

WOCAWSON ENERGY PROJECT ADDENDUM

TRANSMISSION LINE ACCESS ROUTE MONITORING

Proposed Routes and Additional Aquatic, Vegetation, and Wildlife Surveys





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Summary

The proposed Wocawson Energy Project (WEP) consists of 5-10 wind turbines capable of producing 20-40 MW of renewable energy. The Project will also require a 34.5kV collection system, a substation, and 5.25km of new transmission line. All infrastructure except the transmission line will be constructed, owned, operated and maintained by the Proponent, Wocawson Energy Limited Partnership. The new proposed transmission line will connect the Project to the existing New Brunswick Power (NBP) transmission grid and will be constructed, owned, operated and maintained by NBP.

As the WEP requires 5.25km of new transmission line, it will also require the use of access routes into the proposed line to facilitate installation. This addendum includes the survey results for all proposed transmission line access routes that may be used to access the line. The surveys along these access routes were conducted following the methodology outline in the Wocawson Energy Project EIA registration document. These access routes will make use of existing trails near the proposed line which may need to be upgraded to support the required equipment. The roads that will be used to access the transmission line will need to be widened to approximately 6m. Additionally, where significant turns are located, access routes may need to be widened up to 12m.

Figure 1 demonstrates all possible access roads that were surveyed for the purposes of this EIA. These different routes allow flexibility for the contractor to choose their preferred route into the proposed transmission line during construction. As such, it is not anticipated that all of these access routes will be used.

Proposed access routes were provided by NBP to the Proponent in mid-August and biologists from Dillon Consulting were engaged to conduct field surveys on these new areas.

Wetland and watercourse surveys along these proposed routes are compiled in Appendix A of this Addendum. No additional wetlands or watercourses were observed above what has been identified during the initial site surveys. Figure 2 below demonstrates the access routes in relation to wetlands and watercourses.

A full list of wildlife species observed on each trail is provided in Appendix B of this Addendum and photos of wildlife habitat along each trail are demonstrated within. No wildlife species at risk or species of conservation concern have been identified along the proposed access routes.

A full list of vegetation observed on each proposed trail is provided in Appendix C of this Addendum. The proposed access routes in relation to different habitat types is demonstrated in Figure 2. No vegetative species at risk, or of conservation concern have been identified along the proposed access routes.

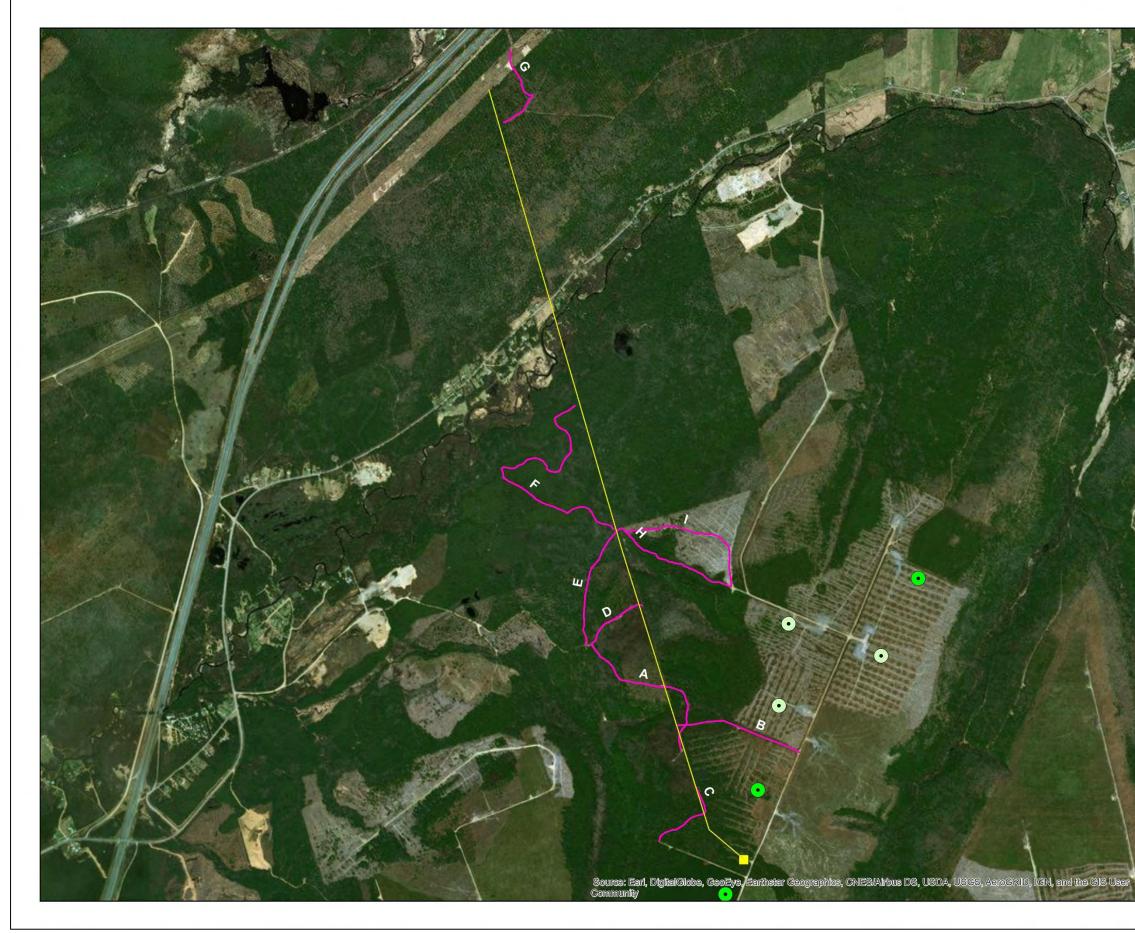


Figure 1: All potential access routes into the proposed transmission line for installation.

