



Henvey Inlet Wind LP

Henvey Inlet Wind Transmission Line

Appendix B8. Route B Stage 1 Archaeological Assessment Report

Henvey Inlet Wind LP

Henvey Inlet Wind

Stage 1 Archaeological Assessment Transmission Line – Route B

Various Townships and Municipalities, the District of Parry Sound, Ontario

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Revision Log

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Executive Summary

AECOM Canada Ltd. (AECOM) was contracted by Henvey Inlet Wind LP (HIW) to conduct a Stage 1 archaeological assessment for a Transmission Line corridor required to facilitate the proposed Henvey Inlet Wind Energy Centre (HIWEC) located in central Ontario. This background study was undertaken by AECOM on behalf of HIW in advance of a Category B Environmental Review as described in the Ministry of the Environment and Climate Change's *Guide to Environmental Assessment Requirements for Electricity Projects* (2011), outlined in Ontario Regulation 116/01, Electricity Projects Regulation. This undertaking is also subject to the *Ontario Heritage Act* (Ontario Government 1990a) and the *Standards and Guidelines for Consultant Archaeologists* (Ontario Government 2011b).

Two transmission lines (Route A and B) are being proposed to bring the power generated from the HIWEC, located on Henvey Inlet First Nation's Indian Reserve No. 2 (HIFN I.R. #2), to the Ontario electricity grid. Only one option will be constructed. This report is for Route B only. The HIWEC Transmission Line corridor is located off-reserve in various townships and municipalities in the District of Parry Sound. The HIWEC Transmission Line – Route B study area is comprised of a corridor 250 m wide and approximately 90 km long, that extends from Henvey Inlet First Nation Indian Reserve No. 2 (HIFN I.R. #2) south to approximately Woods Road where it travels east to the existing 500 kV Hydro One Networks Inc. (HONI) transmission line. Route B then travels south parallel to the HONI 500 kV transmission line to the HONI 230 kV transmission line, east of the Parry Sound Transformer Station, near Oastler Park Drive. The Transmission Line - Route B runs through multiple townships east of Georgian Bay; the Township of the Archipelago, Geographical Townships of Shawanaga and Harrison; the Township of Sequin, Geographical Township of Foley; the Township of Carling, Geographical Township of Carling; the Municipality of McDougall, Geographical Township of McDougall and Ferguson; Municipality of Whitestone, Geographical Township of East Burpee; and the Unorganized Townships of Shawanaga and Wallbridge, Parry Sound District, Ontario. In order to account for adjustments to the route the study area examined here is larger in some places than what will actually be needed for the development. An overview of the HIWEC Transmission Line – Route B study area location is provided in **Figure 1**, and a detailed map of the study area is provided **Figure 2**. The HIWEC Transmission – Route B Line study area is primarily located on Crown-owned or managed lands.

The Transmission Line Route B study area is primarily located on Crown-owned or managed lands. Archaeological assessments on Crown Land are governed by different agencies than private and municipal land in Ontario. Parks Canada governs archaeology done within federal parks and for national historic places. The Ontario Ministry of Natural Resources and Forest (MNRF) governs archaeological assessments on Crown land and requires that archaeological assessments meet the Standards and Guidelines established by the MTCS (Ontario Government 2011b).

The potential for pre-contact and contact period First Nations archaeological resources within the Transmission Line – Route B study area is judged to be high within 50 m of modern watercourses, within 300 m of previously identified areas of cultural significance, and within 150 m of well-drained soil in close proximity to marshes, wetlands or watercourses (Ontario Government 2011b: Section 1.4). The presence of five registered archaeological sites within the study area boundaries increases the potential for archaeological remains. It has been noted also, that multiple archaeological sites exist beyond the study area boundaries. Outside these designated proximities the potential for pre-contact First Nations archaeological resources is low, however there is potential for archaeological materials that are not in the ground such as pictographs and quarry sites. Additionally, the presence of multiple fur trade posts increases the potential for archaeological material. Therefore, further Stage 2 archaeological investigation is recommended to clear the Transmission Line – Route B and ensure there are no impacts to culturally significant sites that may not have been previously recorded. As no glacial shorelines are found within the Transmission Line – Route B study area this type of feature does not impact the evaluation of pre-contact First

Nations archaeological potential. Contact period resources in the Transmission Line – Route B study area consist of significant watercourses which would have been equally important to both Euro-Canadian and First Nations people during this time, and the possibility for extensive raw material quarrying activities.

The potential for Euro-Canadian archaeological resources is judged to be high within 150 m of historic transportation routes and areas of early Euro-Canadian settlement and industry (Ontario Government 2011b: Section 1.4). Outside of these designated proximities the potential for Euro-Canadian archaeological resources is low and no Stage 2 archaeological assessment is recommended. Many early roads were not followed by modern highways, meaning areas of cultural heritage value or interest associated with historic roadways are now far removed from modern thoroughfares, often in remote areas or used as trails or logging roads. Therefore, archaeological potential is high within 150 m of these historic transportation routes. Historic communities within the study areas have contracted over time, each of them at their largest in the late 1800s to early 1900s, seeing a gradual decrease over time. Significant archaeological resources related to these communities may remain outside of their current limits. Archaeological potential has been determined to be high in proximity to the estimated locations of early roads, post offices, and historic communities. Highways 69 and 522 are not considered to be historic transportation routes, and any cultural heritage value or interest associated with them has now been previously and extensively disturbed. Highways 69 and 522 are not considered to be historic transportation routes, and any cultural heritage value or interest associated with them has now been previously and extensively disturbed.

This Stage 1 archaeological assessment has identified areas of archaeological potential within the study area limits. As the HIWEC Transmission Line – Route B study area is situated entirely in the Canadian Shield and the following recommended strategy for Stage 2 assessment is based off of Section 2.1.5 of the *Standards and Guidelines for Consultant Archaeologists* (Ontario Government 2011b). In addition, due to the complex combination of land conditions in the Study Area there may be small areas of archaeological potential intermixed with areas of low potential and Section 2.1.6 must be followed during the Stage 2 archaeological assessment (Ontario Government 2011b).

To assist in determining where areas of archaeological potential or archaeological features are located, the impacted property will be inspected as part of the Stage 2 assessment. This property inspection will allow the archaeologist to evaluate and photo-document actual land conditions. Areas of potential are related to the location of watercourses, known archaeological sites, pockets of well-drained soil, Trading Posts, early roads, 19th century post offices, structures illustrated on 19th century maps and early Euro-Canadian communities. When the location of archaeological features is known, the reduction of survey intervals can be planned based on the fieldwork recommendations below. Areas exempt from Stage 2 archaeological assessment include: steep slope, poor drainage, previous disturbance due to road and road right-of-ways or aggregate activities, and exposed bedrock. These conditions must be photographed and documented in the field but do not require archaeological survey. Exceptions must be made for any areas of steep slope containing exposed bedrock cliff faces. These areas must be assessed and photo documented for the potential presence of rock art given the identification of multiple pictograph sites in close proximity to the current study area. The exposed bedrock may also contain areas where previous quarrying activities have been conducted, based on the proximity of the Transmission Line study area to similar locations along the eastern shore of Georgian Bay where these activities have been documented.

The Stage 2 test pit assessment survey intervals are adjusted according to proximity to features of archaeological potential as follows:

- When the feature of archaeological potential is a modern water source the Stage 2 assessment should consist of a test pit assessment at a 5 m interval in the area between 0 to 50 m of the modern water source. Beyond 50 m, a Stage 2 survey is not required (Ontario Government 2011b; Section 2.1.5, S.1).

- When the feature of archaeological potential is an early Euro-Canadian transportation route or area of early settlement or industry the Stage 2 assessment should consist of a test pit assessment at a 5 m interval in the area between 0 to 50 m of the early Euro-Canadian transportation route and at a 10 m interval between 50 to 150 m of the early Euro-Canadian transportation route. Beyond 150 m a Stage 2 survey is not required (Ontario Government 2011b; Section 2.1.5, S.2 and Section 1.4, S.1.d.).
- When the feature of archaeological potential is a previously identified archaeological site the Stage 2 assessment should consist of a test pit assessment at a 5 m interval in the area between 0 to 50 m of the archaeological site, and at a 10 m interval between 50 m to 150 m. Beyond 150 m, a Stage 2 survey is not required (Ontario Government 2011b; Section 2.1.5, S.2).
- The consultant archaeologist conducting the Stage 2 assessment should maintain survey grids as close as possible; however, intervals may vary from the standard survey grids as necessary due to complex combinations of archaeological potential and based on professional judgement. If regular survey grids are not maintained, any variations should be documented and explained in the Stage 2 report.

Based on aerial photography, there doesn't appear to be any agricultural land in the Transmission Route – B study area; however, in the event agricultural land is identified it should be noted that survey reductions are not permitted for agricultural fields. Agricultural land that can be ploughed must be ploughed, weathered and subject to full pedestrian survey at 5 m intervals (Ontario Government 2011b: Section 2.1.1).

The Ontario Ministry of Tourism, Culture and Sport is asked to review this report, accept it into the provincial register of archaeological reports and provide a letter to the proponent indicating that the Ministry concurs with the recommendations provided herein.

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1. Project Context

1.1 Development Context

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1.1.1 Objectives

The Stage 1 archaeological assessment has been conducted to meet the requirements of the Ministry of Tourism, Culture and Sport's (MTCS) *Standards and Guidelines for Consultant Archaeologists* (2011b). The objectives of the Stage 1 overview/background study were to:

- Provide information about the study area's geography, history, previous archaeological fieldwork and current land condition;

- Identify and map archaeological potential and features of archeological potential on land within the study area limits;
- Determine whether Stage 2 survey is required for all or parts of the study area; and
- Recommend appropriate strategies for a Stage 2 survey.

1.2 Historical Context

1.2.1 Pre-Contact First Nations Settlement History

Archaeological research in central Ontario has been fairly limited in comparison to southern Ontario and northern New York State, which has resulted in a limited understanding of the pre-contact settlement history of this part of the province. **Table 1** provides a breakdown of the pre-contact cultural and temporal history of past occupations of the Transmission Line – Route B study area.

Table 1. Pre-contact Settlement Chronology for Central Ontario

Archaeological Period	Culture	Time Period	Comments
Paleo	Plano	8,000 – 4,500 BC	<ul style="list-style-type: none"> ▪ Lanceolate bifaces tools ▪ Big game hunters on relic lake shores north of Upper Great Lake
Archaic	Shield	5,400 – 250 BC	<ul style="list-style-type: none"> ▪ Slight reduction in territory size ▪ Introduction of copper tools ▪ Broad spectrum seasonal resource exploitation ▪ Highly mobile ▪ Introduction of bow ▪ Domestication of dog
Middle Woodland	Laurel	550 BC – AD 950	<ul style="list-style-type: none"> ▪ Introduction of pottery ▪ Horticultural production ▪ Large earthen mounds
Late Woodland	Blackduck Selkirk	AD 750 - 1650	<ul style="list-style-type: none"> ▪ Diverse ceramics – out-flaring vessel rims, textile impressions, punctates ▪ Communal burials
Contact First Nations	Northern Ojibwe	AD 1650-1875	<ul style="list-style-type: none"> ▪ Early written records and treaties ▪ European trade
Euro-Canadian		AD 1749-present	<ul style="list-style-type: none"> ▪ European settlement

Note: taken from Dawson, 1984; Wright, 1981

The first human settlement in this area can be traced back 10,000 years; these earliest well-documented groups are referred to as Paleo which literally means old or ancient. The tool assemblage is dominated by finely made lanceolate-shaped, sometimes fluted, projectile points, or spear tips. Paleo-Indian people were non-agriculturalists who depended on hunting and gathering of wild food stuffs. They would have moved their encampments on a regular basis to be in the locations where these resources naturally became available and the size of the groups occupying any particular location would vary depending on the nature and size of the available food resources (Ellis and Deller, 1990; Wright 1974). The retreat of the glaciers allowed for spruce dominated boreal forests to move quickly north, occupying the once open tundra (Hinshelwood, 1990; Phillips 1993). By 10,000 years ago the closed spruce forest gave way to the rapid introduction of jack pine and white birch as a result of the increasingly warm, dry and windy environment (Hypsithermal) (Julig 1994; Phillips 1993; Wright 1974). Raw materials obtained from bedrock outcrops were used in the production of tools such as distinctive unfluted, ribbon flaked, lanceolate spear points and knives. The picture that has emerged for early and late Paleo people is of groups at low population densities who were residentially mobile and made use of large territories during annual cycles of resource exploitation (Ellis and Deller, 1990; Julig 1994).

The next major cultural period following the Paleo is termed the Archaic, where a change in technological and stylistic representations of the projectile points occurred in the archaeological record that marks the beginning of the Archaic Period (Dawson 1983b). Wright (1972) referred to it as the Shield Archaic to indicate a long-lived tradition that encompassed much of the Canadian Shield from northern Quebec to southwest Northwest Territories. Dawson (1983) also refers to the Shield Archaic as a northern expression of the Archaic Tradition within the Precambrian Shield. The Archaic period in Northwestern Ontario is defined by notched projectile points, the use of native copper, and more frequent recovery of woodworking tools such as wedges and adzes (Dawson 1983; Fox 1977; Hinshelwood 2004). There is much debate on how the term Archaic is employed; general practice bases the designation off assemblage content as there are marked differences in artifact suites from the preceding Paleo-Indian and subsequent Woodland periods. As Ellis et al (1990) note, from an artifact and site characteristic perspective the Archaic is simply used to refer to non-Paleo-Indian manifestations that pre-date the introduction of ceramics. The Archaic occupation is poorly understood in northwestern Ontario because of the underrepresentation of Archaic sites. This is a result of the complex timing for the transition from late Paleo-Indian to Archaic that occurred when lake levels in the Great Lakes Basin were lower than they are today. This resulted in the destruction of any shoreline sites, assuming they have been submerged or under sediments deposited post-8,000 years ago (Hinshelwood 2004). Another contributing factor to the underrepresentation of Archaic sites is the degree of difficulty in determining between Archaic and Woodland period lithics. Throughout the Archaic period the natural environment warmed and vegetation changed from closed conifer-dominated vegetation cover, to mixed coniferous and deciduous forest to the mixed coniferous and deciduous forest in the north and deciduous vegetation in the south we see in Ontario today (Ellis et al 1990). During the Archaic period there are indications of increasing populations and decreasing size of territories exploited during annual rounds; fewer moves of residential camps throughout the year and longer occupations at seasonal campsites; continuous use of certain locations on a seasonal basis over many years; increasing attention to ritual associated with the deceased; and, long range exchange and trade systems for the purpose of obtaining valued and geographically localized resources (Ellis et al 1990; Hinshelwood 2004).

The Woodland period is distinguished from the Late Archaic period primarily by the addition of ceramic technology, which provides a useful demarcation point for archaeologists but is expected to have made less difference in the lives of the Woodland peoples. Unlike southern Ontario where the Woodland period is divided into three distinct phases, the Woodland period of northern Ontario observes only two distinct phases, the Middle and Late Woodland periods. The introduction of pottery is believed to have made its way into northern Ontario culture from the southwest and east, creating the Laurel culture within the Boreal Shield stretching from Saskatchewan to Northern Quebec. Laurel ceramics was dominated by conical style tapered base pottery manufactured using the coil method adorned with decoration across the upper portion of the vessel's exterior surface.

Along with the introduction of pottery, the bow and arrow appears as the dominant hunting tool in the Middle Woodland period. This resulted in an increase in projectile points and scrapers developed using stone chipped technology (Wright 1995:272, 274). During the Middle Woodland groups would come together into large macro-bands through the spring-summer at lakeshore or marshland areas to take advantage of spawning fish; in the fall inland river valleys were occupied for deer and nut harvesting and groups split into small micro-bands for winter survival (Spence et al 1990).

