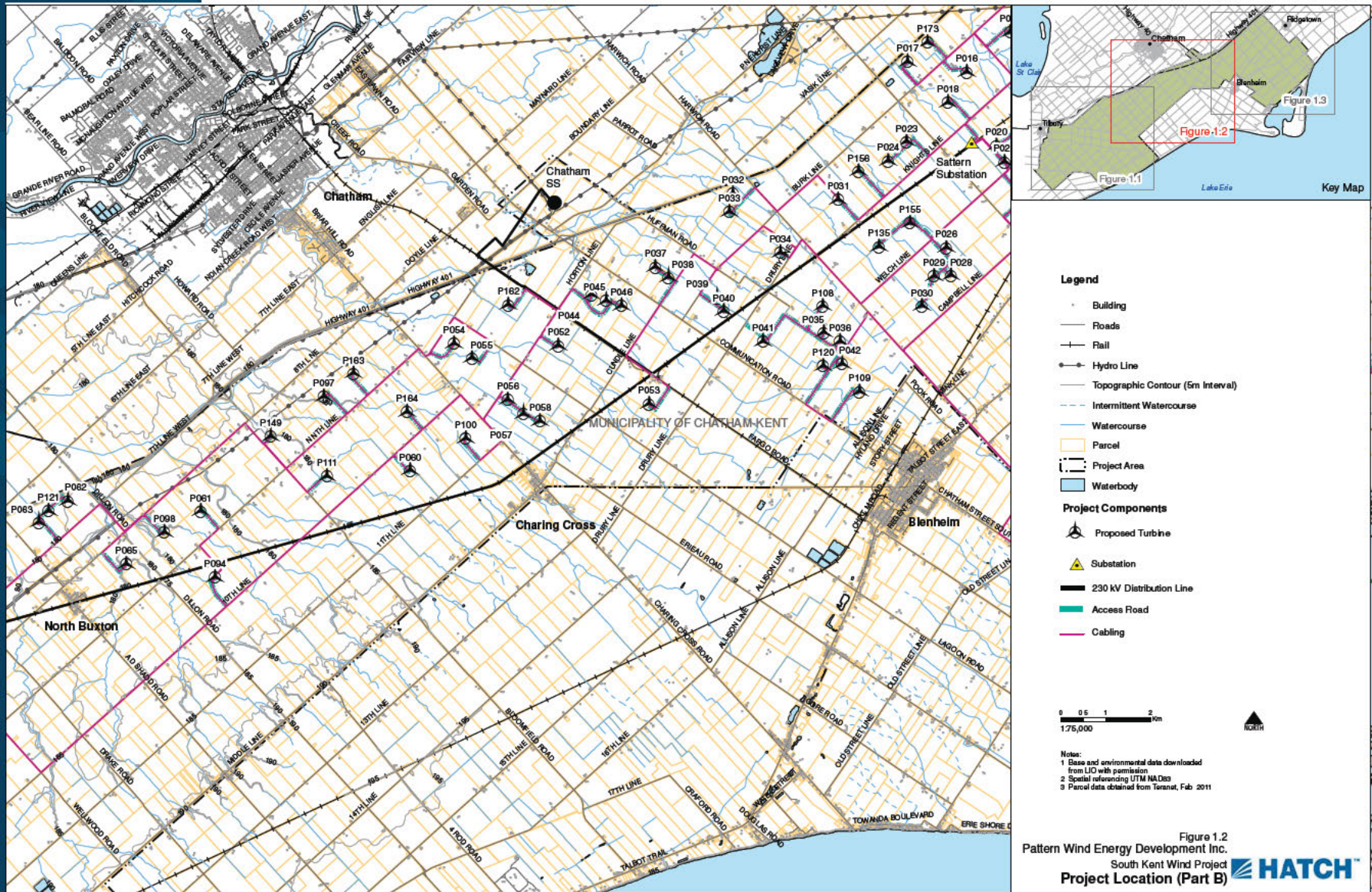
Public Meeting – Project Changes – May 12, 2012

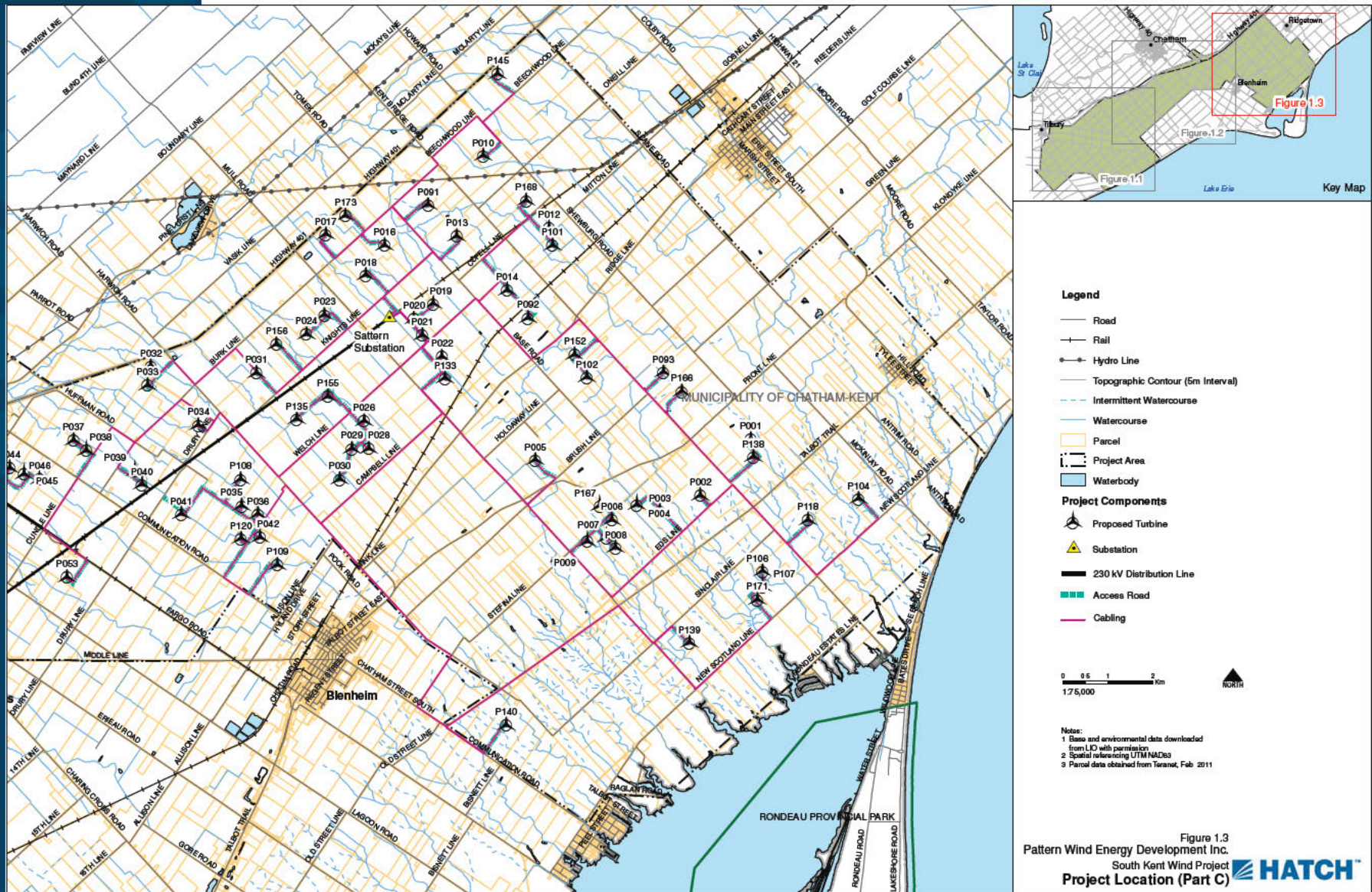
REA Received – Summer 2012

Start of Construction – Fall 2012 (subject to receiving final REA)

Commercial Operation Date – 2014







Natural Features

South Kent Wind Project Natural Features roadside surveys were completed within the Project area, and where the Project is to be located within 120 m of a natural feature, individual site surveys were completed

Each feature was assessed for significance based on criteria from the Ministry of Natural Resources Natural Heritage Assessment Guide and Significant Wildlife Habitat Technical Guide. A total of 98 significant/generalized candidate significant natural features were identified on or within 120 m of the Project location. Results include:

- » A total of 43 of the 49 significant woodlands were identified as being indirectly impacted by the Project. 6 woodlands would have access roads and/or cabling installed within the woodland.
- » 1 Provincially Significant Wetland (PSW) and 5 assumed PSW within 120 m of the Project location were identified. No direct encroachment will occur within the wetlands.
- » 4 bat maternity roosts are present within 120 m of the Project location. No direct encroachment will occur within these significant natural features.
- » 1 open country bird breeding habitat was identified on and within 120 m of the Project location. Underground cabling and an access road would occur within this habitat.
- » 1 area-sensitive breeding bird habitat was identified on and within 120 m of the Project location. Underground cabling would occur within this habitat.
- » 9 significant woodland habitats for 3 bat species of concern (Eastern Small-footed Bat (*Myotis leibii*), Northern Long-eared Bat (*Myotis septentrionalis*), and Tricolour Bat (*Perimyotis subflavus*) are located within 120 m of wind turbines and associated infrastructure. Direct encroachment for cabling would be required within one of these features.

- » 8 significant animal movement corridors were identified on and within 120 m of the Project location. 7 are associated with watercourses and 1 is associated with the vegetated corridor along the railway line. All animal movement corridors are interrupted at various locations by municipal and farm access roads.
- » Several other generalized candidate significant wildlife habitats including turtle nesting habitat, bat maternity roosts, open country bird breeding habitat, area-sensitive bird breeding areas, as well as significant habitat for S1-S3 ranked bat species were also identified within 120 m of Project components.

Mitigation Measures

A variety of mitigation measures will be implemented throughout the Project. Examples of mitigation measures include:

- » Clearly marked work areas, to limit impact of construction
- » Where possible, vegetation and earth moving activities to occur outside of the bird breeding season; otherwise an avian biologist will determine if nests are located in the Project footprint and if so, appropriate avoidance will be maintained until the birds leave the nest
- » Reduced speed on access roads
- » Monitoring for wildlife and establishment of wildlife encounter protocols
- » Erosion and sedimentation control measures (e.g. silt fence barriers, straw bale flow checks) will be in place to minimize sediment into significant habitats
- » Post-construction monitoring of birds and bats in accordance with MNR requirements and guidelines will be completed. Should mortality be greater than stipulated levels, the Proponent will discuss mitigation measures with MNR and implement accordingly.

For more details on mitigation measures please see the Natural Heritage Environmental Impact Study.

Aquatic Environment

Roadside surveys were completed at each site to either confirm the presence or absence of a water body. Individual site surveys were conducted at each location where a water body is within 120 m of a Project component.

The water bodies and associated habitat characteristics (including aquatic vegetation, substrates, water depths, temperatures, etc.) found within the Project area are typical of the southwestern Ontario landscape. An extensive system of drains has been established to facilitate land drainage for agricultural practices. These drains represent a large proportion of the water bodies found throughout the Project area, typically located alongside roads and agricultural fields. Additional permanent and intermittent streams are found as naturally vegetated tributaries that flow either northward to the Thames River and ultimately into Lake St. Clair or southward into Rondeau Bay or Lake Erie. A summary of water bodies is as follows:

- » Confirmation of the presence of 243 water bodies within the Project area. Additionally, 265 total crossing locations where water bodies are crossed by project infrastructure were documented. Of these, 189 crossings are attributed to cabling alone, 3 are access roads only, and 73 are a crossing location that includes both access roads and underground cabling at the same location.
- » None of the documented water bodies are found within 30 m of a turbine base.
- » No lakes, or lake trout lakes were identified within the Project area, however a total of 12 sites were found to have aquatic vegetation (i.e., watercress) indicative of groundwater seepage areas.

- » Essential habitat for fish and other aquatic organisms is provided in many of these streams year round and therefore careful consideration must be given in order to protect the streams from immediate or prolonged degradation.

Mitigation Measures

A variety of mitigation measures will be implemented throughout the Project. Examples of mitigation measures include:

- » Erosion and sedimentation controls measures (e.g. silt fence barriers, straw bale flow checks) will be in place to minimize any sedimentation into nearby water bodies.
- » Stormwater management measures (e.g. site revegetation) to allow water to naturally percolate into the ground will be implemented to maintain natural and original drainage
- » Spill response measures (e.g. spill kits and emergency response plan) will be implemented to minimize the potential for spill adjacent to a water body

For more details on mitigation measures please see the Water Body Heritage Environmental Impact Study.

South Kent Wind Project

Anticipated Construction Schedule

Activity	Start	Finish
REA Approval (Estimate)	Summer 2012	Summer 2012
Turbine Procurement, Fabrication & Delivery	Summer 2012	Summer 2013
Mobilize	Fall 2012	Fall 2012
Installation of Site Access Components	Fall 2012	Winter 2013
Safety and Security	Fall 2012	Summer 2014
Temporary Facilities	Fall 2012	Winter 2014
Power and Communication	Fall 2012	Summer 2013
Turbine Site Preparation	Fall 2012	Winter 2013
Foundations	Fall 2012	Spring 2013
Turbine Erection	Summer 2013	Winter 2014
Electrical Systems	Fall 2012	Summer 2013
Commissioning	Fall 2013	Spring 2014
Commercial Operation Date	Spring 2014	Spring 2014
Remediation and Demobilization	Spring 2014	Summer 2014

Project Construction

Construction expected to occur from 7:00 am to 7:00 pm Monday through Saturday for the duration of construction. If required, the daily construction time could be extended to 11:00 pm as per Municipal by-law.

Site Preparation

- » Staking and surveying, clearing and grubbing, if required
- » Installation of security measures, e.g. fencing
- » Preparation of construction staging areas

Construction of Facility

- » Construction of access roads
- » Installation of foundations for turbines
- » Base preparation for substations
- » Wind turbine and substation installation
- » Installation of distribution and transmission lines
- » Testing and commissioning

Site restoration

- » All construction material and temporary facilities will be removed and disposed of properly
- » Top soil will be backfilled where appropriate to achieve property drainage
- » Re-vegetation and hydro-seeding to occur, where needed

Traffic and Roads

- » Only designated transportation routes will be followed
- » Proper signage for detours will be promptly displayed
- » Flagman and police escorts will be used as necessary

Safety

- » Fencing and signs will be used to mark off construction zones
- » Spills will be handled by the procedures outlined in the Emergency Response Plan

Design and Operations

Project Components

Project Component	Number	Description
Wind Turbine	124	Siemens SWT-2.3-101
Substation	2	Sattern and Railbed substations – prefabricated building, transformer to be surrounded by 7-9 m tall sound barriers



Project Operations

- » Real time monitoring of the Project will occur remotely to adequately ensure the performance and safety of the wind turbines.
- » Weekly and monthly maintenance activities are to occur throughout the life of the Project.

Decommissioning

It is anticipated that the Project will have a useful lifetime of at least 20 years, which can be extended further with proper maintenance, component replacement and repowering. It is assumed that the Project will be decommissioned after the conclusion of its useful economic life.

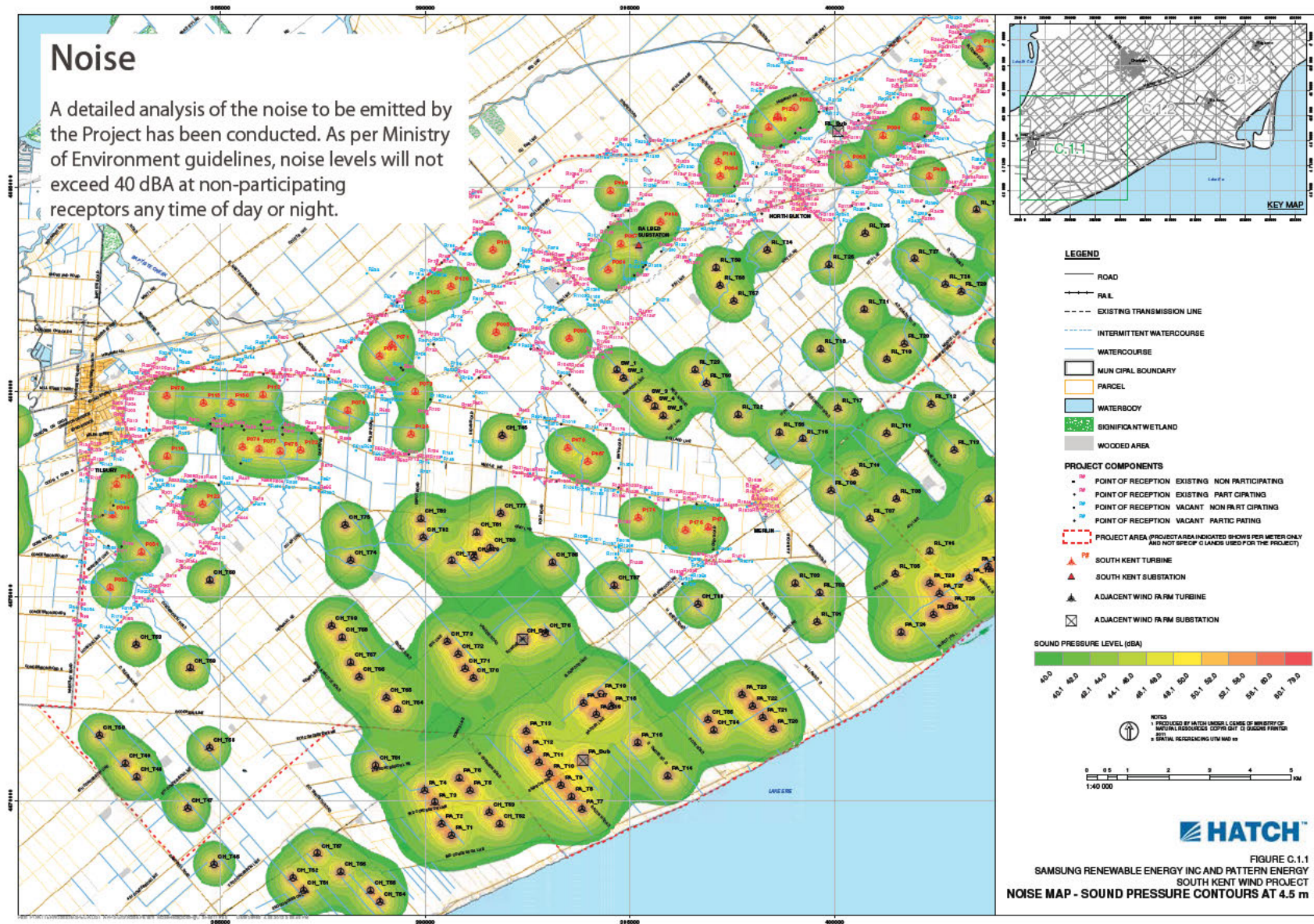


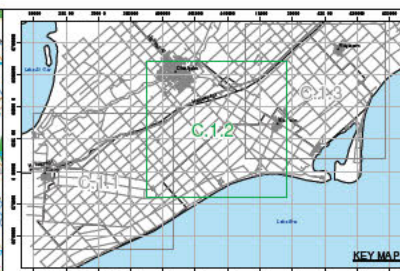
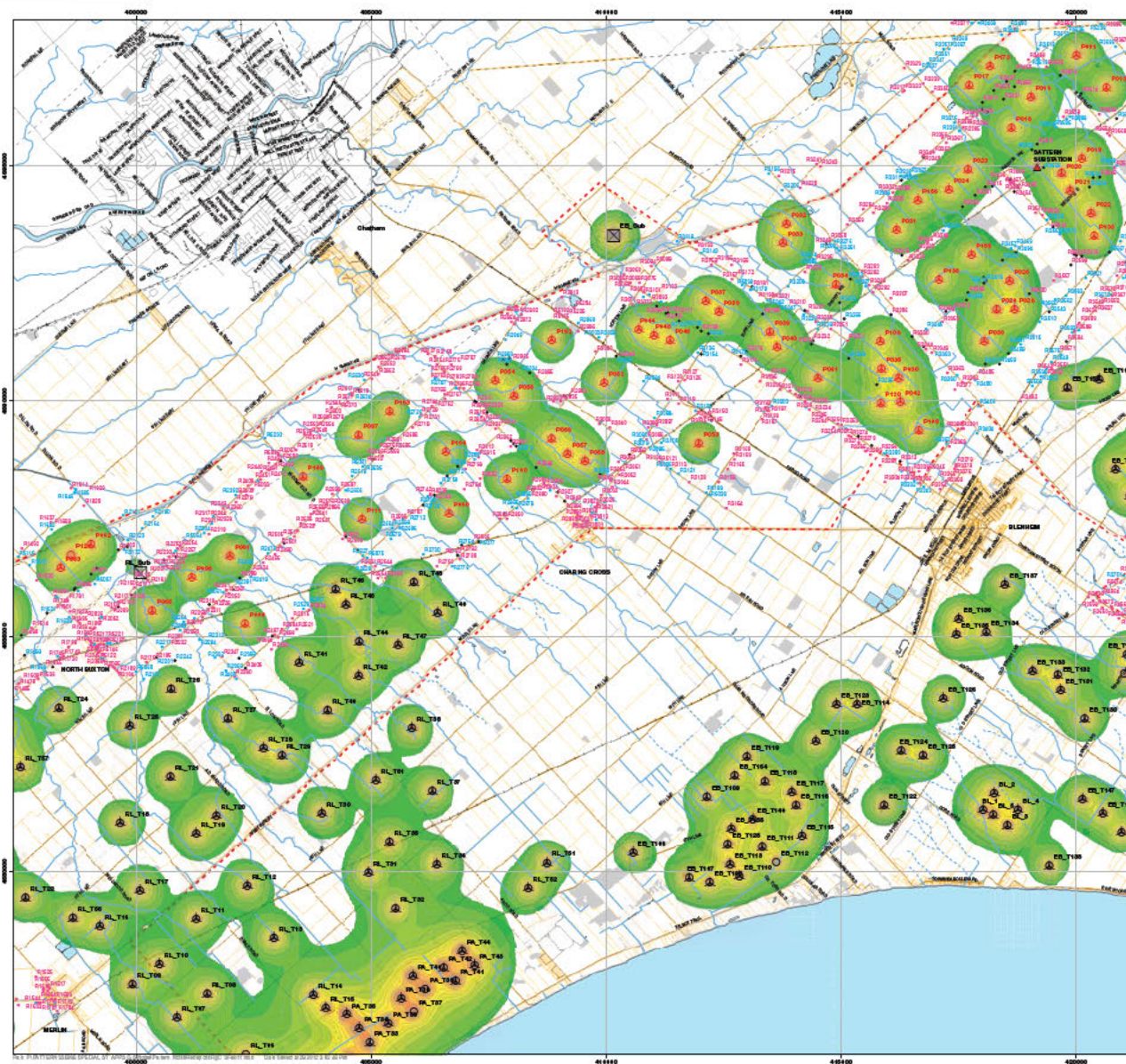
Activities involved in decommissioning include:

- » removal of the wind turbines and all electrical appurtenances for salvage
- » removal of foundations and any access roads not wanted for future farming purposes to a depth suitable for ploughing (approximately 1.0 m)
- » replacement of topsoil to a depth of surrounding undisturbed lands and plant with suitable ground cover dependant on time of year and in consultation with property owner

Noise

A detailed analysis of the noise to be emitted by the Project has been conducted. As per Ministry of Environment guidelines, noise levels will not exceed 40 dBA at non-participating receptors any time of day or night.





LEGEND

- ROAD
- RAIL
- EXISTING TRANSMISSION LINE
- INTERMITTENT WATERCOURSE
- WATERCOURSE
- MUNICIPAL BOUNDARY
- PARCEL
- WATERBODY
- SIGNIFICANT WETLAND
- WOODED AREA

PROJECT COMPONENTS

- PO INT OF RECEPTION EXISTING NON PARTICIPATING
- PO INT OF RECEPTION EXISTING PARTICIPATING
- PO INT OF RECEPTION VACANT NON PARTICIPATING
- PO INT OF RECEPTION VACANT PARTICIPATING
- PROJECT AREA (PROJECT AREA INDICATED SHOWS PERIMETER ONLY AND NOT SPECIFIC LANDS USED FOR THE PROJECT)
- SOUTH KENT TURBINE
- SOUTH KENT SUBSTATION
- ADJACENT WIND FARM TURBINE
- ADJACENT WIND FARM SUBSTATION

SOUND PRESSURE LEVEL (dBA)



NOTES
1. PROVIDED BY HATCH UNDER LICENSE OF A HISTORY OF
NATURAL RESOURCES COPYRIGHT © GUSMAN PETER
2. DATA AT RESOLUTION 10M AND 10

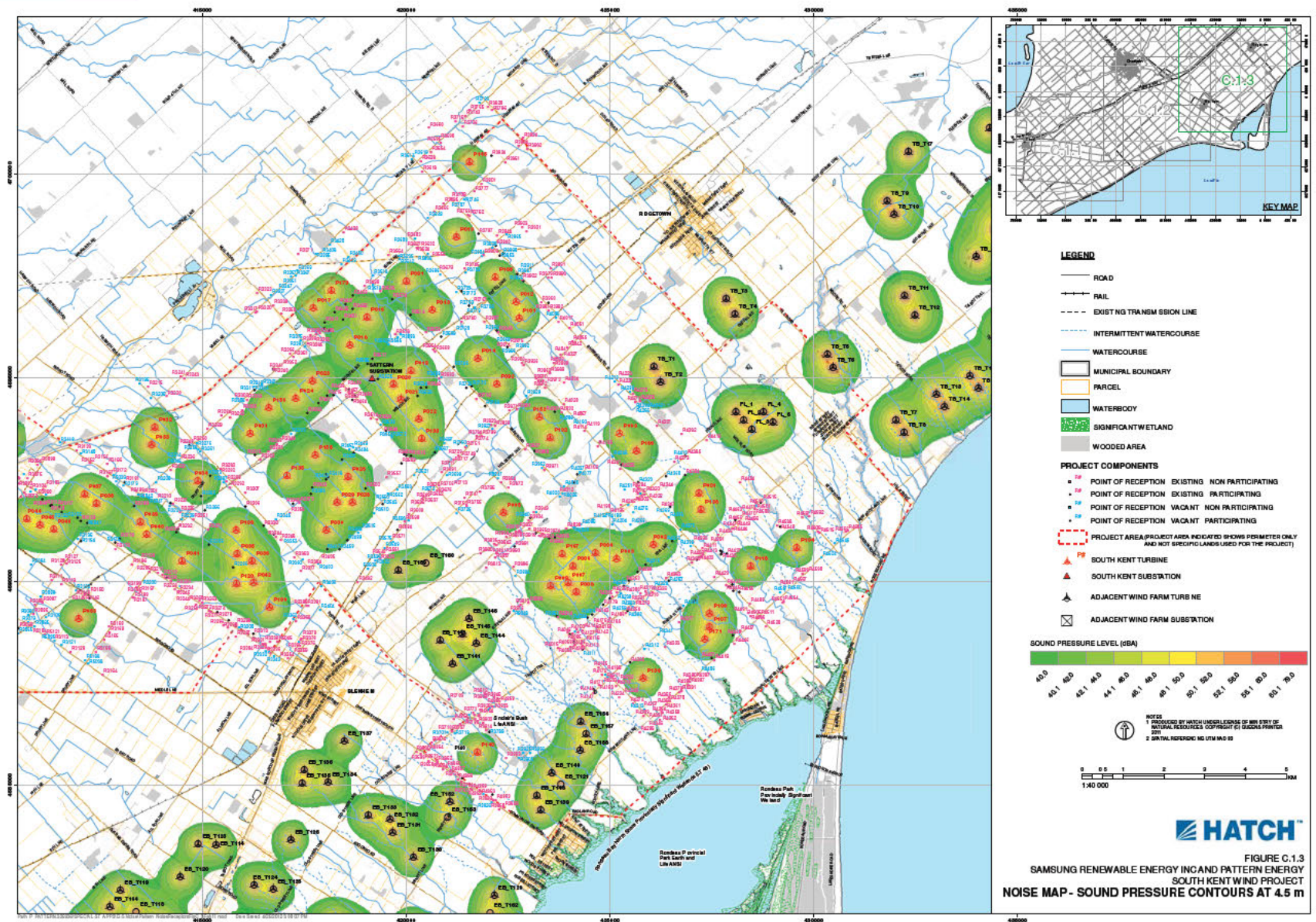


HATCH

FIGURE C.1.2
SAMSUNG RENEWABLE ENERGY INC AND PATTERN ENERGY
SOUTH KENT WIND PROJECT
NOISE MAP - SOUND PRESSURE CONTOURS AT 4.5 m

SAMSUNG
SAMSUNG RENEWABLE ENERGY INC.

Pattern



Property Values

"In the study area, where wind farms were clearly visible, there was no empirical evidence to indicate that rural residential properties realized lower sale prices than similar residential properties within the same area that were outside of the viewshed of a wind turbine."

Canning, G., and L. J. Simmons. (February 2010). Wind Energy Study Effect of Real Estate Values in the Municipality of Chatham-Kent. Canning Consultants Inc. & John Simmons Realty Services Ltd. Prepared for the Canadian Wind Energy Association.

"Research collected data on almost 7,500 sales of single family homes situated within 10 miles of 24 existing wind facilities in nine different U.S. states. The conclusions of the study are drawn from eight different hedonic pricing models, as well as both repeat sales and sales volume models.

The various analyses are strongly consistent in that none of the models uncovers conclusive evidence of the existence of any widespread property value impacts that might be present in communities surrounding wind energy facilities. Specifically, neither the view of the wind facilities nor the distance of the home to those facilities is found to have any consistent, measureable, and statistically significant effect on home sales prices.

Although the analysis cannot dismiss the possibility that individual homes or small numbers of homes have been or could be negatively impacted, it finds that if these impacts do exist, they are either too small and/or too infrequent to result in any widespread, statistically observable impact."

Hoen, B., Wiser, R., Cappers, P., Thayer, M., and G. Sethi. (December 2009). The Impact of Wind Power Projects on Residential Property Values in the United States: A Multi-Hedonic Analysis. Ernest Orlando Lawrence Berkeley National Laboratory. Prepared for the Office of Energy Efficiency and Renewable Energy.



Community Benefits

Supports the local economy by:

- » Purchasing good and services during construction and operation
- » Significantly increasing revenue for all service businesses, i.e. local restaurants and hotels during construction and operations

Significantly contributes to the tax base annually with approximately \$800,000/year, benefiting:

- » Local Government and Related Services
- » Lambton Kent School District

Through land lease agreements with landowners, the Project will provide additional income for farmers

Job Creation

Construction

Job opportunities: up to 300 positions during peak construction periods

- » Subcontractors experienced in civil work (grading, excavation, and concrete), electrical work, and mechanical assembly
- » Construction managers, electricians, heavy equipment operators and general labourers for assembly & civil work

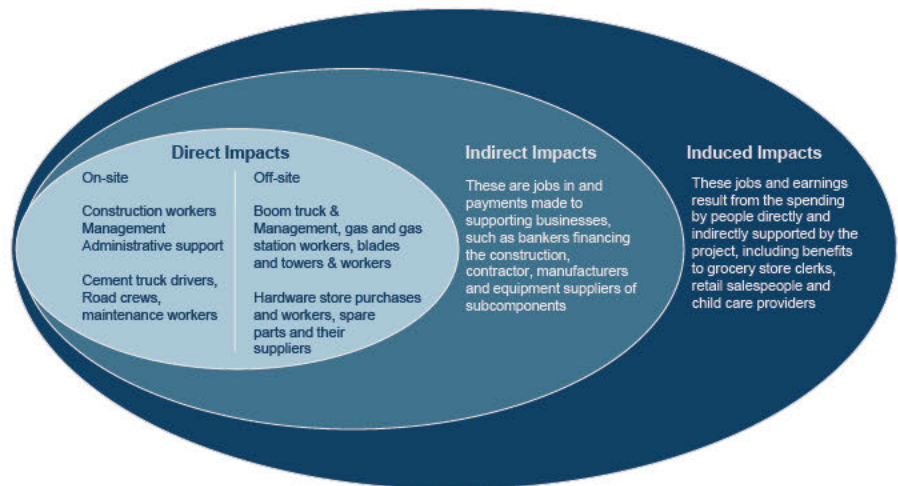
Operation

- » Maintenance personnel proficient in mechanics or electrical/electronic technicians

Manufacturing

- » This project is part of the Samsung Green Energy Investment Agreement, which is committed to the establishment of four manufacturing facilities in the Province of Ontario. The manufacturing facilities will create:
 - 900 or more jobs (from 4 manufacturing facilities)
 - 550 or more (steel industry etc.)
 (excluding construction, operation & maintenance jobs)

Wind Energy's Economic Ripple Effect



Source: National Renewable Energy Lab



South Kent Wind Project

Environmental Benefits of 270 MW of Wind Energy Compared to Coal-Fired Generation

Carbon Dioxide Emissions Reduced

877,077 tonnes/year
157,172 car equivalent

Coal

409,491 tonnes/year

Sulfur Dioxide

3,940 tonnes/year

Nitrogen Oxides

1,331 tonnes/year

Water Conserved

1,840,610,359 litres/year
5,042,768 litres/day
14,800 people each day



Sources: Based on information from the Energy Information Administration, National Energy Technology Laboratory, and U.S. Geological Survey. Annual emission offsets based on 270 MW wind project offsetting coal-fired generation, using capacity factor for Chatham-Kent area and accounting for regular turbine maintenance. Water conserved compared to coal-fired generation (541 gallon/MWh), source American Wind Energy Association. People supplied figure based on USGS estimation of 80-100 gallons/day per capita water consumption, US Geological Survey, "Water Q&A: Water use at home," <http://ga.water.usgs.gov/edu/qahome.html>.

Blowing Smoke: Correcting Ontario Anti-Wind Myths

• Myth 1: Health impacts

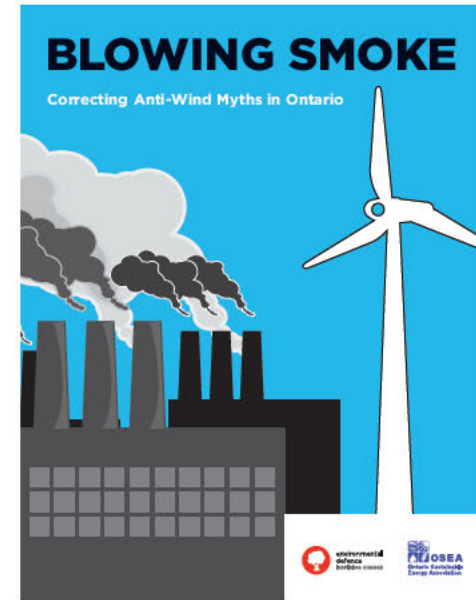
- » Reality: Repeated studies around the world have found no scientific evidence of health impacts from wind power projects.

• Myth 2: Viability

- » Reality: Wind power has been successfully used for decades and the world is rapidly scaling up its use because it works, particularly in light of climate change.

• Myth 3: Economic & Environmental Benefits

- » Reality: Wind power is creating thousands of jobs across Ontario and letting us reduce the use of harmful fossil fuels.