	Wocawson Energy Project
	Transmission Line Access Routes
Legend	
•	Proposed Phase 1 Turbines
$ \overline{} $	Proposed Phase 1 Alternate Turbine
	Substation
	 Transmission Line
	 Potential Access Routes
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0	1:30,000
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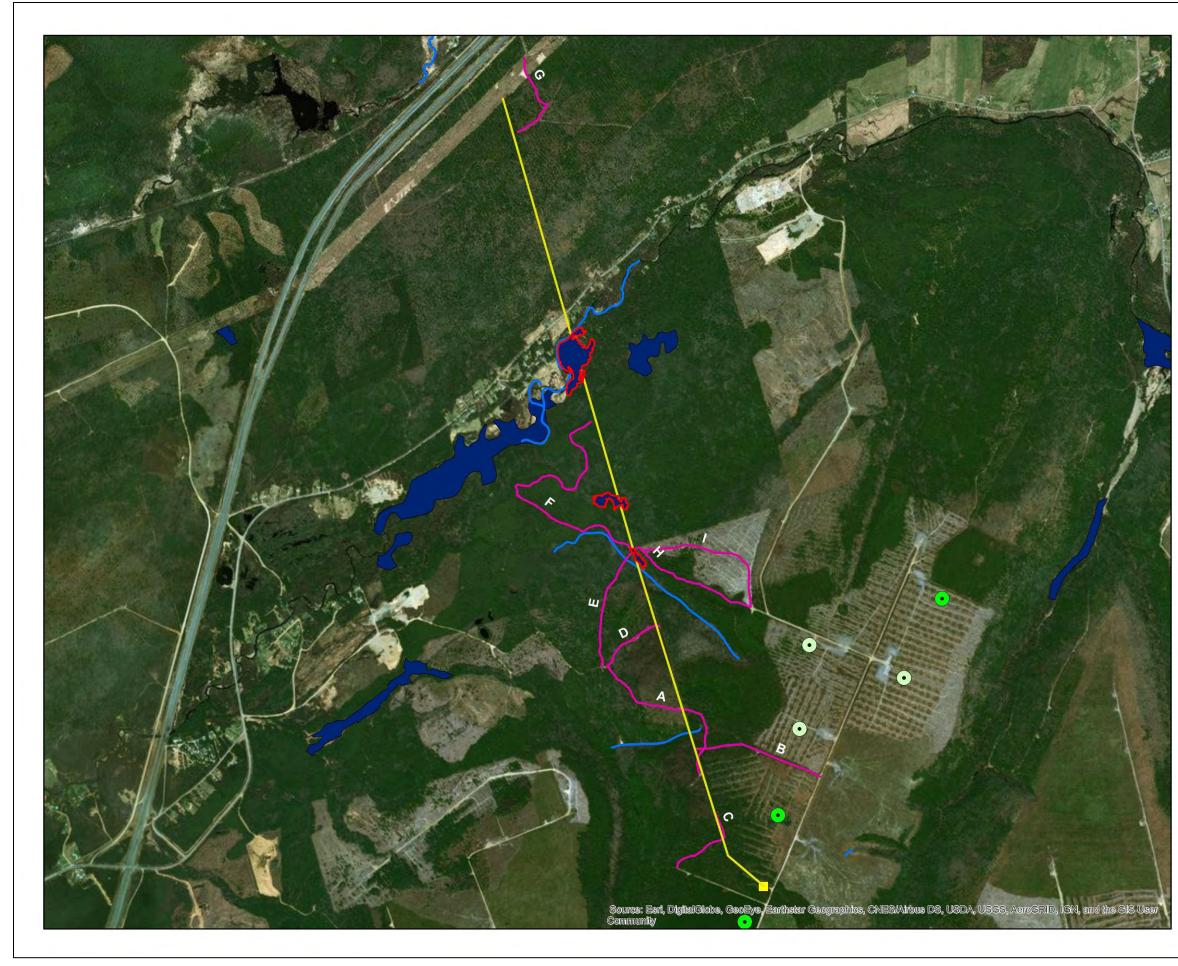
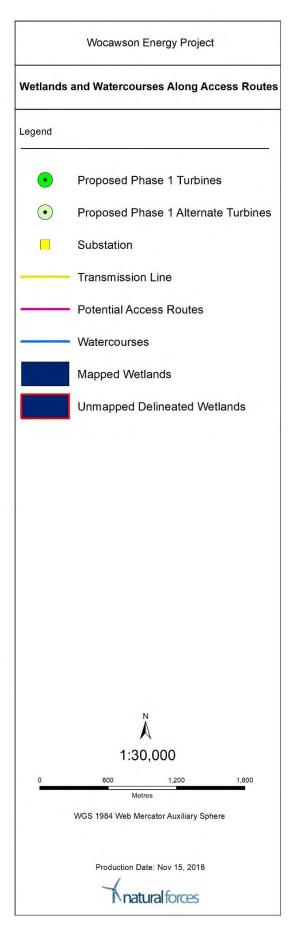


Figure 2: Wetlands and watercourses along the potential access routes into the transmission line.