The Late Woodland period in this part of Ontario differed significantly from the settlement and subsistence shift that occurred in southern Ontario with the increasing reliance on maize horticulture. The climate and landscape of the Canadian Shield prohibited the agricultural shift occurring in the south with continued reliance on fish and large game as in previous periods. Population growth was also restricted by the Canadian Shield environment and settlement patterns were similar to those of the Middle Woodland with large summer camps located close to fish resources and typically located on level, well drained ground with access to canoe landing beaches. Throughout the pre-history contact of northern Ontario, the inhabitants utilized the many rivers and lakes as transport routes, using birch bark canoes in the warmer seasons and as trails when frozen in the winter.

Within the Late Woodland period two distinct cultures arise; the Blackduck complex and the Selkirk complex. The Blackduck culture is identified by the contrasting pottery tradition to the Laurel. Pottery vessels were large globular and created using the paddle and anvil technique with decoration being horizontal and/or oblique lines along with circular indentations or punctates found on the neck, rim and inner rim. The Blackduck culture is considered to occur through the southwest portion of northern Ontario.

The Selkirk culture is defined by its pottery style as well, with manufacturing similar to that of the Blackduck culture but with a distinct variation in decoration. The Selkirk style of pottery, if decorated, was simple with a single row of punctates or impressed with a cord wrapped stick (Dawson 1983). Selkirk pottery is found predominantly in the northern portion of north Ontario.

In the 17th century two major language families, Algonquian and Iroquoian were represented by the diverse people of North America. Iroquoian speaking people were found in southern Ontario and New York State, with related dialects spoken in the mid-Atlantic and interior North Carolina, while Algonquian speaking peoples were located along the mid-Atlantic coast into the Maritimes, throughout the Canadian Shield of Ontario and Quebec and much of the central Great Lakes region (Ellis et al 1990). Linguists and anthropologists have attempted to trace the origin and development of these two language groups and usually place their genesis during the Archaic (Ellis et al 1990).

Archaeologists are able to trace archaeologically known groups from this time period to the historically documented people identified when French fur traders first arrived (Wright, 1994). The Ontario Iroquois from southern Ontario gave rise to the Huron, Petun, Neutral and Erie; the St. Lawrence Iroquois, a distinct population encountered by Jacques Cartier in 1535 that had disappeared by the time Samuel de Champlain returned to the same area in 1603; and from northern Ontario the groups that gave rise to the Algonquian speaking Cree, Ojibwa and Algonquin people (Wright, 1994).

1.2.2 Contact Period Settlement History

Etienne Brule and Samuel de Champlain are the first Europeans to come to the region, travelling the French River into Georgian Bay from the Ottawa River in 1610 and 1613 respectively. At the time of European contact the Jesuits recorded a multitude of tribes in the Canadian Shield area who spoke the Algonquin language (Thwaites 1896-1901). The Anishinabek seasonal cycle involved travel over large regions to exploit resources for food, tools, medicines and ceremonial use, with large groups congregating at summer camps and dispersing into small winter hunting groups (Allen 2002).

The first European to describe the Ojibway who were located near the mouth of the French River and Georgian Bay was Samuel de Champlain:

We met with three hundred men of a tribe named by us the Cheveau releves or 'High Hairs', (Ojibwa?) because they had them elevated and arranged very high and better combed than our courtiers, and there is no comparison in spite of the irons and methods these have at their disposal. This, seems to give them a fine appearance. They wear no breech cloths, and are much carved about the body in divisions of various patterns. They paint their faces with different colours and have their nostrils pierced and their ears fringed with beads. When they leave their homes, they carry a club. I visited them and gained some slight acquaintance and made friends with them. I gave a hatchet to their chief who was as happy and pleased with it as if I had made him some rich gift and, entering into conversation with him, I asked him about his country, which he drew for me with charcoal on a piece of tree-bark. He gave me to understand that they had come to this place to dry the fruit called blueberries to serve them as manna in the winter when they can no longer find anything. For arms they have only the bow and arrow.

Schmalz 1991: 14-15

The fur trade in Canada provided the principal motivation and economic base for the exploration by Europeans of the Canadian interior. During the period from 1670 to 1713, French traders began to leave established settlements and construct trading posts that enabled traders to make direct contact with the tribes of the interior. An examination of the Atlas of Canada's map "Posts of the Canadian Fur Trade, 1600-1870" indicates the presence of nine Fur Trade Posts in close proximity to the study area; five Independent Canadian Posts and four Hudson's Bay Co. (HBC) posts (**Figure 3**). The HBC posts include French River, Shawinaga, Sagingue, and Sheboananing. The HBC post located at the mouth of the French River opened in 1827 and operated for anywhere from 15 to 50 years. This would have been an influential location as fur traders travelled back and forth along the French which acted as the gateway between Ottawa and the Great Lakes. The Shawinaga HBC post opened in 1827 and operated for anywhere from 15 to 50 years. The remains of a "deserted trading house" was noted in the field notebook of the first surveyor of the area in 1852, indicating it was abandoned by then (Morrison 1995). Archive notes refer to the possibility this trading post may have been in use before and after Hudson Bay's presence in that time frame, run as Canadian Independent posts. There are two of these posts on the Atlas of Canada map in that same area, open between 1 and 15 years. The Sagingue HBC post is located further south, close to Parry Sound and was open in 1827, operating for between 4 and 15 years. The Sheboananing HBC post was open in 1831, located closer to the Georgian Bay coast by Parry Sound; it was operational for 1 to 3 years.

The Canadian Independent posts include Shawinaga, Sagingue, Nipissing and two at Sheboananing. The Canadian Independent run Shawinaga post was operational in 1828, and it is unclear whether this is the same site near the HBC post that opened a year before. It is unclear how long this post was operational, but was occupied between 4 and 15 years. The Sagingue post was located south of the HBC post, opened in 1830 and was operational for approximately 1 to 3 years. The Canadian Independent run posts near Lake Nipissing are located outside the study area, but provided an important access route to Georgian Bay via the French River. One Nipissing Post was opened along the French River in 1825, and was occupied for between 4 and 15 years. Multiple posts around the eastern shore of Nipissing are illustrated on the Atlas of Canada's map "Posts of the Canadian Fur Trade, 1600-1870" that were operational for 1 to 3 years. There are two Canadian Independent run posts that were operational by 1828 called Sheboananing on the Atlas of Canada's map "Posts of the Canadian Fur Trade, 1600-1870", and it is unclear if these are the same post, or had previously existed before the HBC moved into the area. One at Sheboananing was operational for 1 to 3 years, while the other is illustrated as being operational for 4 to 15 years.

The majority of these posts are located along the east coast of Georgian Bay (**Figure 3**). They would have facilitated the fur trade along the eastern coast of Georgian Bay as explorers and voyageurs canoed west through to the Great Lakes in the spring, then back east towards Ottawa in the fall. The relationship between all of the posts in the same area with the same names is unclear, but it is likely that multiple occupations were occurring as the fur trade was established in this part of Ontario and began to flourish along Georgian Bay.

French explorers allied with the Huron and Ojibway people and participated in raids on Iroquoian settlements and by 1615 the French-Huron alliance was cemented, contact had been made with the Nipissing, Odawa and Petun and the geography of the eastern Great Lakes was roughly known (Heidenreich 1990). After 1615 the fur trade gained momentum with the Hurons playing a major role, utilizing existing trade routes between the Huron agriculturalists in the south and Ojibway bands to the north. In 1649 the Hurons experienced an Iroquoian attack on the Huron town of St. Ignace, as intertribal wars for control of the fur trade came to a head (Hunt 1940: 92; Pollock 1999). Henvey Inlet ancestors in this area felt the repercussions of the collapse of the Huronia, temporarily relocated to other areas due to the recurring raids of the Iroquois between 1650 and 1660 only to return after 1667 (Day 1978: 789; Pollock 1999). As a result, the northern coasts of Georgian Bay and Lake Huron may have served as a transition zone or buffer between the Anishinabek and Iroquois, as it was sparsely occupied until the return of the Ojibway along the Georgian Bay and Lake Huron in the 1700s (Pollock 1999). After this time, until the fall of New France in 1759, the Anishinabek found themselves in a position of relative control of the fur trade, as French and British encouraged the trade of the coveted furs from northern Ontario for profit and also to secure allies (Schmalz 1991: 35; Pollock 1999).

Conflict again arose in the early 1800s, this time with the Canadian Government regarding mining rights along the northern shores of Lakes Superior and Huron. These areas were to be surrendered to the Government in order to prepare for European settlement, to enforce British jurisdiction against American incursions in the region, and the provincial government's desire to encourage mineral exploration without making a treaty (Morrison 1995; Pollock 1999). As a result, the Robinson-Huron Treaty was signed in 1850 in Sault Ste. Marie by the Honourable W.B. Robinson and various Ojibway Chiefs and principal men from Georgian Bay and the north shore of Lake Huron. Among the signatories were Chief Pamequonaishcum of Magnetawan, Chief Wagemake of Henvey Inlet and Chief Mishequongai of French River (Morris 1943). Robinson then travelled to Penetanguishene, where he negotiated an adherence of the Treaty with Chief Muckutamishaquet of Shawanaga First Nation, Chief Mekis of the Wasaksing (Parry Island) First Nation (Morrison 1995). The reserve lands were surveyed in 1851 and 1852 by J.S. Dennis and K.W. Keating.

The Robinson Huron treaty made on September 9th, 1850 between:

...the Honourable William Benjamin Robinson and the Principal Men of the Ojibwa Indians, inhabiting and claiming the eastern and northern shores of Lake Huron from Penetanguishene to Sault Ste. Marie, and thence to Batchewanaung Bay on the northern shore of Lake Superior, together within the Islands in the said lakes, opposite to the shores thereof and inland to the height of land which separates the territory covered by the Charter of the Honourable the Hudsons Bay Company from Canada, as well as all unconceded lands within the limits of Canada West, to which they have any just claim of the other part...

Morris 1943:30

Robinson made an offer of £4000 in cash and a perpetual annuity of £1000 for the entire region, ensuring the bands would continue to enjoy their hunting and fishing rights because extensive settlement in the perceived "barren" regions of the Canadian Shield was considered unlikely. Hunting and fishing was to continue in the region for the bands, unlike the eastern regions of Upper Canada, where those activities had been hampered by extensive development (Surtees 1986). The two agreements for the lands bordering Lake Superior and Lake Huron were signed in Sault Ste. Marie referred to as the Robinson-Superior and Robinson-Huron Treaties respectively. The Robinson-Superior Treaty contained 43,200 square km of territory and was occupied by 1422 people. The Robinson-Huron Treaty contained 92,500 square km of land with 1240 people living within its boundaries. The treaties also offered significant differences from other treaties developed in Ontario; a schedule of reserves chosen by the chiefs and clauses regarding features of First Nation – Euro-Canadian relations (Surtees 1986). The reserves agreed upon consisted of three on Lake Superior and twenty-one under the Robinson-Huron agreement. The clauses stated that the reserves could not be sold or leased without the consent of the Chief Superintendent of Indian Affairs; First Nations would refrain from interfering with mineral activities in the ceded areas, though mineral rights on the reserves belonged to them; the rights of Métis who could declare whether they were First Nations or not; and hunting and fishing rights where First Nations were to have "the full and free privilege to hunt over the territory now ceded by them and to fish in the waters thereof as they have heretofore been in the habit of doing" (Surtees 1971: 149-152; Surtees 1986).

The Transmission Line – Route B study area also falls within the limits of the Williams Treaty signed in 1923, although Henvey Inlet First Nation, Magnetawan First Nation, and Shawanaga are not signatories. The treaty area established by the Williams Treaties overlaps that of the Robinson Huron treaty, and was signed by the Chippewa and Mississauga First Nations groups inhabiting the North Shore of Lake Ontario, as well as the interior territory between Georgian Bay and the Ottawa River (Morris 1943; Surtees 1986). The treaty covered a 25,900 square km section of south-central Ontario including the Ontario communities of North Bay, Barrie, Gravenhurst, Orillia, Parry Sound, Petawawa, Markham, Pickering and Coburg. The southern limits stretched from Brampton to Trenton, and along the Ottawa and French Rivers to the north. The Williams Treaty was made on October 31 and November 15,

1923 and is comprised of treaties formerly returned including parts of the original Robinson Treaty (Ojibwa), Treaty No. 20, Treaty No. 45½, and Treaty No. 27. The Williams Treaty (Chippewa and Mississauga) is:

Bounded on the east and south by Treaty No. 27 and the Ottawa River; on the north by the Mattawa River, Lake Nipissing, and the French River; and on the west by Georgian Bay. Excepting thereout and therefrom those land which have already been set aside as Indian Reserves. The parcel hereby surrendered contains 17,600 square miles more or less.

Morris 1943: 23

In late 1923, treaties were signed dealing with outstanding land claims in southern and central Ontario (Surtees 1986). The treaties covered approximately 28,000 square km of land. Ojibway nations in central Ontario signed over land rights to the federal government in exchange for \$25 each, and forthcoming funds of more than \$230,000. Most of the land covered by this treaty is meant to rectify 'blank treaties,' which are non-existent treaties purportedly signed between the British and the Ojibway nations, or other unfair dealings during the 1700s and 1800s (Surtees 1986). Like the Numbered Treaties that preceded the Williams Treaties, First Nations received cash in exchange for formally giving up this land. However, they also surrendered their rights to hunting, fishing and trapping on all of the land covered by the treaty (Morris 1943).

While the Henvey Inlet First Nation, Magnetawan First Nation, and Shawanega reserve lands were established under the Robinson Huron Treaty for areas along the Georgian Bay Coast and along the North Shore, the presence of overlapping treaties suggests both Robinson Huron and Williams Treaty signatories may have treaty rights related to areas off reserve. While it is difficult to determine the exact limits of treaty boundaries, **Figure 4**, provides the approximate limits of the Williams Treaty in relation to the Transmission Line – Route B study area.

As European settlers encroached on their territory the nature of First Nations population distribution, settlement size and material culture changed. Despite these changes it is possible to correlate historically recorded villages with archaeological manifestations and the similarity of those sites to more ancient sites reveals an antiquity to documented cultural expressions that confirms a long historical continuity to systems of ideology and thought (Ferris 1009). The post-contact First Nations occupation of Ontario was heavily influenced by European diseases and population movements. As Iroquoian speaking peoples, such as the Huron, Petun and Neutral were dispersed by the New York State Confederacy of Iroquois, Algonkian speaking groups from northern Ontario moved southerly into the land now abandoned. The Ojibwa of southern Ontario date from about 1701 and occupied the territory between Lakes Huron, Erie and Ontario (Schmalz 1991). This is also the period in which the Mississaugas are known to have moved into southern Ontario and the Great Lakes watersheds (Konrad 1981) while at the same time the members of the Three Fires Confederacy, the Chippewa, Ottawa and Potawatomi were immigrating from Ohio and Michigan (Feest and Feest 1978).

1.2.3 Euro-Canadian Settlement History

The eastern shore of Georgian Bay was considered a desolate and difficult place, originally thought to simply function as a hunting area for Huron, Ojibwa and Algonquin people. Initial survey consisted of efforts confined to canoes through rivers and water ways. The Northern and Pacific Junction Railway was constructed in the 1880s to connect the railways of Southern Ontario to the new transcontinental line of the Canadian Pacific Railway. Communities like Britt and Key Harbour survived as CNR ports to unload coal and oil off tankers that were coming from Lake Superior and Lake Huron (Campbell 2005). The Northern and Pacific Junction Railway became part of the Grand Trunk railroad system which opened up Parry Sound and Muskoka's isolation.