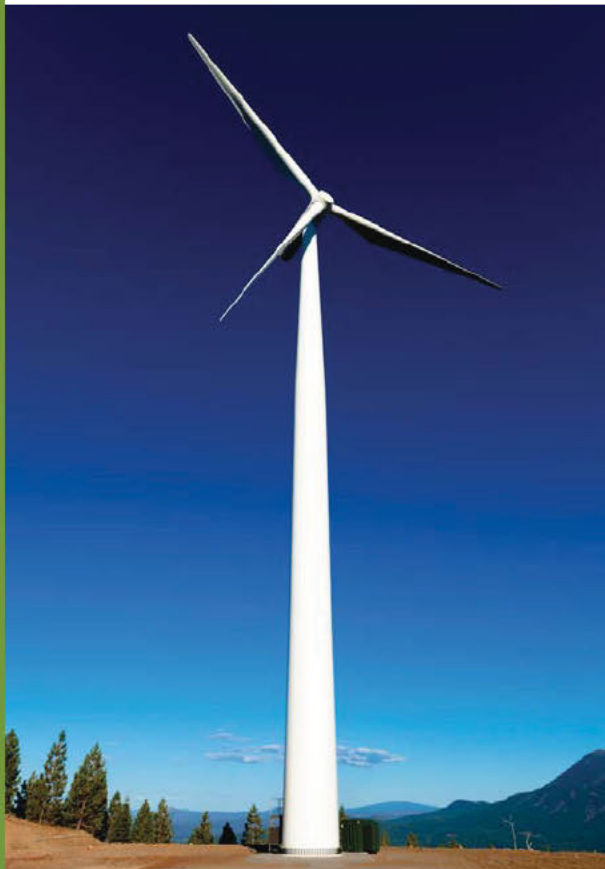
Sierra Club: The Real Truth About Wind Energy

June 2011 report by the Sierra Club Canada

- " After a thorough review of the science, we are confident in saying there is no evidence of significant health effects that should prevent the further development and implementation of wind turbines, wind farms and wind energy."
- " The further development of wind energy as a growing portion of our energy supply will reduce direct carbon emissions, improve the quality of the air we breathe, and generally improve the health and well-being of Canadians, our families and the environment in which we live."
- " With a full review of available data, including that referenced by wind opposition groups, Sierra Club Canada adds its voice to the overwhelming majority of governmental, non-governmental, scientific and environmental groups in saying that a link between wind turbines and health concerns is unfounded."



South Kent Wind Project



Health and Wind Power



- » Public health and safety will be considered during all stages of the Project.
- » Many studies have been conducted world-wide to examine the relationship between wind turbines and possible human health effects.
- » In Ontario *"Ontario doctors, nurses, and other health professionals support energy conservation combined with wind and solar power – to help us move away from coal"*

Ontario College of Family Physicians, Registered Nurses Association of Ontario, Canadian Association of Physicians for the Environment, Physicians for Global Survival, the Asthma Society of Canada, and the Lung Association

- » In "The Potential Health Impact of Wind Turbines" (May 2010), Ontario's Chief Medical Officer of Health recently examined the scientific literature related to wind turbines and public health, considering potential effects, such as dizziness, headaches, and sleep disturbance. The report concluded that:

"...the scientific evidence available to date does not demonstrate a direct causal link between wind turbine noise and adverse health effects. The sound level from wind turbines at common residential setbacks is not sufficient to cause hearing impairment or other direct health effects, although some people may find it annoying."

The report also concluded that low frequency sound and infrasound from current generation upwind model turbines are well below the pressure sound levels at which known health effects occur. Further, the report states that there is no scientific evidence to date that vibration from low frequency wind turbine noise causes adverse health effects.

- » Overall, health and medical agencies agree that sound from wind turbines is not loud enough to cause hearing impairment and is not causally related to adverse effects.*
- » Scientists and medical experts around the world continue to publish research in this area. Through our health consultants, Pattern is committed to keeping informed on this issue.

*e.g., Chatham-Kent Public Health Unit, 2008; Minnesota Department of Health, 2009; Australian Government, National Health and Medical Research Council, 2010; Australian Government, 2011, Massachusetts Department of Environmental Protection (MassDEP) and Massachusetts Department of Public Health (MDPH), 2012



Your Comments

Comments or concerns can be provided in the following ways:

1. Completion of a comment sheet. Please deposit the completed sheet in the Comments Box provided at this meeting or complete at home and fax/e-mail. If you wish to receive future Project mailings, please ensure your complete mailing address is provided.
2. Identification of comments or concerns to any Pattern Energy, Samsung Renewable Energy, Bowark or Hatch representatives present at this Public Meeting.
3. Contact the representatives for the Project at the addresses provided below:

Kimberley Arnold, BSc, MES
Environmental Lead - Energy
Hatch Ltd.

4342 Queen St., Suite 500, Niagara Falls, Ontario, L2E 7J7
Phone: 905-374-0701 Ext. 5318 Fax: 905-374-1157
karnold@hatch.ca

Keith Knudsen
Project Manager
BowArk Energy Ltd.
Suite 4301, 400 3rd Avenue SW, Calgary, Alberta T2P 4H2
Phone: 403-264-2259 Fax: 403-261-1708
kknudsen@bowark.com

Please visit the South Kent Wind Project website at www.southkentwind.ca for more information on the Project and the Proponent.

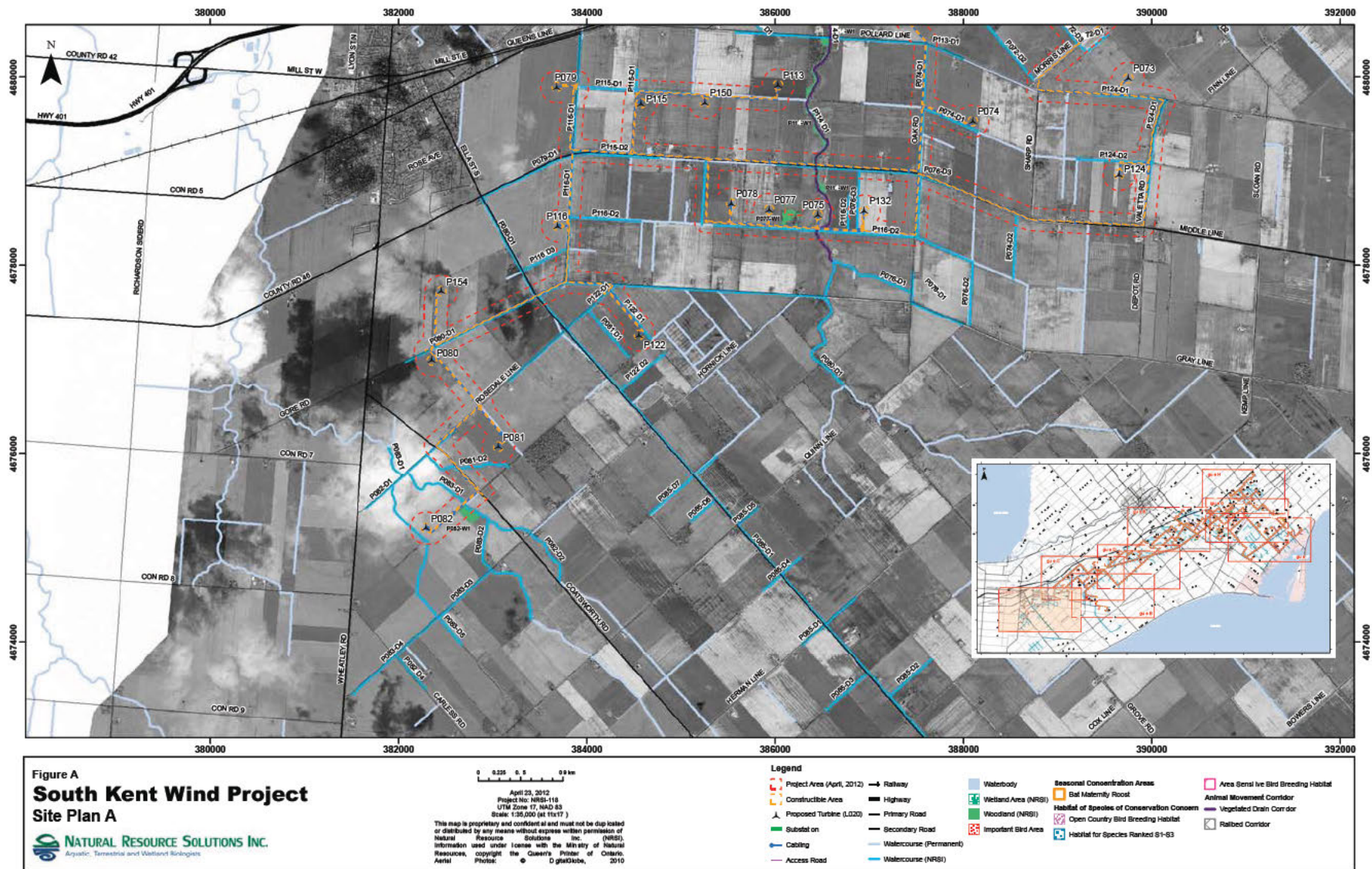
Next Steps

An addendum to the consultation report, documenting all concerns and questions from this meeting, and since the Final Public Meeting in November 2011, will be produced and sent to the MOE for acceptance. All other revised Project documents have already been provided to MOE.

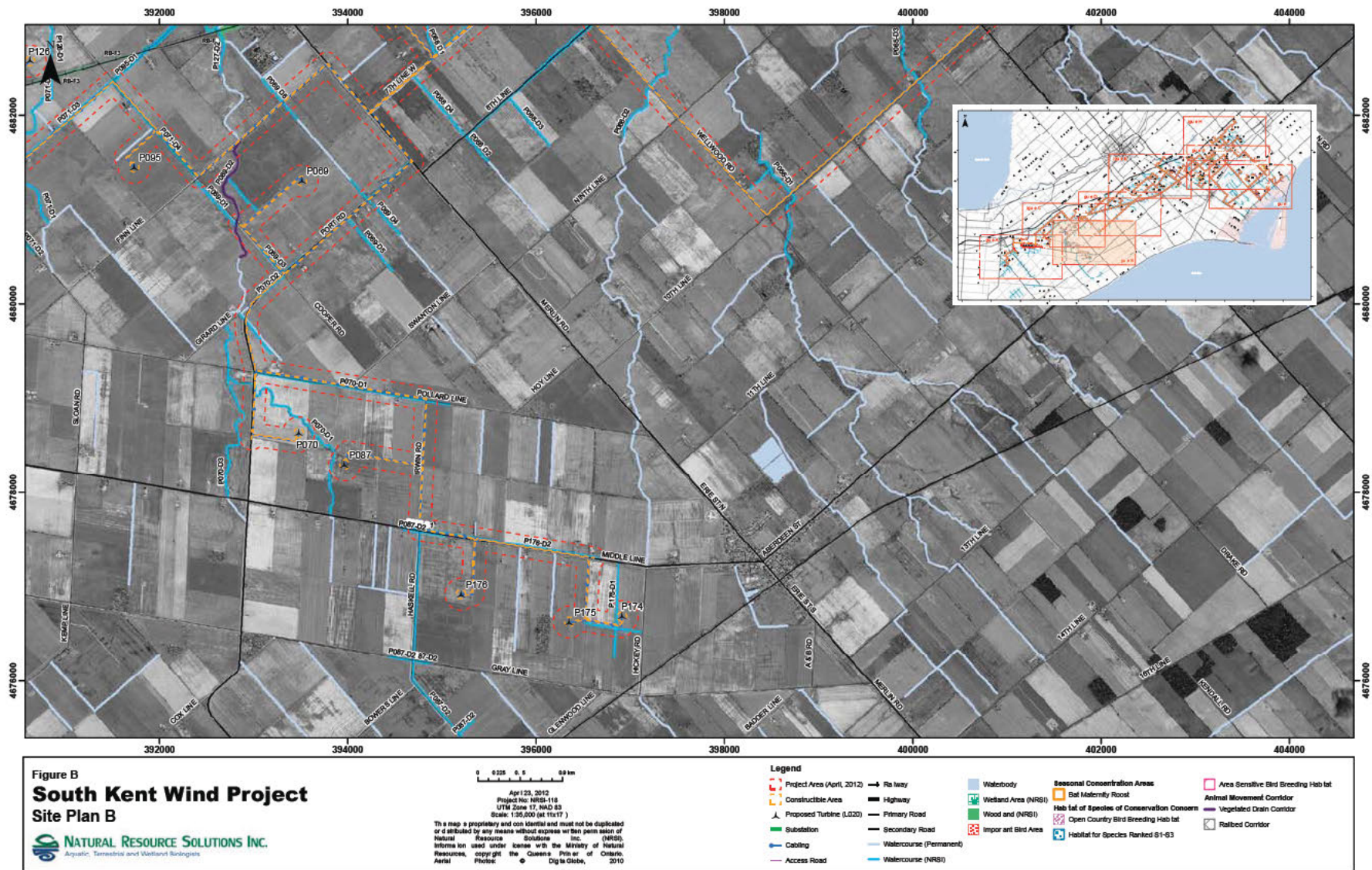
The Project was deemed complete by the Ministry of the Environment in early February 2012. Once deemed complete, approval can take up to six months after which the public has 15 days to request an appeal of the approval decision with the Ministry of the Environment

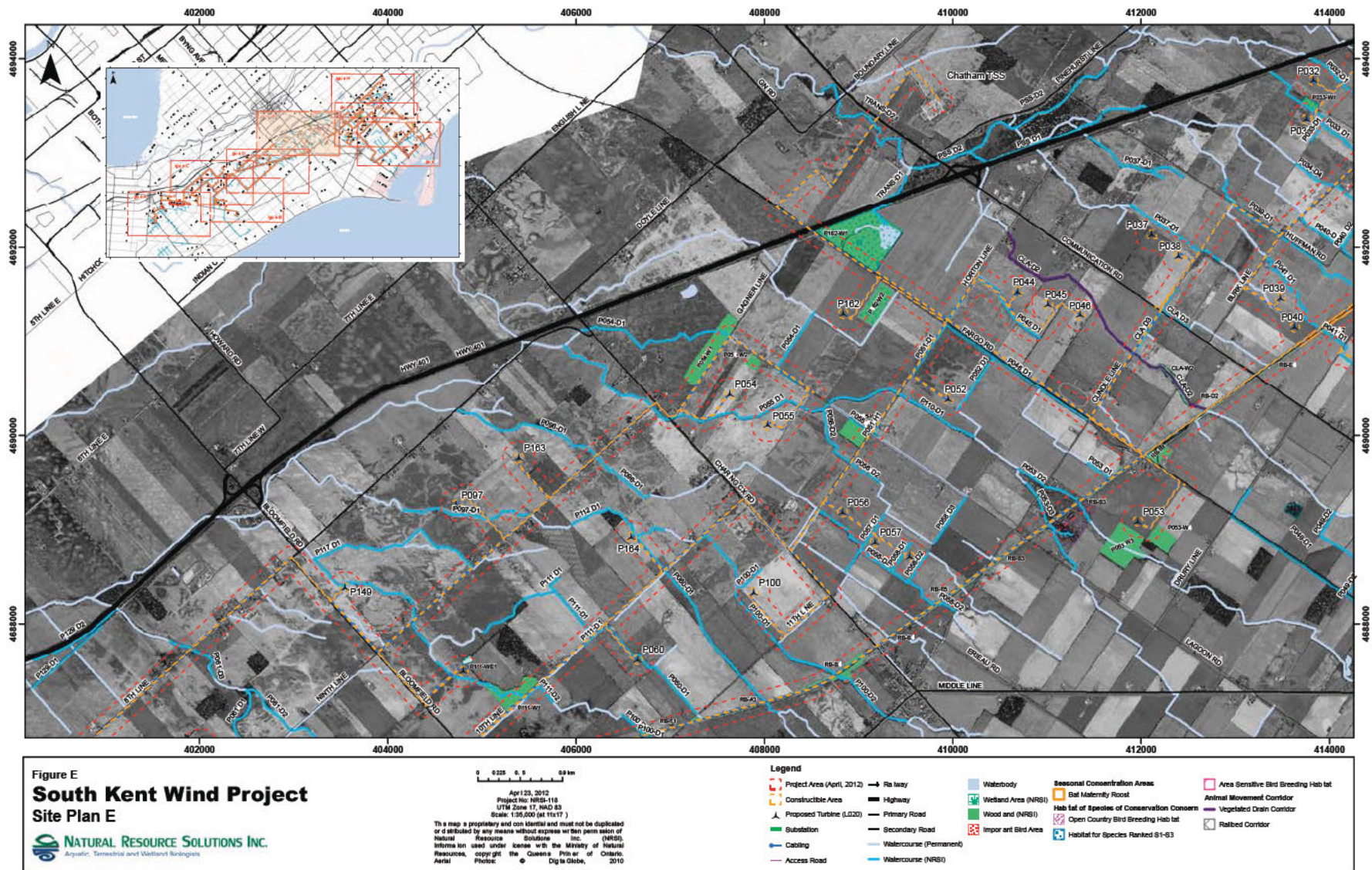
Thank you

for attending our
Public Meeting.

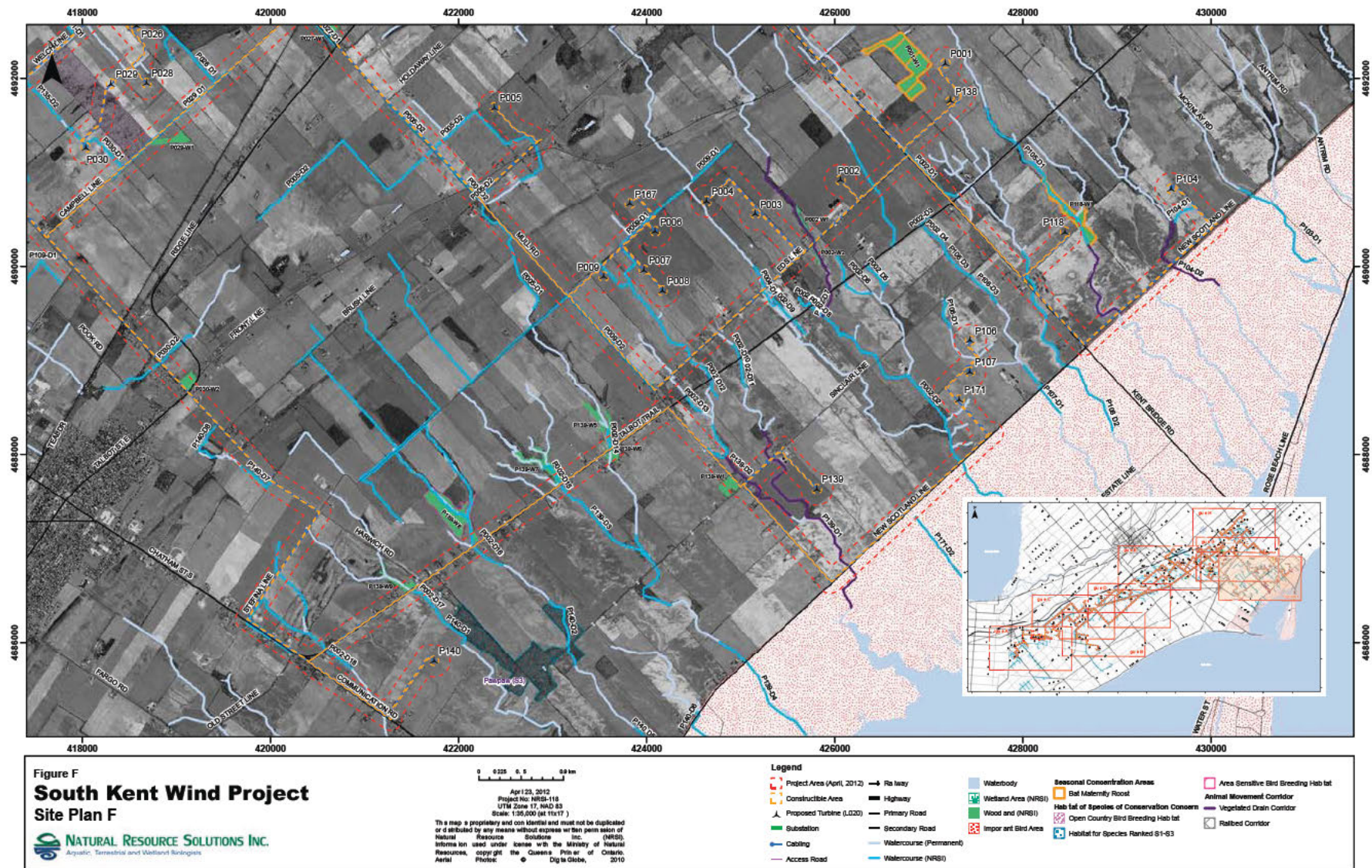


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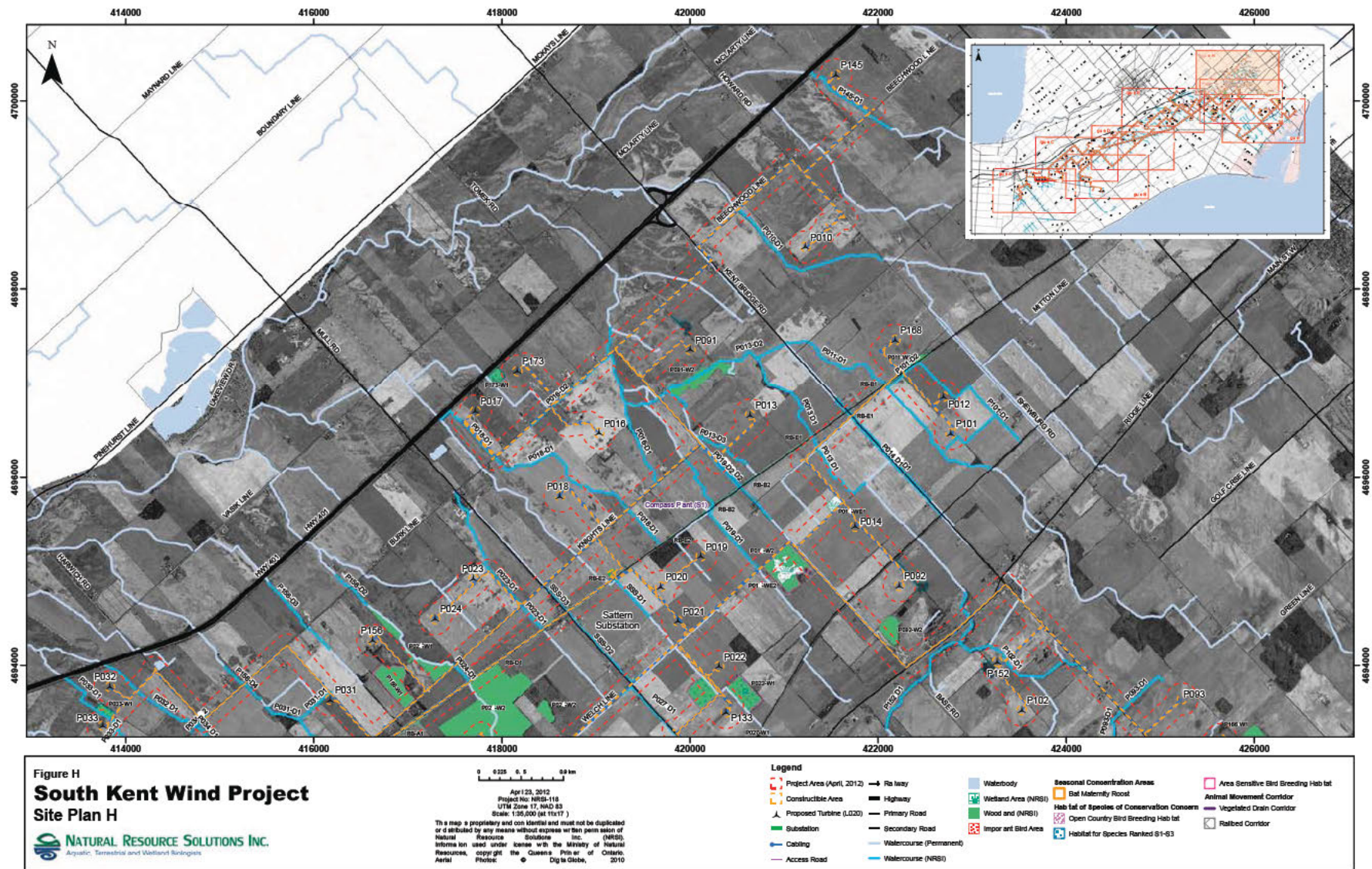


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Please Sign In
(PLEASE USE BLOCK LETTERS)
South Kent Wind Project – Final Public Meeting

Date: Saturday, May 12, 2012

Name	Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
Rick Samrozinski	Candle Lane		NOP 1G0	519-354-3536
John Jordan	7725 Eggleston Ave	Chatham	N17M5J6	519-436-0839
TOM STOREY	330 Richmond #201	CHATHAM	N7M 1P7	519-354-4351
Kevin Drewsey	9007 Candle	Charing Cross	NOP 1G0	351-3525
Marc Campbell	10215 ROCKET LINE	Blenheim	NUP1A0	519-626 8483

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Name	Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
JOHN SCHIPPERS	RR # 4	Blenheim	NOP 1A0	519-626-2402
Carolyn Birchall	9007 Cenelle Road	Chapman	NOP 1G0	543313525
PAULIE + JONNE BOUSSER	294 MERCEY ST	CHATHAM	N7A 4B7	519-351-2931
CINDY BOOGAART	RR 7	BLenheim	NOP 1A0	519-676-8404
Scott Whitton	CONNAUGHT	blenheim	NOP 1A0	676-3096

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Name	Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
Tyson Phelps	Greenline	Medlin	NOP 1W0	
Ann Margaret Ure	Kearney Blvd	Edmonton	NOP 2C0	519-674-2461
A-Al-Kinani	3763	Tilbury	NOP 2L0	519-818-3361
Rick Ashburn		Toronto	M1P 2B0	416 329 9755
Donald A. Hines	142 Woodmont St	Medlin	NOP-1W0	
John Paulsen	RRL	Leather	NUTM 5J6	
Dyle Brown	McKinlay Rd	Morpeth	NOP 1X0	519-674-0335
SANDRA JONES.	POST POINT LANE	Edmonton	NOP 1W0	519-674-7177.
WILMA BOERMA	8085 NEWBURGH	KIDGETOWN	NOP 2C0	519-674-0435
Donna J. Pollard	5391 Middle Line Rd	H1 Medlin	Qut NOP 1W0	519-689-4417

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Name	Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
Camille Vustriate	R-1072	Blenheim	N0P 1A0	519-676-8545
Ron Boynton	1903 Kent Bridge Rd	Blenheim	N0P 1A0	519-674-3526
Donna Stewart	675 Mauney Avenue	Chatham	N0P 1N0	519-676-0644
Doug Flook	A.R.6	Chatham	N7M 5J6	519-436-0816
Brian Flook	R.R.6	Chatham	N7M 5J6	
Paul Doyle	RR#1	Charling Cross	N0P 1G0	519-351-0985
Michele & Pete Rinders	RR3	Ridgeway	N0P 2C0	
Larry Anderson	R3	Kent Bridge	N0P 1V0	519-692-4221
Chuck Skiffier	A.R.6	Merlin	N0P 1W0	519 689 4592
One & Pat Fergat	RR#1	Charling Cross	8105 11th line	519-351-8693

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Name	Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
Paul Kluka	RR5	Blenheim	NOP 1A0	676 4464
LIZ GREEN	ROSS LANE	ERIE	NOP 1N0	676 3977
Jacques R. Thibault	RR #2	Tilbury	NOP-2L0	519 682 1057
Ken Gye	RR #1	Chatham	NOP 1G0	519 381 0988
Marty Vermeij	RR #1	Blenheim	NOP 1A0	519-676-0273
Earl Fitch	RR1	Merlin	NOP 1W0	352 5436
Chris Steel	RR4	Blenheim	NOP 1A0	676 2962
NEAL HENDRIE	RR6	CHATHAM	N7M 5J6	436-0649
William M. Derosier	RR1	BLN	NOP 1A0	—

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Name	Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
Brene Campbell	Ridge Line	Blenheim	N0P1A0	
Gary Cracker	21207 Charing Cross Rd	Charing Cross	N0P 1G0	
Liz Middleton	18700 McKinlay Rd	Morphy	N0P N0	
Diane Rumble	20905 Communication Rd	Blenheim	N0P 1A0	
Mike DeBower	R.R. 4	Blenheim	N0P 1A0	
Luke Steel	20080 Base	Blenheim	N0P 1A0	
John F. Hendrie	2400 Bloomfield Rd	CHATHAM	N7m 5J6	579 436 0827
Joeth Thompson	Box 664	Blenheim	N0P 1A0	
Doug Anderson	12238	Kent Bide	N0P-1A0	519-692-5742
Steve & Linda Henderson	1036 Welch Rd	Blenheim	N0P 1A0	

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Name	Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
DAN O'NEILL	7807 8th LINE	CHAATHAM	N7M-5J6	519-436-0838
Robert + Anna Ivison	3905 Middleline	Tilbury	N0P2L0	519-682-1090
Tomo Beth Olsen	4082 Pollard Line	"	N0P2L0	519-682-2055
Murray Moerman	Sinclair line 10706	Blenheim	N0P1A0	519-676-8209
Win Elzinga	392 Park Ave	Chatham	N7M 5Y5	519-354-2193
Dana Apple Dicker	Box 1263 385 Talbot St	Blenheim	N0P 1A0	519-676-8223
Richard + Norma Cook	3774 Middle Line	Tilbury	N0P2L0	519-682-9598
Blake Outhouse	South Bury RACEWAY	NORTH Burton		519-809-1877
Tim Segeren	9007 Curdie Line	Chatham	N0P 1A0	519-354-3383

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Name	Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
DAVE LADORE	RR 4	BLenheim	NOP 1A0	519-676-1943
BILL + NORMA VAN FERG	6964 TALTR	RIBLEN	NOP 1A0	676 8091
Lyle Phelps	RR # 4	Merlin	NOP 1W0	689-7747
Gwen Hrecenink	11129 Brush Lane	Blenheim	NOP 1A0	519 365-6753
DEIL LOCKYER	RR 4	BLenheim	NOP 1A0	519 674-0617
Jay Vince	R.R. # 6	Merlin	NOP 1W0	519 351-1288
Sen + Pat Soules	RR # 6	Merlin	NOP 1W0	519-689-4488
GORD KIRK	45 SNOW	BLenheim	NOP 1A0	519-676-3283
Maurice Gisle Gauthier	Tenth Line 6095	Merlin	NOP 1W0	519-689-4487

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Name	Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
Beatrice & Jim Rod	1117 Cochrane	Windsor	N9H2G3	519-972-5873
Frank Desjardins	322 Chelva	Blenheim	NOP1A0	6766555
S. Ward		T. J. O'Brien	N0G2T0	368-5220
Mary R. Sutcliffe	R.R. 18 Blenheim 51 Campbell Ave	Blenheim	NOP1A0	519-676-1644
Stacy Thomas	19087 Com	Blen	NOP1A0	519-676-2387
Mae Cameron	10428 Knights Line	Blen	NOP1A0	519)676-5692
Don Wells	Dunbar 9648	Blen.	NOP1A0	(519)676-4753
Mack Orsz	22891 COASTWATER RD.	T. J. O'Brien	NOP2L0	519 818 3095
Ed. McMillan	RR#4	Blenheim	NOP1A0	519-676-8624
George McFadden	RR#6	McLennan	NOP1W0	519 689 4042

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(PLEASE USE BLOCK LETTERS)

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Name	Mailing Address			Phone (Please include area code)
	Street	City	Postal Code	
DONNE MARLENE WARREN	RR#3	CHATHAM	N7M 5S3	519-352-4956
DOUG & DOROTHY ARNER	GLEESON 5102 LINE	TILBURY	NOP 2L0	519-682-1849
BILL WHITTINGTON	21901	CHATHAM	N7M 5S3	519-676-5632
Scott Martins		Brantford		
DAN MARTINS	MAIN	BRAMPTON		
BERNICE & JOHN SLOAN	FINCHURST LANE	CHATHAM	N7M 5S3	519-354-6390
Paul Vercammen	RR#4	Blair	NOP 1A0	519-676-7138
Larry Gagne	RR#5	Blair	NOP 1A0	519-676-2926
Ronny Van Heesch	RR#7	Blenheim	NOP 1A0	519-676-3876
CAROL IVISON	RR#1	Tilbury	NOP 2L0	519-682-3130

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South Kent Wind Project

Comment Sheet

Final Public Meeting: Saturday May 12, 2012

(PLEASE USE BLOCK LETTERS)

1. Please describe where you reside in relation to the Project area? _____

14049 New Scotland Line.

2. Please provide any relevant information related to the Project area which, in your opinion, should be considered in assessing the potential effects of the Project?

P139

- would like exact Distance to
my Home from the Wind Turbines.

Thank you

M Cleadenning

Send info to:

mcleadenning@gmail.com

Continued on back



3. Please provide any comments, questions or concerns related to the Project and the Project changes.

Also contact person at Ministry of Environment.

If you would you like to be included on the Project mailing list, please provide your name and full mailing address below:

Name: _____

Mailing Address: _____

Email Address: _____

WE WELCOME YOUR INPUT. PLEASE COMPLETE AND SUBMIT THIS COMMENT SHEET BEFORE LEAVING - THANK YOU

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South Kent Wind Project

Comment Sheet

Final Public Meeting: Saturday May 12, 2012

(PLEASE USE BLOCK LETTERS)

1. Please describe where you reside in relation to the Project area? 11129 Brush

Line. Blenheim. On 3 acres on a farm
that a turbine is going on.

2. Please provide any relevant information related to the Project area which, in your opinion, should be considered in assessing the potential effects of the Project?

Upset about property value decrease
because of turbine close by.

Continued on back



3. Please provide any comments, questions or concerns related to the Project and the Project changes.

Property owner lives nowhere near
and gets all compensation, residents
close by get nothing!

If you would you like to be included on the Project mailing list, please provide your name and full mailing address below:

Name:

Gwen Hrecenih

Mailing Address:

11129 Brush Line

Blenheim NOP 1A0.

Email Address:

gh.paintrider@yahoo.com

WE WELCOME YOUR INPUT. PLEASE COMPLETE AND SUBMIT THIS COMMENT
SHEET BEFORE LEAVING - THANK YOU

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record and will be published in Project reports that will be available for public review.

South Kent Wind Project

Comment Sheet

Final Public Meeting: Saturday May 12, 2012

(PLEASE USE BLOCK LETTERS)

1. Please describe where you reside in relation to the Project area? _____

813 m from P810

2. Please provide any relevant information related to the Project area which, in your opinion, should be considered in assessing the potential effects of the Project?

- my ongoing concern is:
what will be the impact of low-frequency noise?

I am aware of the mitigation that natural gas companies must do at their compressor stations due to low frequency noise. I am also aware of the extent of discomfort coming from the low-frequency hum of Zug Island.

I want the assurance, that if I have a concern, I will not have to fight so hard to maintain my right to health, as others who live near existing turbine farms.

Continued on back



This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Name: I'm already on it.

Mailing Address: Thanks

Email Address: _____

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South Kent Wind Project

Comment Sheet

Final Public Meeting: Saturday May 12, 2012

(PLEASE USE BLOCK LETTERS)

1. Please describe where you reside in relation to the Project area?

Site Plan A
Figure A - waterway marked on Lot 23-22
MRS) 3774 Middle Line
- NRS1 has new waterway marked
on farm that is not there

2. Please provide any relevant information related to the Project area which, in your opinion, should be considered in assessing the potential effects of the Project?

Continued on back



This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Name: Donna Cook

Mailing Address: 3774 Middle Lane
Pulbury, ON N0P2L0

Email Address: dd.cook@hotmail.com

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South Kent Wind Project

Comment Sheet

Final Public Meeting: Saturday May 12, 2012

(PLEASE USE BLOCK LETTERS)

1. Please describe where you reside in relation to the Project area? we reside

at 7725 Eighth line which is closest to your
tower P149. My concerns have little to do with
weather real estate issues but rather how long we
as taxpayers must foot the bill for this rather expensive
form of hydro generation. While the wind is free
the cost of the power certainly is not

2. Please provide any relevant information related to the Project area which, in your opinion, should be considered in assessing the potential effects of the Project?