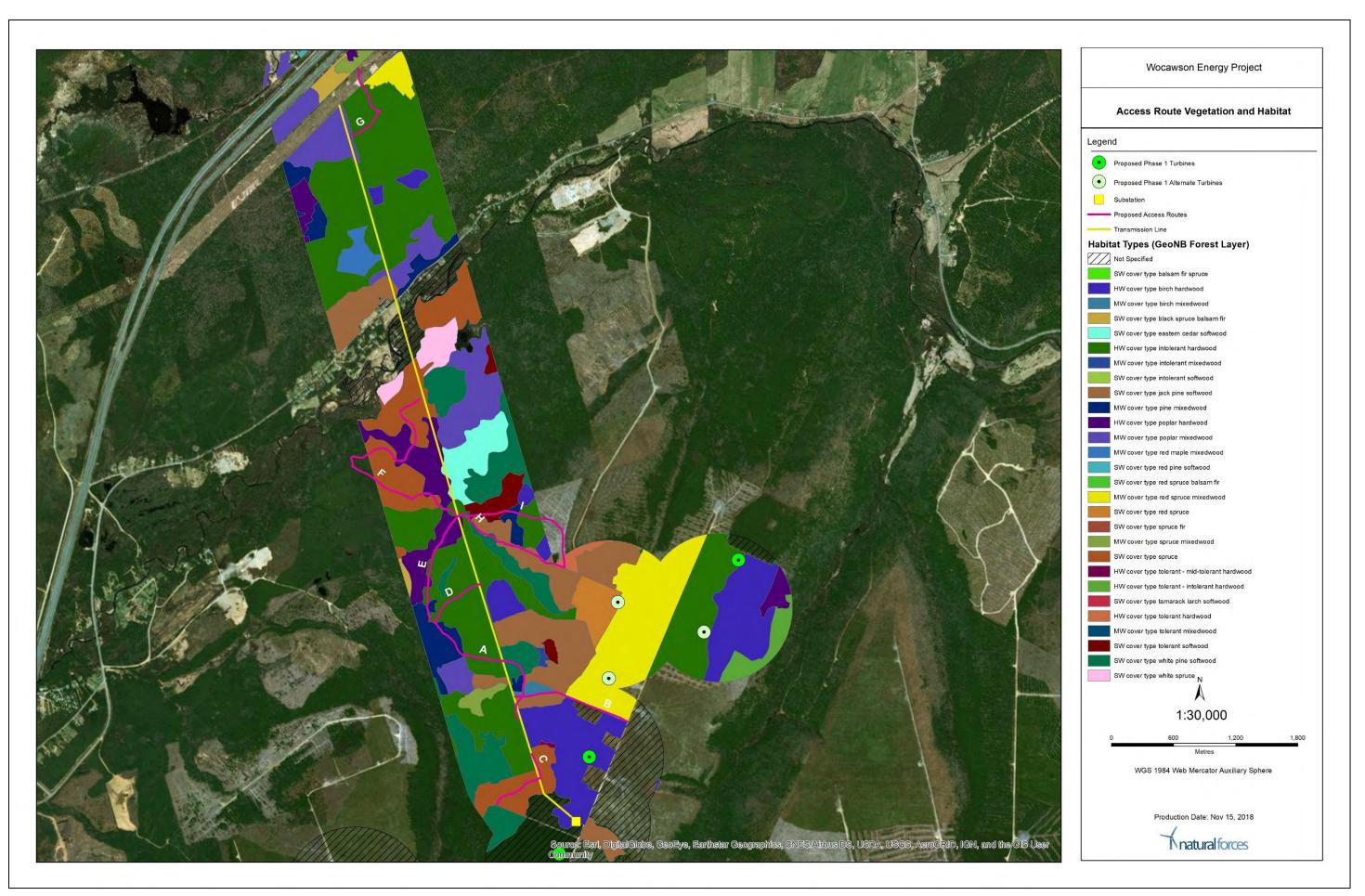


Figure 3: Habitat types along all potential access routes into the transmission line.

Appendix A

Wetland and Watercourse Survey



WOCAWSON ENERGY PROJECT Addendum to Aquatic Habitat and Wetlands Summary Report (Final)

Proposed Access Trail Upgrades



September 2018 – 18-6975

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1.0 Introduction

Dillon Consulting Limited (Dillon) was retained by the Wocawson Energy Limited Partnership (Wocawson) to complete natural environment surveys for proposed access trail upgrades in support of a future provincial registration of an Environmental Impact Assessment (EIA) for the Wocawson Energy Project (WEP). The project consists of the construction and operation of 6-12 wind turbines generating between 20-40 MW of electricity, an on-site substation, and a transmission line connecting the project to the New Brunswick electrical grid, to be located on a parcel of Crown land near Penobsquis, New Brunswick.