The area remained relatively untouched until the Muskoka and Parry Sound Districts were surveyed between 1866 and 1870 (Campbell 2005). Despite the surveyors reporting that the land was unfit for farming, the wealth in timber was deemed highly profitable. Communities on the Bay (i.e., Killarney, Byng Inlet/Britt, Parry Sound) developed not

as service centres for surrounding farmlands (which was the case in southern Ontario), but as isolated ports, railway stops, or company mill towns (Campbell 2005). The area was not suitable for farming, so it was mainly utilized for lumber (Belanger 1985). Roads were not considered the main option for travel because of the intense difficulties in building and upkeep required in the rugged Canadian Shield. The small communities that appeared as a result of forestry or mineral exploration relied on the Bay, and later the railway, as the primary routes for communication and transportation (Campbell 2005). Though as interest in the forestry and later mineral exploration, roads became a necessity and the government encouraged settlement through free land grants, first offered in 1853. Settlement happened slowly but accelerated when the colonization road from Rosseau to Nipissing began being built in 1866. In 1868, the government passed the Free Grand Land and Homestead Act and began advertising this extensively in European countries to attract new immigrants. These ‘Colonization Roads’ served to increase access to logging, but also to provide a way north for early settlers, and facilitated transportation between the Ottawa Valley and Georgian Bay, known as the Ottawa–Huron Tract (**Figure 5**). The government built over 1,600 km of roads over two decades. The Great North Road extended from Parry Sound northeast to Lake Nipissing. **Figure 5** provides a map of the early roads in the vicinity, with part of the study area shown. Highway 69 does not follow the route of any colonization roads; by 1955 it connected Parry Sound and the Trans-Canada Highway (Hwy 17) at Sudbury.

The 1879 historical atlas of the Parry Sound District indicates Highway 69 appears to follow an early historic roadway through McDougall Township and approximately half way through Carling Township (Harrison and Rogers 1979). Though extensive efforts were made to locate the material, there are no maps of Shawanaga or Harrison Townships in the historical atlas, and no roadway is indicated on the 1879 Parry Sound District map. **Table 2** provides a list of the current municipalities and Geographic Townships that form part of the current study area (**Figure 6**).

Table 2. Current Municipalities and Geographic Townships within the Transmission Line – Route B Study Area

District	Current Municipality	Geographic Township
Parry Sound	Township of Archipelago	Shawanaga
		Harrison
	Township Seguin	Foley
	Township of Carling	Carling
	Municipality of McDougall	McDougall
		Ferguson
	Municipality of Whitestone	East Burpee
	Unorganized Parry Sound Centre	Henvey
		Mowat
		Wallbridge
Shawanaga		

1.2.3.1 Township of the Archipelago

The Township of The Archipelago was incorporated on April 1, 1980, as the result of an amalgamation of the Townships of Georgian Bay South Archipelago and Georgian Bay North Archipelago. Before that time, the area now covered by the Township was entirely composed of geographic townships, with no prior history of local government activity other than the work done by several Local Roads Boards. The north area, north of Parry Sound and beyond, includes the Townships of Shawanaga and Harrison. The total land area of the Township of the Archipelago is approximately 85,000 ha and the many bays, rivers, lakes and water channels which constitute such an important part of the Township cover an area about three times that size. Much of the land area is undeveloped and a large part is Crown Land. In the south, 83% of the mainland and 70% of the islands remain in the public domain and in the north, 96% of the mainland and 50% of the islands. Multiple villages and towns exist within the Township of the Archipelago that have a long history in the area and should be mentioned.

In 1827, the Hudson Bay Company established a Trading Post on what is believed to be Shawanaga Landing, just south of Skerryvore along the Georgian Bay shoreline. The Post was abandoned by Hudson Bay in 1836. Archive notes refer to the possibility this trading post may have been in use before and after Hudson Bay's presence in that time frame. Several old maps done during the next few decades refer to a road to the "Old Trading Post". This may well have been the original opening of the area which is now Skerryvore. In 1892, Mr. Ole Hansen acquired two parcels of land of some 200 acres in the township of Shawanaga, by way of the Government Free Grant and Homestead Act. This now makes up the mainland portion of Skerryvore. In 1910, Mrs. Elizabeth Barker purchased the property from Mr. Hanson. She then built a 70 guest hotel and named it The Skerryvore Hotel. The town of Skerryvore was named after that hotel located on the property at the end of Lookout Lane. The hotel operated until 1960 when it and the mainland property were purchased by Albert Taylor, a local contractor and developer. By the mid-1960s the hotel was torn down. In the late 1960s, there was an increase in the promotion of the sale of mainland and island cottage lots under the banner name of "Ojibway Sands". A road was built linking the existing Shebeshkong Road to the bay giving vehicle access. The construction of the road caused some conflict between the Skerryvore property owners and the Shawanaga First Nation group about whether the road should be public or private access, respectively. Over the course of the next 25 years, between road closures, court battles and law suits, the court declared the road private access. The Ontario Government and Skerryvore property owners developed a road that bypassed the First Nation property to allow public road access. In late spring of 1997, the new road opened and was named The Skerryvore Community Road. It has the distinction of being the one and only public road in Ontario partly paid for by the private property owners of the area (The History of Skerryvore *n.d.*).

The Geographic Township of Harrison was named in 1876 for Robert Alexander Harrison (1833-78), a Toronto lawyer. He was one of the arbitrators of Ontario's northwestern Boundary in 1876 and chief Justice of the Court of Queen's Bench for the Province, 1875 to 1978 (Rayburn 1997). Within the Geographic Township of Harrison, the town of Pointe au Baril is located along Georgian Bay. Town named after the barrel on the point that originally marked the treacherous entry to the main channel from the open water of Georgian Bay, first documented in 1870s (McCuaig 1989). The appearance of this barrel is from early Penetanguishene fur traders who lost a canoe near the point, which included a barrel of whiskey. This barrel was later found, emptied, and left on the point as a marker. French mariners were soon calling it Pointe au Baril. Later this marker was improved to include a lantern in the barrel that would be lit by the first fisherman returning inland to light the way for the rest of the boats. The current village that was built around the train station, called Pointe au Baril Station, is located along Highway 69. Two historical landmarks exist here, consisting of a lighthouse and the fire tower. The lighthouse was first operational in 1889, and is a Recognized Federal Heritage Building (Parks Canada 2001). The fire tower was erected in the 1920s to act as an early detection system for forest fires in the region. The tower was 80 feet high, and located near the centre of the village. It was disassembled in the early 1970s, however, the original footings still remain. Industry in the area included commercial fishing beginning in the late 1800s and lumber industry that was prosperous until the end of World War II. A monument to commemorate the 1615 travels of Samuel de Champlain in the area was erected in the 1940s (McCuaig 1989).

1.2.3.2 Township of Seguin

The Township of Seguin was created in 1997, through the amalgamation of the former townships of Christie, Foley and Humphrey, the village of Rosseau, and a western portion of the unorganized township of Monteith. The Geographic Township of Foley was named in 1866 for Michael Hamilton Foley (1820-70), a prominent reformer who represented Waterloo North in the Legislative Assembly of the province of Canada 1854-64, and served as postmaster general in three administrations between 1858 and 1864 (Rayburn 1997).

The Humphrey School House Museum was built out of hand hewn logs in the early 1870s on approximately 0.2 ha of land donated by the Symington family to house the congregation of the Trout Lake Methodist Church. Church records show services being conducted by 1873. The building later became a rural one room school where many received their early education. Closed in 1956, students were relocated to Humphrey School at Sandy Plains. The school sat empty until 1973, when 6 students under a provincial grant program rebuilt the museum (Seguin Township 2012).

Foley was first surveyed in 1866 by Mr. Stewart, who noted the presence of iron ore visible in the vicinity of Otter Lake. First settlers in the area included William Wilcox, Thomas McGown, and William Scott. Parry Harbor, formerly Carrington, is the largest town in Foley, and consisted of a saw mill, planing mill, shingle mill, hotels, a store, school house, blacksmiths' shops, a church, wagon and carriage shop, post office and telegraph office (Harrison and Rogers 1879). The Guelph Lumber Company began operations in Parry Harbor in 1873, where they cut eleven million feet of saw logs a year, then transported to the mill down the Seguin River. A steam barge called The Vanderbilt, would make regular trips from the mill each year to Sarnia and Duluth (Harrison and Rogers 1879)

1.2.3.3 Township of Carling

The Geographic Township of Carling was named in 1873 for Sir John Carling (1828-1911) the president of London-based Carling Brewing and Malting Company. He held many important cabinet positions; including commissioner of agriculture and public works in Ontario 1867 to 1871 and postmaster general, 1882 to 1885 and minister of agriculture for Canada 1885 to 1892 (Rayburn 1997). It was first surveyed in 1873 by James Bolger, who stated a little over a third of the area was fit for settlement (Hamilton and Rogers 1879). Early settlers in Carling include Robert Blair, John McNair, Arthur Starkey, and Joseph Cole. Moore & Atkins owned a saw and shingle mill on Syme's Creek near Georgian Bay. Lumber was shipped from this mill to ports along the Welland Canal (Hamilton and Rogers 1879).

1.2.3.4 Municipality of McDougall

The Township of McDougall was originally incorporated on May 1, 1872 and was named after William McDougall, one of the Fathers of Confederation (Rayburn 1997). In 2000, the merger of the Township of McDougall and the unorganized Township of Ferguson created the Municipality of McDougall.

McDougall was surveyed in 1866. The Seguin River was a very significant artery for saw log driving, fed immediately by Mill Lake, where a dam had been erected (Hamilton and Rogers 1879). Ferguson was surveyed in 1869, and early settlers include Samuel Botteral, John Lamb, George Van Camp, Louis Stiller, and Hugh Shields. The village of Waubamik is located within this township, and consists of a post office, carpenter's shop and store (Harrison and Rogers 1879).

1.2.3.5 Municipality of Whitestone

The Municipality of Whitestone was incorporated in 2000, and consists of the Geographic Townships of East Burpee, Burton, McKenzie, Ferrie, Hagerman, and part of Croft, as well as the communities of Ardbeg, Dunchurch, Maple Island, and the village of Whitestone. The Transmission Line – Route B study area clips the southwest edge of the Geographic Township of East Burpee.

The Burpee Township was named in 1876 for Isaac Burpee (1825-85), Liberal member for Saint John, NB, in the House of Commons, 1872 to 1885, and minister of customs in Alexander Mackenzie's Liberal government, 1873-1878. In 1967 it was renamed East Burpee Township to distinguish it from Burpee Township in Manitoulin District (Rayburn 1997).

1.2.3.6 Unorganized Township of Henvey

This Township was named after Henvey Inlet in 1912. Admiralty surveyor Henry W. Bayfield named the Inlet in 1822 after Lt. William Henvey who had served the St. Lawrence in 1815 (Rayburn 1997). Initial survey of Henvey was conducted along the Still River in 1912, where multiple dwellings and barns were located on both sides of the river and along the CPR line (Survey Field Notes 1912).

The Canadian Pacific Railway (CPR) runs through the township, which opened in June 1908, to connect Parry Sound and Sudbury in response to increasing competition for connection to Ontario communities in order to facilitate the lumber industry.

Three mines are located within Henvey Township; Ambeau Mine, Besner Mine, and Britt Station occurrence. The Ambeau Mine deposit was worked for feldspar in 1926-1927 by Wanup Feldspar Mines Limited, with shipments totalling 907 tons being made (Sabina 1986). The Besner Mine (Bessner; Henvey pegmatite) consisted of a granite pegmatite dike, which was worked for feldspar from 1926 to 1929 by Wanup Feldspar Mines Limited, totalling shipments of approximately 2,268 tons of feldspar. It was the largest feldspar operation in the district (Kuroda and Sherrill 1977). The Britt Station occurrence was a smaller operation consisting of a granite pegmatite dike in folded quartz paragneiss and hornblende gneiss. (Rose 1960).

1.2.3.7 Unorganized Township of Mowat

The Township was named in 1879 after Sir Oliver Mowat (1820-1903), who was a distinguished Parliamentarian for over forty years. He served as premier of Ontario from 1872 to 1896, then as federal minister of justice while a senator from 1869- 67, and finally as the eighth Lieutenant Governor of Ontario from 1897 to 1903. He was also a father of confederation (Rayburn 1997).

There are small village towns scattered throughout the Township of Mowat that prospered during the lumber industry. Mowat contains two such towns, Ludgate and Pakesley. Ludgate was initially a timber depot, named after one of the timber contractors, James Ludgate (Charbonneau 2000). This flag station was established to supply surrounding lumber camps after the arrival of the CNR in 1908. Ludgate moved his milling operation from the McKellar area to this small siding and station stop south of Portage Lake around 1917. This move was precipitated by the additional purchase of timber reserves in the Mowat Township. The village consisted of the mill and spur line, blacksmith shop, cookery and office that later became a store, a slab and sawdust disposal yard, and various dwellings for employees. One of these dwellings would later be used as a school. The post office was situated in the store, which operated from 1927 to 1954 (Charbonneau 2000). Only three structures remain today, including an office, one home and a bunkhouse. The structures are located on privately owned land. The sawmill village is located 2.8 kilometres south of Pakesley, where the CNR crosses the Key and Little Key River, east of Portage Lake. It was conveniently located near the intersection of the CPR and CNR lines (Charbonneau 2000).

Pakesley was established in 1912 and was a whistle stop along the CPR line from Sudbury to Toronto (Charbonneau 2000). Following the completion of the Key Valley Railway (KVR) from Lost Channel to Pakesley in 1919, the Schroeder Lumber Company established a large lumber yard. Pakesley grew to become an important satellite village for the lumber operations situated at Lost Channels. After construction began on the KVR, a store and post office opened in 1917, followed by employees' homes, school, hotel, and ranger station. By 1924 Pakesley had reached its zenith, containing about 150 residents and nearly 30 structures. To reflect this new prosperity, the CPR added a larger seven-room station that same year (Charbonneau 2000). However, Pakesley suffered greatly during the Depression, when in 1935 the mill at Lost Channel finally closed, as did the KVR. The post office closed in 1950, along with the majority of businesses in the village. By 1958 the watch tower was closed, replaced by aerial surveillance, and the CPR section removed, the station torn down in 1971. All that remains are three original dwellings, some partially in use, and some foundations (Charbonneau 2000).

1.2.3.8 Unorganized Township of Wallbridge

The Wallbridge Township was named in 1879 after Lewis Wallbridge (1816-87), a moderate Reformer who was then speaker of the Legislative Assembly of the province of Canada and Chief Justice of Manitoba (Rayburn 1997). It contains Byng Inlet and the village of Britt. The CPR runs north-south through the centre of the township (Annulment Survey Map 1955).

The post office in Britt was located on the north side of Byng Inlet, 62 km north west of Parry Sound. It was known as Byng Inlet North from 1885 to 1913. The CPR station was first known as Dunlop, but was renamed after Thomas Britt, once the head of the CPR's fuelling depot in Montreal. The post office was reopened as Britt in 1927 (Rayburn 1997). The original 1879 survey map of the Township of Wallbridge illustrates four mill locations on both sides of the river west of the Magnetawan Indian Reserve No. 1 (Beatty Field Notes 1879).

Byng Inlet was established in 1868 and named after the English Admiral John Byng, who was court-martialled and executed for cowardice in 1757 (Rayburn 1997). In 1888 the Holland and Graves Co. opened a sawmill in Byng Inlet, which grew to become the second largest sawmill in Canada and the busiest in Ontario. Byng Inlet also included a theatre, hotels, bakery and a school. A post office was opened on July 1, 1868. In 1912, the mill caught fire. It was rebuilt and in 1917 renamed Graves, Bigwood and Co. A second fire followed in 1920. Unfortunately, Byng Inlet suffered the misfortune of being completely sustained by a single industry. When the mill finally closed down for good in 1927 the majority of workers and their families left the area. The mill was demolished shortly after that, and today remains of the mill can be seen lying along the shoreline. Byng Inlet isn't completely abandoned, and is a popular spot for seasonal and recreational activities (Danyleyko 2000).

1.2.3.9 Magnetawan Reserve No. 1

In 1852, surveyor John Stoughton Dennis (1820-1885), then sitting on the Surveyors' Board of Examiners, noted that the "reserves are to be barren and unproductive except for fishing purposes, [and] seem to be of very little value." (Dennis 1852). When expression of interest in the timber on the reserve was received, the crown sold the timber rights by public auction in 1863. Recognizing a possible oversight William Plummer (1819-1890), the Northern Superintendent of Indian Affairs, intervened and signed a surrender treaty for merchantable timber on the reserve at Mechegahovedahnung (Manitowaning) in 1869, and the firm of Clarke White & Co. was permitted to harvest burnt timber from reserve properties. Sometime after that date the surrender of timber treaty was revoked so that by 1920 the reserve was allowed to export nine hundred cords of pulpwood (Magnetawan First Nation 2013).