I trust you will be good corporate citizens
and close the gate after you leave.

Continued on back



3. Please provide any comments, questions or concerns related to the Project and the Project changes.

I am chair of the Raleigh Neighbourhood watch
where or who do I go to discuss community
support initiatives?

If you would you like to be included on the Project mailing list, please provide your name and full mailing address below:

Name:

John Jordan

Mailing Address:

RR #6

Chatham, ON N7M3J6

Email Address:

reservations@jordan-house.com

WE WELCOME YOUR INPUT. PLEASE COMPLETE AND SUBMIT THIS COMMENT SHEET BEFORE LEAVING - THANK YOU

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Appendix E

Landowner Presentation



Harvesting the Wind for Chatham-Kent

South Kent Wind

July 19, 2011



Agenda

- Introductions
- South Kent Wind Project Overview
- Renewable Energy Approval Process
- Community, Economic and Environmental Benefits
- Q & A



Introductions



Pattern Energy

Financially strong, long-term developer, owner and operator of energy assets

- One of the most experienced and best-capitalized development companies in the U.S. renewable energy and transmission industry
- 100-person team of dedicated professionals with proven track record of developing, constructing, financing, and placing into operation 2,500 MW of wind power
- Expertise & experience at all project stages: resource analysis, site development, finance, construction and operation
- Dedicated to delivering the highest values for our partners and the communities where we work
- Strong commitment to promoting environmental stewardship and corporate responsibility



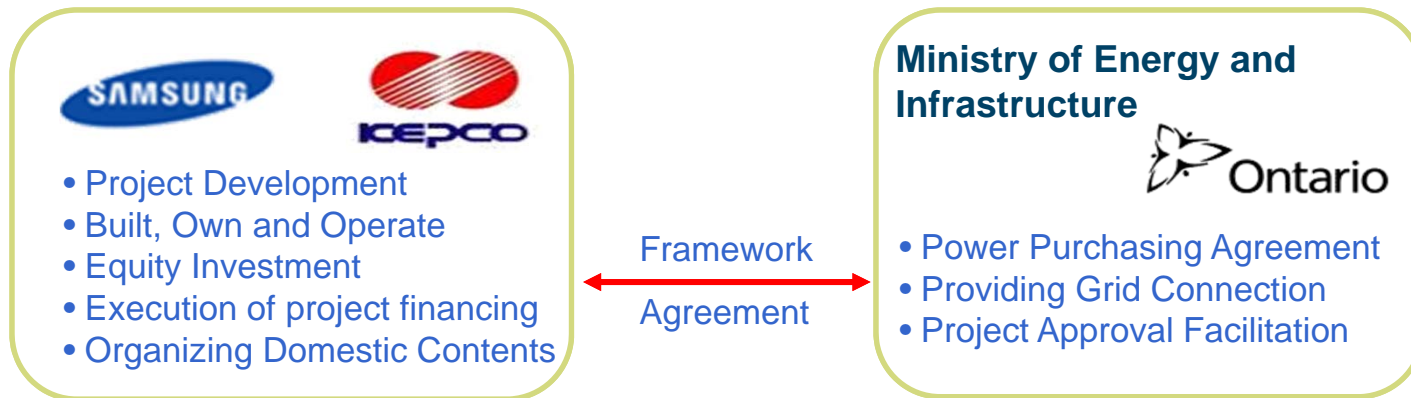
Projects the Pattern Team Brought To Operation



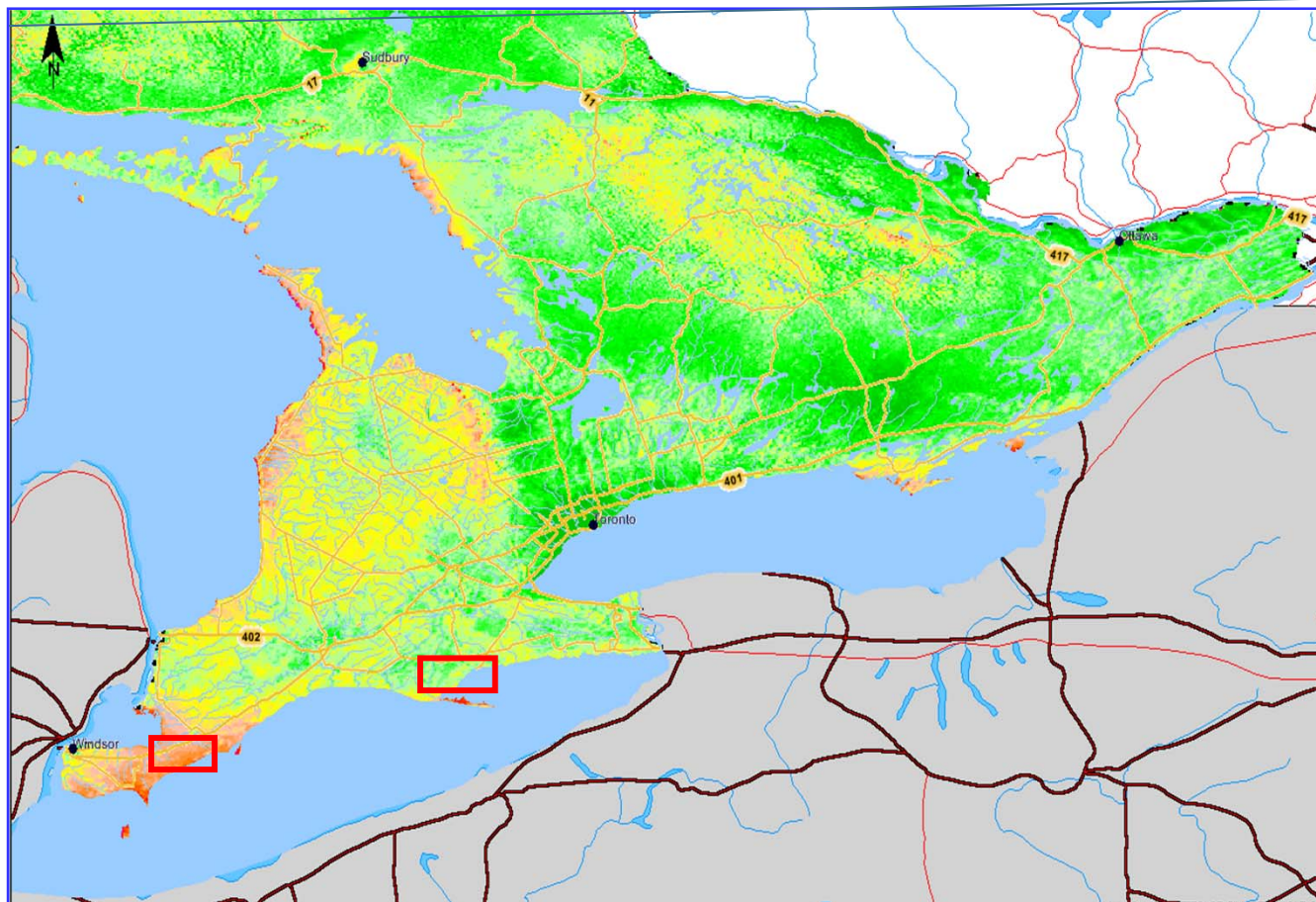
Korean Consortium: Samsung & KEPCO

Co-Development 2.5GW Renewable Energy Cluster Project

- Planned Capacity: 2.5 GW in 5 Phases [2,000 MW Wind and 500 MW Solar PV]
- 400 MW Wind and 100 MW Solar PV for each phase development
- Total Investment by Samsung and its partners: \$7 billion



Phase 1 Project Sites



Purpose and Need

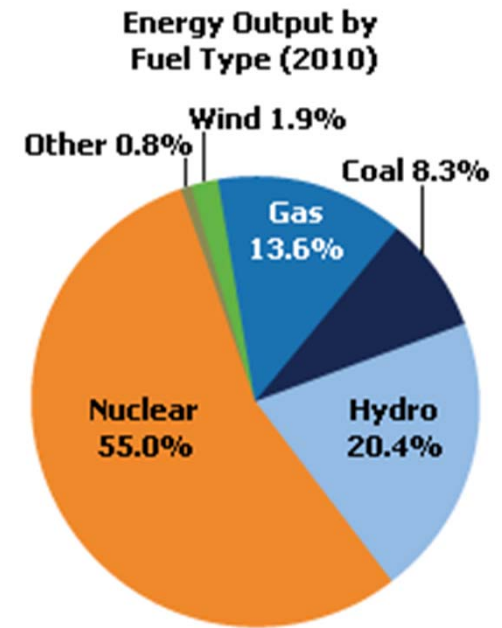


Green Energy Act – Ontario Energy Targets

- 10,000 MW of new installed renewable energy by 2015, over and above 2003 levels
- 25,000 MW of new installed renewable energy by 2025, over and above 2003 levels
- 2025 generation mix of 40% Renewables, 35% Nuclear, 25% Natural Gas and Oil

Increasing Wind Energy– Eliminating Coal

- Nanticoke and Lambton unit shutdowns in 2010 eliminated 2,000 MW of coal-fired generation



Creating Ontario Employment Opportunities

Intent of Green Energy Investment Act is to support the Green Energy Act by creating green-collar manufacturing jobs

- 16,000 total direct and indirect jobs created by the Green Energy Investment Agreement
- Manufacturing
 - Four manufacturing facilities for wind turbine and solar panel components
 - Ontario steel used for wind turbine towers
- Construction
 - Job opportunities for local residents
 - Subcontractors experienced in civil and electrical work
 - Construction managers, electricians, heavy equipment operators and general labourers for assembly & civil work
- Operation
 - Maintenance personnel proficient in mechanics or electrical/electronic technicians



South Kent Wind Project Overview



South Kent Wind Project Overview

- 270 MW wind energy generation project
- Power equivalent: approx. 73,000 Ontario homes
- Estimated \$16 million in property taxes generated over 20 year contract period
- 12 – 18 month construction period
- Up to 300 jobs during construction period
- Approximately 20 permanent jobs during operations
- Project area: approximately 46,000 acres
- Surface area affected during operations: typically less than 1% of total project area



*Uses assumption from the American Wind Energy Association that one megawatt of installed wind energy capacity costs \$2 - 2.5 million US dollars.

Proposed Wind Turbines

- Turbine Manufacturer: Siemens
- Number of Turbines: Approximately 125
- Rotor speed: 6 – 16 rpm
- Hub height: 99.5 m or 326 ft
- Blade length: 49 m or 161 ft
- Tower base diameter: 4.5 m or 15 ft
- Cut-in speed: 4 m/s or 9 mph
- Cut-out speed: 25 m/s or 56 mph
- 2.126 MW and 2.221 MW



South Kent Wind Project Timeline*

Commence Environmental Consultant Site Visits	August 2010
Project Description Report posted to public	October 2010
Notice of Proposal	October 2010
Public Information Session #1	November 2010
Reports and Layout Available for Public Review	July 2011
Public Information Session #2	September 2011
Submission of REA Application	September 2011
Start of Construction	First Quarter 2012
Commercial Operation Date	First Quarter 2013



*Represents our ideal project timeline and subject to change.

Renewable Energy Approval Process



Areas of Consideration

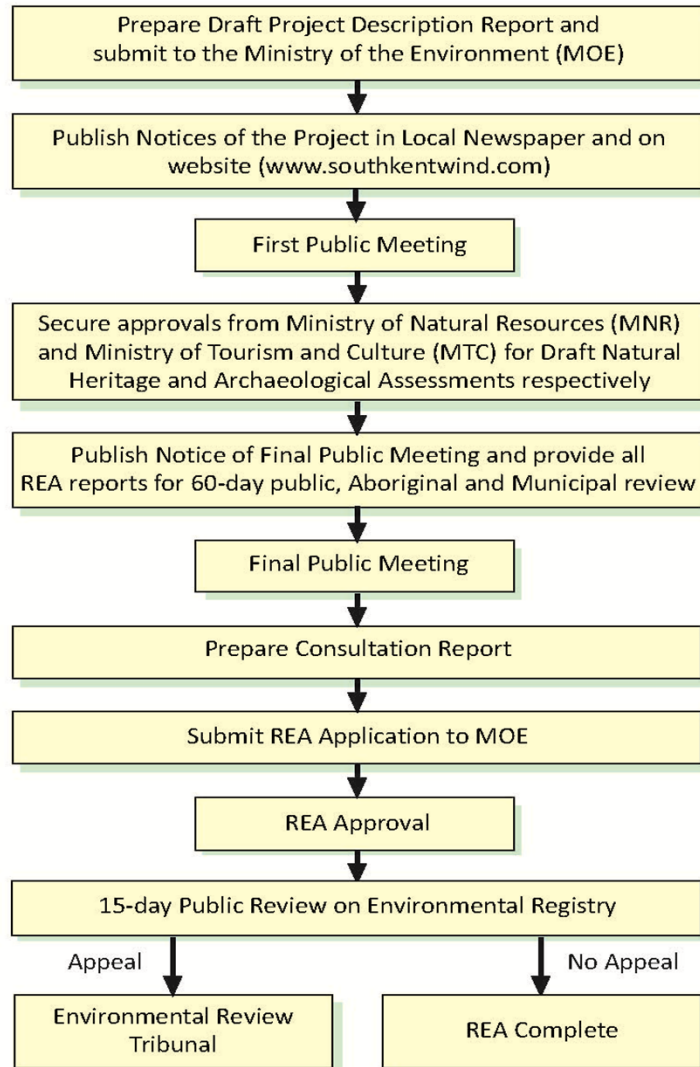


The permit process will analyze and disclose any potential impacts from the project. Examples of resources considered include:

- Vegetation
- Wildlife, threatened & endangered species (animal or plant)
- Migratory Birds
- Important Bird Areas
- Cultural Resources
- First Nations Communities
- Noxious Weeds/Invasive Non Native Species
- Wetlands
- Floodplains
- Socioeconomic
- Sound Impacts
- Environmental Justice
- Air Quality
- Geology and Soil
- Recreation
- Transportation
- Visual Resources
- Water Resource Assessment
- Vegetation Restoration Plan



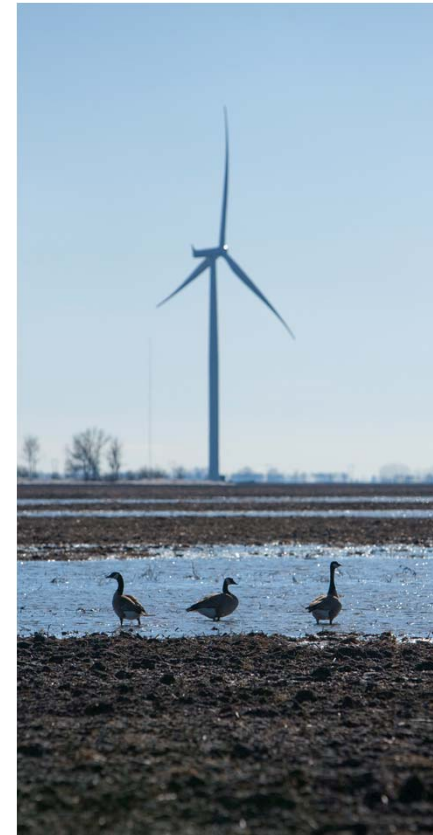
REA Approval Process Overview

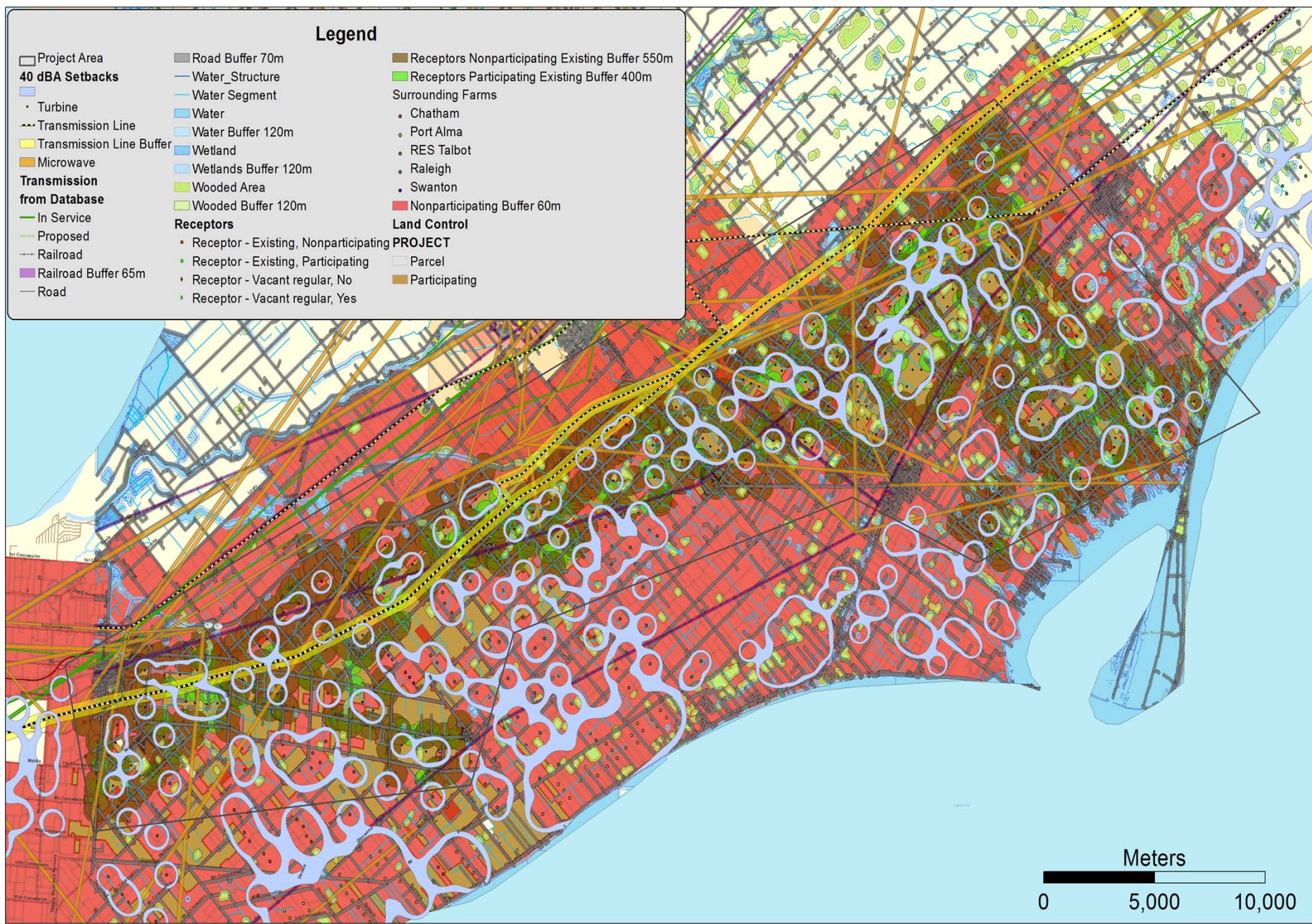


Renewable Energy Approval Next Steps



- On July 26, all reports will be available for public, Aboriginal and municipal consultation: www.southkentwind.ca
- Final public meeting to be held at the end of September
 - Formal notification will be sent to all property owners
 - Published in Chatham Daily News, Ridgeway Independent News, Blenheim News Tribune, and Tilbury Times
- Comments on the Project will be received until the final public meeting and included in the Consultation Report
- September is target for submitting the REA application to the Ministry of the Environment (MOE)
- Stage 3 and 4 Archaeological Assessments will be completed prior to construction







Community, Economic and Environmental Benefits



Benefits of Wind Energy

Wind Energy...

- ✓ Is an inexhaustible resource,
- ✓ Reduces reliance on imported fuel,
- ✓ Benefits the environment and helps fight climate change,
- ✓ Is compatible with mixed land use: grazing, agriculture, and hunting,
- ✓ Creates job opportunities in local areas,
- ✓ Provides a steady income to farmers and property-owners,
- ✓ Strengthens the local tax base, helping to improve town services, including schools, police and fire departments,
- ✓ Provides more direct economic impacts than new fossil fuel plants,
- ✓ Produces energy with stable production costs, offering a hedge against other energy sources with volatile fuel markets.



Economic Benefits from 270 MW Wind Project

- Supports local economy by:
 - Purchasing goods and services and significantly increasing revenue for service businesses.
 - Creating direct job opportunities with up to 300 during construction and up to 20 positions during operations.
 - Increasing business for construction subcontractors that employ local workers.
- Significantly contributes to tax base annually with estimated \$800,000 benefiting:
 - Municipality of Chatham-Kent
 - Lambton-Kent School District
- Community commitments for the life of the project



Environmental Benefits of 270 MW Wind Energy Compared to Coal-Fired Generation

Carbon Dioxide Emissions Reduced

877,077 tonnes/year
157,172 car equivalent



Sulfur Dioxide

3,940 tonnes/year

Nitrogen Oxides

1,331 tonnes/year

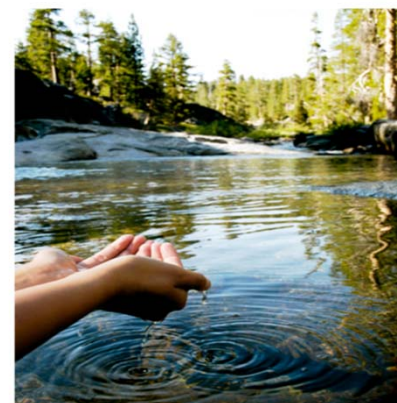


Water Conserved

1,840,610,359 liters/year

5,042,768 liters/day

56,031 people each day



Sources: Based on information from the Energy Information Administration, National Energy Technology Laboratory, and U.S. Geological Survey. Annual emission offsets based on 270 MW wind project offsetting coal-fired generation, using capacity factor for Chatham-Kent area and accounting for regular turbine maintenance. Water conserved compared to coal-fired generation (541 gallon/MWh), source American Wind Energy Association. People supplied figure based on USGS estimation of 80-100 gallons/day per capita water consumption, US Geological Survey, "Water Q&A: Water use at home," <http://ga.water.usgs.gov/edu/qahome.html>.



Blowing Smoke: Correcting Ontario Anti-Wind Myths

- **Myth 1: Health impacts**
- Reality: Repeated studies around the world have found no scientific evidence of health impacts from wind power projects.
- **Myth 2: Viability**
- Reality: Wind power has been successfully used for decades and the world is rapidly scaling up its use because it works, particularly in light of climate change.
- **Myth 3: Economic & Environmental Benefits**
- Reality: Wind power is creating thousands of jobs across Ontario and letting us reduce the use of harmful fossil fuels.



June 2011 report by
Environmental Defense and the
Ontario Sustainable Energy
Association



Sierra Club: The Real Truth About Wind Energy

- “After a thorough review of the science, we are confident in saying there is no evidence of significant health effects that should prevent the further development and implementation of wind turbines, wind farms and wind energy.”
- “The further development of wind energy as a growing portion of our energy supply will reduce direct carbon emissions, improve the quality of the air we breathe, and generally improve the health and well-being of Canadians, our families and the environment in which we live.”
- “With a full review of available data, including that referenced by wind opposition groups, Sierra Club Canada adds its voice to the overwhelming majority of governmental, non-governmental, scientific and environmental groups in saying that a link between wind turbines and health concerns is unfounded.”



June 2011 report by the
Sierra Club Canada



South Kent Wind Energy for Generations



Appendix F

Correspondence with Agencies

Agency Correspondence – MNR

Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:02 AM
To: Vukovics, Kathleen
Subject: FW: South Kent - Records Review Report
Attachments: 2010-11-08 South Kent WF - RR Comment Table .doc

From: Riddell, Heather (MNR) [<mailto:Heather.Riddell@ontario.ca>]
Sent: Monday, November 08, 2010 5:00 PM
To: Arnold, Kimberley
Cc: Kim Sachtleben; Colin Edwards; Keith Knudsen; Marnie Dawson; B Edwards; Wherry, Kathryn; aryckman@nrsl.on.ca; Christy Humphrey; Kevin Dance; Male, Sean; 335936; Simpson, Holly (MNR)
Subject: RE: South Kent - Records Review Report

Hi Kim,

Attached please find a table that outlines the MNR's comments on the records review report provided on November 2, 2010. Please consider incorporating these suggestions within the second draft of the report and identify how our suggestions have been incorporated within the fourth column of the table.

Please contact me if you have any questions.

Thanks,
Heather

Heather Riddell
A/ Planning Ecologist
MNR, Aylmer District
(519) 773-4723

From: Arnold, Kimberley [<mailto:KArnold@HatchEnergy.com>]
Sent: November 2, 2010 2:35 PM
To: Riddell, Heather (MNR)
Cc: Kim Sachtleben; Colin Edwards; Keith Knudsen; Marnie Dawson; B Edwards; Wherry, Kathryn; aryckman@nrsl.on.ca; Christy Humphrey; Kevin Dance; Male, Sean; 335936
Subject: RE: South Kent - Records Review Report

Hello Heather,

Attached is the pdf version of the Natural Heritage Records Review Report which includes all of the appendices. Since it is 8MB please confirm that you have received this email and attachment.

Thanks, Kim.

Kimberley Arnold, B.Sc., M.E.S.
Manager - Environmental Services, Renewable Power
Hatch
Phone: 905.374.0701 Ext. 5318
Email: karnold@hatch.ca



Please consider the environment before printing my e-mail

From: Arnold, Kimberley
Sent: November 1, 2010 10:17 PM
To: Riddell, Heather (MNR)
Cc: Kim Sachtleben; Colin Edwards; Keith Knudsen; Marnie Dawson; B Edwards; Wherry, Kathryn; aryckman@nrsl.on.ca; Christy Humphrey; Kevin Dance; Male, Sean; 335936
Subject: South Kent - Records Review Report

Hello Heather,

As discussed, please find attached the Natural Heritage Records Review Report for the South Kent Wind Project. This version is in Microsoft Word as the pdf version would have been too large to send via email. Also attached is Figure 1.

If you have any questions, please do not hesitate to contact me.

Looking forward to meeting with you on Wednesday. If you would like me to bring some paper copies of the Report or a pdf version on a disc, please let me know.

Thanks, Kim.

Kimberley Arnold, B.Sc., M.E.S.
*Manager - Environmental Services, Renewable Power
Hatch
4342 Queen Street
Suite 500
Niagara Falls, Ontario, Canada
L2E 7J7
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Natural Heritage Assessment Tracking Changes Table

Samsung-Pattern South Kent Wind Farm: Records Review Report (first draft)

Prepared by NRSI (for Hatch Ltd)

Received by the MNR: November 2, 2010

*** Please consider making these revisions to the sections and figures identified and fill out the final column with a description of how MNR's comments/suggestions have been incorporated.

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
Figure 1	3	This map is too broad scale for comprehension.	Suggest using current map as a reference and adding a series of more detailed maps at a more "meaningful scale" such as - 1:50,000 or 10km x 10 km square grid	
2.0 REA requirements	4	Section 25 NHA – records review list of records to be searched and analysed	Add – provincial parks and conservation reserves.	
3.0	5	"The Aylmer District MNR office was asked, through an email dated October 5, 2010, to provide any information pertaining to natural features within, or adjacent to, the South Kent Wind Project Area. As of November 1, 2010, no reply was received."	On November 1, 2010, Catherine Jong of the Aylmer District office provided a response to the request made on October 5, 2010. Please consider updating this statement and the information accordingly.	
3.2	6	"Two (2) Provincially Significant Wetlands (PSW) have been identified slightly beyond this 120 m consultation zone "	Please provide a definition of the term "consultation zone" and/or consider using the term "setback" or "natural feature setback".	

Natural Heritage Assessment Tracking Changes Table

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
3.2 Wetlands	7	"Several non-provincially significant wetland habitats and/or unevaluated wetlands are found in the general vicinity of the South Kent Wind Project area"	Please avoid referring to wetlands as "non-provincially significant wetland". When referring to wetland statuses, please identify them as one of the following: unevaluated, locally significant or provincially significant. Please specify.	
3.3	7	"No specific information on valleylands is available through the MNR or associated databases".	The conservation authority (LTVCA) is the most appropriate reference for Valleyland mapping/data.	
3.4	7	"Available basemapping has identified the presence of wintering deer areas within 120 m of turbine no. P103".	Please provide more information on the source of information that identified the deer wintering area. Generally deer in this area don't tend to "yard up" like they do in more northern climes with deeper snow conditions.	
3.4 Wildlife Habitat	7	This section of the report currently lacks certain detail that is possible to discuss at the records review stage. Appendix 1 could is currently not referenced in this section.	Recommend including discussion of 'candidate' significant wildlife habitat (SWH) as they relate to natural features identified through LIO mapping, such as: - hedgerows as corridors	

Natural Heritage Assessment Tracking Changes Table

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
			<ul style="list-style-type: none"> - rare vegetation community search - NHIC search for S1-S3, Special Concern Species (habitat is SWH) 	
3.6 Significant Species	7-8	Entire section.	<p>This section entitled "Significant Species" is currently a combination of natural heritage issues that are covered under both O. Reg. 359/09 and ESA 2007. Please report on both separately and avoid using the term "significant species" within the records review report.</p> <p>There are:</p> <ul style="list-style-type: none"> - Species of Conservation Concern (i.e. S1-S3 and SC) whose habitat must be considered as part of the NHA (habitat of species of conservation concern is considered SWH as per the SWHTG) - Endangered & Threatened species (SARO-listed) must be considered, but separately from the NHA (outside of O.Reg. 	

Natural Heritage Assessment Tracking Changes Table

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
			359/09 but require consideration as per the Approvals and Permitting Requirements Document). It is appropriate to list SARO-listed species here and direct reviewers to a separate report/appendix to the NHA where ESA concerns are addressed.	
6.0	13	"These resources include the Ontario Breeding Bird Atlas (OBBA), Bird Studies Canada mapping... "	Please provide more detail on the mapping obtained from Bird Studies Canada.	
6.2	13	"A review of Important Bird Areas (IBA) in the region of the province has revealed that the South Kent Wind Project overlaps with the Greater Rondeau Bay IBA (ON007)".	This could likely be included a record of Significant Wildlife Habitat within 120 m of the project location.	
7.0	15-23	This section currently considers Endangered, Threatened and Special Concern species and briefly mentions S1-S3 species.	Endangered and Threatened species can be mentioned as part of the records review; however, they should be dealt with under a separate cover. Suggested wording could include: "The following SAR species occurrences	

Natural Heritage Assessment Tracking Changes Table

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
			<p>were identified within the project area; however, they will be discussed in more detail under a separate cover/report".</p> <p>S1-S3 species and Special Concern species can be discussed as part of the NHA, as their habitat is considered Significant Wildlife Habitat (SWH).</p>	
7.1 Birds	16	"Bald Eagles..."	Please consider contacting Jody Allair with BSC as he likely possesses information on known BAEA nests in the area.	
7.1 Birds	18	"... species considered provincially rare based on their provincial S-Rank and or..."	Information on these species are particularly relevant to the NHA. Please elaborate.	
8.0 Existing Studies	24-71	Summarizes the methods and results of thirteen other ESR's.	<p>This information is valuable as part of the NHA, only if it answers the following questions:</p> <ul style="list-style-type: none"> - How does this information relate to the NHA requirements of O.Reg. 359/09? 	

Natural Heritage Assessment Tracking Changes Table

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
			<ul style="list-style-type: none"> - What information supports or indicates the presence of a natural feature (wildlife habitat) within 120 m of the project location? <p>If it does not link specifically to those questions, then this level of detail may not be necessary as part of the NHA.</p> <p>Please specify the (potential) natural feature and its proximity to proposed project activity.</p> <p>It is not clear if the previous study locations/proposals are meaningful units for providing the details needed to meet the NHA requirements. We suggest breaking the South Kent WP proposal up into numbered (e.g. 1-6) grid squares (e.g. 1:50,000) that are used consistently throughout</p>	

Natural Heritage Assessment Tracking Changes Table

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
			<p>the NHA document.</p> <p>Discussion within the records review should clearly link to the results of the site investigation and evaluation of significance; therefore, numbered grids might be a more appropriate way of organizing this information.</p>	
8.1.1 Spring Migration	26	Description of methods, purpose and coarse summary of results.	Describe how monitoring relates to wildlife habitat. Unfortunately, there are no criteria for bird migration corridors. Are surveys able to provide evidence of stopover/staging areas? Are there supplemental occurrence records which can be added to the species lists generated from NHIC/OBBA, etc?	
Breeding Birds	27	Description of methods, purpose and coarse summary of results.	Where were they conducted? Within 120m of project location, or in similar habitat type(s)? Can this information relate to identification of SWH or why is it included in Records Review?	

Natural Heritage Assessment Tracking Changes Table

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
Winter Bird Surveys	28	Description of methods, purpose and coarse summary of results.	How can this information relate to identification of a natural feature (i.e. woodland, wetland, wildlife habitat) within 120m from project location?	
9.0 Summary of Records Review	72	Table	Great summary Table!	
Table 17	72	<p>The South Kent Wind Project crosses several linear features, some of which have connectivity to woodland habitat; however, it is unknown whether these linear features are natural or anthropogenic without further site investigation.</p> <p>No project components are proposed within a natural feature.</p>	Great acknowledgement of hedgerows as potential natural features – remember the form (i.e. natural vs. anthropogenic) is not as important as the function for wildlife – especially in C-K which is a highly disturbed landscape.	
Table 17	72	e) Southern Wetland - No project components are proposed within 120m of known southern wetlands.	This may contradict the wording in section 3.2. Seeking clarification.	

Natural Heritage Assessment Tracking Changes Table

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
Table 17	72	g) Wildlife Habitat	Include Globally Important Bird Area as wildlife habitat within project location. Also appropriate to include hedgerows as possible movement corridors here.	

Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:04 AM
To: Vukovics, Kathleen
Subject: FW: South Kent Wind Project - Site Investigation Report

From: Riddell, Heather (MNR) [mailto:Heather.Riddell@ontario.ca]
Sent: Wednesday, December 08, 2010 5:15 PM
To: Wherry, Kathryn
Cc: Kim Sachtleben; Colin Edwards; Keith Knudsen; Marnie Dawson; Brian Edwards; Arnold, Kimberley; 335936; Simpson, Holly (MNR)
Subject: RE: South Kent Wind Project - Site Investigation Report

Hi Kathryn,

We hope to have detailed comments on your records review report to you very soon. In the meantime, we thought it best to provide general comments regarding the site investigation report. Based on these general comments, we would like you to revise and re-submit your site investigation report for our review.

The South Kent project is large and spread out over a broad territory. Although it seems logical when dealing with such a large scale project to take a “landscape approach”, the REA requirements clearly specify that a physical investigation within 120 m of the *project location* is required. This is a very important concept to keep in mind when organizing your report because:

- a) it needs to be completed for all project components, regardless of proximity to *natural features*
- b) the type, attributes, composition and function of the feature(s) are important in their relation/potential to be impacted by a particular project component

Therefore, to expedite the review of your report, please avoid duplication and describe the results of your site investigation, component by component. In the case of the turbines, it seems logical to lump together the associated infrastructure (i.e. access roads and cabling). If there are project components that are not within 120 m of any *natural feature*, please identify them (in a summary table?) and provide reference to the “zoomed in” figure.