Dillon conducted field surveys throughout the summer of 2018 for the proposed turbine locations as well as the proposed transmission line connecting the project to the existing electrical grid. The results of those surveys (for vegetation, aquatic habitats and wetlands, birds, bats, and wildlife and wildlife habitat) were documented in standalone reports submitted to Wocawson in support of their preparation of an EIA registration for the proposed project. Following those surveys, additional areas were identified for potential access to the proposed transmission line corridor that required assessment. Thus, additional surveys were conducted of those access areas, and the results are documented in several addenda to those reports; such as this addendum to the Aquatic Habitats and Wetlands Summary Report (Dillon 2018a). It is intended that these addenda would be appended to the respective summary reports for each of the above disciplines. The addenda for each discipline should thus be read in conjunction with the corresponding Summary Report.

To access the proposed WEP transmission line, New Brunswick Power Corporation (NB Power) requires that access trails present within the proposed project area be widened and upgraded to conditions that allow access of infrastructure and heavy equipment/vehicles. This addendum provides a summary of the aquatic habitat and wetland surveys conducted along the proposed access trail upgrades in support of the Wocawson Energy Project EIA registration, and includes a brief description of the scope of work/methodology used and a summary of the survey results.

Though the terrestrial environment generally includes vegetation, wetlands, wildlife, wildlife habitat, and species at risk/species of conservation concern, the focus of this report is on aquatic habitat and wetlands, as an updated appendix to the Dillon report titled "Wocawson Energy Project Aquatic Habitats and Wetlands Summary Report" (Dillon 2018a).

2.0 Scope of Work and Methodology

The scope of work for this additional aquatic habitat and wetland assessment for the proposed access trail upgrade included completing surveys for 7.8 km of trail within the proposed project area (i.e., the



"study area" referred to throughout this addendum). The 9 access trails (i.e., the study area) are presented on **Figure 1**, and are identified through unique identifiers (i.e., Trails A - I).

The field surveys were conducted by Dillon biologists on August 22, 23, and 24, 2018. The specific survey methods as well as the rationale behind the selection of aquatic habitats and wetlands as a valued component of the environment in relation to the project can be referenced within the main aquatic habitat and wetlands summary report (*"Wocawson Energy Project Aquatic Habitat and Wetlands Summary Report"* [Dillon 2018a]).

3.0 Aquatic Habitat and Wetland Assessment Results

The access trails extend through several habitat types (refer to the addendum report titled "Addendum to Wildlife and Wildlife Habitat Summary Report [Dillon 2018b]"; including areas of relatively mature hardwood and softwood forest stands. There were no new watercourses or wetlands identified during the trail surveys, although additional sections of the watercourses previously identified during the assessment of the proposed transmission line corridor were assessed at crossing locations observed on the trails (Refer to Dillon [2018a] for full watercourse descriptions).

3.1 Watercourse Assessment Results

The results of the additional survey effort for watercourse crossings located along the 7.8 km of proposed trail upgrades are presented within the following sections.

In total, 2 watercourse crossings were identified during the assessment of the access trails. The following previously identified watercourses were observed within the study area crossing the access trails (full details of each watercourse are provided in Dillon [2018a]).

• Unnamed Tributary - Watercourse 2 (WC 2) Associated with Trails E, F and H

WC 2 is a mapped watercourse that was previously characterized during the initial field surveys (July 2018) as a small stream with a defined channel through an unmapped field-identified wetland (i.e. Wetland 1; refer to wetland results in *Section 3.4* of *"Wocawson Energy Project Aquatic Habitats and Wetlands Summary Report"* (Dillon 2018a). During the assessment of Trails E and H, it was determined that WC 2 drains out of Wetland 1 with a defined channel connecting downstream to Wetland 2 (refer to **Figure 1**). At the crossing location (where Trail E and Trail H converge), WC 2 has a wetted width of 1.08 m with dominant substrate of small gravel, sand and fine sediments. The habitat is predominantly run with occasional small riffles. The bank vegetation was sparse, consisting of mainly of bare ground, grasses and small herbaceous plants. At the crossing location, there is a small rudimentary wooden bridge



constructed for ATV crossing (**Photo 1**). Downstream of the Trail F crossing, the channel becomes occasionally braided with increased fine sediment before connecting to Wetland 2. WC2 is considered to be fish habitat, and an unidentified fish was observed during the initial (July 2018) surveys.

• Unnamed Tributary - Watercourse 3 (WC3)

Associated with Trail F

WC3 is an unmapped watercourse that was characterized during initial field survey as an intermittent stream with a poorly defined channel associated with an unmapped field-identified wetland (i.e. Wetland 2; refer to wetland results in *Section 3.4 of*). During the access trail surveys, it was determined that WC3 flows out of Wetland 2 and crosses Trail F at some point downstream of Wetland 2. At the trail crossing location, the watercourse has a wetted width of 0.85 m with dominant substrate of rubble and gravel. The bank vegetation consisted of grasses and small herbaceous plants. Fish were not observed in WC3 during the field survey, although it may provide potential fish habitat.