The surrender also allowed the erection of a sawmill, in exchange for monies received minus management costs. While details of this lumber mill remain elusive, local Britt residents remember as children, seeing the remains of this mill and playing in the midst of its abandoned machinery.

Lands occupied on a permanent basis by the First Nation community were described by the surveyor W. Galbraith in his 1909 survey report as being on the north-west corner of the reserve along the south shore of the Magnetawan River where a limited amount of farm land was under cultivation. In 1874 the band had received a loan for \$26 to purchase oxen, plough and logging chains. These loans, repaid on May 21, 1891, allowed both for the opportunity to farm as well as engage in lumbering. In 1917 more senior First Nations farmed 18 acres, which had been cleared and fenced while the younger members of the band worked in lumbering. The remains of a cadge road built sometime around 1884 are visible in 2004 running northwest from the foundations of the Byng Inlet railway station to the original village. Today, the village is abandoned with only a cemetery and several foundations including that of a school, a Roman Catholic Church, and some houses (Magnetawan First Nation 2013).

The number of on-reserve residents had almost declined to zero when the Noganosh clan decided to return to their traditional lands. The new village was located along Highway 529 on a street built north from Highway 529 to the Magnetawan River, west of Highway 69. Today the reserve is known as the Magnetawan First Nation. Early twentieth century Chiefs included Peter Noganosh in 1917, Samuel Noganosh in 1920 and David Noganosh in 1930. The reserve originally fell under the control of the Manitowaning Indian Agency on Manitoulin Island before being transferred to the Parry Sound Agency in 1886. The current band council was formed in 1971 after a gap from before 1949 (Magnetawan First Nation 2013).

Highway 69 at the Magnetawan River was developed around 1940 when the highway was extended north from Point-Au-Baril to Britt. The outbreak of World War II halted any further expansion of the highway north due to a shortage of men and materials (Beavers 2013).

1.2.3.10 Shawanaga Reserve No. 17 and Naiscoutaing Reserve No. 17A

The Shawanaga and Naiscoutaing Reserves both belong to the Shawanaga First Nation, who are an Independent Ojibway First Nation. These Reserves are both within the boundary of the Robinson-Huron Treaty of 1850.

1.3 Archaeological Context

1.3.1 Natural Environment

Northwestern Ontario consists of bedrock that is Precambrian in age (Dredge and Cowan 1983; Teller and Thorleifson 1983). The Canadian Shield is united by two distinctive characteristics, the mixed forest of coniferous and deciduous trees and the ancient bedrock of the southern edge of the Canadian Shield. The Hudson Bay Lowlands are found further to the north, and consist of Devonian and Silurian bedrock mantled by poorly drained marine (Tyrrell Sea) sediments. The Boreal Forest mantles the Shield, but with the southern edge containing the mixed wood Great Lakes-St. Lawrence Forest. The land consists of knobby wooded hills incised by rivers and streams, often backed up by numerous beaver dams and rocky ledges, and dotted with thousands of lakes. Extensive areas of exposed bedrock are common, much of it having been scraped clean by glacial movement; while in other areas deposits left by glacial river meltwater soften the relief (Zoltai 1965). Glacial action contributed deposits of till in moraines or drumlins. Subsequent glacial lakes left beds of clay in some valleys, while sand deposits marks where the rivers met the lakes. The surficial geology of the study area is illustrated on **Figure 7**.

The complex history of deglaciation and meltwater lake formation and drainage in Northwestern Ontario is not completely understood, although there is extensive literature presenting interpretations and hypotheses (Dyke 2004; Larson and Schaetzl 2001; Leverington and Teller 2003; Lowell et al 2009; Teller 1995; Zoltai 1965). The complex formation processes and subsequent drainage of the glacial lakes, in combination with many geomorphic processes, had a profound effect on the surrounding topography and distribution of early archaeological sites in Northwestern Ontario. Through a complex lake history, the intense convergence of water from Glacial Lakes Agassiz in Manitoba, the Tyrell Lake over modern day Hudson's Bay, resulted in the erosion of a moranic barrier between Nadoway Point, Michigan and Gross Cap, Ontario that controlled the post-Minong levels of the Lake Superior Basin and Glacial Lake Algonquin levels over Lake Huron (**Figure 8**) (Slatterly et al 2007; Farrand and Drexler 1985; Yu et al 2010; Booth 2002; Lewis 2007).

Glacial Lake Algonquin encompassed the modern Lake Michigan basin, the modern Lake Huron basin and the southeastern Lake Superior basin ~11,200 to 10,400 years ago (Jackson et al 2000). It extended inland from modern Georgian Bay to the area surrounding the current Lake Simcoe basin (Karrow 1975). As the glaciers retreated, isostatic rebound resulted in the draining of the lake east through the Ottawa River into the St. Lawrence River. By approximately 10,000 years ago, water levels had dropped dramatically to much below those of modern times forming Lakes Stanley and Hough in the modern Huron and Georgian Bay basins, respectively (Jackson et al., 2000). These lake fluctuations resulted in the creation of moraines and beach ridges that became attractive to Paleo peoples. The glacial lake levels of all of the early Great Lakes are complex and inter-related; each affecting the other in various ways as ice retreated and melted. The lake levels rose and fell accordingly thereby creating the deposits observed within the existing topography. The current study area would have been under the Laurentian ice sheet until the glacier receded. After the recession of the ice sheet, the study area would have been completely inundated by Glacial Lakes Algonquin until this lake receded (**Figure 8**).

As the glaciers and glacial lakes receded, forests spread into southeastern Ontario approximately 10,000 years ago and through the pollen analysis vegetation associations can be determined. **Table 3** provides details on the post-glacial vegetation of this part of Ontario.

Table 3. Post Glacial Vegetation History

Time	Forest Characteristics
>8600 BC	Open spruce forest in dwarf-shrub tundra. Spruce (<i>Picea</i>) dominant, with willow (<i>Salix</i>) and pine (<i>Pinus</i>); weeds: wormwood and ragweed (<i>Ambrosia</i>)
8600 – 5500 BC	Climate changing from cold to cool and dry. Open pine forest. Pine dominant, declining spruce, modestly increasing oak (<i>Quercus</i>).
5500 – 2700 BC	Climate changing from cool and dry to warm and wet. Mixed coniferous-deciduous forest. Moving towards Hemlock (<i>Tsuga</i>) dominance, with decreasing pine, rise of basswood (<i>Tilia</i>) and hickory (<i>Carya</i>)
2700 – 1000 BC	Decline of hemlock and rise of birch (<i>Betula</i>)
1000 BC – AD 1800	Recovery of hemlock. Hemlock dominance, increasing beech (<i>Fagus</i>), elm (<i>Ulmus</i>) and birch; declining pine and oak.
1800 - present	Deforestation stage. Post-settlement vegetation. Increasing non-arboreal (not from trees) pollen, e.g., ragweed denoting time transgressive onset of impacts of lumbering, mining, and agriculture 1880 CE: Chestnut decline 1930 CE: Elm decline

Taken from Schoch and Rowsell (2013)

The HIWEC Transmission Line – Route B study area is characterized by forest with numerous lakes, streams and bedrock outcrops. The topography and drainage of the area is controlled entirely by the bedrock. It is located on the Georgian Bay Fringe as defined by Chapman and Putnam (1984). The Georgian Bay Fringe area is approximately 334,000 ha in size and covers most of the District of Parry Sound. The area is characterized by very shallow soil with exposed rock knobs and ridges. The physiography of the area is described as Shallow Till and Rock Ridges (Chapman and Putnam, 1984). The Canadian Shield had an abundance of dense forests dominated by white pine prior to European logging practices.

In addition to quartz outcrops, copper deposits at the surface level were also important sources of trade items for First Nations groups. The Ministry of Northern Development and Mines' *Mineral Deposit Inventory* (2012) illustrates the occurrence of a few copper deposits within the study area; however, these deposits are not identified specifically as "outcrops" in the Inventory and, therefore, it is unlikely that these copper deposits appear on the surface. According to the Mineral Deposit Inventory surface copper outcrops only occur north of Lake Huron and Georgian Bay. It is important to note that this Inventory may not capture all copper outcrops in Ontario.

The Transmission Line – Route B study area crosses the Magnetawan River. The Magnetawan River rises in Algonquin Park and flows almost due west to empty into Georgian Bay at Byng Inlet, dropping about 245 m over a distance of 175 km. The name in Ojibwa means "long open channel," in reference to the shape of Byng Inlet, at the mouth of the river (Rayburn 1997).

The HIWEC Transmission Line – Route B study area also includes numerous lakes, rivers, creeks and streams, the shorelines of which retain potential for archaeological resources. In addition to these sources of potable water and transportation are wetlands, which were a source of rich natural resources related to hunting and plant collection throughout the history of eastern Ontario. Camps associated with wetlands would be located on well drained areas in close proximity, or on ridges that extend into the wetland areas. The shorelines of wetlands alone do not retain archaeological potential.

1.3.2 Previous Archaeological Assessments, Registered Archaeological Sites and Cemeteries

A request was made to Archaeology Data Coordinator Robert von Bitter of the MTCS on February 10, 2015 for information on registered archaeological sites surrounding the Transmission Line – Route B study area from the provincial Archaeological Sites Database. The database search resulted in the identification of five registered archaeological sites located within the study area boundaries, listed in **Table 4** below.

Table 4. Archaeological Sites within the Transmission Line –Route B Study Area

Borden #	Site Name	Cultural Affiliation	Site Type/Feature	Researcher
BkHd-2	Besner	First Nation	Findspot	Allen 2001
BkHc-1	Magnetawan	First Nation	Findspot	Wright 1968, Allen 2001
BiHa-4	Mountain Basin Landing	Euro-Canadian	Wall	Allen 2001
BjHc-1	Mont-View Lodge	First Nation	Findspot	Wright 1968
BjHb-1	Shawanaga	First Nation	Campsite	New Directions Archaeology 2005

Multiple archaeological assessments have been conducted along Highway 69 during the road widening process. A Stage 1 archaeological assessment was conducted by Woodland Heritage Services Ltd. (WHS) in 2004 for a portion of Highway 69 that was to be widened from Six Mile Lake north to Highway 522, and identified a number of areas that required further work. WHS completed Stage 2 assessments within the MTO ROW in 2005 and 2007 and found no archaeological material. As the design of the highway changed, URS was contracted by the MTO to conduct Stage 2 assessments of lands included in the new detail designs. The Stage 2 was conducted within the ROW between 2010 and 2013, and one archaeological site was identified (URS 2014). This site was previously registered as the Wagamake site (BIHd-2) by a local avocational archaeologist. URS conducted a Stage 3 of the Wagamake site (BIHd-2) in 2013, which consisted of large piles of antiquated, but intentionally constructed piles of stone east of HIFN near Bekanon Road. The Stage 3 consisted of systematically excavating the piles of stone, but no archaeological materials were recovered (URS 2013). Upon further research, URS noted that similar stone piles elsewhere in central Ontario were the result of small-scale 19th to 20th century quarrying by landowners in order to sell building materials for road or railway construction, or for use in barn foundations (URS 2013:7). New Directions Archaeology Ltd conducted the Stage 1 for the remainder of the road widening in 2004 from Six Mile Lake south to the portion of the current highway that is already been divided, north of Nobel. Stage 2 investigations were conducted within the proposed ROW in areas within 50 m of major water sources in 2004. The Shawanaga Site (BjHb-1) was discovered, where Stage 3 investigation was followed by Stage 4 mitigation in 2006 (New Directions 2007). This site was likely a campsite that yielded hundreds of lithic flakes and tools. **Figure 9** illustrates the areas that have been subject to Stage 1 archaeological assessment. **Figure 10** (a-e) illustrates the areas that have been subject to Stage 2 archaeological assessment in relation to the current study area. **Table 5** lists the related archaeological assessment reports for work conducted in the area.

Table 5. Related Archaeological Assessment Reports

Year	Title	Author	PIF
2004	<i>Stage One Project, Preliminary Archaeological and Cultural Heritage Resource Assessment – Highway 69 Four Laning W.P. 5377-02-00</i>	Woodland Heritage Services Ltd. (WHS)	P016-039
2005	<i>Stage II Archaeological Assessment, Highway 69 Four Laning, W.P. 537-02-00, MR Project #5271 – Northern Portion</i>	WHS	P016-039
2006	<i>Stage 1-3 Archaeological Assessment of Highway 69, From 3.5 km North of Highway 559 to Six Mile Lake, District of Parry Sound (W.P. 5377-02-00)</i>	New Directions Archaeology Ltd.	P018-056 & P018-093
2007	<i>Stage II Archaeological Assessment Highway 69 Four Laning, W.P. 537-02-00, MRC Project #5271 – Northern Portion, 2007 Changes</i>	WHS	P065-052-2006

Table 5. Related Archaeological Assessment Reports

Year	Title	Author	PIF
2007	<i>Stage 4 Archaeological Assessment of the Shawanaga Site (BjHb-1), District of Parry Sound (W.P. 5377-02-00)</i>	New Directions Archaeology Ltd.	P018-174-2006
2011	<i>Stage 2 Archaeological Assessment, Highway 69 Four Laning From 1.7 km North of Highway 529 to 3.9 km North of Highway 522, District of Parry Sound</i>	URS	P123-097-2010
2013	<i>Stage 3 Archaeological Assessment of the Wagamake Site (BIHd-2), Concession 8, Township of Henvey (Unorganized), District of Parry Sound</i>	URS	P123-069-2011
2013	<i>Stage 1 Archaeological Assessment – Hwy 69 Four Laning from 5.3 km South of Highway 529 (north Junction) northerly to 2.2 km north of Highway 529 (north Junction)</i>	WHS	P065-192-2013
2014	<i>Stage 2 Archaeological Assessment, Highway 69 Four Laning, South End Transition to Existing Highway 69 (From 1.7 km north of Highway 529 to 3.9 km north of Highway 522), District of Parry Sound</i>	URS	P123-0199-2013

Though the ASDB only yielded five registered archaeological sites within the Transmission Line – Route B study area, other notable sites have been discovered in the surrounding region, beyond the 1 km buffer the MTCS provides in their records. These are important to note because of the lack of discovery of archaeological sites, which points towards the lack of archaeological work conducted in the area, not necessarily that there are none present. These are listed in Table 6 below, and consist primarily of findspots located by J.V. Wright in 1961. Unfortunately, the original document containing the descriptions of these finds could not be located so much of the information is missing. Table 6 details the archaeological sites located beyond 1 km of the Transmission Line – Route B study area.

Table 6. Archaeological Sites beyond 1 km of the Transmission Line – Route B Study Area

Borden #	Site Name	Cultural Affiliation	Site Type/Feature	Researcher
BIHd-2	Wagamake	Historic	Rock Formations	URS 2013
CaHe-1	CNR Upstream	N/A	Findspot	J.V. Wright 1961
CaHe-2	Upriver From Flowerpot Bay	N/A	Findspot	J.V. Wright 1961
CaHe-5	Potvin Island	N/A	Findspot	J.V. Wright 1961
CaHe-6	Main Outlet	N/A	Findspot	J.V. Wright 1961
CaHe-7	Pickrel 2	N/A	Undetermined	J.V. Wright 1961
CaHe-11	Ox Bay Pictographs	Woodland	Pictograph	Thor Conway 1974
CaHd-4	Golf Course	N/A	Findspot	J.V. Wright 1961
CaHd-6	First Rapids	N/A	Findspot	J.V. Wright 1961
CaHd-7	West Dry Pine Bay	N/A	Findspot	J.V. Wright 1961
CaHd-11	Recollet Falls Pictograph	Pre-contact	Pictograph	Dewdney 1981
CaHd-12	French River Pictograph	Pre-contact	Pictograph	Thor Conway 1981
CaHd-14	Recollet Falls	First Nation, Euro-Canadian	Campsite	Thor Conway 1981
BIHe-1	Pickrel River Pictograph	Woodland	Pictograph	Thor Conway 1975
BIHe-2	Nekickshegeshing	Contact First Nation	Village	Allen 2008
BIHd-1	Percy Currie Site	First Nation	Campsite	ASI 1999, 2007
BIHd-3	Nekickshegeshine Wabanong	First Nation	Village	Allen 2008

Archaeological assessments are few and far between for this part of Ontario. When they have been done in the past, it was not necessarily to the same standards as archaeological information is collected today. The majority of the information is published in obscure grey literature that is generally inaccessible, either because it is not digitized, or it is simply too old that original copies could not be located. Early assessments began in the early

1900s by Emmerson Greenman in the vicinity of Killarney (Greenman 1951; 1966). Modern archaeological surveys began along the east coast of Georgian Bay in the 1960s to 1980s by J.V. Wright. Simultaneously, south of the study area, near Parry Sound, Bruce Emerson conducted work in the Blackstone Harbour Provincial Park, where he located 33 sites (Ontario 1974; Pollock 1999). Other sites have been confirmed in the area, the majority coming from archaeological surveys of Highway 69 four lane expansions, north of the French River towards Sudbury (Pollock 1999).