The purpose of the site investigation is to identify, describe and map the boundaries of *natural features* located within 120 m of the *project location*. In your report you refer to “Other Habitats”, but this is not a type of *natural feature*. I believe you are actually referring to Wildlife Habitat. When you map and describe these wildlife habitats, keep in mind the specific categories and criteria provided in the Significant Wildlife Habitat Technical Guide. Although it is not required at this stage to evaluate the significance of these habitats, it may be useful in your description and our review of your efforts.

If you have any questions, please feel free to contact me or Holly Simpson at 519-354-8210.

Thanks,
Heather

From: Wherry, Kathryn [mailto:KWerry@hatch.ca]
Sent: November 26, 2010 2:38 PM
To: Riddell, Heather (MNR)

Cc: Kim Sachtleben; Colin Edwards; Keith Knudsen; Marnie Dawson; Brian Edwards; Arnold, Kimberley; 335936

Subject: South Kent Wind Project - Site Investigation Report

Hi Heather,

The Site Investigation Report is 95 MB in total so it has been uploaded to the NRSI ftp site for you to download as two files:

- South Kent NH Site Investigation Report (13 MB) which includes tables and figures; and
- South Kent NH Site Investigation Report Appendices (82MB).

The instructions for the ftp site are as follows:

The following is the link to NRSI's ftp site to access the main body and appendices to the report.

Please enter in the user name and password below

<http://basswood.nrsi.on.ca:8080/index.php> or this one if the first does not work

<http://basswood.nrsi.on.ca/epiware/index.php>

Username - South Kent

Password - kent2

Click on "Library" tab and you should see the "South Kent" folder on the left-hand side. Click this folder to see its contents appear to the right. You can download the files by right clicking and selecting download.

Please do not hesitate to contact me, if you have any problems with downloading or have any questions.

Cheers,

Kathryn

Kathryn Wherry B.E.S.

Senior Environmental Specialist - Environmental Services Group

Hatch

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Niagara Falls, Ontario Canada L2E 7J7

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Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:04 AM
To: Vukovics, Kathleen
Subject: FW: Comments on South Kent Records Review (second draft)
Attachments: 2010-12-20 South Kent WF - RR Comment Table .doc

From: Riddell, Heather (MNR) [<mailto:Heather.Riddell@ontario.ca>]
Sent: Monday, December 20, 2010 4:02 PM
To: Arnold, Kimberley; Wherry, Kathryn
Cc: Simpson, Holly (MNR)
Subject: Comments on South Kent Records Review (second draft)

Hi Kim,

Attached please find the MNR's comments on the Records Review report for Samsung and Pattern Energy's South Kent Wind Project (second draft), which was submitted to the MNR on November 15, 2010.

Here is a summary of our general comments:

- We request that the terminology is revised to stay consistent with the terminology defined within Regulation 359/09 and as such,
 - o Replace "natural heritage features" with "natural features"
 - o Replace "project area" with "project location", where appropriate
 - o Replace "proposed development activities" with "project location"
 - o Refrain from use of the term "significant species"
- All information/discussion pertaining to Threatened and Endangered Species must be removed from the report and placed within a separate report
- Ensure that the bird and bat monitoring data relates to the identification of a natural feature (i.e. southern wetlands, wildlife habitat, woodland, etc.)

If you have any questions, please contact me.

Regards,
Heather

Heather Riddell

A/ Planning Ecologist, Renewable Energy
Ministry of Natural Resources
Aylmer District
615 John Street N
Aylmer, ON N5H 2S8

(p) 519-773-4723

(f) 519-773-9014

Email: heather.riddell@ontario.ca

Natural Heritage Assessment Tracking Changes Table

Samsung-Pattern South Kent Wind Farm: Records Review Report (second draft)

Prepared by NRSI (for Hatch Ltd)

Received by the MNR: November 15, 2010

***** Please consider making these revisions to the sections and figures identified and fill out the final column with a description of how MNR's comments/suggestions have been incorporated.**

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
1.0 Introduction	1	<p>Project location vs. Project area</p> <p><i>"The project location (or project area), as defined by the REA regulations includes all areas within 120m of proposed development activities."</i></p>	<p>Terminology throughout the report needs to be consistent with terminology within O. Reg. 359/09. For instance, it is necessary to refer to the project layout within the report as "Project Location", as opposed to "Project Area" or "Project Site". Please note that the definition of "Project Location" within the Reg., it does not include all areas within 120 m of the proposed development areas.</p> <p>As such, this statement needs to be revised, as well as all other statements within the report that make reference to the layout as a "Project Area".</p> <p>One instance where the term "Project Area" may be appropriate to use is when addressing the following; however, if that is the intent of the use of the term "Project Area", then a clear definition of the term must be provided.</p> <p>MNR encourages applicants to consider collecting and searching records for an area wider than the 120 m required by regulation to</p>	

Natural Heritage Assessment Tracking Changes Table

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			accommodate any potential changes to project design or layout that may occur later in the project planning stages. This broader approach will reduce the potential for delays resulting from the need to undertake a second records review for a potentially larger or altered area, should the project layout change. Expanding the records review area also has relevance for wildlife habitat, which can include habitat components (e.g. bat hibernacula, bald eagle nest), which appear as points on a map. These habitats may be further than 120 metres from the project location, but will often have associated candidate or confirmed significant wildlife habitat (see Appendix D of SWHTG for a glossary of terms) which extends well beyond the point location itself. During the records review, applicants should identify habitat components and any associated candidate or confirmed significant wildlife habitat that may extend to or within 120 metres of the project location.	
1.0	1	<i>"...to conduct a records review in accordance with the Renewable Energy Approval (REA) regulations for a proposed..."</i>	Here and at various locations throughout the report, the Reg is referred to as "regulations". Please note that this project requires a NHA under Regulation 359/09, which is one regulation (i.e. not multiple regulations as implied). Please revise accordingly.	
3.0 MNR	7	<i>"This information included records of bald eagle nests (<i>Haliaeetus leucocephala</i>), fisheries, and designated natural areas. Additional information pertaining to natural areas was provided by the Aylmer District</i>	<i>"Additional information pertaining to an ANSI (life science) located within 120 m of project location... [arguably not pers. Comm. but rather]... according to the Inventory Report (OMNR, 1988)."</i>	

Natural Heritage Assessment Tracking Changes Table

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
		<i>MNR office in emails dated November 9, 2010 (H. Simpson 2010, pers. comm.)."</i>		
3.1	8	<i>"Several Species at Risk and floral species of conservation concern..."</i>	<p>The information required by the MNR outside of O. Reg. 359/09 must be provided and discussed within a separate APRD report. For the purpose of the MNR's confirmation required under Section 28 of the Reg., the NHA must only provide information required under Sections 25-27 of the Reg. As such, we request that any reference to species at risk (Endangered and Threatened) is removed from the NHA report; however, Special Concern species should be discussed within report.</p> <p>It would be useful to provide a disclaimer within the introduction of this report, that the NHA report will not discuss Species at Risk. Information pertaining to Threatened or Endangered species will be submitted to the MNR within a separate report.</p>	
3.1	8	<i>"The access road turbine P140 is proposed immediately adjacent to the north end of this natural feature, without overlapping this community."</i>	It would be useful to also provide a reference to the figure that illustrates the location of this feature.	
3.2 Wetlands	9	<i>"Several unevaluated wetlands are found in the general vicinity of the South Kent Wind Project area. Available basemapping indicate that these natural features are at least 160 m from any proposed development"</i>	The MNR Aylmer District office does not recognize the term "Non-Provincially Significant Wetland". In Aylmer District, a wetland is one of the following: "Unevaluated Wetland", "Provincially Significant Wetland", "Locally	

Natural Heritage Assessment Tracking Changes Table

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
		<i>activity, with the closest non-provincially significant wetland located approximately 160 m from the proposed access road to turbine no. P137."</i>	<p>Significant Wetland" or "Other Wetland". Please verify what is meant as "non-provincially significant wetland", as the previous statement implies that it is an "unevaluated wetland".</p> <p>In our data layers and on NHIC, wetlands that did not score as a PSW based on OWES criteria, are referred to as "Other Wetlands", which is a term that comes from the OWES 3rd edition Southern manual (in Appendix B, Page 177). The term "Locally Significant Wetland" is intended to be applied to evaluated wetlands by those municipalities that want to protect all of the evaluated wetlands. The OWES manual provides direction on applying the term; three aspects are to be considered: 1. groundwater discharge, 2. social value, 3. aboriginal value / cultural heritage. High scores in any of these aspects indicate a wetland that should be considered as locally significant in municipal planning.</p> <p>Please avoid use of the term "Non-Provincially Significant Wetland" and revise the report accordingly.</p>	
3.3	9	<i>"No specific information on valleylands is available through the MNR or associated databases."</i>	<p>The conservation authority is the most useful source to obtain information on valleylands. Please verify if the CA was contacted for records on valleylands. Further to that, another option is to refer to the CA's mapping of hazard lands as a reference at the records review stage to identify potential valleylands within 120 m of the project location.</p>	

Natural Heritage Assessment Tracking Changes Table

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
3.4	10	<i>“Development activities are not proposed to occur between known bald eagle nests and potential foraging habitats of Lake Erie.”</i>	<i>“Development activities are not proposed to occur between known bald eagle nests and potential foraging habitats of Lake Erie, based on the records review. Site investigation will further verify the presence/absence of bald eagle nests within 120 m of the project location.”</i>	
3.4	10	<i>“Available basemapping for the South Kent Wind Project has identified several linear features, including both hedgerows and drainage corridors, within the project area.”</i>	As stated previously, the terms “project location” and “project area” are not synonymous and as such, this sentence as well as others referring to the layout as a “project area” must be revised for clarity.	
3.5	11	<i>“Species associations within these features should be confirmed during the site investigation phase of this project.”</i>	Most importantly, wildlife habitat potential should be assessed within these woodlands during the site investigation.	
3.7	12	Entire section – Species at Risk	All information pertaining to Threatened and Endangered species must be removed from the NHA and placed within a separate report. As such, we request that the first paragraph is removed from the report and placed within the separate APRD document. The second paragraph could be more appropriately placed within the Introduction to clarify for all other reading it that E and T species were considered for this project; however, not discussed within this report.	
5.1	14	General comment (Example): <i>“One (1) significant woodland has been identified within 120 m of the proposed development activities.”</i>	In keeping with the terminology within the Regulation, we require that the term “proposed development activities” is changed to “ project location ” for clarity and consistency <u>throughout the report.</u>	

Natural Heritage Assessment Tracking Changes Table

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
5.6 Municipal Summary	16	<i>"A full review of the municipal mapping for all five (5) Townships overlapping the project area has revealed up to 24 significant woodlands are present within 120 m of proposed development activities of the South Kent Wind Project area."</i>	<i>"...has identified 24 significant woodlands..."</i> Section 3.5 (pg. 11) indicates that there are approximately 36 woodlots within 120m of project location, ranging in size from 2ha-54ha. Therefore there may be up to 36 significant woodlands located within 120 m of the project location. Please clarify.	
6.3 Ontario Herpetofaunal Atlas	18	Reference to Ontario Herpetofaunal Summary Atlas <i>"... including several SAR were identified whose ranges potentially overlapped with the project site, including eastern spiny softshell (<i>Apalone spinifera spinifera</i>), eastern foxsnake, and eastern milksnake (<i>Lampropeltis triangulum triangulum</i>)."</i>	FYI this resource is being updated and is available on-line http://www.ontarionature.org/protect/species/herpetofaunal_atlas.php As stated previously, information regarding Endangered or Threatened species must be removed from the records review report and placed within a separate report.	
6.4	18	<i>"None of these species are considered to be SAR under the federal Species At Risk Act (SARA) or the Ontario Endangered Species Act (ESA)."</i>	As stated, information like this (species/habitat protected under the ESA 2007, present or not) should be discussed within a separate report.	
7.0 Species of Conservation concern and SAR	19-26	Revised section discusses SC, S1-S3 species and E&T species separately. <i>"As identified above, several species of conservation concern and SAR may potentially occur within or adjacent to the project area. Although these species are combined for the purposes of this section, Species At Risk (provincially Threatened or</i>	Any information pertaining to Endangered or Threatened species must be removed from the NHA report. Discussion pertaining to species of conservation concern (SC, S1-S3 species) is only relevant if related to an assessment for potential/candidate SWH within 120 m of the project location. As such, this information	

Natural Heritage Assessment Tracking Changes Table

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
		<i>Endangered) will be addressed in more detail in an Approval and Permitting Requirements Document to address the Endangered Species Act (2007)."</i>	would more appropriately be placed within the wildlife habitat section of the report.	
8 Existing Studies	27-76	Summaries of pre-construction bird and bat monitoring of former wind applications under previous EA process.	<p>It may be appropriate to list the SC, S1-S3 species identified during these studies, or any other relevant natural features uncovered during these studies; however, it is not appropriate to place a summary of the results of each survey within this section. If the information gathered during these previous studies can be related to the site investigation or evaluation of significance, it would be better placed within those sections. If the information does not relate to the confirmation of a natural feature (i.e. a southern wetland, a wildlife habitat, a woodland, etc.) then it is not relevant to the NHA and should be removed from the report.</p> <p>As for bats, please clarify how surveys undertaken during the swarming/migration period reveal anything about the location of bat maternal roosts/colonies. Please note MNR's procedures for surveying bat maternity colonies (Bat and Bat Habitats Guidelines for Wind Power Projects) specify survey period of June 1st to June 30th. If relying on information collected during the swarming period, please clarify how that relates to the identification of maternal colonies. If the information does not relate, then it should be removed from the</p>	

Natural Heritage Assessment Tracking Changes Table

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
			report.	
			<p>If including information from previous studies within the site investigation, be sure to include:</p> <ul style="list-style-type: none"> ▪ information relating to each natural feature identified in the records review or in the site investigation, including: <ul style="list-style-type: none"> - type (e.g. woodland) - significance (if known) - attributes - composition - function; ▪ dates and times of the beginning and completion of the site investigation; ▪ duration of the site investigation; ▪ weather conditions during the site investigation; ▪ summary of methods (including locations of monitoring stations) used to make observations during the site investigation; ▪ names and qualifications of any person conducting site investigation (if known); and ▪ field notes kept by the persons conducting site investigation (or reference to original study report in this case) 	
Figures 1, 2 and 3		Title "Project Area and Natural Features	The title should be revised to "Project Location" and the red dashed line called "Project Area" should be changed to 120 m setback/ 120 m study area.	

Natural Heritage Assessment Tracking Changes Table

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
8.0 Species at Risk Sections (8.1.3, 8.2.3, 8.3.3, etc.)	34-73	These sections currently contain discussion about Endangered and Threatened species	As stated previously, all information pertaining to Endangered or Threatened species must be removed from the NHA report and placed within a separate report.	

Jan 19, 2011.txt

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:05 AM
To: Vukovics, Kathleen
Subject: FW: South Kent Site Investigation Report - MNR Comments
Attachments: 2011-01-19 South Kent SI - MNR Comment Table.doc; Template - Assessing SWH.doc

-----Original Message-----

From: Riddell, Heather (MNR) [mailto:Heather.Riddell@ontario.ca]
Sent: Wednesday, January 19, 2011 9:06 AM
To: Arnold, Kimberley
Cc: Simpson, Holly (MNR); Dixon, Rebecca (MNR);
kim.sachtleben@patternenergy.com; Wherry, Kathryn;
m.dawson@samsungrenewableenergy.ca; b.edwards@samsungrenewableenergy.ca;
Andrew Ryckman; Keith Knudsen
Subject: South Kent Site Investigation Report - MNR Comments

Hi Kim,

Attached please find the MNR's comments on the Site Investigation Report for the South Kent Wind Farm, which was submitted in December 2010.

In addition to the attached detailed comments, we provide the following general comments on the report.

General Comments:

1. Please ensure that throughout the document the term "project location" is used as opposed to "project area", "project site", etc.
2. In several places throughout the report, beginning with P001 where it is stated that "Mapping indicates the access road and underground cabling will run within this woodland, along its eastern edge. It is anticipated that micrositings will locate these components adjacent to the woodlot edge within the corn field." Where statements like this are made, it should be clarified and confirmed within the final report if in fact those features will be avoided, i.e. vegetation will not be removed, if that is the case. If it isn't the case, then that should be clarified as well and further considered within the EIS (if Evaluation of Significance confirms the feature to be significant). This includes the discussion about the Life Science ANSI on Page 107-108 in association with turbine P140.
3. Throughout the report it is stated "This proposed development activity is found within 120 m of candidate significant wildlife habitat and will be examined in more detail during the evaluation of significance phase of this project." It is the MNR's expectation that the Site Investigation discuss the type and location of the Candidate SWH located within 120 m of the project location, if it was identified during the Site Investigation. Without that detail, we can only assume what Candidate habitat might be there, i.e. animal movement corridor, bat maternity roost (due to presence of snags in woodlands) and woodlands supporting amphibian breeding ponds due to the presence of vernal pools within the woodland. Please see the attached table, which provides a list of the types of SWH that should be assessed within 120 m of the project location and identify how those features were considered during

Jan 19, 2011.txt

site investigation, by discussing the size and area of the habitat that may be present and that will later be discussed and confirmed within the Evaluation of Significance report. We recommend using this table as a guide for demonstrating the assessment of SWH - feel free to use it in the report, or instead apply it when discussing SWH in proximity to project components. Also, in addition to woodlands, the locations of Candidate SWH must be mapped within the Site Investigation report as per Section 26 of the Regulation (wildlife habitat is identified as a "natural feature" that requires mapping).

If you have any questions or would like to arrange a call to discuss our comments, please contact me.

Regards,

Heather Riddell
A/Planning Ecologist
MNR, Aylmer District
519-773-4723

Table for Assessing Candidate SWH during **Site Investigation** and for Confirming SWH during **Evaluation of Significance**

Assessment of Seasonal Concentration Areas

Habitat	Summary of Characteristics of the SWH Type from SWH Criteria Schedule for Ecoregion 7E	Location ID where Site Investigation Results (ELC, surveys, etc.) Match SWH Criteria	Map to View Location ID	Assessment of Habitats, Species Presence and Potential to Meet SWH Criteria (areas and sizes of habitat/#s of individuals of species or diversity)	Potential/Confirmed SWH within 120 m of the project location
Waterfowl Stopover Areas (Terrestrial)	<ul style="list-style-type: none">• CUM1 or CUT1 with sheet water from mid-March to May.• Aggregations of >100 individuals of listed species.• Agricultural fields not considered SWH unless utilized by Tundra Swan.				
Waterfowl Stopover and Staging Areas (Aquatic)	<ul style="list-style-type: none">• MAM, SAS, SAM SAF, SWD ELC Codes present• Aquatic habitat with invertebrates and vegetation (food supply)• Aggregations of 100 or more of listed individuals, or extended use of the habitat				
Colonial Nesting Bird Breeding Habitat (Bank & Cliff Swallow)	<ul style="list-style-type: none">• Eroding banks, sandy hills, pits, steep slopes, rock faces, etc.• Does not include man-made structures or active Mineral Aggregate operation.• One ore more nesting sites or >8 Cliff or >100 Bank Swallows observed during breeding season.				

Shorebird Migratory Stopover Areas	<ul style="list-style-type: none">• Shorelines of lakes and rivers.• 3 or more listed species and >1000 Shorebird Use Days during spring or fall migration period.				
Songbird Migratory Stopover Areas	<ul style="list-style-type: none">• Woodlands >5 ha in size and within 5km of Lake Erie.• Use of woodland by 35 migratory bird species (considered above average).				
Raptor Wintering Areas	<ul style="list-style-type: none">• Combination of fields and woodlands that provide roosting, foraging and resting habitat for wintering raptors.• Sites greater than 20 ha with a combination of forests and upland.• Various species thresholds including 10 or more individuals of 2 or more listed species or 1 or more Short-eared Owls.				
Bat Hibernacula (Winter Roost & Maternal Colonies)	<ul style="list-style-type: none">• Roosts or Maternal Colonies have confirmed use by certain thresholds of bat species.• Maternal colonies potentially occur in tree cavities, vegetation, and often buildings (buildings not considered SWH).				

Butterfly Migratory Route/Stopover Areas	<ul style="list-style-type: none">• Rare habitats located within 5km of Lake Erie.• >10 ha in size with a combination of field and forest, and provide a location for butterflies to rest prior to migration.				
Snake Hibernaculum	<ul style="list-style-type: none">• Congregations of 5 or more individuals or 2 or more species near potential hibernacula.• Sites below frost line in burrows, rock crevices, old wells, rock and log piles, old building foundations, ground hog and crayfish burrows, etc.				
Colonial-Nesting Bird Breeding Habitat (Tree/Shrub)	<ul style="list-style-type: none">• Presence of 1 or more active nests of any listed species.				
Colonial-Nesting Bird Breeding Habitat (Ground)	<ul style="list-style-type: none">• Presence of >100 nests Herring Gulls and >75 nests Caspian or Common Terns.• Any nesting colony of 1 or more Little Gull or Great Black-backed Gull.				
Deer Wintering Areas	<ul style="list-style-type: none">• Canopy cover of 60% or more conifer species				
Amphibian Breeding Habitat (woodland)	<ul style="list-style-type: none">• Presence of a wetland, lake or pond within or within 120 metres of woodland.• Wetlands breeding pools may be permanent, seasonal, ephemeral, large or small in size, located within or adjacent to				

	woodland. <ul style="list-style-type: none">• One or more listed species with at least 20 individuals.				
Amphibian Breeding Habitat (Wetland)	<ul style="list-style-type: none">• Wetlands and pools supporting high species diversity.• Presence of breeding population of 2 or more of the listed species with at least 20 individuals.				

Assessment of Rare Vegetation Communities

List any rare vegetation communities that may have been found within 120 m of the project location (outlined in Appendix M of SWHTG)					

Assessment of Specialized Wildlife Habitat

Waterfowl Nesting Areas	Fill in remainder of criteria – refer to SWH Criteria Schedules				
Osprey Nesting, Foraging and Perching Habitat					
Woodland Raptor Nesting Habitat					
Turtle Nesting and Over-wintering areas					
Seeps and Springs					
Animal Movement Corridors					

Assessment of Habitat of Species of Conservation Concern

Marsh Bird Breeding Habitat					
Area-Sensitive Bird Breeding Habitat					
Open Country Bird Breeding Habitat					
Shrub/Early Successional Bird Breeding Habitat					
Special Concern S1 to S3 Species and Communities					

Natural Heritage Assessment Tracking Changes Table

Samsung-Pattern South Kent Wind Farm: Site Investigation Report (December 2010)

Prepared by NRSI (for Hatch Ltd)

Received by the MNR: November 15, 2010

***** Please consider making these revisions to the sections and figures identified and fill out the final column with a description of how MNR's comments/suggestions have been incorporated.**

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
2.0	5-6	<p><i>"4. the distance from the project location to the boundaries determined under clause (c) (p. 5)</i></p> <p><i>a) the boundaries mentioned in clause 1(c)..."</i></p> <p><i>...</i></p> <p><i>"c) the distance mentioned in 1(d)" (p.6)</i></p>	<p>These sentences are difficult to follow when taken out of the context of the Regulation. We suggest revising it to:</p> <p><i>"The distance from the project location to the boundaries of natural features identified within 120 m."</i></p>	
4.0 Table 1	10-11	<p><i>The proposed project location overlaps with the globally significant Rondeau Bay IBA... P103 and associated infrastructure...</i></p>	<p>When referring to the text in the section that details the results of the site investigation for P103 (and associated infrastructure), there is no mention of the IBA, nor any indication that any surveys were undertaken to assess the local usage as staging/breeding habitat for waterfowl. As per our general comments, it is possible this information was detailed within the Evaluation of Significance, and as such, we request that more detail is provided within the Site Investigation report to provide an assessment/discussion of Candidate SWH within 120 m of P103 and all other project components.</p>	

Natural Heritage Assessment Tracking Changes Table

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
		<i>Wintering deer areas identified within 120m of turbine P103...</i>	Neither this feature, nor the IBA are mapped in the appendix, and have not been referenced in the text.	
5.0	13	<i>"The results of these site investigations will be used to evaluate the potential significance of the natural features within the project area and identify candidate significant habitats that require further review in the evaluation of significance phase of the South Kent project."</i>	We suggest rewording this to: <i>"The results of these site investigations will be used to identify and map the boundaries of natural features within 120m of the project location. Information collected at this stage, may be used to evaluate the significance of features in subsequent reports."</i>	
5.1	13	<i>In order to identify the presence and proximity of natural features (i.e. woodlands, fencerows, drains, and wetlands)</i>	Fencerows and drains are not <i>natural features</i> (as defined by the REA reg). Please ensure that in addition to this statement, it is clarified that you are identifying/mapping drains and hedgerows as potential wildlife habitats/corridors (see p. 28), as opposed to referring to them as <i>natural features</i> .	
5.1	13	<i>In instances where development activities were identified within 120 m of a natural feature, site-specific investigations were completed within these features to collect more detailed vegetation community information, including habitat composition, species association, and landform and ecological functions. Vegetation community classification was conducted using modified Ecological Land Classification (ELC) system...</i>	The Regulation requires a physical site investigation of area within at least 120 m from project location to identify natural features. This statement appears to imply that the site investigation was conducted only where natural features were already identified within 120 m of the project location. Please clarify through a revision to this paragraph or further explanation if the site investigation was conducted within a minimum area of 120 m of the project location. Also, please clarify if the ELC was conducted throughout the project area, or only within the woodlands.	

Natural Heritage Assessment Tracking Changes Table

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
5.1	14	<i>Site-specific vegetation community mapping of the South Kent project was used to further identify natural features, and candidate significant features</i>	'Natural features' and 'candidate significant features' are considered synonymous and as such, please consider revising this statement.	
5	15	<i>Table 2</i>	REA requires information on times and duration of field investigations, if not included in this table, please include in the site-by-site details of the SI report.	
6.0	16	<i>The detailed records review has confirmed that the landscape is dominated by agricultural fields, but also includes occasional candidate significant natural features including an ANSI, several woodlands, and a variety of wildlife habitats.</i>	The ANSI is considered to be 'Provincially significant', not candidate. As well, many of the woodlands were identified as significant during the records review. Please revise accordingly.	
6.1	16	<i>One (1) ANSI is known to be present within the South Kent project area. This natural feature, Sinclair's Bush, was examined by NRSI biologists during the site investigation phase of this project. In addition to being considered a candidate-significant ANSI, this feature is also being considered a candidate significant natural feature for woodland properties and a variety of wildlife habitats...</i>	<i>One (1) ANSI (Life Science) is known to be present within the South Kent project area. This natural feature, Sinclair's Bush, was examined by NRSI biologists during the site investigation phase of this project. In addition to being considered a provincially significant ANSI, this feature is also considered a significant woodland in the Chatham-Kent Official Plan, and may also contain candidate SWH.</i>	
6.2	26	<i>"woodland habitats"</i>	Woodlands should be referred to as "woodlands" as opposed to "woodland habitats" to avoid confusion.	
6.3	26	<i>No wetland habitats were identified by NRSI biologists during the site investigation within the South Kent project area.</i>	<i>No wetlands were identified by NRSI biologists during the site investigation within 120m of the South Kent project location.</i>	

Natural Heritage Assessment Tracking Changes Table

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
6.5	26	Entire Section <i>"The REA regulation requires that a separate report, Approval and Permitting Requirements Document, be prepared to address the requirements of the Endangered Species Act (2007)."</i>	We request that this entire section is removed from the Site Investigation report and suggest that instead you provide an explanation of how/why Endangered and Threatened Species will be addressed within the introduction of this report, beyond the scope of the REA requirements. Also, to clarify: It is not the REA regulation that requires a separate report; instead it is the MNR's Approvals and Permitting Requirements Document that outlines the requirement for additional information to be submitted to the MNR beyond the scope of the natural heritage assessment requirements outlined within the Regulation.	
6.6.3	28	<i>Candidate significant habitats for species of conservation concern, including area sensitive bird habitat, open country bird habitat, and habitat for species with provincial SRanks of S1-S3</i>	SARO listed Special Concern species are also included within this category of SWH investigations. Please revise accordingly.	
7.0	30	<i>Specific information relating to natural features around the turbine locations, access roads and underground cabling, above ground cabling, substations, and transmission corridor...</i>	<i>Specific information relating to natural features within 120m of the project location (i.e. turbine locations, access roads and underground cabling, above ground cabling, substations, transmission corridor, etc.)...</i>	
7.1	30	<i>7.1 Site Investigation Results by Turbine</i>	<i>7.1 Site Investigation Results by Turbine and Associated Infrastructure</i>	

Natural Heritage Assessment Tracking Changes Table

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
7.0	32	Mapping in the Appendix for P003 shows P003-H1 running adjacent to P004; however, the associated text on page 32 states <i>"The fencerow P004-H1 is immediately adjacent to the proposed turbine, and portions of it appear to be proposed for removal for installation of the turbine construction area."</i>	Please revisit the text and mapping to ensure that the component being discussed is appropriately mapped.	
7.1	32-33	P005	The mapping shows a drain in P005-H1; however, there is no mention of it in text. Please confirm if site investigation confirmed that the drain was not there, i.e. tiled over, etc.	
7.1	32-33 35-26	P006 Vs. P010	It appears from mapping that P003-H2 runs right into/along P009-D1; however, there is no mention of it in text. Please clarify as this may have relevance with respect to connectivity. This is a good example of linking drain and hedgerow as "added value" to corridor potential.	
7.1	37-38	P013	P013-H2 directly links the 2 woodlands – this provides excellent detail about distance from the project location to the natural features. This is a good example of what should be applied throughout the entire section.	
7.1	39	P014-W2 - Does not appear to be mapped within the Appendix.	A map of this woodland feature is needed within the Appendix.	
7.1	42	P022 <i>P022-W2 - Fresh-Moist Shagbark Hickory Deciduous Forest (FODM9-4)</i> <i>This woodland includes three forest fragments that are located in close proximity</i>	The MNR has concerns for the underground cabling proposed directly through Woodland P022-W2. As we are reviewing the Site Investigation Report in isolation and cannot see your rationale (presumably contained in the	

Natural Heritage Assessment Tracking Changes Table

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
		<p>to one another. The western two fragments are connected by a short, wide hedgerow. The community is dominated by shagbark hickory, bur oak, and silver maple in the canopy and subcanopy, with relatively few snags throughout. The understorey is densely vegetated with white elm and shagbark hickory saplings, and the groundcover is relatively sparse with avens sp. and zig-zag goldenrod (<i>Solidago flexicaulis</i>). Due to the presence of silver maple, it is presumed that this area may have been wetter historically, but due to the agricultural tile drainage in the surrounding area, it is now a moist forest which may potentially contain vernal pools.</p>	<p>EIS) for routing the cable directly through the woodland instead of avoiding the natural feature, we are highlighting these concerns now to make sure that they are adequately addressed in subsequent reports.</p> <p>While it may be true that P022-W2 is a remnant fragment of a larger contiguous woodland, the same can be said for most/all of the fragmented woodlands in South Kent. Please provide an explanation for why this distinction has been made within this example when each of the three “remnant fragments” associated with turbine P022 would be considered a significant woodland in Chatham-Kent based on minimum size criteria alone.</p> <p>It is indicated that P022-W2 may potentially contain vernal pools, which could lead to this feature being considered Candidate SWH as a woodland containing amphibian breeding ponds. MNR anticipates that further site investigation may be required to confirm that this feature does or does not contain vernal pools utilized by breeding amphibian populations and the results will be presented in your Evaluation of Significance report or that appropriate setbacks will be applied.</p>	

Natural Heritage Assessment Tracking Changes Table

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
7.1	47	P031 RB-A1 - mapping	The MNR requests better mapping of this area of the project location to include the woodland RB-A1.	
7.1	88	P103	There is no mention of surveys to investigate/confirm boundaries of the IBA or Wintering deer habitat mentioned in Table 1. As such, the MNR requests further detail within the discussion in this section of the report.	
7.1	104	P133	The MNR requests further clarification on why these two woodlands have been lumped together as a single feature.	
8.0	144-148	Table 3 – Distances between project location and natural feature has been provided for woodland, but has not been provided for other natural features (wildlife habitat, ANSI).	Within the columns that say “Yes”, the distance between the project component and the natural feature should be provided and the boundaries of the identified natural feature should be mapped.	

Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:05 AM
To: Vukovics, Kathleen
Subject: FW: South Kent EOS - Wildlife Habitat

From: Riddell, Heather (MNR) [<mailto:Heather.Riddell@ontario.ca>]
Sent: Thursday, February 17, 2011 4:40 PM
To: Arnold, Kimberley
Cc: Simpson, Holly (MNR); Dixon, Rebecca (MNR); kim.sachtleben@patternenergy.com; m.dawson@samsungrenewableenergy.ca; b.edwards@samsungrenewableenergy.ca; Andrew Ryckman; Keith Knudsen; Wherry, Kathryn
Subject: South Kent EOS - Wildlife Habitat

Hi Kim,

I have been reviewing the Evaluation of Significance (EOS) for the South Kent Wind Project. While I prepare detailed comments, I thought that I would share a general comment that perhaps should be applied to the Site Investigation (SI) Report, as well as the EOS.

Specifically, within the sections that discuss Candidate Significant Wildlife Habitat (SWH), I have noted that much of the information is more suitable for the SI report as it confirms the presence/absence of Candidate SWH within 120 m of the project location. The purpose of the EOS is to evaluate the significance of natural features identified within 120 m of the project location during the Records Review (RR) and/or SI. Therefore, when it comes to SWH, the SI should discuss the presence/absence of Candidate SWH, while the EOS should confirm whether the Candidate SWH is or is not significant based on further evaluation. For instance, the diversity or abundance of species using a habitat could confirm its significance.

If not already accomplished at this point, I recommend pulling any specific discussions about Candidate SWH from the EOS and placing it with the SI report. And when revising the EOS, focus on confirming the significance of any Candidate SWH that was identified in or within 120 m of the project location during the RR and/or SI.

For example, page 54 of the EOS provides a discussion about Winter Deer Yards and confirms that there were no deer yards found within 120 m of the project location during site investigation. This information would be more appropriately placed within the SI report and the conclusion would be that the EOS does not need to discuss Winter Deer Yards because the SI confirmed that there were no Candidate Winter Deer Yards located within 120 m of the project location.

I intend to send more detailed comments by end of day tomorrow.

If you have any questions about this, please give me a call.

Regards,
Heather

Heather Riddell
A/ Planning Ecologist, Renewable Energy
Ministry of Natural Resources
Aylmer District
615 John Street N
Aylmer, ON N5H 2S8

(p) 519-773-4723
(f) 519-773-9014
Email: heather.riddell@ontario.ca

Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:05 AM
To: Vukovics, Kathleen
Subject: FW: South Kent EOS Report (December 6, 2010) - MNR Comments
Attachments: 2011-02-22 South Kent EOS - MNR Comment Table.doc

From: Riddell, Heather (MNR) [<mailto:Heather.Riddell@ontario.ca>]
Sent: Tuesday, February 22, 2011 5:23 PM
To: Arnold, Kimberley
Cc: Simpson, Holly (MNR); Dixon, Rebecca (MNR); kim.sachtleben@patternenergy.com; m.dawson@samsungrenewableenergy.ca; b.edwards@samsungrenewableenergy.ca; Andrew Ryckman; Keith Knudsen; Wherry, Kathryn
Subject: South Kent EOS Report (December 6, 2010) - MNR Comments

Hi Kim,

Attached please find the MNR's comments on the Evaluation of Significance report prepared by NRSI for the South Kent Wind Project.