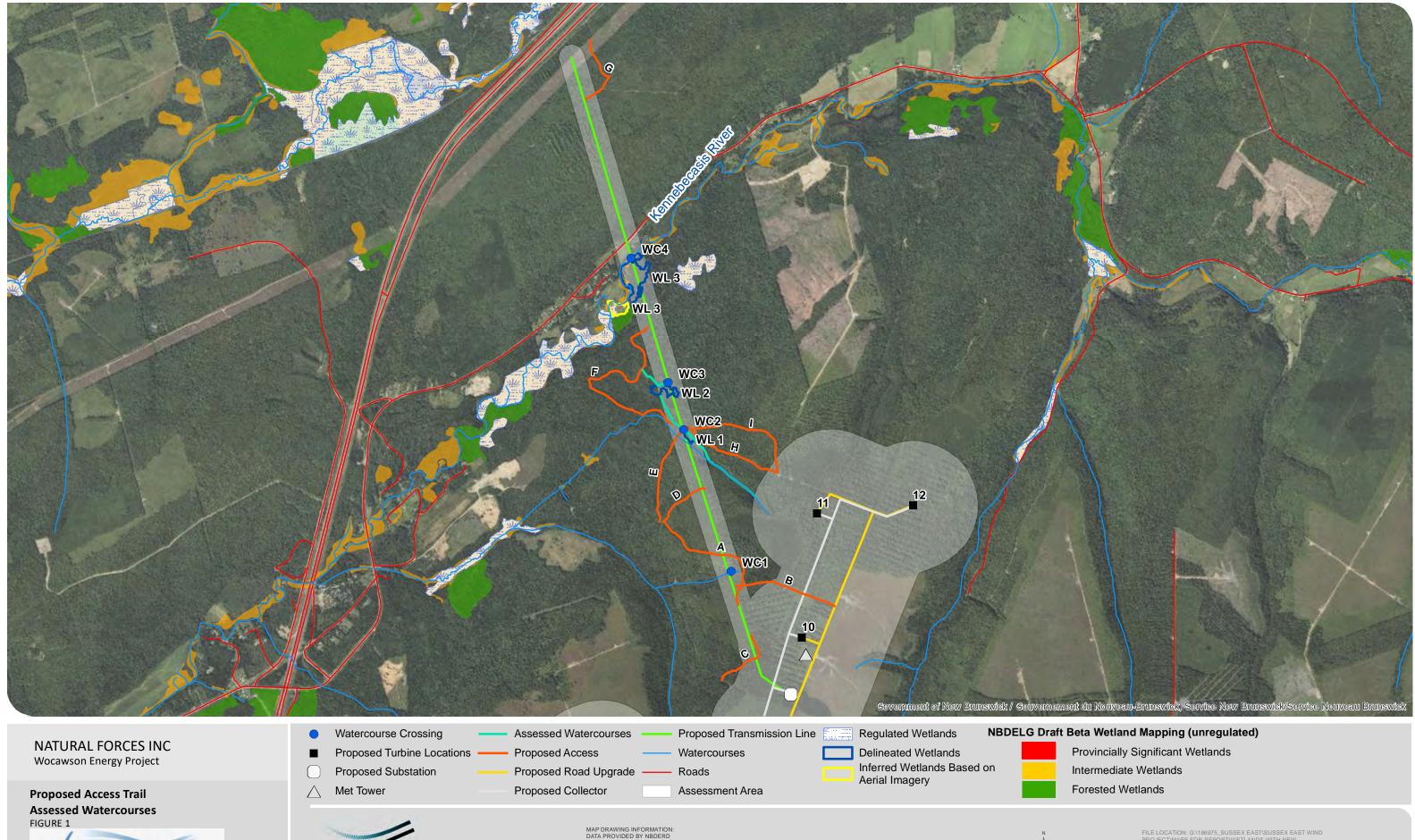
Although they were dry at the time of the field assessment, access trails H and I showed evidence of (at times) considerable runoff affecting the steeper sections of trail (see additional site photos, **Photo 3**). Refer to **Table 1** for additional watercourse details/descriptions.

Watercourse ID	Representative Photo	Dominant Aquatic Habitat Type and Other Observations
WC2 crossing at Trail F		Wetted Width: 1.08 m Dominant Habitat: Run with small riffles Dominant Substrate: 60 % gravel, 25 % sand and 15 % fines Fish Habitat Suitability: Small watercourse with potential fish habitat Fish were observed during the field survey Wetland Association: Wetland 1 and 2
WC3 crossing at Trail F		Wetted Width: 0.85 m Dominant Habitat: Run with small riffles Dominant Substrate: 55 % rubble, 40% gravel, and 5 % sand Fish Habitat Suitability: Small watercourse with potential fish habitat Wetland Association: Wetland 2

Table 1: Watercourse Summary – Access Trails

It should be noted that the technique of backpack electrofishing was considered as a method for conducting fish presence or absence surveys, but was not conducted during the field studies due to the breadth of available literature (i.e., extensive aquatic studies conducted in areas surrounding the





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naturalforces

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proposed project by both the Canadian Rivers Institute (CRI 2015) and Kennebecasis Watershed Restoration Committee (KWRC 2018)). A summary of the fish species that have been historically documented to be present within the Kennebecasis River and its watershed is provided in Section 3.2 of *"Wocawson Energy Project Aquatic Habitats and Wetlands Summary Report"* (Dillon 2018a).

3.2 Wetland Assessment Results

There are no mapped wetlands on the GeoNB mapping layer that would intersect with any portion of the proposed project area or study area for the proposed access trails for the project. Further, there were no new wetlands identified during the field surveys of the proposed access trails, although it was determined that Trail E and Trail H cross through Wetland 1 which was assessed during the initial field surveys (Refer to *Wocawson Energy Project Aquatic Habitat and Wetlands Summary Report*" (Dillon 2018a) for full description and mapped delineations and functional assessments of the field identified wetlands). **Table 2** below, provides a brief summary of Wetland 1 which is intersected by access Trails E and H, as was provided in Dillon (2015a).