Wright (1965) provides a summary of the archaeological sites discovered in the Upper Great Lakes area. The Shebeshekong site is situated on Georgian Bay near the mouth of the Shebeshekong River. The site was excavated in 1955, unearthing two components; one contact period and one pre-contact (Wright 1965). Features were limited to several large pits associated with the pre-contact component. The contact period component consisted of artifacts from the 17-18th centuries. The artifact assemblage included trade beads, gunflints, clay pipe bowls, ceramics both Huron-Petun and Blackduck, stone tools such as wedges, scrapers, projectile points, and copper (Wright 1965). The Frank Bay site is located along the south shore of Lake Nipissing near the mouth of the French River, which was excavated in 1954 by Frank Ridley. The occupation dates back to 1,000 BC (3,000 years B.P) and contains Huron-Petun ceramics and some linear stamped pottery common to northern Michigan, all associated with 17th century European trade goods (Ridley 1954; Wright 1965). Six dog burials were also present, believed to represent the ceremonial butcher and/or sacrifice sometime in the 11th century (Brizinski and Savage 1983). Much remains unclear surrounding this social ritual of butchering and binding dog remains; it could possibly have some relation to the historic Nipissing Feast of the Dead ceremony, as documented by the Jesuits (1896-1701).

Further south, work was done by Norman Emerson in the Blackstone Harbour area near Parry Sound during the early 1970s. Numerous pre-contact sites ranging from quartz quarry locations to small occupation sites are located close to major lakes and rivers, while quartz acquisition sites are often located at a greater distance from water, where a suitable seam of toolstone quality quartz was accessible at the surface (Archaeologix 2004; AFBY Archaeological & Heritage Consultants 2001). A single pukasaw pit was reported also (Ontario 1974: 11).

The Ontario Cemeteries Register was consulted as part of this study to identify any cemeteries within the limits of the study area. No registered cemeteries are listed within the current study area (MGCS 2014).

1.3.3 Current Conditions

The Transmission Line – Route B study area consists predominantly of Crown-owned or managed lands made up of extensive mixed forested hills, exposed bedrock and numerous lakes and rivers. The population is small and modern settlement is concentrated along the lakes and rivers that run through the area, just as the earliest settlements in the area were. Logging practices are still conducted albeit at a smaller scale than during the hey-day of logging in the 1800s. Seasonal recreation facilities and cottages are numerous and tourism is an important industry in the area, particularly along the coast of Georgian Bay. The typical natural environment of the Transmission Line – Route B study area is exposed Canadian Shield bedrock with a significant number of rivers, lakes, and streams cutting through it. This is a rural setting with a sparse population of small farms and communities concentrated along shorelines and major roads. Current industry includes aggregates and quarries, fisheries, tourism, and logging.

Highway 69 runs along the western side of the majority of the study area, which is part of the Trans-Canada Highway, linking Sudbury to Parry Sound. This highway is fairly modern, completed in 1950s, and does not represent a historic road route for the majority of the Transmission Line - Route B study area. However, Highway 69 appears to follow an early historic road through McDougall Township and approximately half way through Carling Township (Harrison and Rogers 1879). The old Highway 69 alignment between Shebeshekong Road and Shawanaga became Highway 559, while the old alignment between Pointe-au-Baril and Byng Inlet became Highway 529 (Bever 2013).

2. Analysis and Conclusions

2.1 Archaeological Potential Analysis

Archaeological potential is established by determining the likelihood that archaeological resources may be present on a subject property. Criteria commonly used by the Ontario MTCS (Ontario Government, 2011b:17-18) to determine areas of archaeological potential include:

- Proximity to previously identified archaeological sites;
- Distance to various types of water sources;
- Soil texture and drainage;
- Glacial geomorphology, elevated topography and the general topographic variability of the area;
- Resource areas including food or medicinal plants, scarce raw materials and early Euro-Canadian industry;
- Areas of early Euro-Canadian settlement and early transportation routes;
- Properties listed on municipal register of properties designated under the *Ontario Heritage Act* (Government of Ontario 1990b);
- Properties that local histories or informants have identified with possible archaeological sites, historical events, activities or occupants; and
- Historic landmarks or sites.

Certain features indicate that archaeological potential has been removed, such as land that has been subject to extensive and intensive deep land alterations that have severely damaged the integrity of any archaeological resources. This includes landscaping that involves grading below the topsoil level, building footprints, quarrying, sewage and infrastructure development (Ontario Government, 2011b, Section 1.3.2).

2.1.1 Known Archaeological Sites

Five registered archaeological sites are situated within the HIWEC Transmission Line – Route B study area and archaeological potential is elevated in proximity to each of these known and registered sites. In accordance with Section 1.4 Standard 1.c.i. of the *Standards and Guidelines for Consultant Archaeologists*, all land within 300 m of a registered archaeological site must be subject to Stage 2 archaeological assessment (Ontario Government, 2011b). However, as the Transmission Line – Route B study area is located within the Canadian Shield, Section 1.4 is superseded by Section 2.1.5, Standard 2 which states that Stage 2 survey is not required beyond 150 m of features of archaeological potential. While five archaeological sites have been registered within the study area limits, it is important to note that this is not because archaeological sites do not exist, but rather because there have been very few development activities that would have triggered an archaeological assessment that would identify them.

It is also important to note that archaeological potential exists in and around areas other than in the ground. More than 400 rock art paintings adorn the cliff faces of the Canadian Shield that date back to over 2,000 years ago (Dewdney and Kidd 1962, Rajnovich 1998). These paintings are a legacy of the Algonkian-speaking First Nations of the Canadian Shield, who traditionally put picture writing onto birch bark, copper, wooden objects, and stone. Four registered Pictograph sites are present in close proximity to the current study area, including Ox Bay Pictographs (CaHe-11), Recollet Falls Pictograph (CaHd-11), French River Pictograph (CaHd-12), and Pickerel River Pictograph (BIHe-1), which clearly demonstrates the importance of this area to First Nations people. Section 4.2.7 of the *Standards and Guidelines for the Conservation of Historic Places in Canada* recommends that rock art

be documented using non-invasive methods, and that it be preserved and stabilized *in situ* (Government of Canada, 2010). Archaeological site locations are not subject to Freedom of Information Act as disclosing their locations has led to looting or other destructive activities. For this reason the exact location of archaeological resources will not be provided in this report.

Raw material quarrying of quartz has been identified in the surrounding regions at other archaeological sites along the east coast of Georgian Bay (AFBY Archaeological & Heritage Consultants 2001). Bedrock outcrops should not only be examined for potential rock art, but also for areas where quarrying activities for the purposes of raw material acquisition to create stone tools, such as spear tips. Quartz spear tips have been found in close proximity to the HIWEC study area, and are currently on display in French River Provincial Park (Joe Herbert, pers comm 2014). However, quartz is a notoriously difficult material to analyse (Knight 1991), therefore caution should be exercised when/if it is encountered when determining if the stone has been modified by human activity or natural processes.

2.1.2 Natural Environment Features

The evaluation of archaeological potential based on the proximity of the study areas to water sources must take into account a number of factors. A basic example would be the difference between an accessible shoreline versus an inaccessible shoreline, as the potential for archaeological sites to be present is elevated in areas where there is easy access to water. Archaeological site locations and site types are affected in varying degrees by proximity to different types of water sources and shorelines. Primary sources of water such as lakes, rivers, streams and creeks are reliable sources of drinking water and transportation routes, while secondary water sources such as seasonal streams and creeks, springs, marshes and swamps are intermittent sources of potable water. Features indicating past water sources, for example glacial lake shorelines, relic river or stream channels and shorelines of drained lakes or marshes are archaeologically significant features that indicate archaeological potential.

In the Transmission Line – Route B study area there is an abundance of water sources, as attested by the extensive wetlands, small streams, and numerous lakes. Lakes and large rivers are the most important foci of pre-contact settlement, as are substantial rivers and streams, and indicate high archaeological potential. The shoreline of glacial Lake Algonquin is located outside the Transmission Line – Route B study area limits to the east. The Transmission Line – Route B study area is situated entirely on Canadian Shield and bedrock terrain with elevated, densely forested topography between the various watercourses that transect the land.

2.1.3 Areas of Early Euro-Canadian Settlement and Industry

Areas of early Euro-Canadian settlement are indicated on the 19th and 20th century maps and from archival research conducted during the course of the study. The earliest roads within the study area consisted of gravel roads to facilitate lumber transportation, and were developed in the late 1800s. Along these roads, early milling villages sprung up. There are only few post offices mentioned in the extensive background study. They are located at two locations of abandoned villages that prospered during the height of the lumber industry in the early 1900s. The creation of the CPR line through the study area would have connected Parry Sound to Sudbury in the north, providing a direct route north for mineral and lumber exploration. Each of these historic features contributes to the archaeological potential within the HIWEC Transmission Line – Route B study area.

2.2 Conclusions

The small number of archaeological assessments in the area has resulted in a limited understanding of pre-contact First Nations occupation practices in this part of the Province; therefore, archaeological potential modeling is based on the requirements outlined in the *Standards and Guidelines for Consultant Archaeologists* (Ontario Government 2011b). While Section 1.4 in the *Standards and Guidelines for Consultant Archaeologists* outlines the conditions

for recommendations for the reduction of test pit survey coverage, this is superseded for the Transmission Line – Route B study area by Section 2.1.5 as the land has been demonstrated to be situated entirely on Canadian Shield (Ontario Government 2011b).

2.2.1 Pre-contact First Nations and Contact Period Archaeological Potential

The potential for pre-contact and contact period First Nations archaeological resources within the Transmission Line – Route B study area is judged to be high within 50 m of modern watercourses, within 300 m of previously identified areas of cultural significance, and within 150 m of well-drained soil in close proximity to marshes, wetlands or watercourses (Ontario Government 2011b: Section 1.4). The presence of five registered archaeological sites within the study area boundaries increases the potential for archaeological remains. It has been noted also, that multiple archaeological sites exist beyond the study area boundaries. Outside these designated proximities the potential for pre-contact First Nations archaeological resources is low, however there is potential for archaeological materials that are not in the ground such as pictographs and quarry sites. Additionally, the presence of multiple fur trade posts increases the potential for archaeological material. Therefore, further Stage 2 archaeological investigation is recommended to clear the Transmission Line – Route B and ensure there are no impacts to culturally significant sites that may not have been previously recorded. As no glacial shorelines are found within the Transmission Line – Route B study area this type of feature does not impact the evaluation of pre-contact First Nations archaeological potential. Contact period resources in the Transmission Line – Route B study area consist of significant watercourses which would have been equally important to both Euro-Canadian and First Nations people during this time, and the possibility for extensive raw material quarrying activities.

2.2.2 Euro-Canadian Archaeological Potential

The potential for Euro-Canadian archaeological resources is judged to be high within 150 m of historic transportation routes and areas of early Euro-Canadian settlement and industry (Ontario Government 2011b: Section 1.4). Outside of these designated proximities the potential for Euro-Canadian archaeological resources is low and no Stage 2 archaeological assessment is recommended.

Many early roads were not followed by modern highways, meaning areas of cultural heritage value or interest associated with historic roadways are now far removed from modern thoroughfares, often in remote areas or used as trails or logging roads. Therefore, archaeological potential is high within 150 m of these historic transportation routes. Historic communities within the study areas have contracted over time, each of them at their largest in the late 1800s to early 1900s, seeing a gradual decrease over time. Significant archaeological resources related to these communities may remain outside of their current limits. Archaeological potential has been determined to be high in proximity to the estimated locations of early roads, post offices, and historic communities. Highways 69 and 522 are not considered to be historic transportation routes, and any cultural heritage value or interest associated with them has now been previously and extensively disturbed. Highways 69 and 522 are not considered to be historic transportation routes, and any cultural heritage value or interest associated with them has now been previously and extensively disturbed.

2.2.3 Areas Retaining No Archaeological Potential

The most common disturbance that has removed archaeological potential in the study areas is the roadways and major highways that the Transmission Line – Route B study area follows. The road and road right-of-ways, including gravel shoulders and associated drainage ditches, do not require Stage 2 archaeological assessment (Ontario Government 2011b; Section 1.3.2) as these areas have been subject to extensive land alterations that have severely damaged the integrity of any archaeological resources that may have been present.

Areas of steep slope and poor drainage are not considered to have archaeological potential and may be excluded from further assessment regardless of proximity to archaeological features. However, exceptions must be made for any areas of steep slope containing exposed bedrock cliff faces. These areas must be assessed and photo documented for the potential presence of rock art given the identification of pictograph sites in close proximity to the current study area. The exposed bedrock may also contain areas where previous quartz quarrying activities have been conducted, based on the proximity of the Transmission Line study area to similar locations along the eastern shore of Georgian Bay where these activities have been documented. These areas must be assessed and photo documented for the potential quarrying. Numerous wetlands are scattered within the HIWEC Transmission Line study area and these poorly drained areas do not retain archaeological potential and, therefore, do not require Stage 2 archaeological assessment. However, the presence of wetlands or marshes can elevate the archaeological potential of adjoining land if there are well drained areas of elevated topography adjacent to them.

2.2.4 Stage 2 Archaeological Assessment Strategies

The Ontario MTCS allows for alternative strategies for archaeological assessments in areas within the Canadian Shield and bedrock environments (Ontario Government, 2011b). While Section 1.4 in the *Standards and Guidelines for Consultant Archaeologists* outlines the conditions for recommendations for the reduction of test pit survey coverage, this is superseded for the Transmission Line – Route B study area by Section 2.1.5 as the land has been demonstrated to be situated entirely on Canadian Shield (Ontario Government 2011b). Therefore, while the archaeological potential may be judged to be high based on proximity to a feature that contributes to archaeological potential, Stage 2 survey areas are reduced and survey intervals are different than they would be in areas outside Canadian Shield terrain. The exception to this is agricultural fields that can be ploughed which must be subject to full pedestrian survey as Stage 2 survey reductions are only permitted for test pit assessments.

Areas exempt from Stage 2 archaeological assessment include: areas of steep slope, exposed bedrock, poor drainage, and previous disturbance due to road and road right-of-ways or aggregate activities. Exceptions must be made for any areas of steep slope containing exposed bedrock cliff faces. These areas must be assessed and photo documented for the potential presence of rock art given the identification of multiple pictograph sites in close proximity to the current study area. The exposed bedrock may also contain areas where previous quarrying activities have been conducted, based on the proximity of the Transmission Line study area to similar locations along the eastern shore of Georgian Bay where these activities have been documented. These areas must be assessed and photo documented for the potential quarrying.

3. Recommendations

The Transmission Line – Route B study area is situated entirely in Canadian Shield and the following recommended strategy for Stage 2 assessment is based off of Section 2.1.5 of the *Standards and Guidelines for Consultant Archaeologists* (Ontario Government 2011b). In addition, due to the complex combination of land conditions in the Study Area there may be small areas of archaeological potential intermixed with areas of low potential and Section 2.1.6 must be followed during the Stage 2 archaeological assessment (Ontario Government 2011b).