In addition, to the attached, we provide the following general comments:

- The MNR questions whether some woodlands that have been described as "riverine woodlands" could be considered Valleylands. A Valleyland is defined in the Regulation as occurring in a valley or other landform depression that has water flowing through or standing for some period of the year. Has NRSI considered whether these "riverine woodlands" should be considered Valleylands? Please provide written clarification/discussion within the Valleylands section of the report. This discussion could likely be had at both the Records Review and Site Investigation stages of the NHA process.
- For woodlands that are greater than 2 ha but deemed "not significant" due to their planting nature, please provide further discussion to clarify if these woodlands/plantations meet one of the following criteria:
 - (a) a plantation managed for production of nursery stock; or
 - (b) a plantation managed for tree products with an average rotation of less than 20 years (e.g. hybrid poplar or willow); or
 - (c) a plantation established and continuously managed for the sole purpose of complete removal at rotation, as demonstrated with documentation acceptable to the MNR, without a forest restoration objective; or
 - (d) a woodland dominated by the invasive non-native tree species buckthorn (*Rhamnus* species) or Norway maple (*Acer platanoides*); if native tree species cover less than 10% of the ground and are represented by less than 100 stems of any size per hectare.
- The MNR requests that the approximate distances from the project location to the natural features/significant natural features discussed within the EOS is clarified within either the SI or EOS report.

If you have any questions, please contact me.

Regards,

Heather

Heather Riddell
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South Kent Wind Energy Project – Samsung and Pattern Energy
Prepared by: Natural Resource Solutions Inc. for Hatch Ltd.
Submitted: December 6, 2010

Please consider making these revisions to the sections and figures/tables identified and fill out the final column with a description of how the MNR's comments/suggestions have been incorporated.

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
1.0	1	<i>In accordance with Section 26 of the Renewable Energy Approval (REA) regulation, NRSI has already conducted a thorough records review and site investigation...</i>	<i>"In accordance with Sections 25 and 26 of the Renewable Energy Approval (REA) regulation..."</i>	
	1	<i>...of the project location, defined by the REA regulation includes all areas within 120 m of proposed development activities...</i>	<p>The project location does not include the 120 m setback. The area in and within 120 m of the project location must be assessed as part of the NHA. Therefore, this should read:</p> <p><i>... NRSI has already conducted a thorough records review and site investigation of the area in and within 120 m of the project location. The project location, by definition is the part of land or structures in, on or over which the project is proposed.</i></p>	

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
1.0	1	<i>The project location (or project area), as defined by the REA regulation includes all areas within 120 m of the proposed development activities.</i>	If you wish to define the "project area" as the project location plus the 120 m assessment area please clearly define that within the introduction of the report and use it consistently throughout the report. The definition of project location within the Regulation does not include the 120 m setback. Project area and project location should not be used synonymously unless clearly defined within the report.	
2.0	6	<i>In accordance with Section 27 of the REA regulation, a Natural Heritage Evaluation of Significance is required to be undertaken on any natural feature identified within the limits of the project location.</i>	<i>In accordance with Section 27 of the REA regulation, an Evaluation of Significance is required to be undertaken on all natural features located in or within 120 m of the project location.</i>	
2.0	6	<i>The purpose of the Evaluation of Significance (EOS) is to identify which natural features warrant significant classification based on the review of background information and results of site specific field studies...</i>	<i>The purpose of the Evaluation of Significance (EOS) is to determine, which natural features located in or within 120 m of the project location are significant and therefore, require an Environmental Impact Study (EIS), based on the review of</i>	

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
			<i>background information and results of site specific field studies...</i>	
5.0	13	This section currently summarizes the natural features that require Evaluation of Significance, including Wildlife Habitat; however, it does not identify specifically what types of Candidate SWH will be evaluated for significance.	<p>This comment relates to our comments on the Site Investigation report, whereby we requested further discussion about how the project area was assessed for SWH, as well as more information about the specific types and locations of Candidate SWH located in or within 120 m of the project location.</p> <p>It would be helpful if this section provided a clear list of all the types of Candidate SWH that will be evaluated within the Evaluation of Significance.</p>	
6.0	19	<i>In accordance with the REA regulation, NRSI biologists have completed a comprehensive records review and site investigations to confirm site-specific ecological functions of the South Kent Wind Project.</i>	<i>...to confirm site-specific ecological functions, as well as identify and delineate the boundaries of all natural features located in or within 120 m of the project location for the South Kent Wind Project.</i>	

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
6.1	19	<p><i>ANSI features have typically been warranted a level of significance, either provincial or regional, based on previously completed site investigations (often by the MNR).</i></p> <p><i>NRSI biologists reviewed these general criteria, including representation, condition, other ecological considerations, and special features, to identify the significance of any ANSI feature within 120 m of the proposed development activities.</i></p>	<p>ANSI's and their significance are always confirmed by the MNR and as such, this section does not require further discussion about the criteria that identifies this feature as an ANSI. The records review revealed that this feature is an ANSI and no further discussion or consideration by NRSI biologists is required at this stage. However, it is still important to conduct site investigations of ANSI features to assist with the EIS.</p> <p>This should read:</p> <p><i>Based on records review analysis, this feature is considered an ANSI by the MNR and therefore does not require further evaluation by NRSI biologists. This feature is located within 120 m of the project location and therefore will be considered within the EIS.</i></p>	

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
6.5.1, Table 5	22	Table 5 currently summarizes the criteria for two types of Specialized Wildlife Habitat.	The Site Investigation report and perhaps this section of the report should discuss why other types of Specialized Wildlife Habitat have not been considered, such as Seeps and Springs, Foraging and Perching Habitat, and Waterfowl Nesting. In addition, please ensure you provide further discussion to justify why rare vegetation communities have not been found in or within 120 m of the project location.	
7.1	26-27	<p>Discusses the Evaluation of Significance for St. Clair's Bush ANSI</p> <p><i>...NRSI agrees with the provincially significant status already attributed to this natural feature, and recommends that this feature be considered a significant natural feature.</i></p>	<p>As previously commented, only the MNR can identify ANSI's. ANSI's are provincially significant and do not require a further Evaluation of Significance; however, the information obtained through site investigation can be used within the EIS.</p> <p>The MNR has already determined this feature to be provincially significant; therefore, this statement does not seem appropriate.</p>	

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
	27	<i>NRSI biologists have identified a total of sixty-four (64) woodland habitats within the South Kent Wind Project.</i>	<i>NRSI biologists have identified a total of sixty-four (64) woodlands in or within 120 m of the project location for the South Kent Wind Project.</i> Please ensure this type of adjustment is made throughout the document.	
	30	<i>P017-W1</i> <i>...A site investigation of this natural feature confirmed the presence of several large trees, fulfilling the uncommon characteristic criteria of 10 or more trees/ha greater than 50 cm diameter at breast height (dbh).</i> <i>...Despite the present of several large trees, NRSI recommends that this not be considered a significant woodland as a result of not meeting a recommended minimum size threshold of 2 ha.</i>	The NHRM states that if one criteria is met then the woodland is considered significant (despite the fact that it does not meet the size threshold); therefore, given the first statement, the MNR recommends that this feature is considered significant unless further clarification can be provided for the conclusion that this feature is not significant.	
	37	<i>In spite of the size of this community, NRSI recommends that it be considered not significant due to the planted condition of this feature and limited benefit to other natural features.</i>	The NHRM states that woodlands which meet a suggested minimum standard for any one of the criteria listed should be considered significant; therefore, based on size alone, this feature could	

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
			<p>be significant, unless you are able to provide further information to prove that the woodland/plantation in discussion is one of the following:</p> <p>(a) a plantation managed for production of nursery stock; or</p> <p>(b) a plantation managed for tree products with an average rotation of less than 20 years (e.g. hybrid poplar or willow); or</p> <p>(c) a plantation established and continuously managed for the sole purpose of complete removal at rotation, as demonstrated with documentation acceptable to the MNR, without a forest restoration objective; or</p> <p>(d) a woodland dominated by the invasive non-native tree species buckthorn (Rhamnus species) or Norway maple (Acer</p>	

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
			<p>platanoides); if native tree species cover less than 10% of the ground and are represented by less than 100 stems of any size per hectare.</p> <p>This comment should be applied to any plantation that met the size criteria to be considered significant.</p>	
		<p>P114-W1</p> <p><i>This woodland is an assumed movement corridor for numerous Species at Risk (SAR) including Eastern Foxsnake... based on an observation of eastern foxsnake by NRSI biologists...</i></p>	<p>Please remove information about locations of SAR observations from the NHA report. It is acceptable to say SAR; however, please remove reference to species occurrences, such as Eastern Foxsnake.</p> <p>Also, it appears this woodland feature could be considered a Valleyland because it runs along a watercourse. Please provide clarification for why this feature was ruled out as being a Valleyland.</p>	

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
	39	<p><i>P139-W1</i></p> <p><i>...Despite the moderate size of this community, it contains no interior habitat, connectivity to other habitats, or uncommon characteristics. As a result, NRSI recommends that this woodland be considered not significant due to its young, planted nature and limited benefit to other natural features.</i></p>	Based on size alone, this woodland is considered significant according to the NHRM; unless it meets the criteria provided above regarding plantations.	
7.5	53	<p>Significant Habitat of Endangered and Threatened Species</p> <p><i>The REA regulation requires that a separate report, Approval and Permitting Requirements Document, be prepared to address the requirements of the Endangered Species Act (2007). As such, these species...</i></p>	<p>The MNR requests that this section is removed from the NHA report entirely. All information regarding Threatened and Endangered species should be submitted in a separate report and not discussed in any detail within the NHA reports.</p> <p>This statement would be useful within the introduction of the report.</p>	
7.6.1	54	<p><i>"A candidate deer wintering area has been identified by the comprehensive records review completed for the South Kent Wind Project. This candidate SWH has been delineated by basemapping available from LIO, and is located in the southwest corner of the project area overlapping with turbine no. P103 and associated infrastructure."</i></p>	Discussions about candidate SWH belong within the Site Investigation Report. As requested in MNR's comments on the Site Investigation, please incorporate this discussion	

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
		<p><i>NRSI has reviewed the natural habitats surrounding this turbine and compared with evaluation criteria in the SWHTG (OMNR 2000). This turbine is entirely surrounded by agricultural fields, with some wooded habitat present within 120 m of the west end of the access road, across McKinlay Road. No coniferous wooded habitats, or otherwise suitable deer wintering habitat, is present within 120 m of this turbine. As such, NRSI recommends that no significant deer wintering area is present within 120 m of turbine no. P103, and associated infrastructure.</i></p>	<p>in support of the sections that state that there are Candidate SWH located within 120 m of project components.</p> <p>The purpose of the Evaluation of Significance is to determine the significance of Candidate SWH located within 120 m of the project location. Therefore, this statement provides a good description of the site investigation work that was done to verify that no deer wintering areas are located within 120 m of the project location and as such, it would not require further discussion or consideration within the EOS.</p>	
7.6.1	55	<p><i>“Field studies within the South Kent Wind Project have identified several areas where shorebird activity was documented within the project area. The results of these field surveys have identified one (1) candidate SWH feature that is found within 120 m of the proposed development of the South Kent Wind Project.”</i></p>	<p>Similar to above comment, this paragraph, which discusses these studies and the locations of candidate SWH should also be discussed within the Site Investigation Report to support the discussion about types and locations of Candidate SWH in</p>	

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
			proximity to the project location, as requested in MNR's comments on the Site Investigation Report.	
7.6.1	55	Shorebird Migratory Stopover Areas: <i>"An area located in the northwest corner of the project area, overlapping with..."</i>	The location of this candidate SWH should be mapped and discussed within the Site Investigation report.	
7.6.1 Raptor Winter Feeding and Roosting Areas	56	Paragraph discusses the candidate SWH for raptor winter feeding and roosting.	This information needs to be discussed and mapped within the Site Investigation report. The data used to evaluate the significance of this Candidate SWH is from 2006. Can NRSI discuss whether any additional or more recent data was obtained to support the conclusion that this Candidate SWH is considered to be not significant?	
7.6.1 Reptile Hibernacula	56-57	Discusses the locations and types of features that may indicate presence of Candidate SWH <i>One (1) large debris pile adjacent to Oak</i>	The locations and this discussion should be provided within the Site Investigation Report. It stated that there is no	

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
		<p><i>Road associated with the ditch P074-D1 is located in the vicinity of the location where the eastern foxsnake road mortality was found approximately 1.2 km from the location of the pile on Pollard Line.,. However, there is no indication that this snake or any other snakes may be using this pile for hibernation. Although all of the above habitats may provide snake hibernation sites, there is no indication that they meet the evaluation criteria for a significant wildlife habitat. As such, NRSI recommends that these locations be considered not significant for reptile hibernacula.</i></p>	<p>indication that this snake or any other snakes may be using this pile for hibernation; however, this conclusion is not tied to specific field surveys done at the appropriate time of year to make this conclusion.</p> <p>Can NRSI please provide further clarification on why this conclusion was made?</p> <p>Also, we request that the information about the Eastern Foxsnake road mortality is removed from the EOS report and placed within a separate report to be submitted to the MNR for review by the SAR Biologist.</p>	
Bat Maternity Roosts/ Hibernacula	57-60	Entire section	Some of these paragraphs discuss Candidate SWH for bats and therefore belongs within the SI report.	

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
	59	<i>This will result in designated significant bat habitat within 120 m of proposed development activities around turbines P001, P103, P104, P106, P118, and P140.</i>	Please clarify the locations (woodland identifications codes) of the woodlands identified the significant bat habitat located within 120 m of the project location within the report and in mapping.	
	60+	Tallgrass Prairie, Savannahs, Rare Forest Types, Waterfowl Nesting Habitat,	As previously commented, these discussions belong within the SI report. The EOS should focus only on those natural features that were identified in or within 120 m of the project location during the SI. It appears many of these features do not require discussion within EOS because they were not found during SI.	
	63	<i>Six (6) identified drains, including two which represent entire creek systems, did not contain water to support turtle overwintering habitat. These include P103-D1, P104-D1, P106-D2, P106-D1, P09-D1, and P004-D1. As a result, NRSI recommends that the eight (8) features (i.e., nine (9) identified drains) which contained water are considered significant wildlife habitat for overwintering turtles.</i>	The MNR requests that the locations of these habitat features be provided in mapping.	

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
	63	Seeps and Springs section	This discussion is more suited for the SI report.	
	65	<i>The second is a meadow community identified south of the rail bed, west of Fargo (P052-W3), which is 14.3 ha in size. Although not specifically confirmed within these fields, two indicator species, bobolink (Dolichonyx oryzivorus) and vesper sparrow (Pooecetes gramineus), were confirmed during breeding bird surveys within the project area through background review.</i>	The reference to bobolink should be removed from the report and this information should be submitted to the MNR for further consideration in relation to the <i>Endangered Species Act</i> , 2007.	
	67	<i>This habitat is identified above in Figure 2-8 – Ridgetown West - Significant Natural Features and in Appendix I - Significant Natural Features - Turbine Maps for urbine no. P013.</i>	This type of information would be useful and is requested for all SWH located in or within 120 m of the project location, i.e. locations in mapping and references to mapping in the text.	
	69-70	<i>Birds</i>	This full section would be more suitable within the SI report, as previously commented.	

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
	76-78		All discussion about Candidate Animal Movement Corridors should be placed within the SI report.	
8.1	79-99	Section 8.1 summarizes all significant natural features in association with project components	The Regulation requires that the distance from the project location is identified. It would be helpful if these distances were identified at the SI stage. For example, instead of saying "located within 120 m of the turbine", say "located 35 m away from the turbine".	
		P020 – <i>A significant woodland (P019-W1) is located north of the proposed turbine.</i>	<i>A significant woodland (P019-W1) is located ____ metres north of the proposed turbine.</i>	
Table 9	101	Summarizes Component, Significant Features and EIS Required	The MNR requests that this table identify the approximate distance between the project component and the significant natural feature. This will help to provide a useful connection to the discussion that will occur within the EIS report. It will also satisfy the	

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
			requirement of the SI to identify the distances between project components and natural features.	

Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:06 AM
To: Vukovics, Kathleen
Subject: FW: South Kent - Workplan - MNR Comments

From: Riddell, Heather (MNR) [<mailto:Heather.Riddell@ontario.ca>]
Sent: Thursday, April 07, 2011 6:36 PM
To: Arnold, Kimberley
Cc: kim.sachtleben@patternenergy.com; Keith Knudsen; Andrew Ryckman; Wherry, Kathryn; Dixon, Rebecca (MNR)
Subject: South Kent - Workplan - MNR Comments

Hi Kim,

The MNR has reviewed NRSI's Memo: *South Kent Wind Project – Natural Heritage Assessment Summary of Project Layout Modifications and Proposed 2011 Natural Heritage Assessment Program*, dated March 18, 2011. We have reviewed the work program in detail, as well as the Evaluation of Significance (EoS) (submitted to MNR on Dec. 6, 2010, comments provided on Feb. 22, 2011) with a focus this time on the methodology that was utilized to determine significance of Candidate SWH. Further to our meeting on March 22, 2011, we provide the following in response to assist in ensuring that the Regulation requirements are met for assessing Candidate SWH during Site Investigation (SI) and determining the significance of Candidate SWH during EoS.

We are currently unable to provide detailed comments on whether the methodology proposed for SI and EoS studies are suitable without more information on the frequency, timing or type (transects, visual observation, roadside, etc.) of surveys for birds, amphibians, reptiles, etc. that are being conducted for SI and EoS. If NRSI is able to provide more detail on their proposed methodology, we will commit to reviewing those details as soon as possible. Having MNR review the detailed methodology will help to ensure that the Reg. requirements for SI and EoS will be met.

In the meantime, we provide the following general comments on the work program, as well as the approach that was used in the most recent EoS report submission:

- For the wildlife habitat that has been identified within agricultural drains, unless these sites are being managed under the Wetland Drain project, identifying an agricultural drain as SWH may not be appropriate, considering the drain is designed for agricultural use and the farmers could perform work (dredging, etc.) on the drain at any time. There are not many drains within the Municipality of Chatham-Kent that are currently being managed under wetland drain projects and as such, we suggest reconsidering the identification of these habitats as SWH within the EoS. These drains could still be identified as Candidate SWH during SI, but for the reasons described above, it is unlikely the drains will meet the criteria to be confirmed as SWH.
- Any EoS-type field work must be wildlife abundance and diversity specific for Candidate SWH. Any work being done this spring should be conducted using proper methodology. As mentioned above, this methodology should be reviewed by the MNR to ensure it is appropriate for determining significance based on species presence and abundance. In addition, methodology needs to be repeatable, in case further monitoring is required during or after construction, i.e. during operation, which would be determined and discussed within the Environmental Impact Study (EIS) and incorporated into the Environmental Effects Monitoring Plan.
- For some wildlife habitats discussed within the EoS, it is not yet clear what has been included. Mapped boundaries of Candidate SWH (natural feature by definition) is required during the SI stage. Habitats carried forward to EoS should have clearly defined boundary mapping with good descriptions of composition, attributes and function. Based on the SI and EoS reviewed by the MNR thus far, this is not evident, such as for shorebird habitat and waterfowl stopover habitats, etc. Please ensure that enough field work is completed to delineate the boundaries of Candidate SWH during SI, as well as provide a description of the composition, attributes and function of those mapped natural features.

We are also currently reviewing the EIS Sample Report, submitted to MNR on March 25, 2011 and intend to provide comments on it before the end of this week or early next.

If you have any questions, please contact me.

Best Regards,

Heather

Heather Riddell

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Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:06 AM
To: Vukovics, Kathleen
Subject: FW: South Kent Sample EIS - General MNR Comments

From: Riddell, Heather (MNR) [mailto:Heather.Riddell@ontario.ca]
Sent: Friday, April 29, 2011 4:25 PM
To: Arnold, Kimberley
Cc: Kim Sachtleben; Keith Knudsen; Colin Edwards; Wherry, Kathryn; Andrew Ryckman
Subject: South Kent Sample EIS - General MNR Comments

Hi Kim,

As discussed during the meeting on April 13, 2011, the MNR has reviewed the Sample Environmental Impact Study (EIS) report for the South Kent Wind Project. We provide the following general comments on the report and request that you consider these comments while preparing a finalized first draft of the EIS report, along with the Natural Heritage Assessment (NHA) report. I have only reviewed the report up to Section 4.5.1.2.2 and hope to review the remainder of the document. If I have any further comments to share with you, I will be sure to do so by the end of next week. In the meantime, I wanted to provide the comments I have thus far.

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- Suggest that the Rare Vegetation Communities or Specialized Wildlife Habitat sections (4.4 and 4.4.1) are inserted under the Significant Wildlife Habitat section (4.5), as they are a type of SWH

Project Overview

- The EIS should describe how the environmental effects monitoring plan and construction plan report address any negative environmental effects, as opposed to "describe the environmental effects monitoring plan for natural features", as stated in this section.

Table 1.1

- Under Wildlife Habitat, the Rondeau Bay IBA is referred to as a natural feature. For the purposes of the NHA, the term natural feature should be reserved for those features that are defined in the Regulation. As such, the IBA is important to mention but the wildlife habitat features within the IBA are what must be considered and discussed within the NHA.
- The description for use of the term "within" is difficult to follow. Please specify in the table the distance from the project component to the natural feature and if the mapping shows otherwise, provide an explanation for that within the table. It is currently unclear if the term "within" is also being used for project components that are actually within the natural feature, such as a turbine blade overlapping with a feature.

Table 1.3

- Please provide more specific information on the types of SWH. For instance, where the Significant Feature identifies "Habitat for Species of Conservation Concern" please summarize what the species is and provide the specific Feature ID for that feature, as was provided in the NHA report. Also, please summarize using the Feature IDs for woodlands and any other natural features discussed in the EOS.

Section 4.1.2.4 Vegetation Removal

- This section discusses construction commencing in August and the phases of vegetation during that time. Given the change in project timelines, will the discussion within this section be altered?

Section 4.3.2.4.1 Construction

- This section states poles *may* be positioned to avoid impacting significant woodlands. It is the MNR's preference, that the EIS report addresses specific impacts to significant natural features located within the project location. Therefore, if possible, we would prefer that we know of the locations of where vegetation removal will be required prior to signing off on the EIS report. If the location of the poles are not determined in advance of NHA

completion and sign-off, then the MNR would request that if the positioning of poles results in the removal of vegetation from the woodland, then specific mitigation measures should be laid out in the EIS. In addition, there should be mention of the need for consultation with the MNR prior to vegetation removal in any of the woodlands.

- If vegetation is removed, replace an equivalent amount of area...
- Similar comments apply to section 4.4.1.1.1, 4.4.1.1.2 and 4.4.1.1.3 which discuss impacts and mitigation for rare vegetation communities (which also more appropriately falls within the Significant Wildlife habitat category, i.e. Section 4.5).

Section 4.3.2.4.3

- The MNR would request that this section also identify the need for consultation with the MNR if decommissioning activities result in direct impacts to the function of the significant woodlands.

Section 4.5 Significant Wildlife Habitat

- The four broad categories of SWH are 1. Habitats of Seasonal Concentration of Animals, 2. Rare Vegetation Communities or Specialised Habitats for Wildlife, 3. Habitats of Species of Conservation Concern, and 4. Animal Movement Corridors. Please note and revise the introductory paragraph in this section accordingly. Also, as mentioned above, Rare Vegetation Communities should be discussed here, as opposed to being placed under the Significant Woodlands category within the EIS report.

Section 4.5.1.1.1 Construction Phase (shorebird migratory stopover areas)

- The MNR requests consideration for appropriate timing windows to lessen the occurrence of avoidance. Has the proponent considered timing construction away from the core migration period for shorebirds?
- This section should contain more information on baseline monitoring. Additional monitoring should also be considered during construction to gain data on avoidance behaviour.

Section 4.5.1.1.2 Operations Phase (shorebird migratory stopover areas)

- States that "turbines are to be placed at least 120 m away from woodlands wetlands, where possible, in order to minimize potential for impacts to bird movement to and from these areas" – more specific information to support this needs to be provided. General statements like these should be backed up with tables outlining specific instances or references to other sections of the EIS where more specific discussion is provided.
- Discusses the abundance of suitable habitats within the shorebird migratory stopover area that avoidance will not be a significant impact; however, MNR suggests that avoidance behaviour be monitored during the migratory season, once the wind project is in operation.
- Discusses results from Erie Shores Wind Farm indicating that studies did not identify avoidance or mortality due to wind turbines with regards to Killdeer. The methodology used for these studies has not been provided, so it is difficult to determine if the studies done were sufficient to draw such inclusions. Regardless of results at other wind farms, if turbines are placed within 120 m of migratory stopover habitat, which could lead to avoidance behaviour, then the MNR would request that monitoring of behaviour within the feature before (baseline monitoring) and after construction (post-construction behavioural monitoring) occur.
- States that maintenance shutdown will be coordinated with high periods of shorebird migratory activity, where possible. Statements like these should be more specific with regards to timing and should link to results of surveys conducted for site investigation and evaluation of significance. For instance, will the migratory activity be monitored to determine when maintenance shutdown should occur?

4.5.1.1.3 Decommissioning Phase (shorebird migratory stopover areas)

- A statement should be provided which says that MNR will be consulted in advance of decommissioning to discuss details and obtain feedback.

4.5.1.2.2 Operations Phase (Bat Avoidance)

- Although placement of turbines within 120 m of significant bat maternity roost is not anticipated to cause any avoidance of bats from the feature, is behavioural monitoring proposed to verify this statement?

General Comments

- It would be helpful if the natural features were discussed in relation to the Feature ID codes provided within the NHA reports, especially as it pertains to SWH. It is difficult to determine what wildlife habitat is being discussed without specific ID codes; however, the linkage to mapping was quite useful.
- Shorebirds – attributes, composition, and function needs to be provided during SI, so it's hard to understand what the impacts are to the feature – each individual habitat needs to have a description at SI. Even the one's that you discount.

The MNR is currently working on a NHA and EIS template for natural heritage assessments. It is currently in draft; however, I pulled some guidance from the EIS section to assist you while you prepare the updated EIS for the South Kent project:

The study should provide a description of the existing or baseline environmental conditions. Such an assessment is required in order to determine a benchmark from which to identify and assess the potential negative environmental effects of the proposed project as required in subsequent sections of the EIS. As such, specific information should be included to support the identification and assessment of environmental effects.

Information to be provided should include but may not be limited to details on the following:

- analysis of surface and subsurface soils;
- identification of local landform types;
- identification of catchment boundaries of any surfacewater features, including wetlands;
- description of the water balance, depending on the types of features present;
- description of the infiltration capabilities of the site; and
- description of natural features

Identifying Characteristics and Functions of Natural Features

A clear description and analysis of each natural feature and the functioning of that feature is required. This may include the identification and analyses of:

- ecologically sensitive functions or functions that can be used as indicators to measure the efficacy of mitigation measures
- species that could serve as an indicator of habitat conditions (e.g. keystone or indicator species)
- key features or functions that contribute significantly to the importance or persistence of a natural feature
- ecological linkages and relationship with adjacent features

Some of the information in this section may be available from previous work (Records Review, Site Investigation and Evaluation of Significance). However, it is likely that some additional studies may be required.

Where features such as wetlands are being treated as significant, the assessment should be included in this section.

It is recommended that mapping be included as per. Section 1.3. Mapping would serve to identify the location of the natural features being assessed, the study boundaries, ecological linkages and natural processes, and other features considered to important (e.g. seeps and springs, rock piles, bluffs and cliffs).

Potential Negative Environmental Effects and Proposed Mitigation, Monitoring and Contingency Measures

A consideration and assessment of effects should be provided for each characteristic and function as identified in s. 5.4 (above). Negative environmental effects should include an assessment of direct on-site effects (e.g. encroachment, fragmentation or elimination of habitat, tree removal) as well as indirect effects (e.g. sediment transport downstream, diversion of water flows, ponding, changes in volume of surface runoff) associated with specific construction, operational and decommissioning activities. Effects should also be measurable and reportable. As such, it is essential that baseline data be established prior to construction as per sections 5.2 and 5.4 to determine a benchmark from which to measure the extent of impact of the development.

Details should include but may not be limited to a description of the following:

- identification of the timing, duration, frequency, and extent of the proposed activity and the potential impact(s) for the project lifecycle
- location and size of areas/features impacted
- type of impact (e.g. size, health, diversity, connectivity, functionality, resilience)
- short-term and long-term effects
- secondary effects (e.g. effects on adjacent natural features)
- identification of any expected residues or emissions
- severity of impact
- mitigation activities to be employed, including location, timing, duration and frequency
- location, nature and quantity of any on-site material to be used
- residual effects, including severity, duration and extent
- cumulative effects
- monitoring to be employed, including techniques, location(s), timing, duration, frequency, rationale and reporting
- specific contingency activities to be provided should the mitigation activities not perform as anticipated, including timing, design and operational considerations if applicable.

- threshold to employ contingency activities (should be reportable and measurable)
- how results of the monitoring plan will be reported, including format and frequency

Mapping can be helpful in describing and supporting mitigation measures, including the location and extent of specific construction activities, the extent and location of mappable mitigation measures such as buffers and fencing, and the distance between specific mitigation measures, natural features, and project construction. Mapping format would be similar to guidelines provided earlier in the NHA template (see sections 1.3 and 2.4).

Discussion of potential negative effects and mitigation and monitoring strategies can be supported with tables. While the information can be provided in various formats, two samples are provided below.

Sample Table. Proposed Mitigation Measures for Natural Features.

Feature Type/ID	Project phase and activity	Functions and Attributes	Predicted Negative Effects	Proposed Mitigation Measures	Performance Objectives	Net Effects
Woodland (WL04)						

Table x. Proposed Monitoring Plan for Natural Features.

Feature Type/ID	Project phase and activity	Predicted Negative Effects	Mitigation Strategy	Proposed Monitoring Plan				Contingency Measures
				Methods	Location	Frequency	Rationale	

Summary of Impacts and Mitigation

This section should provide an overview of the mitigation, monitoring and contingency measures to be employed for specific natural features.

Sample Table. Summary of Proposed Mitigation, Monitoring and Contingency Measures.

Feature Type/ID	Proposed activities and potential negative environmental effects	Mitigation Measures	Monitoring Measures	Contingency Measures	Threshold for Implementation

Environmental Effects Monitoring Plan – Design and Operations Report

For projects subject to the Jan. 1, 2011 REA Regulation amendment, the Environmental Effects Monitoring Plan (EEMP) must be provided to the MNR with the NHA report submission. For projects not subject to the amendment, MNR highly recommends that the EEMP be provided as part of the NHA submission to identify any potential issues prior to the submission of the REA documents. Where the EEMP is not provided to MNR, the applicant must, at a minimum, indicate how the EEMP will address identified negative environmental effects through mitigation, monitoring and contingency measures.

Construction Plan Report

Within the EIS, the applicant must also indicate the specific mitigation and monitoring measures to be utilized during construction and installation of the development.

As mentioned above, I have not reviewed the report in its entirety, but will endeavour to do so before the end of next week.

If you have any questions, please contact me.

Regards,
Heather

Heather Riddell

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Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:06 AM
To: Vukovics, Kathleen
Subject: FW: South Kent Site Investigation - General Comments

From: Riddell, Heather (MNR) [<mailto:Heather.Riddell@ontario.ca>]
Sent: Thursday, June 23, 2011 5:07 PM
To: Arnold, Kimberley
Cc: Kim Sachtleben; Colin Edwards; Wherry, Kathryn; aryckman@nrsl.on.ca; Marnie Dawson
Subject: South Kent Site Investigation - General Comments

Hi Kim,

We have been reviewing the South Kent Site Investigation report and have identified a few general comments that can be applied through the full report, including mapping and tables. Thought it best to share these comments now to give the team the opportunity to consider them ASAP and revise accordingly.

1. Table 5a – This summary table has been really useful to connect the information provided in the text to the mapping provided in Appendix IV of turbine and components. Our general comments on this table include:
 - a. When a distance or the terms “adjacent” or “in” are provided in brackets, it would be helpful if it was specified what component that is in relation to, i.e. if it's adjacent to the turbine that is listed in the first column or to a road, underground or above-ground cabling associated to the turbine identified in the first column.
 - b. Under the “Habitats of Species of Conservation Concern” column, it would be helpful if the species being considered is listed in the table, so that it's clearly laid out which habitat is being considered.
2. Appendix IV – It has been noted in the text that in some cases (e.g. P009, page 69) that even if a turbine isn't located within a candidate significant natural feature; it is possible that the construction activities (i.e. laydown area for a turbine) may result in the removal of vegetation from that feature. Though I haven't gotten far enough in the review to know whether those features are significant, I did notice that proposed laydown/construction areas have not been included as components in the project location mapping. Please note that laydown/construction areas are considered project components because they part of the overall project footprint. Please clarify if the mapping may need to be updated to include these areas or if I have misinterpreted something.

We will be providing more specific comments on the wildlife habitat sections tomorrow; however, I was hoping to speak with you and/or other members of the team about the requests/comments above and whether they are feasible to address or if simple clarification could be provided to help with our review.

Thanks,

Heather

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Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:07 AM
To: Vukovics, Kathleen
Subject: FW: South Kent Site Investigation Report - Detailed Comments - Part 1
Attachments: 2011-06-27 South Kent Site Investigation - MNR Comments.doc

From: Riddell, Heather (MNR) [<mailto:Heather.Riddell@ontario.ca>]
Sent: Monday, June 27, 2011 4:11 PM
To: Arnold, Kimberley
Cc: Kim Sachtleben; Colin Edwards; Wherry, Kathryn; aryckman@nrsl.on.ca; Marnie Dawson
Subject: South Kent Site Investigation Report - Detailed Comments - Part 1

Hi Kim,

MNR has reviewed through to and including Section 6.5.4 of the Site Investigation report for South Kent Wind Farm, submitted on June 16, 2011. Attached are detailed comments regarding wetlands and wildlife Habitat. I am free any time this week to discuss any questions you or the project team may have about these comments.

We have also been reviewing Section 7.0 of the report and inserting comments directly into the PDF. We will be finalizing and providing those comments within the PDF by the end of day tomorrow.

Regards,
Heather

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Ministry of Natural Resources (MNR) staff have reviewed Samsung and Pattern Energy’s Site Investigation Report submitted on June 16, 2011. We provide the following comments that will require revisions to the report before we are able to provide confirmation under Section 28 of Regulation 359/09.

General Comments:

At the site investigation stage, it is a requirement to provide the type, attributes, composition and function of all natural features located in or within 120 m of the project location. This requirement applies to all natural features, including wildlife habitat. A good example of where this type of information has been provided in the report is on Page 25, which describes the specific habitat features that were present to identify candidate significant wildlife habitat (SWH) for reptile hibernacula. The following wildlife habitat sections require further information about the attributes and composition of mapped habitat features: Waterfowl Stopover and Staging Areas, Raptor Winter Feeding and Roosting Areas, Amphibian Breeding Habitat, and Bat Maternity Roosts/Hibernacula.

Also, the sections for most of the wildlife habitat types require more information the specific criteria from the Significant Wildlife Habitat Technical Guide (SWHTG) that were applied to make any conclusions about candidate SWH.

The mapping for some wildlife habitats described in the report is relatively broad-scale. It is a requirement at the site investigation stage that feature-specific mapping of natural features, including wildlife habitat is provided. The Significant Wildlife Habitat Technical Guide outlines the feature-specific criteria that should be used to scale mapping down to a feature-specific level.

More detailed comments regarding candidate SWH are provided within the table below.

Section-specific Comments

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
6.2 Wetlands	Page 21	There is reference to one wetland in LIO that was considered not present during site investigation. States that the boundaries of another wetland will be delineated and it can be seen in Figure 2-7.	It would be helpful at this stage to know the location of that wetland, i.e. near which turbine (or demonstrate in records review figures). We are unable to locate the wetland in Figure 2-7 and suggest it may be helpful to identify which turbine it is located near.	
6.2 Wetlands	Page 22	States that the wetland boundary will be delineated during the evaluation of significance.	Natural feature boundary delineation is required during the site investigation stage and as such, the wetland boundary should instead be delineated in site investigation mapping.	