Table 2:	Summary	of Field	Identified	Wetlands
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Wetland ID	Wetland Area ¹ (ha)	Location	Wetland Type	Key Ecological Functions ²
Wetland 1	0.38	Trail E and H	Treed Swamp	Organic nutrient export, waterbird feeding habitat, songbird, raptor and mammal habitat, and pollinator habitat

Notes:

 The wetland area provided in this table is the surface area of the field identified wetland that is encompassed within the study area only (i.e., the surface area of the portion of each wetland that intersects the study area, not the entire area of the wetland).
 Key ecological functions were rated as 'higher' functions during the functional assessment.

3.2.1 Wetland 1 – Treed Swamp

Wetland 1 is characterized as a 0.38 ha throughflow wetland of natural origin on a terrene slope that is seasonally flooded and permanently saturated.

Pre-existing anthropogenic effects which were previously identified included adjacent clear cutting, former herbicide use, logging road and ATV/snowmobile trail development.

4.0 Summary and Conclusion

This addendum report summarizing aquatic habitat and wetland surveys has been prepared for the proposed access trail upgrades in support of the Wocawson Energy Project.

The information provided in this document is based on the current available design/planning information and existing environment information obtained during focused field surveys conducted in August 2018.

Wocawson Energy Project Addendum to Aquatic Habitat and Wetlands Summary Report (Final) Proposed Access Trail Upgrades September 2018 – 18-6975



5.0 Closure

This report was prepared by Dillon Consulting Limited (Dillon) on behalf of the Wocawson Energy Limited Partnership, in support of the Wocawson Energy Project EIA. Dillon has used the degree of care and skill ordinarily exercised under similar circumstances at the time the work was performed by reputable members of the environmental consulting profession practicing in Canada. Dillon assumes no responsibility for conditions which were beyond its scope of work. There is no warranty expressed or implied by Dillon.

The material in the report reflects Dillon's best judgment in light of the information available to Dillon at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibilities of such third parties. Dillon accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

Yours truly,

DILLON CONSULTING LIMITED

Kristin Banks, P.Eng. Project Manager



Appendix A

Additional Site Photographs



Photo 1: Existing wooden bridge on Trail E/Trail H at Watercourse 2 crossing location.



Photo 2: Existing wooden bridge on Trail F at Watercourse 3 crossing location.





Photo 3: Example of damage from drainage down steep section of Trail I.



References

CRI (Canadian Rivers Institute). 2015. Surface Water Monitoring Program – Kennebecasis Watershed. Available at: <u>http://canadarivers-</u>

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Appendix B

Wildlife and Wildlife Habitat Survey



WOCAWSON ENERGY PROJECT Addendum to Wildlife and Wildlife Habitat Summary Report (Final)

Proposed Access Trail Upgrades



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1.0 Introduction

Dillon Consulting Limited (Dillon) was retained by the Wocawson Energy Limited Partnership to complete natural environment surveys for proposed access trail upgrades in support of a future provincial registration of an Environmental Impact Assessment (EIA) for the Wocawson Energy Project (WEP). The project consists of the construction and operation of 6-12 wind turbines generating between 20-40 MW of electricity, an on-site substation, and a transmission line connecting the project to the New Brunswick electrical grid, to be located on a parcel of Crown land near Penobsquis, New Brunswick.

Dillon had conducted field surveys throughout the summer of 2018 for the proposed turbine locations as well as the proposed transmission line connecting the project to the existing electrical grid. The results of those surveys (vegetation, aquatic habitats, birds, bats, and wildlife and wildlife habitat) were documented in standalone reports submitted to Wocawson in support of their preparation of an EIA registration for the proposed project. Since those surveys were conducted, additional areas were identified to access the proposed transmission line corridor that required assessment. Thus, additional surveys were conducted of those access areas and the results are documented in several addenda to those reports, such as this addendum to the Wildlife and Wildlife Habitat Summary Report (Dillon 2018a). It is intended that these addenda would be appended to the respective summary reports for each of the above disciplines. The addenda for each discipline should thus be read in conjunction with the corresponding Summary Report.

To access the proposed WEP transmission line, New Brunswick Power Corporation (NB Power) requires that access trails present within the proposed project area be widened and upgraded to conditions that allow access of infrastructure and heavy equipment/vehicles. This addendum provides a summary of the wildlife and wildlife habitat surveys conducted along the proposed access trail upgrades in support of the Wocawson Energy Project EIA registration, and includes a brief description of the scope of work/methodology used and a summary of the survey results.

Though the terrestrial environment generally includes vegetation, wetlands, wildlife, wildlife habitat, and species at risk/species of conservation concern, the focus of this report is on wildlife and wildlife habitat, as an updated appendix to the Dillon report titled "Wocawson Energy Project Wildlife and Wildlife Habitat Summary Report" (Dillon 2018).