3.1 Property Inspection

To assist in determining where areas of archaeological potential or archaeological features are located, the impacted property will be inspected as part of the Stage 2 assessment. This property inspection will allow the archaeologist to evaluate and photo-document actual land conditions. Areas of potential are related to the location of watercourses, known archaeological sites, pockets of well-drained soil, Trading Posts, early roads, 19th century post offices, structures illustrated on 19th century maps and early Euro-Canadian communities. When the location of archaeological features is known, the reduction of survey intervals can be planned based on the fieldwork recommendations below. Areas exempt from Stage 2 archaeological assessment include: steep slope, poor drainage, previous disturbance due to road and road right-of-ways or aggregate activities, and exposed bedrock. These conditions must be photographed and documented in the field but do not require archaeological survey. Exceptions must be made for any areas of steep slope containing exposed bedrock cliff faces. These areas must be assessed and photo documented for the potential presence of rock art given the identification of multiple pictograph sites in close proximity to the current study area. The exposed bedrock may also contain areas where previous quarrying activities have been conducted, based on the proximity of the Transmission Line study area to similar locations along the eastern shore of Georgian Bay where these activities have been documented.

3.2 Stage 2 Pedestrian Survey

Based on aerial photography doesn't appear to be any agricultural land in the Transmission Route – B study area; however, in the event agricultural land is identified it should be noted that survey reductions are not permitted for agricultural field. Agricultural land that can be ploughed must be ploughed, weathered and subject to full pedestrian survey at 5 m intervals (Ontario Government 2011b: Section 2.1.1).

3.3 Stage 2 Test Pit Assessment

The Stage 2 test pit assessment survey intervals are adjusted according to proximity to features of archaeological potential as follows:

- When the feature of archaeological potential is a modern water source the Stage 2 assessment should consist of a test pit assessment at a 5 m interval in the area between 0 to 50 m of the modern water source. Beyond 50 m, a Stage 2 survey is not required (Ontario Government 2011b; Section 2.1.5, S.1).
- When the feature of archaeological potential is an early Euro-Canadian transportation route or area of early settlement or industry the Stage 2 assessment should consist of a test pit assessment at a 5 m interval in the area between 0 to 50 m of the early Euro-Canadian transportation route and at a 10 m interval between 50 to 150 m of the early Euro-Canadian transportation route. Beyond 150 m a Stage 2 survey is not required (Ontario Government 2011b; Section 2.1.5, S.2 and Section 1.4, S.1.d.).

- When the feature of archaeological potential is a previously identified archaeological site the Stage 2 assessment should consist of a test pit assessment at a 5 m interval in the area between 0 to 50 m of the archaeological site, and at a 10 m interval between 50 m to 150 m. Beyond 150 m, a Stage 2 survey is not required (Ontario Government 2011b; Section 2.1.5, S.2).
- The consultant archaeologist conducting the Stage 2 assessment should maintain survey grids as close as possible; however, intervals may vary from the standard survey grids as necessary due to complex combinations of archaeological potential and based on professional judgement. If regular survey grids are not maintained, any variations should be documented and explained in the Stage 2 report.

The Ontario Ministry of Tourism, Culture and Sport is asked to review this report, accept it into the provincial register of archaeological reports and provide a letter to the proponent indicating that the Ministry concurs with the recommendations provided herein.

4. Advice on Compliance with Regulations

This report is submitted to the Ontario Minister of Tourism, Culture and Sport as a condition of licensing in accordance with Part VI of the *Ontario Heritage Act*, R.S.O. 1990, c 0.18. The report is reviewed to ensure that it complies with the standards and guidelines that are issued by the Minister, and that the archaeological fieldwork and report recommendations ensure the conservation, protection and preservation of the cultural heritage of Ontario. When all matters relating to archaeological sites within the project area of a development proposal have been addressed to the satisfaction of the Ministry of Tourism, Culture and Sport, a letter will be issued by the ministry stating that there are no further concerns with regard to alterations to archaeological sites by the proposed development.

It is an offence under Sections 48 and 69 of the *Ontario Heritage Act* for any party other than a licensed archaeologist to make any alteration to a known archaeological site or to remove any artifact or other physical evidence of past human use or activity from the site, until such time as a licensed archaeologist has completed fieldwork on the site, submitted a report to the Minister stating that the site has no further cultural heritage value or interest, and the report has been filed in the Ontario Public Register of Archaeology Reports referred to in Section 65.1 of the *Ontario Heritage Act*.

Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48(1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with Section 48(1) of the *Ontario Heritage Act*.

The *Cemeteries Act*, R.S.O. 1990 c. C.4 and the *Funeral, Burial and Cremation Services Act*, 2002, S.O. 2002, c.33 (when proclaimed in force) require that any person discovering human remains must notify the police or coroner and the Registrar of Cemeteries at the Ontario Ministry of Consumer Services.

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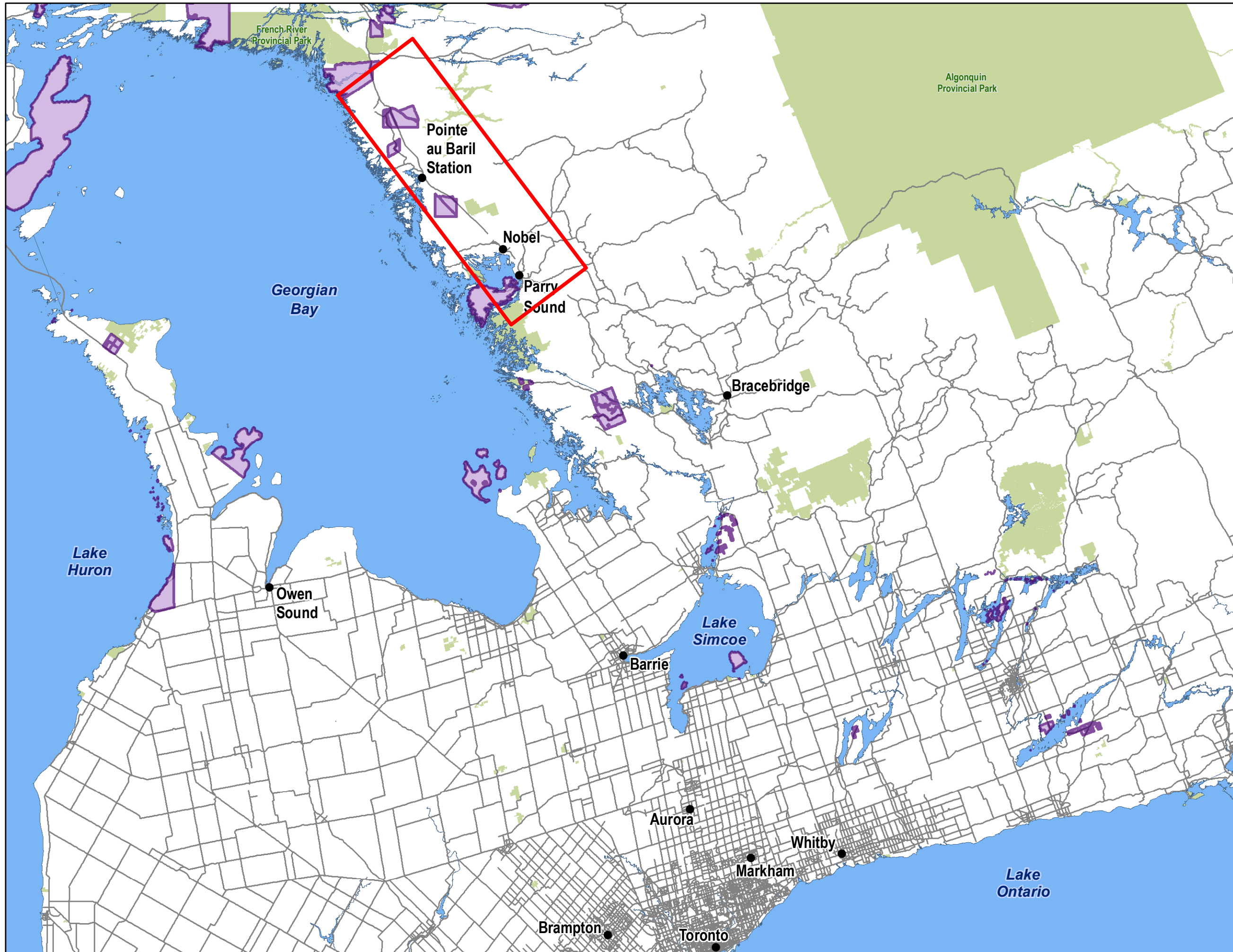
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6. Maps

All maps for the Stage 1 archaeological assessment conducted for the HIWEC Transmission Line – Route B study area are provided on the following pages.



Legend

- Roads
- Provincial Parks
- Waterbodies
- First Nations Communities
- Transmission Line Route B

↑
N

0 10 20 40
Kilometers

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Location of Transmission Line
Route B Study Area

June 2015	1:1,000,000	Datum: NAD 83, Zone 17 Source: Stantec, OBM, LIO
P#: 60341251		V#:

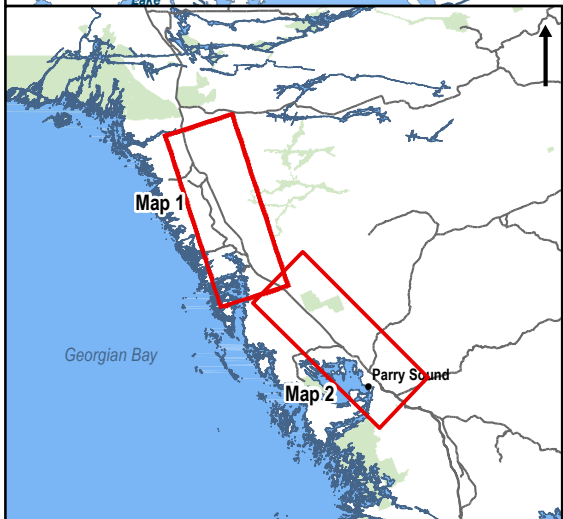
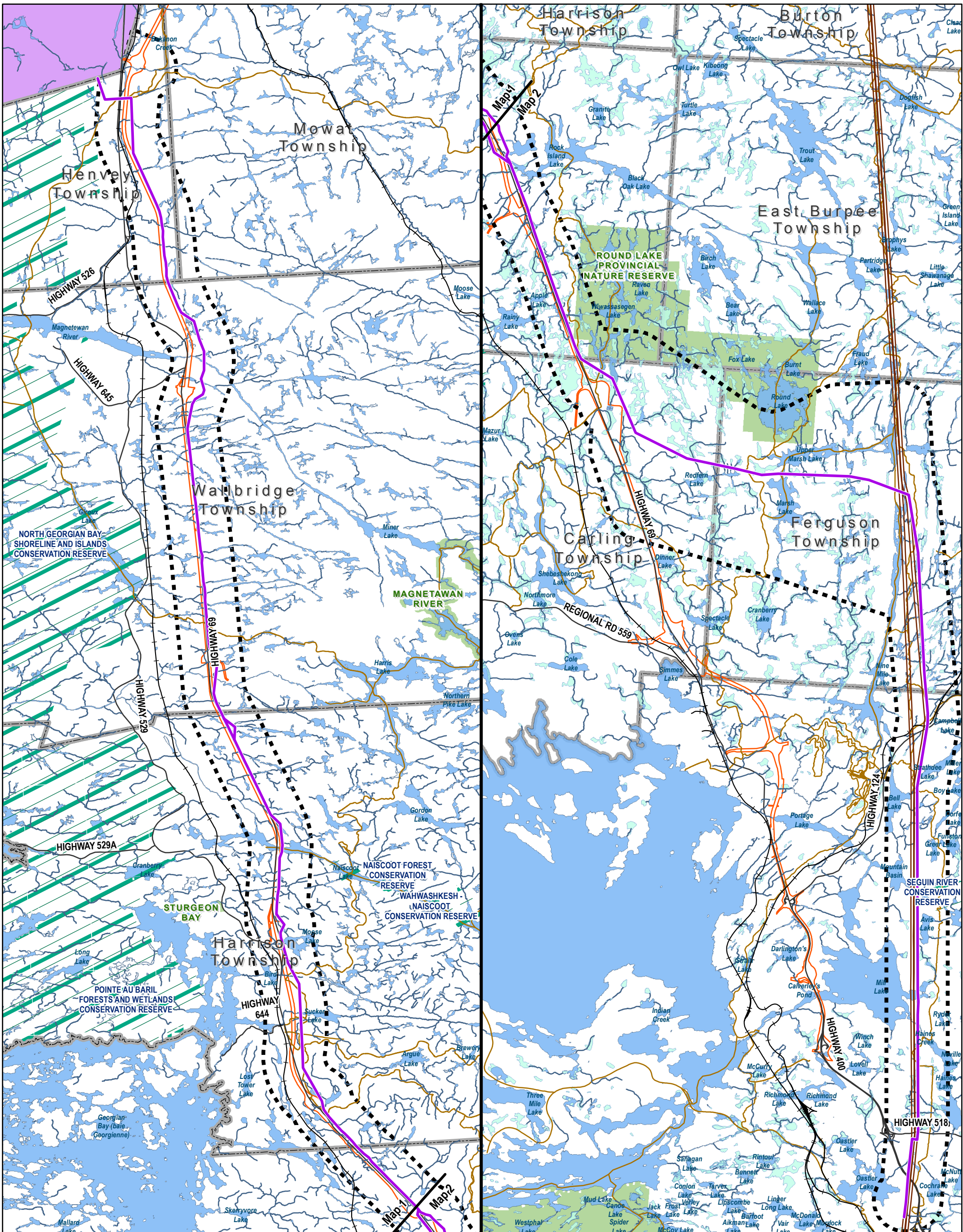
Figure 1

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Map 1

Map 2



Legend

- Proposed Route B
- Proposed Hwy 69 Corridor
- Base Layers**
- Roads
- Trails
- Railway
- Watercourses
- Utility Line
- Townships
- Wetlands
- Waterbodies
- Provincial Parks
- Conservation Reserve
- First Nations Communities
- Townships