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
6.5.1 Seasonal Concentration Areas	Page 23, Winter Deer Yards	Explains that this candidate significant wildlife habitat (SWH) will be examined in more detail during evaluation of significance (EOS).	<p>Mapping of the boundaries of natural features is required at the site investigation stage and as such, this candidate SWH should be investigated and mapped through physical site investigation at this stage.</p> <p>If site investigation confirmed that no suitable habitat features were present within 120 m of the project location, i.e. coniferous wooded habitats, then it is likely that this habitat does not need to be carried forward to EOS. Further discussion and clarification is required.</p>	
6.5.1 Seasonal Concentration Areas	Page 23 and Figure 3-9, Waterfowl Stopover and Staging Areas	The mapping shows all areas within ~2 km of the Lake Erie shoreline as candidate SWH for waterfowl stopover and staging areas.	<p>The discussion about the habitat on Page 23 requires more consideration for the criteria that was applied from the SWHTG. The attributes and composition of this candidate SWH also needs to be discussed in greater detail.</p> <p>Also, mapping at the site investigation needs to be scaled down to specific features that could provide candidate waterfowl stopover and staging areas, i.e. terrestrial and/or aquatic habitats within the 2 km zone identified in current mapping. The focus for this mapping should be on any features within 120 m of project infrastructure.</p> <p>The feature-specific criteria in Appendix Q of the SWHTG include optimal vegetation, abundant cover, wetlands, etc. Also, the size the area and quality of habitat could be considered at the site investigation stage.</p> <p>The EOS should then focus on discussions regarding species abundance and diversity to confirm the significance of these features.</p>	

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
6.5.1 Seasonal Concentration Areas	Page 24, Shorebird Migratory Stopover Areas	States that habitat does not meet provincial criteria for being considered SWH.	<p>This section provides discussion on numbers of shorebirds documented within the general area; however, it is helpful and necessary to provide more detail on the feature-specific criteria that were considered from the SWHTG and why these criteria were not met. This will help us confirm that MNR criteria were applied to make this conclusion.</p> <p>For instance, feature-specific criteria outlined in Section 4.4.6 of the SWHTG describe relatively undisturbed shorelines that provide abundant food as more significant sites. Also Section 8.3.6 of the SWHTG explains that many significant sites have a long history of use. Natural, permanent sites are also generally more significant than temporarily flooded areas.</p> <p>More discussion is required in this section in relation to the SWHTG for us to confirm this conclusion.</p>	
6.5.1 Seasonal Concentration Areas	Page 25, Raptor Winter Feeding and Roosting Areas	Identified one location for candidate raptor winter feeding and roosting habitat	There is no specific discussion about the attributes and composition of this habitat feature. For instance, sites near open fields with adjacent woods could be considered more significant. Also, sites with abundant prey and perches are considered more significant. If the hedgerow provides this candidate SWH, we require detail on the habitat composition and attributes.	
6.5.1 Seasonal Concentration Areas	Page 26, Amphibian Breeding Habitat	States that P014-W1 contains amphibian breeding habitat.	It doesn't appear as though P014-W1 maps amphibian breeding habitat in Figure 3-9. The habitat in the SWHTG is described as "Woodlands supporting amphibian breeding ponds" and the feature-specific criteria outlined in Appendix Q of the SWHTG outlines that more	

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
		Three features (P014-W1, P162-W1, P035-WE1) were identified as candidate amphibian breeding habitat because there was either a wetland, lake or pond within or adjacent to a woodland.	<p>significant sites are woodlands with permanent ponds or those containing water in most years until at least July, woodlands with larger and/or several ponds, diversity of submergent vegetation, presence of shrubs and logs, etc. This is the criteria that should be discussed within the site investigation report, so that we can confirm that appropriate criteria from the SWHTG were applied.</p> <p>Each habitat feature identified should clearly indicate the composition and attributes that led to the conclusion that it was a candidate amphibian breeding habitat. For each of the three features, please clarify the habitat features that were present (vernal pools, ponds, etc.) to conclude that it is candidate SWH.</p>	
6.5.1 Seasonal Concentration Areas	Page 26-27, Bat Maternity Roosts/Hibernacula	Section describes that areas of bat maternity colonies were identified using data on bat passes. All woodlands of at least 0.5 ha in size were considered candidate SWH for bats.	MNR's Bat Guidelines (2010) outline the requirement to map the boundaries of candidate SWH as per the SWHTG. The habitat features associated with bats in this area include wetlands and woodlands with abundant snags (i.e. cavity trees with greater than 25 cm DBH – 10 trees/ha). If there are no areas with a high level of snag habitats, then is unlikely that the habitat would be considered candidate SWH. The section needs to be revised to include discussion about specific habitat features within 120 m of the project location that would provide candidate SWH for bats – the boundaries of the habitat should be provided in mapping.	

Section	Page #	Current wording/topic	Suggested rewording or comment(s)	Description of how changes were made
6.5.1 Seasonal Concentration Areas	Page 28, Other Seasonal Concentration Areas	Section states that field work did not identify any candidate SWH for these seasonal concentration areas.	These types of statements need to be supported with specific reference to the criteria within the SWHTG for each type of candidate SWH. More detail is required.	
6.5.2 Rare Vegetation Communities and Specialized Wildlife Habitat	Page 28-29	States that NRSI has reviewed the rare vegetation communities list.	This section should be more specific about the criteria that were used and the list that was reviewed. The list of rare vegetation communities within Appendix M of the SWHTG contains a list of rare vegetation communities and all ELC communities assessed within 120 m of the project location should be checked against that list to verify whether any rare vegetation communities occur within the project area.	

Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:07 AM
To: Vukovics, Kathleen
Subject: FW: South Kent Site Investigation Report - Detailed Comments - Part 2
Attachments: 2011-06-16 South Kent SI - Report MNR Comments 2011-06-28.pdf

From: Riddell, Heather (MNR) [<mailto:Heather.Riddell@ontario.ca>]
Sent: Tuesday, June 28, 2011 4:48 PM
To: Arnold, Kimberley
Cc: aryckman@nrsi.on.ca; Kim Sachtleben; Colin Edwards; Marnie Dawson; Wherry, Kathryn
Subject: South Kent Site Investigation Report - Detailed Comments - Part 2

Hi Kim,

The Ministry of Natural Resources (MNR) has reviewed up to Turbine P040 within Section 7.0 of the South Kent Wind Project Site Investigation Report. We have inserted comments directly within the attached PDF (deleted the figures and remaining pages that are yet to be reviewed, to cut down on file size). Comments start on Page 27 of the report.

In addition to the comments provided within the attached report, we provide the following general comments:

Candidate Significant Wildlife Habitat

- Most of the descriptions for each turbine end with a conclusion that the proposed development activity is found within 120 m of candidate significant wildlife habitat (SWH). We acknowledge that all drains and hedgerows located within 120 m of the project location have been identified as Animal Movement Corridor (candidate SWH) and can make that assumption (see additional comment below pertaining to drains and hedgerows). However, in some cases the type of candidate SWH is something different than Animal Movement Corridor but that has not always been clarified within the paragraph under each turbine or within the conclusion. For greater clarity and interpretation of the results of the site investigation, it would be helpful if the type of candidate SWH is clarified within the descriptive paragraph, or within the summary statement for each turbine within Section 7.0.
- Also, in some cases, the project components are located *within* a natural feature (candidate SWH), i.e. the proposed cabling or access road crosses a candidate Animal Movement Corridor. Therefore, the statement that *this proponent is found within 120 m of candidate significant wildlife habitat* does not clearly demonstrate that the component is proposed within the natural feature itself. For clarity, this should be corrected throughout Section 7.0. If a feature will not actually be touched (i.e. no vegetation removal will occur within the feature for the purpose of above ground cabling), that should also be clarified within these sections.
- In addition, not all drains and hedgerows should necessarily be considered candidate SWH (Animal Movement Corridor). As stated in the SWHTG, more significant corridors are connected to other significant natural features or they provide access to and from the most critical habitats. The dimensions of corridors should also be considered at the site investigation stage. We briefly reviewed the discussion on Animal Movement Corridors within the Evaluation of Significance report and noted that the discussion there addresses the fact that very few, if any, of the hedgerows meet the criteria to be considered significant and we suggest that this could have been determined at the site investigation stage and would lessen the amount of features that need to be considered during EOS. We understand it would be large undertaking to revise the report; however, we recommend that it would be of benefit in the future to minimize the amount of features requiring Evaluation of Significance if the features don't meet the criteria to be considered candidate SWH at the site investigation stage.

Wetlands

- Page 82 identifies P108-W1 as a woodland containing a wetland that is beyond 120 m from the project location. However, the dominant species identified within this woodland indicate that this feature is likely swamp and therefore wetland. It mentions that the groundcover suggests it is not a wetland and we request that the groundcover species are identified. Also, please provide detail on any soil data that was obtained that suggested that this feature is not wetland.

We will provide comments on the remaining components over the next few days, but they will instead be provided through tracked changes within a Microsoft Word version of the document.

Regards,
Heather

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Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:07 AM
To: Vukovics, Kathleen
Subject: FW: South Kent Site Investigation Comments - Part 3 - P041 to P122
Attachments: 2011-07-04 South Kent Wind Project_NH Site Investigation Report_MNR Comments on P041-P122 Inserted.doc

From: Riddell, Heather (MNR) [<mailto:Heather.Riddell@ontario.ca>]
Sent: Monday, July 04, 2011 1:25 PM
To: Arnold, Kimberley; Andrew Ryckman; Tara Lessard; Wherry, Kathryn
Subject: South Kent Site Investigation Comments - Part 3 - P041 to P122

Good Afternoon,

Further to our comments sent for Turbines P001 to P040, please see the attached document which contains tracked changes and comments on the discussion provided for turbines and associated infrastructure for P041 to P122. Please feel free to accept or reject any suggested changes. When changes are made in response to a comment, please insert responses directly into the report (i.e. explaining reason for the change that was/was not made, if necessary) and resubmit the report in tracked changes to help expedite additional review. We will be providing additional comments on remaining turbines by the end of the day.

Key Comments:

1. As previously commented; the waterfowl stopover and staging area mapping needs to be scaled down to the specific features that contain candidate habitat.
2. P111-W1 was identified as a Silver Maple Mineral Deciduous Swamp. It is our experience that any communities identified as swamp types through Ecological Land Classification (ELC) are considered wetlands. District staff consider this feature a wetland, which would require it to be evaluated using the Wetland Characteristics and Ecological Functions Assessment tool within the Evaluation of Significance report.
3. To assist in providing clarity on the statements made at the end of each description, we have inserted in brackets the type of candidate SWH that was found within 120 m of the project components associated with each turbine. In several instances, we have requested clarity on the location of some of the habitat that has been listed in Table 5a. For instance, in some cases we were unable to find the location of amphibian breeding habitat, reptile hibernacula, etc., as well as information on or location of the S1-S3 species habitat that occurs within 120 m of the project location.

Please contact me if you have any questions. I am in the office today, but away on Tuesday to Thursday for training. I will have limited access to email during that time but will check voicemail regularly throughout the week, in case anyone needs to discuss particular comments.

If you'd like to set up a conference call for Friday (July 8th) when I'm back in the office, let me know. It may help to touch base on how things are coming along with regards to these comments and others we provided over the past couple weeks.

Regards,
Heather

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Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:07 AM
To: Vukovics, Kathleen
Subject: FW: South Kent Site Investigation Report - Part 4 - Wetlands/Woodlands

From: Riddell, Heather (MNR) [mailto:Heather.Riddell@ontario.ca]
Sent: Monday, July 04, 2011 6:29 PM
To: Arnold, Kimberley; Andrew Ryckman; Tara Lessard; Wherry, Kathryn
Cc: Fleischhauer, Andrea (MNR); Kim Sachtleben; Colin Edwards; Marnie Dawson
Subject: South Kent Site Investigation Report - Part 4 - Wetlands/Woodlands

Good Afternoon,

The South Kent Site Investigation report, submitted on June 16th was recently reviewed by our wetland technical staff and they have identified numerous woodlands that, based on the species composition and ELC community codes, could be considered wetlands under the current 3rd edition *Ontario Wetland Evaluation System* (OWES) manual. If the woodland is comprised predominantly of moisture-loving or moisture-tolerant plants (i.e. wetness coefficient of -1 to -5), then it could have the potential to be designated as wetland under OWES. Wetness coefficients have been provided below (in brackets) beside each species and can be found on the MNR Biodiversity Explorer website under each species account.

Further consideration should be given to all Fresh-Moist deciduous forest types that are listed in the Woodland Site Investigation table (Appendix I) as they could be potential Swamp Wetland Communities based on further soil analysis and groundcover species composition. The report and ELC data cards do not provide sufficient detail regarding soil type/classification and as such, appear to be generalized as being FOD communities. We require further detail on the woodland communities listed below on species composition and soil analysis to verify whether or not these features are wetlands that require evaluation of significance using the Wetland Characteristics and Ecological Functions Assessment tool provided within the Natural Heritage Assessment Guide.

Woodland Map Code	MNR Comment
P001-W1 (FODM7-1)	This is thought to be an extension of the wetland community that is adjacent to this feature, as indicated in the report. The species listed for this community are all moisture-tolerant species, such as Gray dogwood (-2), Poison Ivy (-1) and White Elm (-2).
P002-W2 (FODM7-1)	This woodland is comprised of White Elm (-2), Red-osier Dogwood (-3), and Reed Canary Grass (-4), which are all species that suggest this woodland could be classified as a wetland.
P014-W1 (FODM9-2)	The report states that this community is dominated by Silver Maple (-3), with a White Elm (-2) dominated sub-canopy. Although drainage may be affecting this feature the vegetation would still suggest that it is functioning as a wetland. The high density of invasive species such as buckthorn or garlic does verify that there is a lack of seasonal flooding. We require more detail on this wetland (soils, etc.) to verify whether hydrology has been altered or whether there is in fact seasonal flooding.
P014-W2 (FODM7-1)	Based on the information provided this woodland is difficult to assess. It sounds very disturbed or potentially pastured, but does support a variety of moisture-loving plants, such as Reed Canary Grass (-4). Other species that have been included in the species list, such as Canada Goldenrod and White Oak are considered to have a strong preference for upland areas. Further information on the under-story of this community would be helpful and would complete the discussion on the composition of this feature.
P034-W1 (WODM5-2)	This woodland, although young, is dominated by White Elm (-2) and Silver Maple (-3) and should likely be considered a wetland.
P042-W1 (FODM7-1)	Every species listed for this community has some affinity for moisture and

	seasonal flooding. The report states that there is probably seasonal flooding and that it may support vernal pools, which suggest that this feature is a wetland.
P065-W3 (FODM9-3)	Based on the canopy composition we would consider this feature a wetland, such as White Elm (-2), Silver Maple (-3) and Bur Oak (+1) which has an affinity for drier conditions but can still act as a dominant tree in deciduous swamps. The classification could be clearer if the report included information on groundcover species composition.
P108-W1 (FODM7-1)	As already mentioned, Silver Maple and White Elm are swamp indicator species. Green Ash (-3) is also commonly found in swamps, which strongly suggest that this feature is a wetland.
P140-W2 (FODM-10)	The presence of Buttonbush (-5) undoubtedly confirms that this feature is likely a wetland. In addition, the canopy is dominated by Green Ash (-3) and Silver Maple (-3), while the understory is dominated by red raspberry (-2) and red-osier dogwood (-3). We question the presence of White Oak within the woodland and we suggest it was possibly mis-identified as White Oak (<i>Quercus alba</i>) and is actually Swamp White Oak (<i>Quercus bicolor</i>), which has a wetness coefficient of -4.
CLA-W2 (FODM7-1)	For this feature, either the Hawthorn needs to be taken to species level or more groundcover species information is required in order to determine whether this woodland could be considered wetland. Based on the dominance of White Elm (-2) and Red Raspberry (-2), we would currently suggest that this woodland is a swamp, i.e. SWD4-2.

Here is a summary of the dominant species that suggest that the communities listed above could be wetlands, along with the Mineral Swamp ELC Codes that should be considered:

- Green Ash (-3) (SWD2-2)
- Silver Maple (-3) (SWD3-2)
- White Elm (-2) (SWD4-2)
- Manitoba Maple (-2) (SWD3-4)
- Red Maple (0) (SWD3-1)
- Bur Oak (+1) (SWD1-2)

As mentioned above, we request further detail within the site investigation report on the soil analysis and species composition for these features to verify whether they are wetlands or woodlands.

If you have any questions about these comments, please contact me.

Regards,
Heather

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Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:08 AM
To: Vukovics, Kathleen
Subject: FW: South Kent - Seasonal Concentration Areas - Follow Up

From: Riddell, Heather (MNR) [<mailto:Heather.Riddell@ontario.ca>]

Sent: Wednesday, July 13, 2011 4:11 PM

To: Tara Lessard

Cc: Andrew Ryckman; Wherry, Kathryn; Keith Knudsen; Colin Edwards; Arnold, Kimberley; Marnie Dawson; Fleischhauer, Andrea (MNR)

Subject: South Kent - Seasonal Concentration Areas - Follow Up

Hi Tara,

As we discussed on the phone this afternoon, I had commented previously (Part 2 comments inserted into the PDF provided on June 28th) that for the Seasonal Concentration Areas, all types of habitat under this category need to be considered against the criteria within the Significant Wildlife Habitat Technical Guide (i.e. Appendix Q). I followed up with you today to clarify that comment and that it wasn't just meant in reference to those habitats summarized under "Other Seasonal Concentration Areas" on Page 28 of the report, but that it encompassed all habitats listed under that category in Appendix Q, including Landbird Migratory Stopover Areas.

Specifically, for Landbird Migratory Stopover Areas I first told you that because part of the project location occurs within 5 km of the Lake Erie shoreline, this type of habitat should be considered (as per the criteria in Appendix Q). I also said I would chat with John Boos about the size of woodlands that would be considered significant for this type of habitat but wasn't able to reach him. So for the sake of time, I spoke with another district that has dealt with this type of habitat and they said the main thing is to look for representative sites that could be considered significant in the project area. So, in Chatham-Kent, this would likely include the largest of the woodlands (i.e. those that meet the criteria for significance based on size) in the area and that may have multiple ELC communities in them and (preferably) have grassland/thicket/marsh/hayfield/etc. immediately adjacent to the woodland (would be part of the habitat).

For Turtle Nesting and Over-wintering Habitat, I mentioned to you that because the project location goes through these candidate SWH's, the Evaluation of Significance (EoS) will be looked at with greater scrutiny (i.e. we cannot allow flexibilities for features that occur *within* the project location, only for those *within 120 m* of the project location). Because few to no turtles were observed using those candidate habitats, it's hard to confirm whether or not this habitat should be deemed significant (as it has been for some of these features in the EoS). So, at this point, without the appropriate information, we would have to say that the project location would need to be revised to stay out of those habitats until surveys are completed to gain further information on evidence of use during the nesting season, use of the site by several species, etc. (see criteria in Appendix Q related to species presence, abundance and diversity). I have mentioned that if you can narrow down whether the appropriate habitat features are there based on criteria in Appendix Q, it is possible these habitats may not actually be candidate as indicated in the site investigation report. I would still like to chat with John Boos about this, but according to his voicemail, he is out of the office Thursday and Friday. So our further guidance might have to wait until Monday.

For waterfowl stopover and staging areas, you and I discussed the approach for narrowing down the habitat mapping to agricultural fields that may be flooded in that spring and that would likely be okay at this point for mapping candidate sites. Keep in mind though, that if any of the project components are proposed within that candidate habitat, we will again be looking closely to verify whether feature-specific survey work was completed within those habitat features to confirm whether or not they are significant.

If I've missed anything or have misrepresented our discussion in any way, please let me know.

Thanks and have a great night,

Heather

Heather Riddell

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Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:09 AM
To: Vukovics, Kathleen
Subject: FW: South Kent Evaluation of Significance - MNR Comments (to Page 53)
Attachments: 2011-07-19 South Kent EOS - Report - MNR comments inserted.doc

From: Riddell, Heather (MNR) [<mailto:Heather.Riddell@ontario.ca>]
Sent: Tuesday, July 19, 2011 4:52 PM
To: tlessard@nrsl.on.ca
Cc: Andrew Ryckman; Wherry, Kathryn; Keith Knudsen; colin.edwards@patternenergy.com; Arnold, Kimberley; m.dawson@samsungrenewableenergy.ca; Fleischhauer, Andrea (MNR)
Subject: South Kent Evaluation of Significance - MNR Comments (to Page 53)

Hi Tara,

Attached is the Word Version of the Evaluation of Significance (EOS) report with inserted comments and tracked changes provided for up to Page 53 (full/complete comments end at community P064-W1).

General comments so far:

- The full summary of the records review is likely not required at this stage and can be removed, as the EOS mainly needs to focus on only on the natural features that are being carried forward and evaluated for significance (as determined at the site investigation stage). Also, we request that, once finalized, the update summary table from the SI report is provided in place of the summary table currently provided in the EOS report.
- There are two communities (P005-W1 and P047-W1) that are evaluated for significance; however, they are not listed in the site investigation summary and it is unclear if they occur within 120 m of the project location or if they were discussed previously within the Site Investigation report.
- Some of the communities evaluated for significance as woodlands may not actually meet the definition of a woodland, as they are described as meadow or shrub/thicket communities and clarification is required for those communities as to how they meet the definition of woodland.
- Within the woodland EOS summaries, it sometimes states that a natural feature is adjacent to or within 120 m of a project component but based on mapping it appears that the component is proposed within the natural feature being discussed and clarification is required in those cases.

As always, if you have any questions, please give me a call.

Regards,
Heather

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Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:09 AM
To: Vukovics, Kathleen
Subject: FW: South Kent EIS Review (June 17, 2011 Version)
Attachments: 2011-07-20 South Kent EIS Report - MNR Comments inserted.doc

From: Riddell, Heather (MNR) [<mailto:Heather.Riddell@ontario.ca>]
Sent: Wednesday, July 20, 2011 6:01 PM
To: Arnold, Kimberley
Cc: tlessard@nrsl.on.ca; Andrew Ryckman; Wherry, Kathryn; Keith Knudsen; colin.edwards@patternenergy.com; m.dawson@samsungrenewableenergy.ca; Fleischhauer, Andrea (MNR); Cameron, Amy (MNR); Kim Sachtleben
Subject: South Kent EIS Review (June 17, 2011 Version)

Hi Kim,

Attached is a Word Version that contains the Ministry of Natural Resources' comments on the South Kent Environmental Impact Study (EIS) report that was submitted on June 17, 2011. We look forward to further discussing these comments with you and the project team tomorrow afternoon and are here for guidance whenever needed as you work through revisions.

The following is a general summary of our comments:

- The EIS is currently missing the feature-specific details needed to identify potential impacts to and mitigation measures for all significant natural features located within 120 m of the project location. We have inserted tables throughout the report as a recommendation for providing those specific details.
- As mentioned in previous discussions/conference calls, it appears as though the complete project location, including construction areas, laydown areas, and disturbed areas as described in the text of the EIS, has not been identified in mapping or considered when discussing impacts to significant natural features. For example, a wind turbine may be proposed within 90 m of a significant natural feature; however, construction may occur within 50 m of the woodland. As such, the constructible area would need to be mapped to within 50 m of the woodland to identify the full project footprint and determine the extent of potential impacts (during construction and operation).
- As per MNR comments on the site investigation and evaluation of significance reports (to be provided shortly), there are a number of wildlife habitats types that still need to be addressed (e.g. landbird migratory stopover area, butterfly migratory stopover areas, etc.). Depending on what revisions are made to those documents, if the project is proposed within significant wildlife habitat (SWH), a full EOS must be provided before we can provide confirmation. If a component is proposed adjacent to SWH, the option is to assume significance and agree to pre- and post-construction monitoring within the EIS to address potential behaviour avoidance concerns. Any pre-construction monitoring plans that are prepared to improve upon existing baseline information should be included within the EIS. If these types of plans are required, pending comments and revisions to the site investigation and evaluation of significance reports, they will need to be provided within the updated EIS.

If you have any questions, please contact me.

Regards,
Heather

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Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:10 AM
To: Vukovics, Kathleen
Subject: FW: South Kent Evaluation of Significance - MNR Comments (remainder of report)
Attachments: 2011-07-20 South Kent EOS - Report - MNR comments inserted.doc

From: Riddell, Heather (MNR) [<mailto:Heather.Riddell@ontario.ca>]
Sent: Wednesday, July 20, 2011 6:35 PM
To: tlessard@nrsl.on.ca
Cc: Andrew Ryckman; Wherry, Kathryn; Keith Knudsen; colin.edwards@patternenergy.com; Arnold, Kimberley;
m.dawson@samsungrenewableenergy.ca; Fleischhauer, Andrea (MNR); Cameron, Amy (MNR); Boos, John (MNR)
Subject: South Kent Evaluation of Significance - MNR Comments (remainder of report)

Hi Tara,

Attached is the Word Version of the Evaluation of Significance report with inserted MNR comments and tracked changes provided for the remainder of the report.

General comment on EOS of wildlife habitats:

Further detail is required on the methodology that was followed to evaluate several of the habitat types for significance. We require more detail because we need to determine that the methodology followed was appropriate to confirm significance, especially where project components are proposed within the habitat. If adjacent to a habitat, there is an option to commit to further pre- and post-construction monitoring within the EIS. However, if a component is directly in the habitat we need to have all the necessary information to determine the impacts and mitigation for constructing within the feature before we are able to provide confirmation on the NHA and EIS.

We look forward to discussing these comments tomorrow afternoon.

Regards,
Heather

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Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:10 AM
To: Vukovics, Kathleen
Subject: FW: SKWP - Pre-construction Monitoring Program

From: Riddell, Heather (MNR) [<mailto:Heather.Riddell@ontario.ca>]
Sent: Friday, July 22, 2011 3:37 PM
To: Tara Lessard
Cc: Arnold, Kimberley; Wherry, Kathryn; Andrew Ryckman (AGR); 335936; Fleischhauer, Andrea (MNR)
Subject: RE: SKWP - Pre-construction Monitoring Program

Hi Tara,

We reviewed the monitoring plans proposed in the attachment you provided. The studies proposed for the habitats listed seem reasonable and repeatable, so we have no additional comments on the methodology.

Please note the following comments and consider them as they relate to the features identified for this additional pre-construction monitoring (and potential post-construction monitoring):

- The studies for these habitats will need to be repeated if the proponent is developing within the habitat or if turbines will be operating adjacent (within 120 m) of the bat maternity or open country bird breeding habitat. The Area Sensitive Bird Woodland habitat does not need monitoring if a turbine is proposed adjacent to that feature but will be if any components are proposed within those features.

- For the purpose of the EOS, you will be treating these habitats as significant until pre-construction studies are completed. Therefore, Hatch will need to provide some general mitigation for these habitats in the EIS and commit to three years of post-construction monitoring (repeat studies), especially if components are being developed within the habitats or within 120 m of turbines (bat and open country breeding bird habitat). Since some sites could end up not being significant based on pre-construction studies, we recommend including a footnote within the EIS that the proponent will discuss further monitoring and effects mitigation with MNR, once pre-construction studies are complete.

Let me know if you have any questions.

Thanks,
Heather
Heather Riddell
Ministry of Natural Resources
519-773-4723

From: Tara Lessard [<mailto:tlessard@nrsl.on.ca>]
Sent: July 22, 2011 2:48 PM
To: Riddell, Heather (MNR)
Cc: 'Arnold, Kimberley'; 'Wherry, Kathryn'; Andrew Ryckman (AGR); '335936'
Subject: Fwd: SKWP - Pre-construction Monitoring Program

Hi Heather,

Here is what we came up with for the pre-construction monitoring program and commitments that will be incorporated in to the EIS.

Please review and let me know if you think any changes should be made.

Thanks,

Tara

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Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:10 AM
To: Vukovics, Kathleen
Subject: FW: South Kent Site Investigation Report - Remaining MNR Comments
Attachments: 2011-07-26 South Kent SI Report - remaining MNR comments inserted.docx

From: Riddell, Heather (MNR) [mailto:Heather.Riddell@ontario.ca]
Sent: Tuesday, July 26, 2011 12:15 PM
To: tlessard@nrsl.on.ca
Cc: Andrew Ryckman; Arnold, Kimberley; Wherry, Kathryn; Kim Sachtleben; colin.edwards@patternenergy.com; m.dawson@samsungrenewableenergy.ca; Tait, Maryjo (MNR); Fleischhauer, Andrea (MNR); Graham, Brad (MNR); Keith Knudsen
Subject: South Kent Site Investigation Report - Remaining MNR Comments

Hi Tara,

We reviewed the updated South Kent Site Investigation Report that was submitted to MNR on July 21, 2011. The approach to our attached response (Word version of report with tracked changes and inserted comments), as discussed on the phone with you yesterday, was to remove the inserted comments that have been appropriately addressed and clarify, as well as highlight the sections that still require attention.

Here's a summary of some of the main points we discussed as you and I went through the report yesterday afternoon, over the phone:

- **Section 6.5, Plants** – Compass Plant was observed in the RB communities. Commonly when an s-ranked (S1-S3) species is identified within a feature, the entire feature is considered habitat for that species. Since compass plant was observed within RB-E2 and RB-B2 we would suggest that the full contiguous uninterrupted feature that contains compass plant would be considered candidate SWH. We discussed that perhaps the section of the RB community between Base Road and Mull Road (along the railbed) should likely be considered compass plant habitat, carried forward to the EOS (since portions of that habitat fall within 120 m of the project location) and then likely to the EIS, where any vegetation removal required to construct the cabling proposed within that feature should discuss mitigation, i.e. monitoring to ensure there are no compass plants removed during construction, etc.
- **Section 6.5, Mammals** – General locations of s-ranked bat species are depicted in Figures 3-6, 3-7 and 3-9; however, it would be helpful if this section listed the woodland communities that these habitats are contained within, i.e. provide the community identification codes.
- **Section 7.0, General** – Where a project component (i.e. cabling) is proposed within a feature, the summary statement for the turbine description should specify that the development activity is proposed in and within 120 m of the natural feature. That suggested change has been inserted, where necessary, within the attached Word document. As such, this suggested edit needs only to be accepted.
- **Section 7.0, P140** – Wetland 140-WE1 should be discussed within the P140 description of Section 7.0 for clarity, since that wetland feature occurs within 120 m of the project location.
- **Section 7.0** – Turbine no. P145 is provided in mapping and listed in Table 6a; however, it is still not discussed under the detailed turbine section (Section 6.0 Site Investigation Around Project Components). A discussion about this component and the natural features within 120 m of it must be provided.
- **Section 7.0, P165** – The comments provided for this section have still not been addressed. For P165, there is a long vegetation strip (as shown in aerial imagery) that is located within 120 m of the proposed access road. It has not been identified as a candidate animal movement corridor like all other hedgerows in the project area and as such, we requested clarification on why it was not mapped. If it no longer exists, please specify.
- **Section 7.0, P166** – The comments for this section have still not been addressed. There is a hedgerow and wooded feature (triangular shape) visible within 120 m of the proposed turbine and they appear to be connected to P166-W1 (significant woodland) and as such, we request discussion and mapping of these features if they still exist, especially because it appears as though the turbine is overlapping with the wooded feature and vegetation removal may be required.

- **Section 7.0, P173** – The comments for this section have still not been addressed. Mapping shows a wooded area within 120 m of turbine no. P173. Please provide a discussion for this woodland. If this feature was not investigated in the field, alternative site investigation (roadside observations) may be employed to meet the requirements of Section 26 of O. Reg. 359/09 as was done for other communities for which access to the land was not obtained.
- **Section 7.3, Substations** – Over the phone yesterday, we discussed the PSS substation and I requested clarification on where a substation already exists there that the cabling is connecting to. If not, and an additional substation will be constructed, or any development activity is required to upgrade the current substation, then its location should be included in mapping as part of the project location and it should be discussed with further detail within the report.
- **Section 8.0, Table 6a and 6b** – As discussed, there are a few locations highlighted in the table where additional information has been provided. We did not review the table for any other accuracy at this time but noted that some information was missed in a few rows.

If anything is missing from that summary (based on our discussion yesterday), please let me know.

Other than those additional comments, the comments provided previously on Section 6.5 Wildlife Habitat have been appropriately addressed. We also noted that the mapping for waterfowl habitat has been scaled down and the text has been revised accordingly, a discussion regarding landbird migratory stopover area has been provided, and the “other seasonal concentration areas” have also been discussed. We also note that the discussion in these sections more directly links to the criteria within the SWHTG, so we are able to confirm that the criteria has been applied appropriately.

We also noted updates to the mapping, as requested.

We still need time to have a wetland technical staff person review and approve the wetland discussion within Sections 6.2 and 7.0 and should be able to provide a response tomorrow morning. In the meantime, I will be reviewing the changes to the Evaluation of Significance report and Maryjo has been reviewing the EIS report.

If you have any questions, please feel free to give me a call.

Regards,
Heather

Heather Riddell

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Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:12 AM
To: Vukovics, Kathleen
Subject: FW: South Kent EIS - Partial MNR Comments
Attachments: 2011-07-25 Revised EIS Report South Kent - MNR Comments.doc

From: Tait, Maryjo (MNR) [<mailto:Maryjo.Tait@ontario.ca>]
Sent: Friday, July 29, 2011 4:05 PM
To: Wherry, Kathryn
Cc: Andrew Ryckman; Arnold, Kimberley; Wherry, Kathryn; Keith Knudsen; colin.edwards@patternenergy.com; m.dawson@samsungrenewableenergy.ca; Kim Sachtleben; Fleischhauer, Andrea (MNR); Riddell, Heather (MNR); Tara Lessard
Subject: South Kent EIS - Partial MNR Comments

Hi Kathryn,

The MNR has reviewed the most recent submission of the South Kent Environmental Impact Study (submitted Monday July 25th) and attached is the report with partial MNR comments inserted. We recognize there are changes to the EIS forthcoming based on the revisions to the SI/EOS, and therefore the attached includes MNR comments until the wetlands section of the EIS.

The high level comments are:

- Based on revisions to the SI/EOS, changes are required to the EIS
- More information/clarification is required regarding the construction of the project components
- More information/clarification is required regarding the specifics of the features, and the potential negative environmental effects to the significant natural features
- Comments on wetlands, significant wildlife habitat, and the remainder of the EIS will be provided next week.

Please let me know if you have any questions. Our office will be closed on Monday.

Thanks, and have a great long weekend,
Maryjo

Maryjo Tait

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Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:10 AM
To: Vukovics, Kathleen
Subject: FW: South Kent EOS Report - Remaining MNR Comments
Attachments: 2011-07-29 South Kent EOS - Remaining MNR Comments.doc

From: Riddell, Heather (MNR) [<mailto:Heather.Riddell@ontario.ca>]
Sent: Friday, July 29, 2011 12:47 PM
To: Tara Lessard
Cc: Andrew Ryckman; Arnold, Kimberley; Wherry, Kathryn; Keith Knudsen; colin.edwards@patternenergy.com; m.dawson@samsungrenewableenergy.ca; Kim Sachtleben; Tait, Maryjo (MNR); Fleischhauer, Andrea (MNR)
Subject: South Kent EOS Report - Remaining MNR Comments

Hi Tara,

We reviewed the most recent submission of the South Kent Evaluation of Significance (EOS) report (submitted Friday, July 22nd) and attached is the report with MNR comments inserted.

As we discussed over the phone today, technical staff have not yet reviewed the Wetland Sections. We will try to provide comments on those sections by Tuesday (all wetland staff are on holiday today and Monday is a civic holiday).