2.0 Wildlife and Wildlife Habitat Surveys Scope and Methodology

The scope of work for this additional field survey effort for the proposed access trail upgrade included completing wildlife and wildlife habitat surveys through incidental observations of wildlife and observations of available wildlife habitat. The field studies were completed along 7.8 km of trail within

Wocawson Energy Project Addendum to Wildlife and Wildlife Habitat Summary Report (Final) - Proposed Access Trail Upgrades September 2018 – 18-6975



the proposed project area (i.e. the study area referred to throughout this report). The field surveys were conducted by Dillon biologists on August 22, 23 and 24, 2018. The specific survey methods as well as the rationale behind the selection of wildlife and wildlife habitat as a valued component of the environment in relation to the project can be referenced within the main vegetation summary report ("Wocawson Energy Project Widllife and Wildlife Habitat Summary Report" [Dillon 2018]).

Wildlife and Wildlife Habitat Survey Results 3.0

The access trails extend through several habitat types, including areas of relatively mature hardwood and softwood forest stands. The access trails (i.e. the study area) are identified through unique identifiers (i.e. Trails A - I). A summary of the representative habitat types observed along each access trail are presented below in Table 1, and on Figure 1.

Table 1: Trail	Terrestrial Habitat Types within the Proposed Representative Photo	Turbine Locations Dominant Habitat Type
A		Young hardwood forest adjacent to watercourse – cutover in last 20 years (elements of older softwood retention). Dominant species include red maple (<i>Acer</i> <i>rubrum</i>), white birch (<i>Betula papyrifera</i>), yellow birch (<i>Betula allegheniensis</i>), eastern hemlock (<i>Tsuga</i> <i>canadensis</i>), and white pine (Pinus strobus).
В		Immature to mature hardwood forest – Dominant species include American beach (<i>Fagus grandifolia</i>), sugar maple (<i>Acer saccharum</i>), white birch and red maple.
		Transitions to mature conifer (softwood) forest – Dominant species include red spruce (<i>Picea rubens</i>), balsam fir (<i>Abies balsamea</i>), sugar maple, red maple and eastern hemlock.

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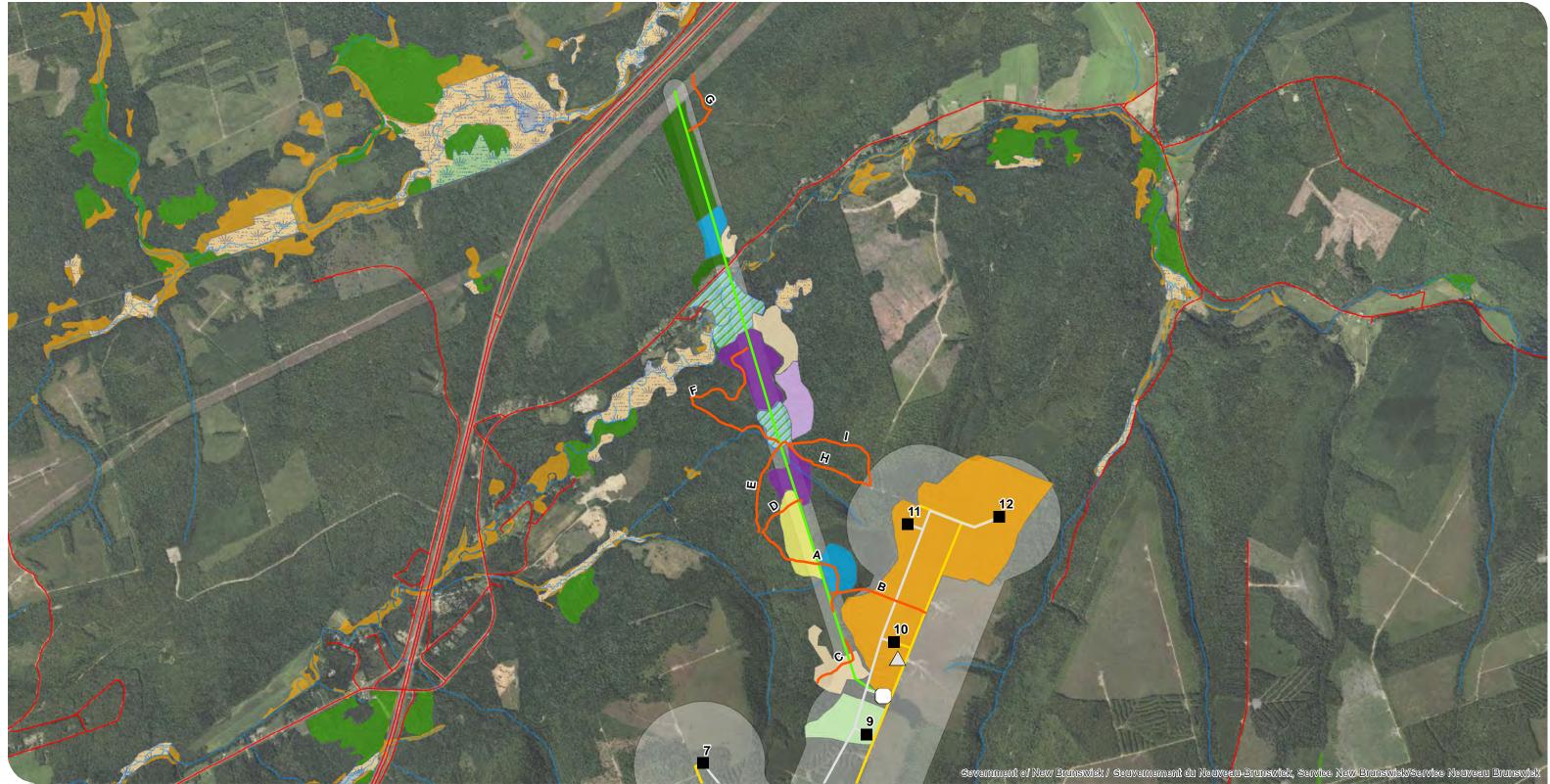
Trail	Representative Photo	Dominant Habitat Type
C		Recent clear cut with white pine retention (past forest type unknown).
D	<image/>	Immature hardwood forest (approximately 20 years old) – Dominant species include American beach, yellow birch, sugar maple, and red maple. Transitions to mature conifer (softwood) forest – Dominant species include red spruce, eastern hemlock, with lesser hardwoods, including sugar maple and yellow birch.
E		Immature hardwood forest – Dominant species include white birch, red maple, sugar maple, balsam fir, largetooth aspen (<i>Populus grandidentata</i>), and white pine.