Scale: 0 1.25 2.5 5 Kilometers

North Arrow: N

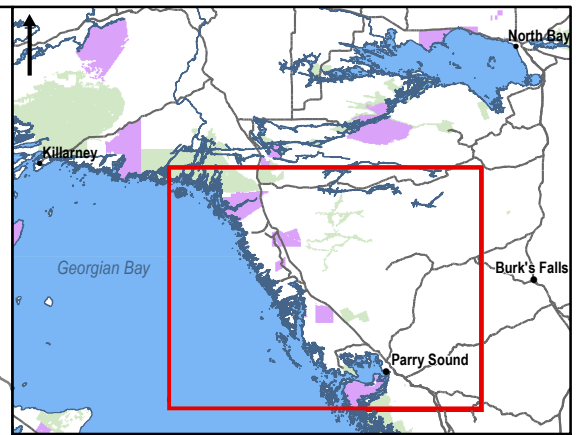
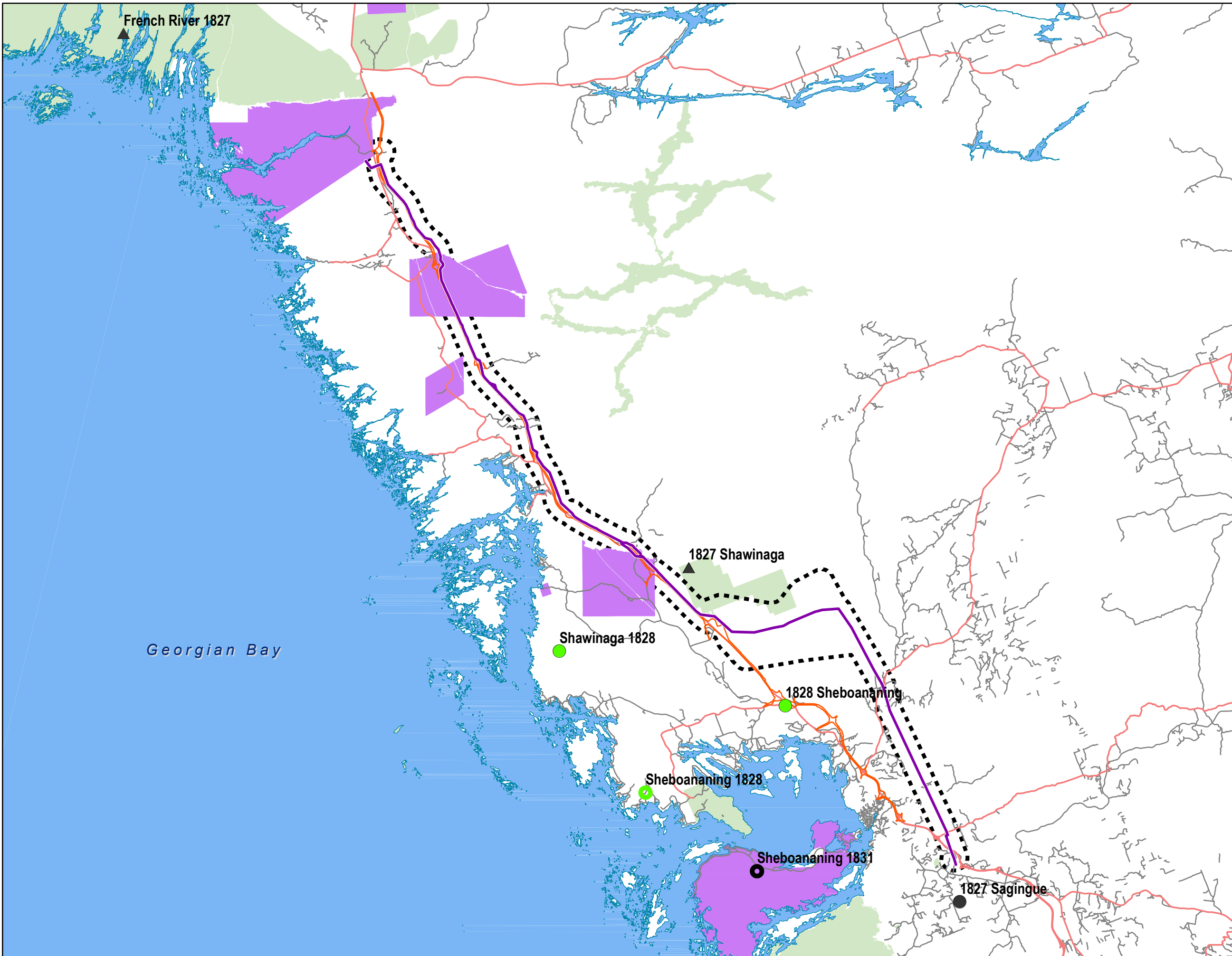
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Route B Transmission Line in Detail

June 2015	1:116,000	Datum: NAD 83, Zone 17 Source: Stantec, OBM, LIO
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Figure 2

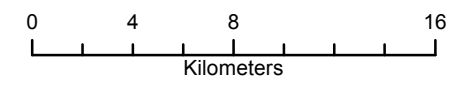
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Legend

- Proposed Route B
- Proposed Hwy 69 Corridor
- First Known Owner of Post***
- 1-3 years Canadian Independent
- 1-3 years Hudson Bay Company
- 4-15 years Canadian Independent
- 4-15 years Hudson Bay Company
- ▲ 16-50 years Hudson Bay Company
- Base Layers**
- Major Roads
- Minor Roads
- Waterbodies
- Provincial Parks
- First Nation Communities
- Transmission Line Route B Study Area

*Atlas of Canada's "Posts of the Canadian Fur Trade, 1600 to 1870"



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Estimated Location of Fur Trade Posts (1827-1829)

June 2015	1:300,000	Datum: NAD 83, Zone 17 Source: Stantec, OBM, LIO, Atlas of Canada *
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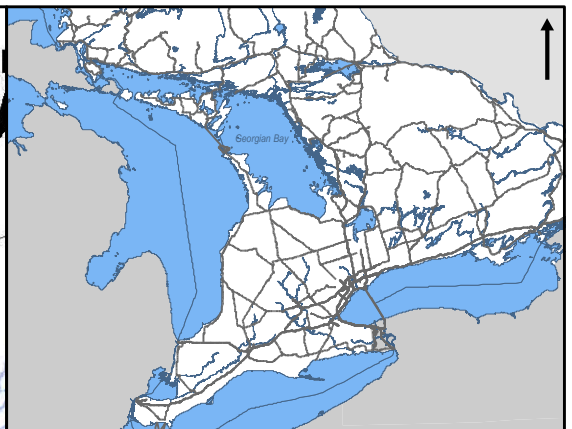
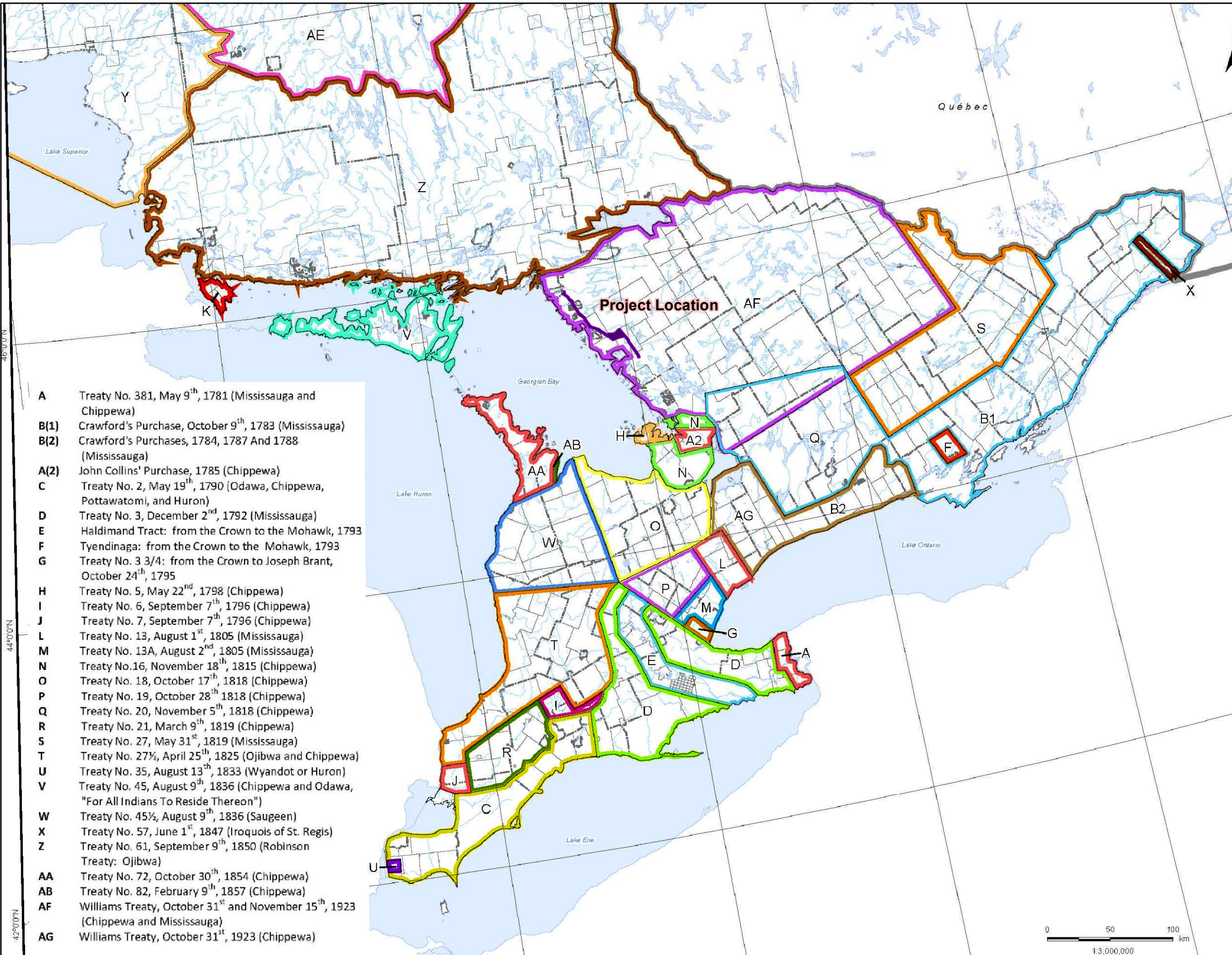
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Figure 3



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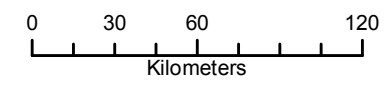


Legend

Transmission Line B Study Area



- A Treaty No. 381, May 9th, 1781 (Mississauga and Chippewa)
- B(1) Crawford's Purchase, October 9th, 1783 (Mississauga)
- B(2) Crawford's Purchases, 1784, 1787 And 1788 (Mississauga)
- A(2) John Collins' Purchase, 1785 (Chippewa)
- C Treaty No. 2, May 19th, 1790 (Odawa, Chippewa, Pottawatomi, and Huron)
- D Treaty No. 3, December 2nd, 1792 (Mississauga)
- E Haldimand Tract: from the Crown to the Mohawk, 1793
- F Tyendingaga: from the Crown to the Mohawk, 1793
- G Treaty No. 3 3/4: from the Crown to Joseph Brant, October 24th, 1795
- H Treaty No. 5, May 22nd, 1798 (Chippewa)
- I Treaty No. 6, September 7th, 1796 (Chippewa)
- J Treaty No. 7, September 7th, 1796 (Chippewa)
- L Treaty No. 13, August 1st, 1805 (Mississauga)
- M Treaty No. 13A, August 2nd, 1805 (Mississauga)
- N Treaty No.16, November 18th, 1815 (Chippewa)
- O Treaty No. 18, October 17th, 1818 (Chippewa)
- P Treaty No. 19, October 28th, 1818 (Chippewa)
- Q Treaty No. 20, November 5th, 1818 (Chippewa)
- R Treaty No. 21, March 9th, 1819 (Chippewa)
- S Treaty No. 27, May 31st, 1819 (Mississauga)
- T Treaty No. 27½, April 25th, 1825 (Ojibwa and Chippewa)
- U Treaty No. 35, August 13th, 1833 (Wyandot or Huron)
- V Treaty No. 45, August 9th, 1836 (Chippewa and Odawa, "For All Indians To Reside Thereon")
- W Treaty No. 45½, August 9th, 1836 (Saugeen)
- X Treaty No. 57, June 1st, 1847 (Iroquois of St. Regis)
- Z Treaty No. 61, September 9th, 1850 (Robinson Treaty: Ojibwa)
- AA Treaty No. 72, October 30th, 1854 (Chippewa)
- AB Treaty No. 82, February 9th, 1857 (Chippewa)
- AF Williams Treaty, October 31st and November 15th, 1923 (Chippewa and Mississauga)
- AG Williams Treaty, October 31st, 1923 (Chippewa)



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Treaties and Purchases
Adapted from Morris 1931

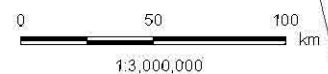
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Figure 4



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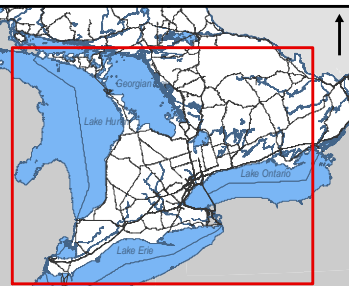
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End of Colonial Road Map



Legend

- Transmission Line Route B Study Area
- Water



Henvey Inlet Wind LP

1855 Map of "Colonization Roads" in Central Ontario

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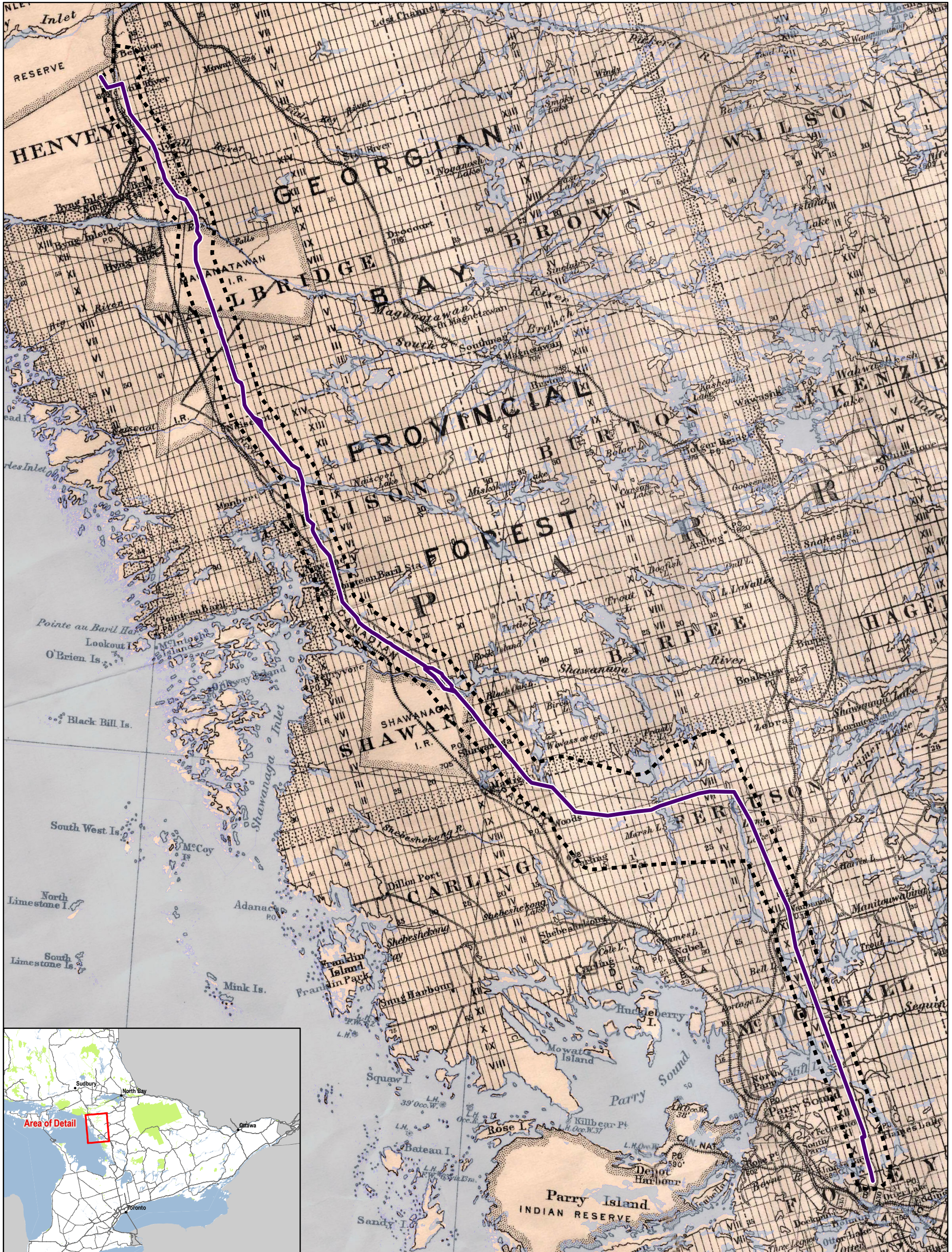
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Figure 5

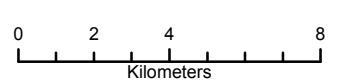


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-  Proposed Route B
-  Waterbodies
-  Transmission Line B Study Area



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Portion of the 1931 Historic Map of the Parry Sound District

June 2015	1:200,000	Datum: NAD 83, Zone 17 Source: Ontario Department of Lands & Forests, Surveys Branch: Toronto
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Figure 6