The comments we have inserted so far are relatively minor and as such, we don't suspect much more work is required to address them. The items that still need to be included in the EOS report based on comments on Site Investigation report include:

- Evaluation of the additional woodlands that were not yet addressed/mapped within the Site Investigation report.
- Additional evaluation of wetlands, pending consideration of site investigation wetland comments sent to NRSI yesterday.
- Updated mapping based on recent discussions and comments on the Site Investigation report.
- Clarification on community P140-W2 – please clarify if the cabling runs through that feature because current mapping shows the cabling going through the wetland P140-WE1, i.e. mapping may need to be refined to align with the text in the report (report says the cabling is adjacent to these features).

If you have any questions, feel free to give me a call.

Thanks,
Heather

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Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:10 AM
To: Vukovics, Kathleen
Subject: FW: South Kent - Additions to the Records Review Report

From: Riddell, Heather (MNR) [mailto:Heather.Riddell@ontario.ca]
Sent: Wednesday, August 03, 2011 11:20 AM
To: Tara Lessard
Cc: Andrew Ryckman (AGR); Wherry, Kathryn; Arnold, Kimberley; 335936
Subject: RE: South Kent - Additions to the Records Review Report

Hi Tara,

The MNR reviewed the South Kent Records Review report that was re-submitted on July 19, 2011 and we provide the following comments in response:

- **Section 4.0, The Crown in the Right of Canada** – This section that was recently added to the report states that records pertaining to existing studies for nearby or overlapping wind projects were obtained from Environment Canada, Canadian Wildlife Service and Natural Resources Canada; however, it does not specify the reports that were obtained from these agencies. Section 25 of O. Reg. 359/09 requires proponents to provide a summary of the records searched. As such, would it be possible to provide the names of the reports that are being referenced in this paragraph, i.e. which reports and for which projects? If that information is provided elsewhere in the report, a statement referencing different sections of the report that contain this information would suffice.
- **7.5 Other** – This section addresses our previous comments provided on the records review report.

In future, we recommend you consider the following suggestions for records review reports. These recommendations will help you provide greater clarity throughout the Natural Heritage Assessment (NHA) reporting process.

- Particular attention should be paid to the criteria within the Significant Wildlife Habitat Technical Guide, as the records review report could be the place where several types of wildlife habitat could be discussed as candidate, i.e. large woodlands (identified through Land Information Ontario wooded area layers) that occur within 5 km of the Lake Erie shoreline could be considered candidate Landbird Migratory Stopover Areas. It is also possible at this stage to rule out certain habitats types within the general project area, if those habitat types don't apply to the general area (i.e. if not within 5 km of Lake Erie, then Landbird Migratory Stopover Areas are unlikely).
- For large projects like this one, it is very helpful to map and give unique identifiers (codes like the ones you use from Site Investigation through to the EIS) to all natural features (including wildlife habitats) identified through records review. This helps us track the features throughout the NHA process.

Please give me a call if you have any questions.

Thanks,
Heather

Heather Riddell
Ministry of Natural Resources
519-773-4723

From: Tara Lessard [mailto:tlessard@nrsl.on.ca]
Sent: July 19, 2011 11:16 AM
To: Riddell, Heather (MNR)

Cc: Andrew Ryckman (AGR); Wherry, Kathryn; Arnold, Kimberley; 335936

Subject: Re: South Kent - Additions to the Records Review Report

Hi Heather,

I'm not sure if you had a chance to review the original version of the Records Review Report that I sent, including the additional information in Section 4.0 - The Crown in the Right of Canada (page 12), and Section 7.5 - Other (page 18).

To this email I have attached a new version of the report (with tracked changes) which includes a few more changes since that other version. The original version of the report that I sent had included three transmission line alternatives that were originally proposed for the project. Since the Records Review Report was submitted, a transmission line has been decided upon, so, the wording and the mapping have been updated to reflect these changes.

If these changes look appropriate, I can re-pdf the final version of the report and add it to the shareware site.

Thanks,

Tara



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On 7/14/2011 11:53 AM, Riddell, Heather (MNR) wrote:

Hi Tara,

I still need to have a quick look at the changes, which I can do first thing tomorrow so that you can finalize that report.

Cheers,

Heather

Heather Riddell

A/Planning Ecologist

MNR, Aylmer District

519-773-4723

From: Tara Lessard [<mailto:tlessard@nrsi.on.ca>]

Sent: Thu 7/14/2011 10:27 AM

To: Riddell, Heather (MNR)

Cc: Andrew Ryckman (AGR); 'Wherry, Kathryn'; 'Arnold, Kimberley'; '335936'

Subject: Re: South Kent - Additions to the Records Review Report

Hi Heather,

Can I confirm that the changes I made to the Records Review Report (described below) are suitable? And are there any additional changes that need to be made? If everything looks okay, I can pdf a final version of the

report and add it to the shareware site.

Thanks,

Tara



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www.nrsl.on.ca

On 7/5/2011 12:21 PM, Tara Lessard wrote:
Hi Heather,

As discussed, I have added a few items to the records review report: Section 4.0 - The Crown in the Right of Canada (page 12), and Section 7.5 - Other (page 18). I have attached the word version of the report for your review.

If these additions look suitable, I can re-pdf the final version of the report and add it to the shareware site.

Thanks,

Tara

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Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:12 AM
To: Vukovics, Kathleen
Subject: FW: South Kent EIS - Remaining MNR comments
Attachments: 2011-08-03 EIS Review Wetlands and SWH - MNR Comments July 25, 2011 revised EIS.doc

From: Tait, Maryjo (MNR) [<mailto:Maryjo.Tait@ontario.ca>]
Sent: Friday, August 05, 2011 2:51 PM
To: Wherry, Kathryn
Cc: Andrew Ryckman; Arnold, Kimberley; Keith Knudsen; colin.edwards@patternenergy.com; m.dawson@samsungrenewableenergy.ca; Kim Sachtleben; Fleischhauer, Andrea (MNR); Riddell, Heather (MNR); Tara Lessard; Cameron, Amy (MNR); Tait, Maryjo (MNR)
Subject: South Kent EIS - Remaining MNR comments

Hi Kathryn,

The MNR has reviewed the most recent submission of the South Kent Environmental Impact Study (submitted Monday July 25th) and attached is the report with the remainder of the MNR comments inserted, on the wildlife habitat section of the EIS.

The high level comments are:

- Some items from the SI/EOS have changed/been added, so the EIS requires revisions to account for those changes.
- Clarification is required on the distances between project components and the significant natural features – specifically the report should clearly identify when project components are proposed “in” features and when they are proposed “within 120 m” of features. Feature-specific mitigation needs to be identified (i.e. for open country bird breeding habitat north of Campbell line, a 5.5 m ROW will be through the feature, which will include the entire construction footprint, and the proposed access road and cabling. Heavy machinery will not travel outside of the ROW during construction, operation, or decommissioning. The edges of the 5.5 m ROW will be fenced with silt fencing, which will be monitored daily during construction, and remain in place until...etc.)
- Clarification is required on some of the details of the preconstruction surveying and post construction behavioural monitoring for habitats where a turbine is proposed within 120 metres (bat and bird habitat).
- More information/clarification is required regarding the specifics of the features, and the potential negative environmental effects to the significant natural features
- Overall – the language needs to be firmed up, and the specific mitigation needs to be clarified. For example, this includes removal of phrases such as “where possible” and “if required.”

As feature specific and site specific mitigation is not provided in the EIS, and due to the mapping and text it is unclear as to which project components are proposed within or within 120 metres of which features, the MNR may have additional comments on the mitigation proposed for all significant natural features. When more details have been incorporated into the EIS, we will be able to provide a more focused review of the specific mitigation measures proposed.

Please let me know if you have any questions.

Thanks, and have a great day,
Maryjo

Maryjo Tait

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email: maryjo.tait@ontario.ca

Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:11 AM
To: Vukovics, Kathleen
Subject: FW: South Kent - Wetland Pictures

From: Riddell, Heather (MNR) [mailto:Heather.Riddell@ontario.ca]
Sent: Monday, August 08, 2011 10:59 AM
To: Tara Lessard
Cc: Andrew Ryckman (AGR); Wherry, Kathryn; Arnold, Kimberley; Carson, Lisa; 335936
Subject: RE: South Kent - Wetland Pictures

Hi Tara,

Thank you for providing us with the updated version of the South Kent Evaluation of Significance report. The only additional comments we have regarding wetlands are as follows:

- Section 5.2 needs to be updated to include the added wetland as this section currently mentions that there are only two wetlands identified within 120 m of project components and there are now five identified wetlands within 120 m of the project location.
- Table 10 – Under the Flood Attenuation row for P111-WE1 it still states that the wetland is Riverine; however, under Site Type it is identified as Palustrine. As such, the Flood Attenuation row needs to be revised.
- In the species rarity row it is indicated that there is significant habitat for S-ranked bat species for two of the wetland communities. The table should identify the species and its status (i.e. SC).

We have no additional comments regarding wetlands and look forward to receiving the updated mapping and potential revisions to the report that may come with that mapping.

Thanks,
Heather

Heather Riddell
Ministry of Natural Resources
519-773-4723

From: Tara Lessard [mailto:tlessard@nrsl.on.ca]
Sent: August 4, 2011 3:02 PM
To: Riddell, Heather (MNR)
Cc: Andrew Ryckman (AGR); Wherry, Kathryn; Arnold, Kimberley; Carson, Lisa; 335936
Subject: Re: South Kent - Wetland Pictures

Hi Heather,

The Evaluation of Significance Report has been re-uploaded to the shareware site. This revised version includes the additional wetland information that we discussed. Some of the distance from Project components may need to be refined based on the revised layout mapping (i.e. with the changes to the cabling route and the substation locations).

Please let me know if you have any questions. Thanks,

Tara



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(f) 519.725.2575
(e) tlessard@nrsi.on.ca
www.nrsi.on.ca

On 8/3/2011 2:04 PM, Tara Lessard wrote:
Hi Heather,

Yes, the mapping will be refined to show the precise locations of project components and their distances from natural features. The above ground cabling route won't be going through wetlands/woodlands, and the mapping will reflect this.

Thanks,

Tara



Tara Lessard, B.Sc.
Terrestrial & Wetland Biologist
Natural Resource Solutions Inc.
225 Labrador Drive, Unit 1
Waterloo, ON, N2K 4M8
(p) 519.725.2227
(f) 519.725.2575
(e) tlessard@nrsi.on.ca
www.nrsi.on.ca

On 8/3/2011 11:29 AM, Riddell, Heather (MNR) wrote:
Hi Tara,

Will the mapping also be refined to show the precise locations of project components and their distances from natural features? As we discussed, some areas show cabling going through natural features (including a wetland) when they are reported (in text) to be adjacent to those features.

Thanks,
Heather

Heather Riddell
Ministry of Natural Resources
519-773-4723

From: Tara Lessard [<mailto:tlessard@nrsi.on.ca>]
Sent: August 3, 2011 9:44 AM
To: Riddell, Heather (MNR)
Cc: Andrew Ryckman (AGR); Wherry, Kathryn; Arnold, Kimberley; Carson, Lisa; 335936
Subject: [Possible SPAM]:Re: South Kent - Wetland Pictures

Hi Heather,

We incorporated the changes into the wetland section of the Site Investigation Report and I uploaded the

revised report to the shareware site for your review.

The mapping will also be updated to include the additional wetland boundaries that we spoke about yesterday (i.e. calling P014-W1 a wetland in its entirety, and using MNR mapped boundaries for P014-W2 and P108-W1). Once the maps have been revised, I will upload them to the shareware site as well.

Thanks,

Tara



Tara Lessard, B.Sc.
Terrestrial & Wetland Biologist
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(e) tlessard@nrsl.on.ca
www.nrsl.on.ca

On 8/3/2011 9:09 AM, Riddell, Heather (MNR) wrote:
[Thanks Tara.](#)

[Cheers,](#)
[Heather](#)

Heather Riddell
Ministry of Natural Resources
519-773-4723

From: Tara Lessard [<mailto:tlessard@nrsl.on.ca>]
Sent: August 2, 2011 3:47 PM
To: Riddell, Heather (MNR)
Cc: Andrew Ryckman (AGR); 'Wherry, Kathryn'; 'Arnold, Kimberley'; 'Carson, Lisa'; '335936'
Subject: Re: South Kent - Wetland Pictures

Hi Heather,

Thank you for your comments. As per our phone discussion, we will revise the wording in the SIR and the EOS and we will update the wetland boundary mapping accordingly.

Tara



Tara Lessard, B.Sc.
Terrestrial & Wetland Biologist
Natural Resource Solutions Inc.
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(e) tlessard@nrsl.on.ca
www.nrsl.on.ca

On 8/2/2011 2:43 PM, Riddell, Heather (MNR) wrote:
Hi Tara,

Wetland technical staff had a look at the photos and here is the response.

South Kent Wetland Comments – Based on photos provided on July 29, 2011

P014-W1 – A portion of the woodlot does appear to be higher and drier such as in photos 3, 7, and 8 which show drier species such as buckthorn. However some of the other photos appear to be wet and there is mention in the site investigation report of vernal pools and seasonal flooding in this woodlot which would justify some sort of wetland inclusion. Upon a closer look at the photos it appears that the south-west of the woodlot could be drier than the north-east section.

P014-W2 – The photo set for this woodland shows that it was probably pastured extensively in the past which would cause an initial re-colonization of the groundcover layer by invasive or advantageous species. However, almost all the photos in the set show wetland species. Specifically photo 4 shows ash trees, sedges and bare soil (which indicates seasonal flooding as it's an area too wet for most plants to germinate and grow). Similarly photo 7 shows a very similar habitat type as in photo 4 along with some Silver Maple. In addition, photo 2 shows a sedge/grass area that appears to be very wet based on the surrounding silver maples. The pond that was initially mapped by the consultants as being wetland is a dug pond and probably a water source for whatever animals were pastured in the woodlot historically. Special consideration is given to these ponds if the wetland vegetation is there and if the feature functions as a wetland by storing water and slowly releasing it or if it is an area where breeding amphibians congregate or it provides some other significant biological function. Based on the photos, the mapping we provided is probably incorrect and underestimated as the retiring and succession of the property has caused it to become more obviously wet floristically.

P108-W1 - Although it may not appear as being a wetland, most of the photos here would suggest a wetland inclusion should be considered. As a reminder, the coefficients of wetness for the following species are: poison ivy (-1), jack-in-the-pulpit (-2), jewelweed or spotted touch me not (-3), silver maple (-3), green ash (-3). It is agreed that some of the photos show drier conditions based on the species present such as in photo 5. However, although the density of vegetation would indicate that if there is seasonal flooding here that it would not exist to a period of time that plant species could not successfully germinate, but many of the species in the photos have an affinity for higher levels of soil moisture which indicate the presence of Wetland. If the photos of the aforementioned species in this community were taken in the southerly portion of the woodlot where the inclusion was mapped then there is no need to adjust the boundaries. If however, much of the woodlot represents a combination of wet species then the inclusion should be expanded regardless if the mapped boundary falls within the 120m setback.

P140-W2 – Agreed that the balance of this woodlot is wet and agree with the consultants boundaries.

Give me a call anytime this afternoon so we can chat about this.

Thanks,
Heather

Heather Riddell
Ministry of Natural Resources
519-773-4723

Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:11 AM
To: Vukovics, Kathleen
Subject: FW: South Kent Mapping - Woodlands

From: Riddell, Heather (MNR) [<mailto:Heather.Riddell@ontario.ca>]
Sent: Friday, August 19, 2011 11:37 AM
To: Wherry, Kathryn; Andrew Ryckman; Arnold, Kimberley; Keith Knudsen; colin.edwards@patternenergy.com; m.dawson@samsungrenewableenergy.ca; Kim Sachtleben; Tara Lessard
Cc: Cameron, Amy (MNR); Fleischhauer, Andrea (MNR); Tait, Maryjo (MNR)
Subject: South Kent Mapping - Woodlands

Hi Everyone,

As discussed yesterday, below is a list of woodlands that require clarification based on current mapping. We have also provided snapshots of the mapping that we are currently using based on recent shapefiles provided by NRSI.

We request clarification in the report on whether the components are actually proposed within these features or if this is a current error in mapping:

- P002-W1
- P007-W1
- P011-W1
- P022-W1
- P027-W1
- P055-W1
- P077-W1
- P103-W4
- P114-W1
- P140-W2
- P162-W1

In some cases, for the following features, the EIS acknowledges that the components are proposed within these features, but we wanted to identify them and request clarification on them to be sure:

- P007-W1
- P022-W1
- P077-W1
- P114-W1

These woodlands may be directly impacted based on discussion in the EIS (may or may not require edge vegetation removal, pending further clarification based on yesterday's discussion):

- P007-W1
- P014-W2
- P022-W1
- P077-W1
- P114-W1
- P139-W1
- P140-W2
- CLA-W2

Please note that we have not yet looked at the SWH woodlands to determine if any of those woodlands have the project location proposed within them.

If you have any questions, please feel free to give me a call.

Thanks,
Heather

P002-W1



P005-W1 – Acknowledge that the cabling does not occur within any significant natural features; however, is the cabling supposed to be closer to Mull Road?



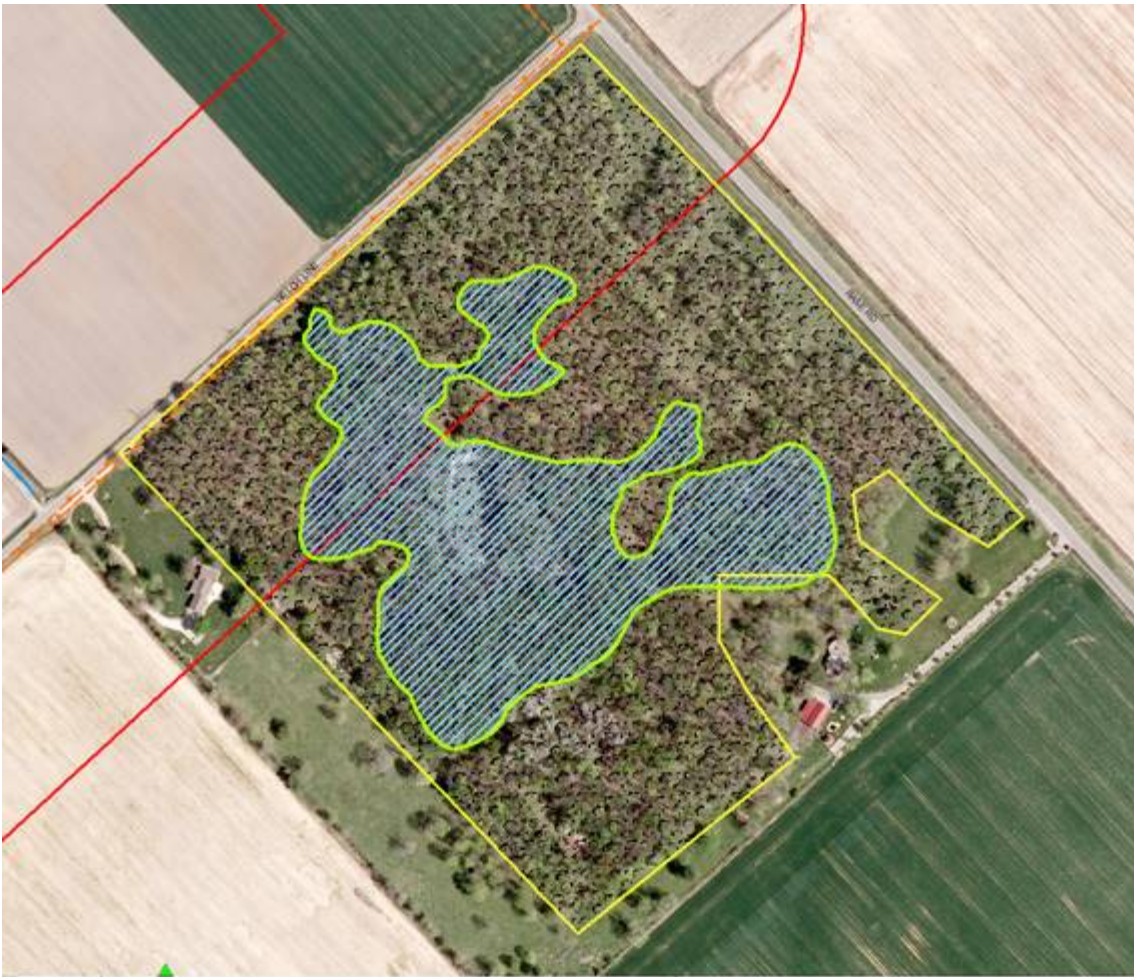
P007-W1 – cabling appears to go through the feature



P011-W1 – cabling appears to be in the feature



P014-W



P022-W1 – cabling and road



P027-W1



P055-W1



P077-W1



P103-W4



P114-W1



P139-W1



P140-W2



P162-W1



CLA-W2



Heather Riddell

A/ Planning Ecologist, Renewable Energy
Ministry of Natural Resources
Aylmer District
615 John Street N
Aylmer, ON N5H 2S8

(p) 519-773-4723

(f) 519-773-9014

Email: heather.riddell@ontario.ca

Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:11 AM
To: Vukovics, Kathleen
Subject: FW: South Kent - Landowner Contact and Alternative Site Investigation Summary

From: Riddell, Heather (MNR) [<mailto:Heather.Riddell@ontario.ca>]
Sent: Friday, August 19, 2011 1:36 PM
To: Tara Lessard
Cc: Andrew Ryckman (AGR); Wherry, Kathryn; Arnold, Kimberley; 335936; Keith Knudsen; Fleischhauer, Andrea (MNR)
Subject: RE: South Kent - Landowner Contact and Alternative Site Investigation Summary

Hi Tara,

Thanks for providing this information. We have reviewed it and based on the explanations provided consider your reasoning/circumstances for using alternative site investigation appropriate.

However, we do request a few more details for our records. The following are the six explanations that were provided in your summary and in red is the additional information we are requesting.

1. Site investigation occurred prior to the REA regulation amendment, which specifies that proper documentation of landowner contact is required. – We request more specific information about dates for field work and why physical site investigation could not be used in the first place in these instances.
2. Timing and integrity of the field work in 2010 required site visits to occur prior to confirming site access. Access was subsequently gained in early 2011. – We request more specific information about why the timing did not work out, i.e. "land acquisition was obtained on [insert date] and field work needed to be completed on [insert date] to capture information during the appropriate season."
3. Timing of field work in 2010 did not allow us to take the time to contact landowners. – We request further details about when field work was required and why there was no time to gain landowner access.
4. At the time of site investigation, the landowners were associated with an acquisition property. Because of this, the South Kent Wind Farm was prohibited from calling these landowners until the acquisitions closed. – We request more detail about the timing of acquisitions in association with the seasonality of fieldwork.
5. Landowner refused access to the property. – No additional information is required.
6. No contact information could be obtained for this landowner. – We request more detail regarding the process that was followed to obtain information and why it could not be obtained.

Please note that we will not refrain from issuing MNR confirmation on the NHA/EIS should the current updates to the EIS report be completed and approved prior to providing the above information. We would simply like this information for our records as soon as possible, in case it is needed for future reference.

Best Regards,

Heather

Heather Riddell
Ministry of Natural Resources
519-773-4723

From: Tara Lessard [<mailto:tlessard@nrsl.on.ca>]
Sent: August 11, 2011 4:02 PM
To: Riddell, Heather (MNR)
Cc: Andrew Ryckman (AGR); 'Wherry, Kathryn'; 'Arnold, Kimberley'; '335936'; Keith Knudsen
Subject: South Kent - Landowner Contact and Alternative Site Investigation Summary

Hi Heather,

As requested, here is the South Kent landowner contact and alternative site investigation summary for your files. I trust this document will meet your requirements.

Please let me know if you have any questions or comments.

Thanks,

Tara

--



Tara Lessard, B.Sc.
Terrestrial & Wetland Biologist
Natural Resource Solutions Inc.
225 Labrador Drive, Unit 1
Waterloo, ON, N2K 4M8
(p) 519.725.2227
(f) 519.725.2575
(e) tlessard@nrsl.on.ca
www.nrsl.on.ca

Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:13 AM
To: Vukovics, Kathleen
Subject: FW: Revised South Kent EIS (August 25, 2011) - MNR Comments

From: Tait, Maryjo (MNR) [<mailto:Maryjo.Tait@ontario.ca>]
Sent: Wednesday, August 31, 2011 5:51 PM
To: Wherry, Kathryn
Cc: Andrew Ryckman; Arnold, Kimberley; Keith Knudsen; colin.edwards@patternenergy.com; m.dawson@samsungrenewableenergy.ca; Kim Sachtleben; Fleischhauer, Andrea (MNR); Riddell, Heather (MNR); Tara Lessard; Cameron, Amy (MNR); Tait, Maryjo (MNR)
Subject: RE: Revised South Kent EIS (August 25, 2011) - MNR Comments

Hi Kathryn,

Thank you for submitting the revised EIS.

As Heather was reviewing the most recent versions of the SI and EOS, it was noted there are a few changes coming forward that will impact the EIS.

As well, in reviewing the EOS, we picked up on some of the S1 – S3 species habitat that were not included in the EIS.

Specifically, on page 116, of the EoS report, P042-W1 and P108-W1 have not been discussed under the S1 –S3 section in the EIS. These features must be identified in the EIS under SWH S1- S3 species habitat, as they are within 120 metres of turbines, and are two features that require pre-construction monitoring.

Please let me know if you have any questions.

Thanks,
Maryjo

Maryjo Tait
Renewable Energy Assistant Planner
MNR Aylmer District

From: Wherry, Kathryn [<mailto:KWherry@hatch.ca>]
Sent: August 31, 2011 5:44 PM
To: Tait, Maryjo (MNR)
Cc: Andrew Ryckman; Arnold, Kimberley; Keith Knudsen; colin.edwards@patternenergy.com; m.dawson@samsungrenewableenergy.ca; Kim Sachtleben; Fleischhauer, Andrea (MNR); Riddell, Heather (MNR); Tara Lessard; Cameron, Amy (MNR)
Subject: RE: Revised South Kent EIS (August 25, 2011) - MNR Comments

Hi Maryjo,

Please find attached the revised EIS - the tracked changes version and the clean version for your review . The EIS still requires formatting and this will be completed in the morning.

Thanks,

Kathryn

From: Tait, Maryjo (MNR) [<mailto:Maryjo.Tait@ontario.ca>]
Sent: Wednesday, August 31, 2011 3:37 PM
To: Wherry, Kathryn
Cc: Andrew Ryckman; Arnold, Kimberley; Keith Knudsen; colin.edwards@patternenergy.com;
m.dawson@samsungrenewableenergy.ca; Kim Sachtleben; Fleischhauer, Andrea (MNR); Riddell, Heather (MNR); Tara Lessard; Cameron, Amy (MNR); Tait, Maryjo (MNR)
Subject: Revised South Kent EIS (August 25, 2011) - MNR Comments

Hi Kathryn,

The MNR has reviewed the revised EIS that was submitted on August 25, 2011, and has provided comments in the attached.

The final comments are relatively minor, and therefore once the changes have been made, it is expected the next review should be the final review of the EIS.

Please let myself or Heather know if you have any questions.

Thanks, and have a great afternoon,

Maryjo

Maryjo Tait

Renewable Energy Assistant Planner – Aylmer District
Ministry of Natural Resources
615 John Street North
Aylmer, ON N5H 2S8
Phone: (519) 773-4786
email: maryjo.tait@ontario.ca

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Carson, Lisa

From: Wherry, Kathryn
Sent: Tuesday, September 27, 2011 11:11 AM
To: Vukovics, Kathleen
Subject: FW: Comments on SI and EOS Report, and SI mapping

From: Riddell, Heather (MNR) [<mailto:Heather.Riddell@ontario.ca>]
Sent: Thursday, September 01, 2011 10:41 AM
To: Tara Lessard
Cc: Andrew Ryckman; Arnold, Kimberley; Keith Knudsen; colin.edwards@patternenergy.com; Kim Sachtleben; Fleischhauer, Andrea (MNR); Cameron, Amy (MNR); Tait, Maryjo (MNR); Wherry, Kathryn
Subject: RE: Comments on SI and EOS Report, and SI mapping

Hi Tara,

We reviewed the Evaluation of Significance Microsite Maps provided in the Appendices, against Table 12a and have the following comments:

- P014-WE1 – table says it's 11 m from components; however, in mapping it appears “adjacent”/“immediately adjacent”
- P024-W1 – does not appear to be 41 m from cabling as identified in the table; looks immediately adjacent
- P108-W1 – P035-WE1 label needs to be removed and P108-W1 label does not appear on the map
- P091-W1 – does not appear to be labelled on the Microsite Map
- P092-W1 – not labelled
- P102-W2 – not labelled
- P022-W1 – the access road also crosses this feature, so it should read “in underground cabling and access road” in the table
- P162-W1 – switch appears to be “in” the feature
- P162-W2 – this feature has not been provided as a Microsite Site map
- P166 – the table should show habitat for S1-S3 bat species in the table and the feature needs to be labelled in Microsite Mapping (as seen on 116-W1 mapping)
 - Also, construction area is “in” it – should appear as such in Table 12a
- P053-W2 – not provided as a Microsite Map

We do not have any additional comments on these reports. Our expectation is that if you are able to make these revisions to the reports and mapping and ensure consistent changes between the SI, EOS and EIS reports, then we should be ready to provide confirmation. We will start that process concurrently, while you and Hatch makes changes.

If you have any questions, please send me an email (I will be on a conference call for the remainder of the morning and early afternoon).

Thanks,
Heather

Heather Riddell
Ministry of Natural Resources
519-773-4723

From: Riddell, Heather (MNR)
Sent: August 31, 2011 6:14 PM
To: 'Tara Lessard'
Cc: 'Andrew Ryckman'; 'Arnold, Kimberley'; 'Keith Knudsen'; colin.edwards@patternenergy.com; 'Kim Sachtleben'; Fleischhauer, Andrea (MNR); Cameron, Amy (MNR); Tait, Maryjo (MNR); 'Wherry, Kathryn'
Subject: Comments on SI and EOS Report, and SI mapping

Hi Tara,

The MNR reviewed the most recent submissions of the South Kent Site Investigation (SI) report, most of the Evaluation of Significance (EOS) report (excepting Table 12a) and Site Investigation mapping (note: we have not reviewed the EOS mapping). We provide the following comments as a summary and in addition to our discussion over the phone this afternoon:

In reference to Table 6a vs. Microsite Maps in Appendix of the SI report:

- Turbine P060 is in P060-H5 and P060-D1, as opposed to immediately adjacent
- Underground cabling is in RB-F3, as opposed to immediately adjacent
- P077-W1 – please confirm that this is not significant habitat for S1-S3 ranked bat species (and consider clarifying this in text of the EOS) as discussed.
- P120 – mapping labels need to be revised as discussed re: P108-WE1, etc.
- P125 – RB-F3 is immediately adjacent to turbine construction area
- P149 – Turbine and construction area is in P177-D1
- P152 – P102-W1 is immediately adjacent to construction area for Turbine P152
- P154 – P154 is in P080-H5
- P162 – switch is in P162-W1 (and its associated habitat)

In addition to these comments:

- We have noted the changes to use of the terminology “adjacent” and “immediately adjacent” to be consistent with the EIS report.
- We have noted the edits to the wetland sections of the SI and EOS report and accept the changes.

We would still like to double-check the EOS mapping against the Table 12a summary as we have done for the Site Investigation report. We should be able to complete that by 10:00 am tomorrow morning.

If you have any questions, please give me a call. I will be on a conference call from 10:00 am to 2:00 pm tomorrow, but I will check email periodically and respond ASAP.

Regards,
Heather

Heather Riddell

A/ Planning Ecologist, Renewable Energy
Ministry of Natural Resources
Aylmer District
615 John Street N
Aylmer, ON N5H 2S8

(p) 519-773-4723

(f) 519-773-9014

Email: heather.riddell@ontario.ca

**Ministry of
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**Ministère des
Richesses naturelles**
615, rue John Nord
Aylmer ON N5H 2S8
Tél: 519-773-9241
Téléc: 519-773-9014



September 2, 2011

Attn: Kim Sachtleben
Development and Market Analysis Manager
Pattern Energy
100 Simcoe Street, Ste. 105
Toronto, ON M5H 3G2

RE: NHA and EIS Confirmation for South Kent Wind Project

Dear Ms. Sachtleben,

In accordance with the Ministry of the Environment's (MOE's) Renewable Energy Approvals (REA) Regulation (O.Reg.359/09), the Ministry of Natural Resources (MNR) has reviewed the natural heritage assessment and environmental impact study for South Kent Wind Project in the Municipality of Chatham-Kent submitted by Samsung Renewable Energy Inc. and Pattern Energy on September 2, 2011.

In accordance with Section 28(2) and 38(2)(b) of the REA regulation, MNR provides the following confirmations following review of the natural heritage assessment (NHA):

1. The MNR confirms that the determination of the existence of natural features and the boundaries of natural features was made using applicable evaluation criteria or procedures established or accepted by MNR.
2. The MNR confirms that the site investigation and records review were conducted using applicable evaluation criteria or procedures established or accepted by MNR, if no natural features were identified.
3. The MNR confirms that the evaluation of the significance or provincial significance of the natural features was conducted using applicable evaluation criteria or procedures established or accepted by MNR (if required).
4. The MNR confirms that the project location is not in a provincial park or conservation reserve.
5. The MNR confirms that the environmental impact assessment report has been prepared in accordance with procedures established by the MNR.

In addition to the NHA, Environmental Effects Monitoring Plans that address post-construction monitoring and mitigation for birds and bats must be prepared and implemented. It is recommended that post-construction monitoring plans be prepared in accordance with MNR Guidelines and be reviewed by MNR in advance of submitting a REA application to MOE in order to minimize potential delays in determining if the application is complete.

This confirmation letter is valid for the project as proposed in the NHA and environmental impact study, including those sections describing the Environmental Effects Monitoring Plan

and Construction Plan Report. Should any changes be made to the proposed project that would alter the NHA, MNR may need to undertake additional review of the NHA.


Where specific commitments have been made by the applicant in the NHA with respect to project design, construction, rehabilitation, operation, mitigation, or monitoring, MNR expects that these commitments will be considered in MOE's Renewable Energy Approval decision and, if approved, be implemented by the applicant.

In accordance with S.12 (1) of the Renewable Energy Approvals Regulation, this letter must be included as part of your application submitted to the MOE for a Renewable Energy Approval.

Please be aware that your project may be subject to additional legislative approvals as outlined in the Ministry of Natural Resources' *Approvals and Permitting Requirements Document*. These approvals are required prior to the construction of your renewable energy facility.

If you wish to discuss any part of this confirmation, please contact Heather Riddell, Acting Renewable Energy Planning Ecologist at 519-773-4723 or heather.riddell@ontario.ca.

Sincerely,


for Mitch Wilson
District Manager
Aylmer District MNR

cc. Jim Beal, Renewable Energy Provincial Field Program Coordinator, Regional Operations Division, MNR
Narren Santos, Environmental Assessment and Approvals Branch, MOE
Andrea Fleischhauer, Acting Southern Region Renewable Energy Coordinator, MNR
KC Kim, General Manager, Samsung Renewable Energy Inc.
Kim Arnold, Environmental Lead – Energy, Hatch
Tara Lessard, Terrestrial and Wetland Biologist, Natural Resources Solutions Inc.

Agency Correspondence – MOE

August 27, 2010

Doris Dumais
Director, Approvals Program
Ministry of the Environment
Environmental Assessment and Approvals Branch
12A Floor
2 St. Clair Ave West
Toronto, ON
M4V 1L5

Dear Ms. Dumais:

**Subject: Project Description Report
South Kent Wind Project**

On behalf of Pattern Wind Energy Development Inc., please find enclosed the Project Description Report for the South Kent Wind Project. The Project Description Report has been prepared in accordance with Sections 13 and 14(1)(a) of Ontario Regulation 359/09 and MOE's draft Guidance for Preparing the Project Description Report.