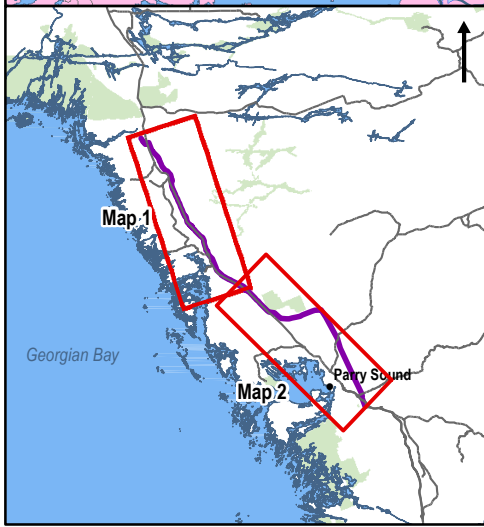
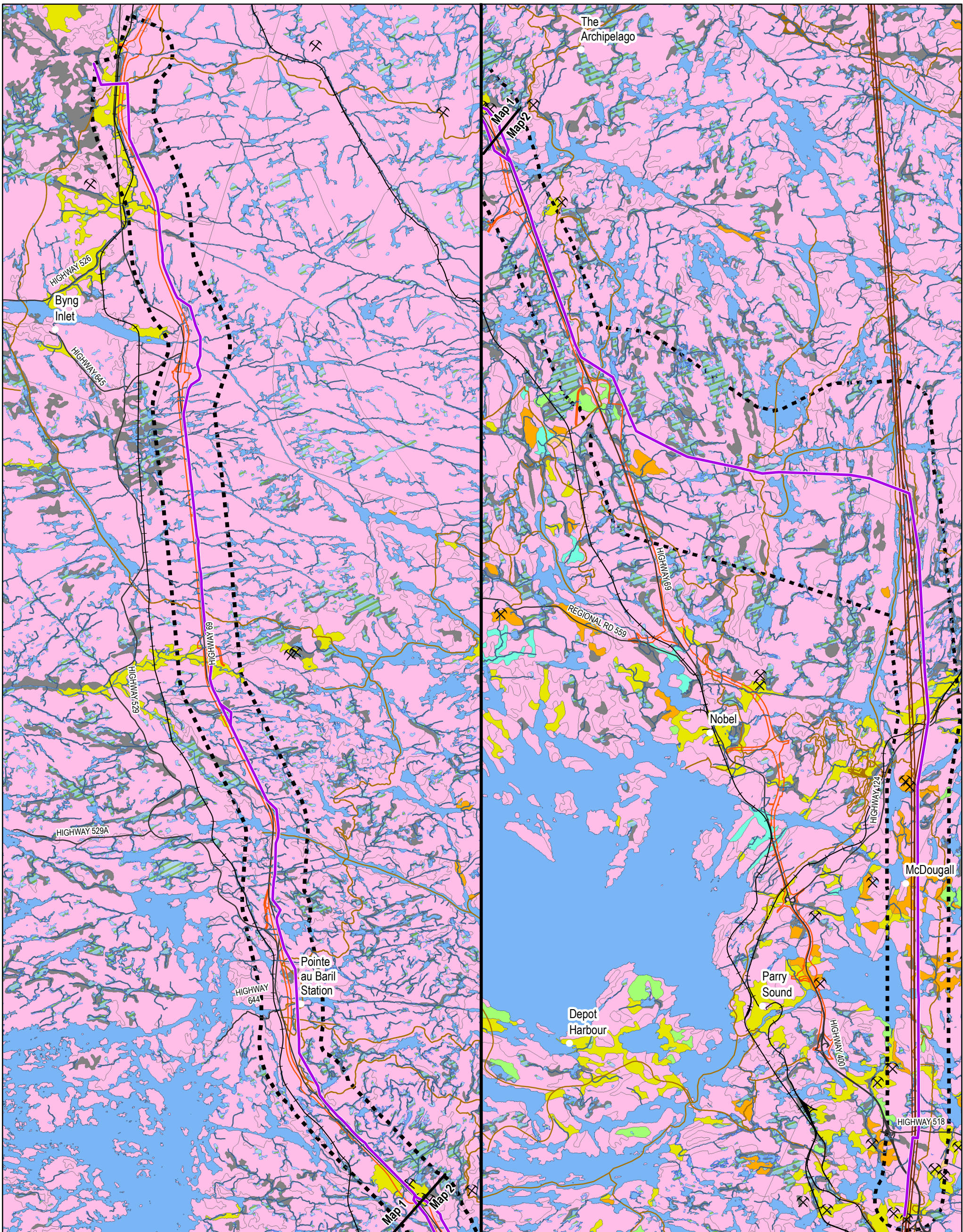


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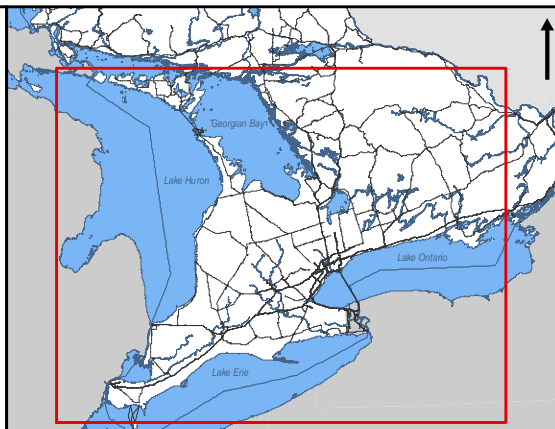
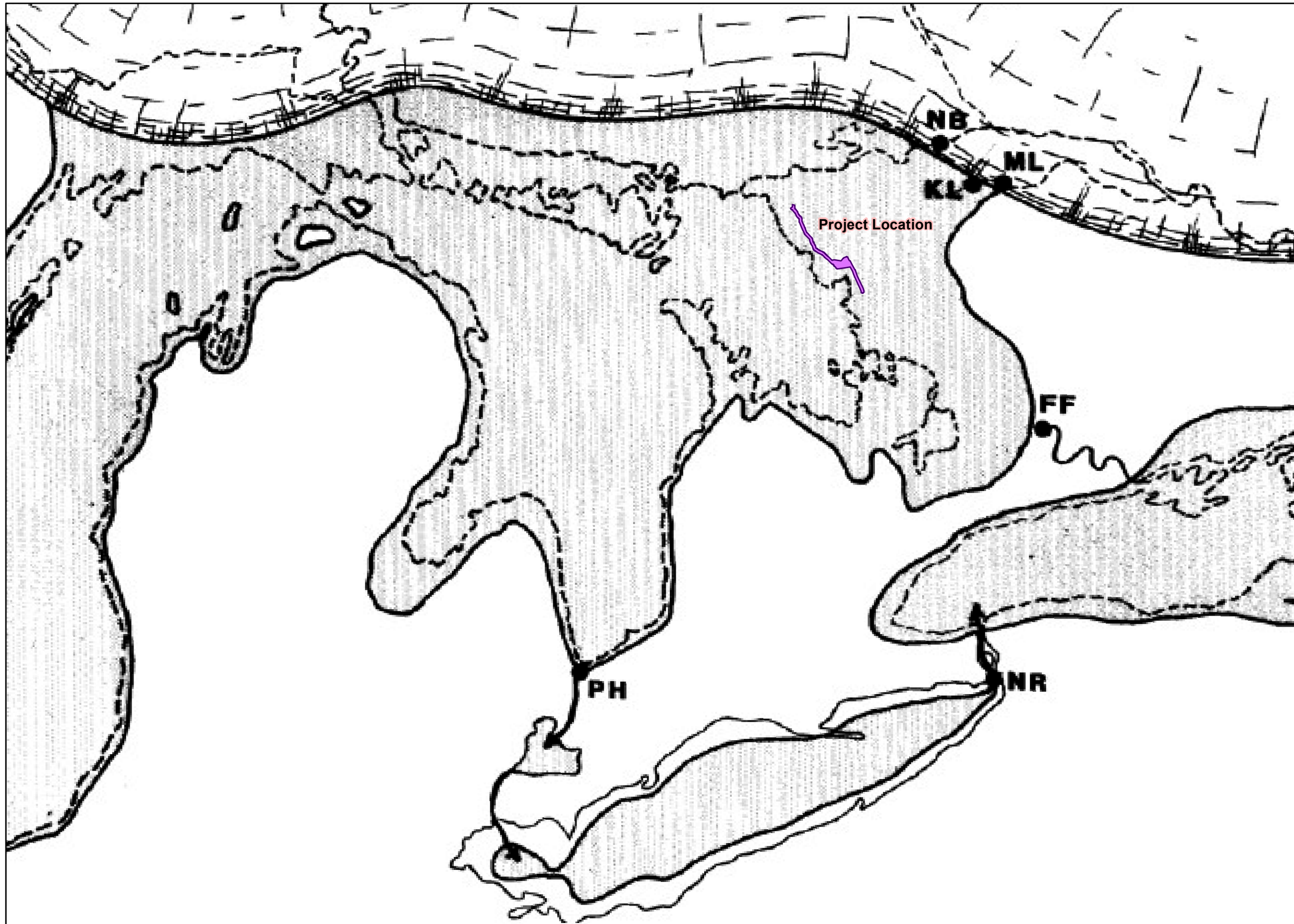
Map 1

Map 2



<ul style="list-style-type: none"> — Proposed Hwy 69 Corridor - - - Proposed Route B <p>Base Layers</p> <ul style="list-style-type: none"> Aggregate Sites Railway Watercourses Trails Roads Utility Line Waterbodies Wetlands 	<ul style="list-style-type: none"> Transmission Line Route B Study Area <p>Geologic Deposit (Primary Material)</p> <ul style="list-style-type: none"> Modern alluvial deposits (Sand/Silt/Gravel) Bedrock Organic Deposits (Peat/Muck) Till Ice-contact stratified deposits (Sand/Gravel) Coarse-textured glaciolacustrine deposits (Sand/Gravel) Fine-textured glaciolacustrine deposits (Silt/Clay)
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Henvey Inlet Wind LP		
Surface Geology of the Transmission Line Route B Study Area		
May 2015	1:116,000	Datum: NAD 83, Zone 17 Source: Stantec, OBM, LIO
P#: 60341251	V#:	
Figure 7		
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Legend

- Transmission Line Route B Study Area
- Transmission Line B Study Area
- Current Lake Levels
- Glacier
- Glacial Lake Algonquin levels (ca. 11,000 years ago)
- Dry Land

Source: Geological History of Glacial Lake Algonquin and the Upper Great Lakes. US geological survey bulletin 1987. ~Curtis E. Larsen

0 30 60 120
Kilometers

Henvey Inlet Wind LP

Approximate Location of Glacial Lake Algonquin to the Transmission Line Route B Study Area

June 2015	N.T.S	Datum: NAD 83, Zone 17 Source: see above
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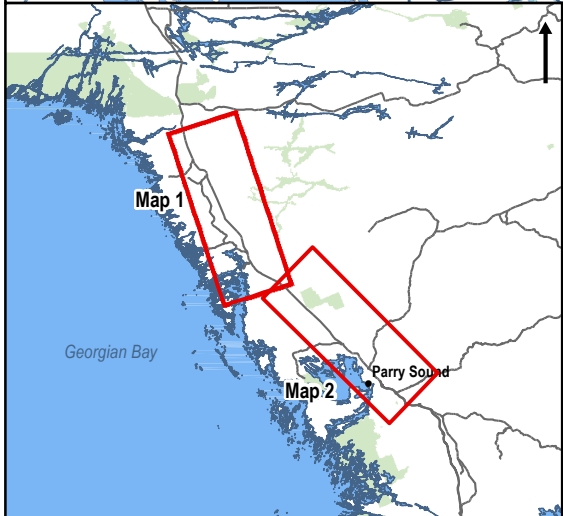
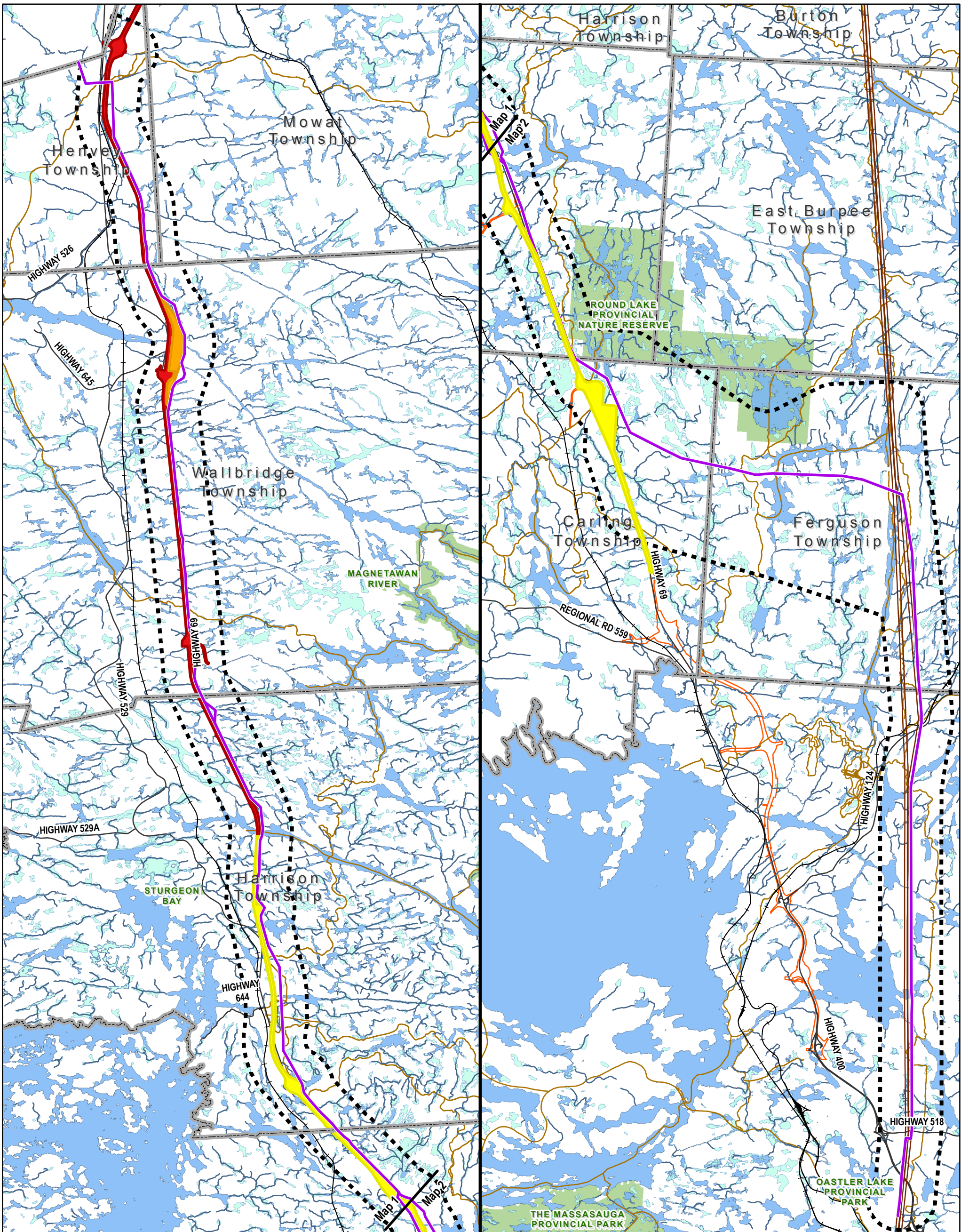
P#: 60341251	V#:
Figure 8	

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Map location: A:\AECOM\Work\60341251 - Henvey Wind\Design\Baseline Report (Feb 2015)\Archaeology\TL ne_B_Glacial.lakes.mxd Date saved: 06/01/15 14:25 PM

Map 1

Map 2



Legend

- Proposed Route B
- Proposed Hwy 69 Corridor
- Previously Assessed Archaeology**
 - 2004 Woodland
 - 2006 New Directions
 - 2013 Woodland
- Base Layers**
 - Watercourses
 - Roads
 - Transmission Line Route B Study Area
- Trails
- Railway
- Utility Line
- Wetlands
- Waterbodies
- Provincial Parks
- Townships

N

0 1.25 2.5 5
Kilometers

Henvey Inlet Wind LP

Transmission Line Route B
Previously Assessed & Cleared Areas

June 2015	1:116,000	Datum: NAD 83, Zone 17 Source: Stantec, OBM, LIO
P#: 60341251	V#:	

Figure 9

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Map location: C:\PROJECTS\60333000 - HF\NGS\Design\Baseline EA\Report\Line_B_Stage1.mxd
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