As per Section 14(1)(b) of Ontario Regulation 359/09, we look forward to receiving from you the list of Aboriginal communities that we will consult with on each project. We are in the process of commencing the Public and Aboriginal consultation by sending Notices of a Proposal and of First Public Meeting and as such require the list of Aboriginal communities as soon as possible to not impact project timelines.

If you have any questions, please do not hesitate to contact the undersigned at 905-374-5200, ext. 5318 or karnold@hatch.ca.

Sincerely,

A handwritten signature in black ink, appearing to read "K. Arnold", with a stylized flourish at the end.

Kimberley Arnold, B.Sc., M.E.S.
Manager, Environmental Services, Renewable Power

Enclosure

cc: K. Sachtleben, Pattern Energy Group
K. Knudsen, Bowark Energy Ltd.
M. Dawson, Samsung Renewable Energy Inc.

October 19, 2010

Doris Dumais, Director, Environmental Assessment and Approvals Branch
2 St. Clair Ave., W, 12A Floor
Toronto, On
M4V 1L5

Dear Ms. Dumais:

**Subject: Notice of a Proposal and Notice of Public Meeting
Samsung Renewable Energy Inc. and Pattern Energy – South Kent Wind Project**

Samsung Renewable Energy Inc. and Pattern Energy (hereinafter referred to as the “Proponent”) are proposing to construct a wind project in the Municipality of Chatham Kent, south of Highway 401, between the towns of Tilbury and Ridgetown. The proposed project is named the South Kent Wind Project (the “Project”) and will have an installed nominal capacity of 270 MW.

This proposed Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario Environmental Protection Act Part V.0.1 and Ontario Regulation 359/09. Hatch Ltd. (Hatch) has been retained to assist the Proponent in meeting the REA requirements.

The Proponent is undertaking a public consultation program in support of the Project and we would like to invite you to the upcoming Public Meeting. Please find attached a “Notice of a Proposal to Engage in a Renewable Energy Project and Notice of Public Meeting”, which details the time and date of the planned meeting. This Notice will be published in the Chatham Daily News on October 21, 2010 and October 28, 2010. The Public Meeting will provide the public with an opportunity to learn more about the proposed Project and the Proponent.

In accordance with Section 16 (3) of Ontario Regulation 359/09, a “Draft Project Description Report” and associated information pertaining to this Project and the Proponent may be found online at: www.southkentwind.ca. Additionally, a copy of the “Draft Project Description Report” is available at the Chatham-Kent municipal office for your review. We would appreciate any comments, queries or information you may have that are relevant to the proposed Project.

October 15, 2010

Please direct any correspondence to:

Kimberley Arnold, BSc, MES
Manager - Environmental Services, Renewable Power
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5318
Fax: 905-374-1157
Email: karnold@hatch.ca

Yours truly,

A handwritten signature in black ink, appearing to be "K. Arnold", written over a faint circular stamp.

Kimberley Arnold, B.Sc., M.E.S

Manager, Environmental Services, Renewable Power
REA Coordinator
MG:lc

Attachment: Notice of a Proposal/Notice of Public Meeting: South Kent Wind Project

cc Keith Knudson, Bowark
Beth O'Brien, Pattern
Kim Sachtleben, Pattern
Marnie Dawson, Samsung
Brian Edwards, Samsung

October 19, 2010

Doug McDougall, Area Supervisor for Windsor, Ministry of the Environment
4510 Rhodes Drive, Unit 620
Windsor, On
N8W 5K5

Dear Mr. McDougall:

**Subject: Notice of a Proposal and Notice of Public Meeting
Samsung Renewable Energy Inc. and Pattern Energy – South Kent Wind Project**

Samsung Renewable Energy Inc. and Pattern Energy (hereinafter referred to as the “Proponent”) are proposing to construct a wind project in the Municipality of Chatham Kent, south of Highway 401, between the towns of Tilbury and Ridgetown. The proposed project is named the South Kent Wind Project (the “Project”) and will have an installed nominal capacity of 270 MW.

This proposed Project requires a Renewable Energy Approval (REA) issued in accordance with the provisions of the Ontario Environmental Protection Act Part V.0.1 and Ontario Regulation 359/09. Hatch Ltd. (Hatch) has been retained to assist the Proponent in meeting the REA requirements.

The Proponent is undertaking a public consultation program in support of the Project and we would like to invite you to the upcoming Public Meeting. Please find attached a “Notice of a Proposal to Engage in a Renewable Energy Project and Notice of Public Meeting”, which details the time and date of the planned meeting. This Notice will be published in the Chatham Daily News on October 21, 2010 and October 28, 2010. The Public Meeting will provide the public with an opportunity to learn more about the proposed Project and the Proponent.

In accordance with Section 16 (3) of Ontario Regulation 359/09, a “Draft Project Description Report” and associated information pertaining to this Project and the Proponent may be found online at: www.southkentwind.ca. Additionally, a copy of the “Draft Project Description Report” is available at the Chatham-Kent municipal office for your review. We would appreciate any comments, queries or information you may have that are relevant to the proposed Project.

October 15, 2010

Please direct any correspondence to:

Kimberley Arnold, BSc, MES
Manager - Environmental Services, Renewable Power
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5318
Fax: 905-374-1157
Email: karnold@hatch.ca

Yours truly,

A handwritten signature in black ink, appearing to be "K. Arnold", written over a faint circular stamp.

Kimberley Arnold, B.Sc., M.E.S

Manager, Environmental Services, Renewable Power
REA Coordinator
MG:lc

Attachment: Notice of a Proposal/Notice of Public Meeting: South Kent Wind Project

cc Keith Knudson, Bowark
Beth O'Brien, Pattern
Kim Sachtleben, Pattern
Marnie Dawson, Samsung
Brian Edwards, Samsung

July 21, 2011

Doris Dumais
Director, Environmental Assessment and Approvals Branch
2 St. Clair Ave., W, 12A Floor
TORONTO ON M4V 1L5

**Subject: Notice of Final Public Meeting
Samsung Renewable Energy Inc and Pattern Energy: South Kent Wind Project**

Samsung Renewable Energy Inc and Pattern Energy (hereinafter referred to as the "Proponent"), are proposing to construct a wind project within the Municipality of Chatham-Kent. The proposed project is named the South Kent Wind Project (the "Project") and will have an installed nominal capacity of up to 270 MW. This Project requires a Renewable Energy Approval ("REA") issued in accordance with the provisions of the Ontario *Environmental Protection Act*, Part V.0.1 and Ontario Regulation 359/09 (as amended under O. Reg. 521/10 (January 2011)). Hatch Ltd. ("Hatch") has been retained to assist in meeting the REA requirements.

The Proponent is providing you with this notice to make you aware of the upcoming Public Meeting where you can learn more about this Project and the Proponents.

In accordance with Section 15 of O. Reg. 359/09, a Notice of Public Meeting has been prepared and a copy is enclosed. The Notice will be posted in *The Chatham Daily* on Monday, July 25, 2011 and again on Monday, August 22, 2011.

As per Section 17 (1) of O. Reg. 359/09, the draft copies of the supporting documents for the Project, including the Natural Heritage Assessment Reports, Water Body Assessment Reports, Construction Plan Report, Design and Operations Report, Decommissioning Plan Report, Noise Assessment Study, Wind Turbine Specifications Report and Stage 1 and 2 Archaeology Assessment Report are available for public review on-line at: www.southkentwind.com. Hardcopies of the supporting documents for the Project are also available at:

Tilbury Library
2 Queen Street
Tilbury ON

Blenheim Library
16 George Street
Blenheim ON

Municipality of Chatham-Kent Civic Centre
315 King Street West,
Chatham, ON

South Kent Wind Project
c/o Pattern Energy
57 Talbot St. W
Blenheim, ON

The information provided in these reports will be discussed during the Final Public Meeting on Saturday September 24, 2011 from 2:00 pm until 5:00 pm at Tilbury Memorial Arena, Ryder Hall, 55 Bond Street,

July 21, 2011

Tilbury, Ontario. Your comments, queries or information relevant to the proposed Project would be greatly appreciated. Comments will be accepted until Saturday, September 24, 2011.

Correspondence should be directed to:

Kimberley Arnold, BSc, MES
Manager - Environmental Services, Renewable Power
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5318
Fax: 905-374-1157
Email: karnold@hatch.ca

Yours truly,

A handwritten signature in black ink, appearing to be "KA", written over a faint circular stamp.

Kimberley Arnold, BSc, MES
ka:mg
Attachment – Notice of Final Public Meeting – South Kent Wind Project
cc: K. Sachtleben, Pattern Energy

July 21, 2011

Doug McDougall
Area Supervisor for Windsor, Ministry of the Environment
4510 Rhodes Drive, Unit 620
WINDSOR ON N8W 5K5

**Subject: Notice of Final Public Meeting
Samsung Renewable Energy Inc and Pattern Energy: South Kent Wind Project**

Samsung Renewable Energy Inc and Pattern Energy (hereinafter referred to as the "Proponent"), are proposing to construct a wind project within the Municipality of Chatham-Kent. The proposed project is named the South Kent Wind Project (the "Project") and will have an installed nominal capacity of up to 270 MW. This Project requires a Renewable Energy Approval ("REA") issued in accordance with the provisions of the Ontario *Environmental Protection Act*, Part V.0.1 and Ontario Regulation 359/09 (as amended under O. Reg. 521/10 (January 2011)). Hatch Ltd. ("Hatch") has been retained to assist in meeting the REA requirements.

The Proponent is providing you with this notice to make you aware of the upcoming Public Meeting where you can learn more about this Project and the Proponents.

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Tilbury Library
2 Queen Street
Tilbury ON

Blenheim Library
16 George Street
Blenheim ON

Municipality of Chatham-Kent Civic Centre
315 King Street West,
Chatham, ON

South Kent Wind Project
c/o Pattern Energy
57 Talbot St. W
Blenheim, ON

The information provided in these reports will be discussed during the Final Public Meeting on Saturday September 24, 2011 from 2:00 pm until 5:00 pm at Tilbury Memorial Arena, Ryder Hall, 55 Bond Street,

July 21, 2011

Tilbury, Ontario. Your comments, queries or information relevant to the proposed Project would be greatly appreciated. Comments will be accepted until Saturday, September 24, 2011.

Correspondence should be directed to:

Kimberley Arnold, BSc, MES
Manager - Environmental Services, Renewable Power
Hatch Ltd.
4342 Queen St., Suite 500
Niagara Falls, ON, L2E 7J7
Phone: 905-374-0701, Ext 5318
Fax: 905-374-1157
Email: karnold@hatch.ca

Yours truly,

A handwritten signature in black ink, appearing to be "KA", written over a faint circular stamp.

Kimberley Arnold, BSc, MES
ka:mg
Attachment – Notice of Final Public Meeting – South Kent Wind Project
cc: K. Sachtleben, Pattern Energy

May 7, 2012

Sarah Raetsen
Ministry of the Environment
2 St. Clair Avenue West
Floor 12A
Toronto, ON, M4V 1L5

Dear Ms. Raetsen,

**Subject: Hard Copies of Revised Reports
South Kent Wind Project**

Please find attached two hard copies of the following reports reflecting the Project modifications:

- Executive Summary – dated May 2, 2012
- Project Description Report – dated April 25, 2012
- Construction Plan Report – dated April 25, 2012
- Design and Operations Report – dated April 25, 2012
- Wind Turbine Specifications Report – dated April 25, 2012
- Decommissioning Plan Report – dated April 25, 2012
- Natural Heritage Assessment Records Review Report – dated February 2012
- Natural Heritage Assessment Site Investigation Report – dated February 2012
- Natural Heritage Assessment Evaluation of Significance Report – dated February 2012
- Natural Heritage Assessment Environmental Impact Assessment – dated April 27, 2012
- Water Body Records Review Report – dated May 2012
- Water Body Site Investigation Report – dated May 2012
- Water Body Environmental Impact Assessment Report – dated May 2012
- Additional Stage 2 Property Assessment Report (Archaeology) – dated April 25, 2012
- Heritage Assessment Report – dated April 23, 2012

H335936-0000-07-218-0024



Safety • Quality • Sustainability • Innovation

We are in the process of revising the Noise Assessment Report based on your recent comments. We will be sending you digitally the Noise Assessment Report by Wednesday, May 9th, followed by two hard copies via courier.

The revised Consultation Report will be sent to you the week following the Final Public Meeting which is taking place on Saturday, May 12, 2012 at the Blenheim Golf Course in Blenheim.

Should you have any questions or require any further information, please do not hesitate to contact me at your earliest convenience either by phone (905-374-5200) or email (karnold@hatch.ca).

Sincerely,

A handwritten signature in black ink, appearing to read "K. Arnold", with a stylized flourish at the end.

Kimberley Arnold
Environmental Lead - Energy

KA:LC

cc: K. Sachtleben, Pattern
C. Edwards, Pattern
S. Male, Hatch

Agency Correspondence - MTC

Ministry of Tourism and Culture
Culture Programs Unit
Programs & Services Br.
900 Highbury Avenue
London, ON N5Y 1A4
Tel: 519-675-6898
Fax: 519-675-7777
e-mail: shari.prowse@ontario.ca

Ministre du Tourisme et de la Culture
Unité des programmes culturels
Direction des programmes et des services
900, av. Highbury
London, ON N5Y 1A4
Tél: 519-675-6898
Télec: 519-675-7777
e-mail: shari.prowse@ontario.ca



August 25, 2011

Ms. Kathryn Wherry
Hatch Energy Ltd.
4342 Queen Street
Niagara Falls ON L2E 7J7

RE: South Kent Wind Project, Romney, East Tilbury, Raleigh, Harwich and Howard Townships, Former Kent County, Municipality of Chatham-Kent, Ontario, MTC File HD00583, PIF #s P264-119-2010, P264-120-2010, P027-112-2010 and P347-001-2011

Dear Proponent:

This letter constitutes the Ministry of Tourism and Culture's written comments as required by s. 22(3)(a) of O. Reg. 359/09 under the *Environmental Protection Act* regarding archaeological assessments undertaken for the above project.

Based on the information contained in the reports you have submitted for this project, the Ministry believes the archaeological assessment complies with the *Ontario Heritage Act's* licensing requirements, including the licence terms and conditions and the Ministry's 1993 Archaeological Assessment Technical Guidelines or the 2011 Standards and Guidelines for Consultant Archaeologists (whichever apply). Please note that the Ministry makes no representation or warranty as to the completeness, accuracy or quality of the reports.*

The reports recommend the following:

Stage 1 - PIF # P264-120-2010, Revised, February 2011, Received February 16, 2011

1. No Stage 2 Archaeological Assessment (Property Assessment) is recommended for the former Michigan Central Railway rail bed proposed to be impacted by this project since the underlying ground has been disturbed and lacks archaeological potential. However, there is potential for railway related sites within and adjacent to the rail bed to the east of the Fargo Road crossing (east of the existing rail line), and a Stage 2 Archaeological Assessment should be carried out in that vicinity (sic);

2. A property inspection of impacted road ROWs is recommended in advance of the Stage 2 Archaeological Assessment (Property Assessment) to identify and document visibly disturbed sections. No Stage 2 archaeological assessment of the disturbed locations is recommended. Stage 2 assessment should be conducted where undisturbed ROWs will be impacted. This work will be done in accordance with the MTC *Standards and Guidelines for Consultant Archaeologists*;
3. All remaining locations of proposed construction impact (e.g. turbine sites, access roads, circuits, and turn-arounds) must be subjected to Stage 2 Archaeological Assessment (Property Assessment) in accordance with the MTC *Standards and Guidelines for Consultant Archaeologists*; and
4. Should design changes (subsequent to the turbine layout dated November 3, 2010; access road layout dated November 17, 2010; and electrical circuit layout dated December 3, 2010) or temporary workspace requirements result in the inclusion of previously unassessed lands where there is potential for sites, these lands should be subjected to Stage 2 Archaeological Assessment (Property Assessment) to determine if cultural remains are present.

Stage 2 - PIF# P264-119-2010, P264-120-2010 and PIF# P027-112-2010 February 16, 2011, Received February 17, 2011

1. Sites H1 and H2 represent late nineteenth to early twentieth-century dump sites that are situated within the turbine plough area for turbine P052. They are not considered to have archaeological significance and therefore do not have cultural heritage value. Both sites should be considered clear of further archaeological concern;
2. Sites of H3 and H4 represent late nineteenth to early twentieth-century dump sites that are situated within the turbine plough area for turbine P038. They are not considered to have archaeological significance and therefore do not have cultural heritage value. Both sites should be considered clear of further archaeological concern;
3. Site P1 is an isolated, undiagnostic Aboriginal findspot situated within the turbine plough area for turbine P057 but over 50 m from its project layout. Unless the project layout shifts to within 20 m of the Site P1 location, no additional archaeological assessment is recommended, and the site should be considered clear of further archaeological concern;
4. No further archaeological assessment is recommended for the three turbines plough areas for turbines P014, P038 and P047, and they can be considered clear of further archaeological concern;
5. A Stage 2 property assessment is recommended for all remaining areas within the turbine plough area for P018, P037, P039, P040, P052, P056, P057 that were not assessed in 2010;
6. A Stage 2 property assessment is recommended on the 91 remaining turbine plough areas, as well as the ROWs for all electrical circuits and substation locations where project layout is not yet available but archaeological site potential has been determined.

Project layout within active agricultural lands will require site preparation and adequate weathering in advance of Stage 2 pedestrian survey if surface visibility is not 80% or better, per the MTC's standards and guidelines; and

7. Should design changes or temporary workspace requirements result in the inclusion of previously unassessed lands, these lands should be subjected to Stage 2 property assessment.
8. A Stage 2 property assessment is recommended on all remaining areas within the turbine plough area for turbine P073 that were not assessed in 2010; and
9. Stage 2 property assessment is recommended on the 14 remaining turbine plough areas within the Boralex project area (former land control) for turbines P062, P064, P065, P067, P068, P069, P070, P071, P072, P094, P100, P113, P124, and P126, as well as the ROWs for all electrical circuits where project layout is not yet available but archaeological site potential has been determined.

Project layout within active agricultural lands will require site preparation and adequate weathering in advance of Stage 2 pedestrian survey if surface visibility is not 80% or better, per the MTC's standards and guidelines.

Stage 2 PIF # P347-001-2011, Revised 2, August 17, 2011, Received August 17, 2011

1. If the Project impacts lands immediately adjacent to the existing rail bed within the Canadian Pacific Railway (former Michigan Central Railway) rail corridor, a Stage 2 property [assessment] should be conducted on lands determined to have archaeological potential; and
2. If changes to Project layout WTG 10 Rev5b or temporary workspace requirements result in the inclusion of previously unsurveyed lands, these lands should be subjected to a Stage 2 property assessment.

In addition to the above, based on the results of the Stage 2 property assessment of the South Kent Wind Project (the Project) area, Archaeological Services Inc. (ASI) makes the following recommendations:

3. The Stage 2 property assessment did not find any archaeological sites within 101 infrastructure survey areas (ISA), including turbine plough areas (TPA), substation plough areas (SPA), meteorological tower plough area (MPA), and circuit layout survey areas (CLSA) and, therefore, it is recommended that no further archaeological assessment of these areas is required. These areas are: TPA-001, TPA-002, TPA-003, TPA-004, TPA-005, TPA-007, TPA-008, TPA-009, TPA-012, TPA-013, TPA-014, TPA-016, TPA-018, TPA-022, TPA-023, TPA-024, TPA-028, TPA-030, TPA-032, TPA-033, TPA-034, TPA-035, TPA-036, TPA-037, TPA-038, TPA-039, TPA-040, TPA-041, TPA-042, TPA-044, TPA-045, TPA-046, TPA-047, TPA-048, TPA-052, TPA-053, TPA-054, TPA-055, TPA-056, TPA-057, TPA-058, TPA-061, TPA-062, TPA-064, TPA-066, TPA-067, TPA-068, TPA-069, TPA-070, TPA-072, TPA-174, TPA-077, TPA-078, TPA-080, TPA-082, TPA-087, TPA-091, TPA-092, TPA-094, TPA-095, TPA-098, TPA-099, TPA-100, TPA-101, TPA-102, TPA-108, TPA-109, TPA-111, TPA-113, TPA-115, TPA-116, TPA-120, TPA-121, TPA-122, TPA-125, TPA-126, TPA-132, TPA-135, TPA-138, TPA-145, TPA-148, TPA-149, TPA-152, TPA-155, TPA-156, TPA-161,

4. Of the 85 archaeological sites documented during the Stage 2 property assessment, forty-two (42) sites are not recommended for further archaeological assessment as their cultural heritage value or interest (CHVI) has been sufficiently assessed and documented at Stage 2. These are:

ISA	Archaeological Sites
TPA-006	AcHl-60 (SKWP-P53), SKWP-P36
TPA-010	AcHl-61 (SKWP-P55), SKWP-P56
TPA-017	AcHl-57 (SKWP-P1), SKWP-P2, SKWP-P3
TPA-019	AcHl-71 (SKWP-P64)
TPA-020	AcHl-69 (SKWP-P63), AcHl-72 (SKWP-P65)
TPA-029	AcHl-74 (SKWP-P66)
TPA-031	AcHm-54[59] (SKWP-P32), SKWP-P33
TPA-065	AbHn-29 (SKWP-P22), AbHn-30 (SKWP-P23), SKWP-P25
TPA-071	SKWP-P16
TPA-073	AbHo-3 (SKWP-P10)
TPA-075	SKWP-P71
TPA-079	AbHo-4 (SKWP-P26)
TPA-081	AbHo-2 (SKWP-P9)
TPA-093	SKWP-P67, SKWP-P68
TPA-097	AcHm-60 (SKWP-P34)
TPA-103	SKWP-P48
TPA-104	SKWP-P60
TPA-106	SKWP-P54
TPA-107	AcHl-41 (SKWP-P19), SKWP-P20
TPA-139	AcHl-56 (SKWP-P46), SKWP-P43, SKWP-P45
TPA-146	SKWP-P73, SKWP-P75, SKWP-P77
TPA-150	AbHo-6 (SKWP-P72)
TPA-154	SKWP-P69
TPA-166	SKWP-P38
TPA-171	SKWP-P52
TPA-173	SKWP-P5, SKWP-P7, SKWP-P8

5. In addition to the ISAs listed in Recommendation #3 above, thirteen (13) ISAs contain archaeological sites for which no further archaeological assessment is required (per Recommendation 4 above), and, therefore, it is recommended that no further archaeological assessment of these ISAs is required. They are: TPA-006, TPA-019, TPA-020, TPA-031, TPA-071, TPA-073, TPA-075, TPA-079, TPA-081, TPA-093, TPA-097, TPA-150, and TPA-154;
6. It is recommended that the remaining 43 archaeological sites documented during the Stage 2 property assessment be subject to Stage 3 site specific assessment if they are to be located within the Project limits as they all meet the criteria for requiring a Stage 3 site-specific assessment based on the MTC's 2011 Standards and Guidelines (S & G), *Section 2.2 Analysis: Determining the requirements for Stage 3 assessment*. The type of site as per S & G

a) Stage 3 is recommended for the following 21 archaeological sites or portions thereof located within the Project lands based on *S & G Section 2.2*, Standard 1.a.i.(1):

ISA	Archaeological Sites
TPA-010	AcHI-50 (SKWP-P37)
TPA-017	AcHI-33 (SKWP-P4)
TPA-103	AcHI-58 (SKWP-P50) AcHI-59 (SKWP-P51) AcHI-64 (SKWP-P49)
TPA-104	AcHI-66 (SKWP-P61) AcHI-67 (SKWP-P62)
TPA-106	AcHI-44 (SKWP-P27) AcHI-48 (SKWP-P31) AcHI-45 (SKWP-P28) AcHI-46 (SKWP-P29) AcHI-47 (SKWP-P30)
TPA-107	AcHI-42 (SKWP-P21)
TPA-118	AcHI-65 (SKWP-P58)
TPA-133	AcHI-76 (SKWP-P70)
TPA-139	AcHI-55 (SKWP-P44)
TPA-140	AcHI-62 (SKWP-P57)
TPA-171	AcHI-35 (SKWP-P11) AcHI-36 (SKWP-P12) AcHI-37 (SKWP-P13) AcHI-39 (SKWP-P17)

The Stage 3 assessment must be carried out according to the criteria for small pre-contact Aboriginal sites *where it is **not yet** evident* that the level of CHVI will result in a recommendation to proceed to Stage 4. The Stage 3 site-specific assessment for these sites includes:

- historical documentation per *S & G Section 3.1*, Standard 1.a-b, if necessary;
- controlled surface pick-up of the site area: surface preparation may be required if ground conditions have deteriorated since the Stage 2 property assessment was conducted; and
- test unit (1 m square unit) excavation at 5 m intervals across the site plus an additional 20% of focused sampling;

b) The Stage 2 property assessment identified one (1) pre-contact Aboriginal archaeological site—AcHI-68 (SKWP-P59) associated with TPA-118—dating to the Early Archaic period that meets the criteria for requiring a Stage 3 site specific assessment based on *S & G Section 2.2*, Standard 1.a.i.(1). At present, the entire site including the 20 m buffer is outside the Project limits (see ASI 2011c: Figure 22). If the project limits change to include the site area or its buffer, it is recommended that this area must be subject to a Stage 3 Site-specific assessment. The Stage 3 assessment must be carried out according to the criteria for a small, pre-contact Aboriginal site *where it is **not yet** evident* that the level of CHVI will result in a recommendation to proceed to Stage 4.

- historical documentation per *S & G Section 3.1*, Standard 1.a-b, if necessary;
- controlled surface pick-up of the site area: surface preparation may be required if ground conditions have deteriorated since the Stage 2 property assessment was conducted; and
- test unit (1 m square unit) excavation at 5 m intervals across the site plus an additional 20% of focused sampling. Due to the early time period of the site, a 20% sample of the

c) The Stage 2 property assessment identified one (1) isolated, pre-contact Aboriginal archaeological findspot—AcHI-34 (SKWP-P6) within TPA-173—dating to the Early Archaic period that meets the criteria for requiring a Stage 3 site specific assessment based on *S & G Section 2.2*, Standard 1.b.iii, and, therefore, it is recommended that a Stage 3 site-specific assessment be conducted for this site or portions thereof located within the Project lands. The Stage 3 assessment must be conducted according to the criteria for a small pre-contact Aboriginal site *where it is **not yet** evident* that the level of CHVI will result in a recommendation to proceed to Stage 4. The Stage 3 site-specific assessment includes:

- historical documentation per *S & G Section 3.1*, Standard 1.a-b, if necessary;
- controlled surface pick-up of the findspot area: surface preparation may be required if ground conditions have deteriorated since the Stage 2 property assessment was conducted. If no additional surface finds are discovered, another CSP will be conducted after additional weathering has occurred. If no artifacts are recovered, a minimum five one-metre units centred over the original findspot will be excavated. Due to the early time period of the site, a 20% sample of the excavated units (i.e., one unit) must be screened through 3 mm mesh to facilitate the recovery of small, potentially diagnostic artifacts; and test unit (1 m square unit) excavation at 5 m intervals across the site will *only* be required if a scatter of additional artifacts are discovered during the controlled surface pickup, plus an additional 20% of focused sampling. Due to the early time period of the site, a 20% sample of the excavated units must be screened through 3 mm mesh to facilitate the recovery of small, potentially diagnostic artifacts;

d) The Stage 2 property assessment identified six (6) post-contact Euro-Canadian archaeological sites that meet the criteria for requiring a Stage 3 site specific assessment based on *S & G Section 2.2*, Standard 1.c, and, therefore, it is recommended that a Stage 3 site-specific assessment be conducted for these sites or portions thereof located within the Project lands. These sites are:

ISA	Archaeological Sites
TPA-021	AcHI-73 (SKWP-H11)
TPA-026	AcHI-75 (SKWP-H12)
TPA-029	AcHI-70 (SKWP-H10)
TPA-065	AbHn-31 (SKWP-H5)
TPA-124	AbHo-5 (SKWP-H13)
CLSA-2	AcHI-61 (SKWP-H9)

The Stage 3 assessment must be conducted according to the criteria for small post-contact Euro-Canadian sites *where it is **not yet** evident* that the level of CHVI will result in a recommendation to proceed to Stage 4. The Stage 3 site-specific assessment for these sites includes:

- historical documentation (i.e., land use history of property) per *S & G Section 3.1*, Standard 1.b-g, as appropriate;

- controlled surface pick-up of the site area (except for AcHl-61 that was discovered during test pit survey): surface preparation may be required if ground conditions have deteriorated since the Stage 2 property assessment was conducted; and
- test unit (1 m square unit) excavation at 5 m intervals across the site plus an additional 20% of focused sampling;

e) The Stage 2 property assessment identified 11 pre-contact Aboriginal archaeological sites that meet the criteria for requiring a Stage 3 site specific assessment based on *S & G Section 2.2, Standards 1.a.i.(1) or (3)*, and, therefore, it is recommended that a Stage 3 site-specific assessment be conducted for these sites or portions thereof located within the Project lands. These sites are:

ISA	Archaeological Sites
TPA-060	AcHm-58 (SKWP-P14)
TPA-103	AcHl-57 (SKWP-P47)
TPA-105	AcHl-52 (SKWP-P40) AcHl-49 (SKWP-P35) AcHl-51 (SKWP-P39) AcHl-53 (SKWP-P41)
TPA-107	AcHl-40 (SKWP-P18) AcHl-43 (SKWP-P24)
TPA-139	AcHl-54 (SKWP-P42)
TPA-146	AcHl-77 (SKWP-P74) AcHl-78 (SKWP-P76)

The Stage 3 assessment must be conducted according to the criteria for small pre-contact Aboriginal sites *where it is **clearly** evident* that the level of CHVI will result in a recommendation to proceed to Stage 4. The Stage 3 site-specific assessment for these sites includes:

- historical documentation per *S & G Section 3.1, Standard 1.a-b*, if necessary;
- controlled surface pick-up of the site area: surface preparation may be required if ground conditions have deteriorated since the Stage 2 property assessment was conducted; and
- test unit (1 m square unit) excavation at 10 m intervals across the site plus an additional 40% of focused sampling;

f) The Stage 2 property assessment identified two (2) post-contact Euro-Canadian archaeological sites that meet the criteria for requiring a Stage 3 site specific assessment based on *S & G Section 2.2, Standard 1.c*, and, therefore, it is recommended that a Stage 3 site-specific assessment be conducted for the these sites or portions thereof located within the Project lands. These sites are:

ISA	Archaeological Sites
TPA-063	AbHn-32 (SKWP-H7)
TPA-166	AcHl-63 (SKWP-H6)

The Stage 3 assessment must be conducted according to the criteria for small post-contact Euro-Canadian sites *where it is **clearly** evident* that the level of CHVI will result in are commendation to proceed to Stage 4. The Stage 3 site-specific assessment for these sites includes:

- historical documentation (i.e., land use history of property) per *S & G Section 3.1, Standard 1.b-g*, as appropriate;

- controlled surface pick-up of the site area: surface preparation may be required if ground conditions have deteriorated since the Stage 2 property assessment was conducted; and
- test unit (1 m square unit) excavation at 10 m intervals across the site plus an additional 40% of focused sampling;

g) The Stage 2 property assessment identified one (1) pre-contact Aboriginal archaeological site—AcHI-38 (SKWP-P15) within TPA-171—that meets the criteria for requiring a Stage 3 site specific assessment based on *S & G Section 2.2*, Standards 1.a.i.(1), and, therefore, it is recommended that a Stage 3 site-specific assessment be conducted for this site or portions thereof located within the Project lands..

The Stage 3 assessment must be conducted according to the criteria for a large, relatively dense plough disturbed site with multiple scatters containing more than one diagnostic artifact *where it is **clearly** evident* that the level of CHVI will result in a recommendation to proceed to Stage 4. The Stage 3 site-specific assessment for these sites includes:

- historical documentation per *S & G Section 3.1*, Standard 1.a-b, if necessary;
- controlled surface pick-up of the site area: surface preparation may be required if ground conditions have deteriorated since the Stage 2 property assessment was conducted; and
- test unit excavation:
 - place multiple grids over areas of artifact concentration and excavate across those grids at 5 m intervals;
 - place and excavate additional test units, amounting to 20% of the initial grid total, between areas of concentration to document areas of lower concentration; and
 - place and excavate additional units, amounting to 10% of the initial grid total, on the periphery of the surface scatter to determine the site extent and sample the site periphery;

7. Partial clearance is recommended to allow construction to proceed in areas of the Project lands where there are no further concerns for impacts to archaeological sites or parts of the project as identified in Recommendations 3, 4 and 5 above. To support this, it is recommended that MTC provide a letter confirming that there are no further concerns with regard to alterations to archaeological sites for those sites and areas as detailed in Recommendation 3, 4 and 5 above. The required conditions have been met as per *Section 7.8.5*, Standards 1.a-d, as indicated by the following:

- the Stage 2 fieldwork has been completed for the Project lands and Stage 3 is still required for archaeological sites or portions thereof located within Project lands as detailed in Recommendations 6 a, c-g, above;
- the partial clearance recommendation forms part of the final report on the Stage 2 work;
- the estimated timeline for completing the remaining Stage 3 archaeological assessment work is the fall of 2011 and/or the spring of 2012;
- the development mapping showing the location and extent of the archaeological sites requiring Stage 3 site-specific assessment along with their 20 m protective buffer and their 50 m monitoring buffer zone are provided (see ASI 2011 c, c.f., P347-001-2011: Supplementary Documentation, Figures 2-5, 10-12, 20-28, 31-32);

- the following detailed avoidance strategy has been committed to by the Proponent and will remain in place until the required Stage 3 site-specific assessments for the 42 archaeological sites have been completed (estimated to be by the end of summer 2012) as noted in Recommendation 6 a, c-g above:

1) written instructions will be provided to all construction personnel working within the Project lands to avoid the location of these archaeological sites and their protective 20 m buffers. No soil disturbances other than traditional farming practices can occur within these areas; and

2) prior to construction proceeding within the 50 m monitoring buffer zone surrounding these archaeological sites, snow fencing will be erected around the sites and their 20 m protective buffers within the project lands. All construction within the monitoring zone will then be monitored by a licensed archaeologist who will be empowered to stop construction if there is a concern for impact to an archaeological site.

The Ministry is satisfied with these recommendations.

This letter does not waive any requirements which you may have under the *Ontario Heritage Act*. A separate letter addressing archaeological licensing obligations under the Act will be sent to the archaeologist who completed the assessment and will be copied to you.

This letter does not constitute approval of the renewable energy project. Approvals of the project may be required under other statutes and regulations. It is your responsibility to obtain any necessary approvals or licences.

Please feel free to contact me if you have questions or require additional information.

Sincerely,

Shari Prowse
Archaeology Review Officer

cc. Ms. Katie Bryant, Archaeological Services Inc.
Mr. Rob Pihl, Archaeological Services Inc.
Dr. Andrew Riddle, Archaeological Services Inc.
Dr. Scarlett Janusas, Scarlett Janusas Archaeological and Heritage Consulting and Education

* In no way will the Ministry be liable for any harm, damages, costs, expenses, losses, claims or actions that may result: (a) if the Report or its recommendations are discovered to be inaccurate, incomplete, misleading or fraudulent; or (b) from the issuance of this letter. Further measures may need to be taken in the event that additional artifacts or archaeological sites are identified or the Report is otherwise found to be inaccurate, incomplete, misleading or fraudulent.