Trail	Representative Photo	Dominant Habitat Type
F		Mature mixedwood forest – dominant species include balsam fir, red maple, sugar maple, red spruce, white pine and largetooth aspen. Transitions to mature conifer (softwood) dominated forest – Dominant species include balsam fir, eastern hemlock, and white pine with lesser red maple and white birch.
G		Immature hardwood forest – Dominant species include white birch, red maple, sugar maple, balsam fir, largetooth aspen and red oak (<i>Quercus rubra</i>).
Н		Mature mixedwood forest adjacent to watercourse – Dominant species include balsam fir, American beech, yellow birch red maple and white ash (<i>Fraxinus</i> <i>Americana</i>).
I		Recent clear cut (past forest type unknown).

Wocawson Energy Project Addendum to Wildlife and Wildlife Habitat Summary Report (Final) Proposed Access Trail Upgrades September 2018 – 18-6975





NATURAL FORCES INC Wocawson Energy Wind Project

Proposed Access Trail Upgrade Terrestrial Habitat Types FIGURE 1



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MAP CREATED BY: JNH MAP CHECKED BY: ACS MAP PROJECTION: NAD 1983 CSRS New Brunswick Stereographic

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SCALE 1:30,000

Semi-Mature to Mature Hardwood Pine Retention

Potential Wetland



Semi-Mature to Mature Softwood NBDELG Draft Beta Wetland Mapping (unregulated) Provincially Significant Wetlands Intermediate Wetlands Forested Wetlands

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3.1 Wildlife Observations

3.1.1 Information from Desktop Review

As noted in Section 3.2 of the Dillon report titled "Wocawson Energy Project Wildlife and Wildlife Habitat Summary Report" (Dillon 2018), a custom Atlantic Canada Conservation Data Centre (AC CDC) data report was obtained for a 5 km radius around the proposed project area (AC CDC 2018). According to the AC CDC records review, there are no records of wildlife species of conservation concern or location sensitive species (excluding birds and bats) that have been historically observed within 5 km of the proposed project area. Birds and bats will be addressed in separate addenda to the main reports.

3.1.2 Wildlife Observations

Large and small mammals, including ungulates, are known to utilize trail and wood-road networks for travel. Evidence (i.e., tracks and scat) of white-tailed deer (*Odocoileus virginianus*), American moose (*Alces alces*), eastern coyote (*Canis latrans*), and snowshoe hare (*Lepus americanus*), were noted throughout the trails. No visual observations of wildlife species at risk or wildlife species of conservation were recorded during the field surveys. All the above species have populations in New Brunswick that are considered secure (AC CDC 2017).

4.0 Summary and Conclusion

This addendum report summarizing wildlife and wildlife habitat surveys has been prepared for the proposed access trail upgrades in support of the Wocawson Energy Project.

The information provided in this document is based on the current available design/planning information and existing environment information obtained during focused field surveys conducted in August, 2018.



5.0 Closure

This report was prepared by Dillon Consulting Limited (Dillon) on behalf of the Wocawson Energy Limited Partnership, in support of the Wocawson Energy Project EIA. Dillon has used the degree of care and skill ordinarily exercised under similar circumstances at the time the work was performed by reputable members of the environmental consulting profession practicing in Canada. Dillon assumes no responsibility for conditions which were beyond its scope of work. There is no warranty expressed or implied by Dillon.

The material in the report reflects Dillon's best judgment in light of the information available to Dillon at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibilities of such third parties. Dillon accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

Yours truly,

DILLON CONSULTING LIMITED

Kristin Banks, P.Eng. Project Manager



References

AC CDC (Atlantic Canada Conservation Data Centre). 2017. Rarity ranks and legal status by province. Accessed at: <u>http://www.accdc.com/en/ranks.html</u>. (Accessed May 2018).

AC CDC (Atlantic Canada Conservation Data Centre). 2018. DATA REPORT 5782: Sussex East, NB. April 2018 Data Request.

Dillon (Dillon Consulting Limited). 2018. Wildlife and Wildlife Habitat Summary Report. Prepared for the Wocawson Project Limited Partnership by Dillon Consulting Limited, Fredericton, NB.



Appendix C

Vegetation Survey



WOCAWSON ENERGY PROJECT Addendum to Vegetation Summary Report (Final)

Proposed Access Trail Upgrades



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References



1.0 Introduction

Dillon Consulting Limited (Dillon) was retained by the Wocawson Energy Limited Partnership to complete natural environment surveys for proposed access trail upgrades in support of a future provincial registration of an Environmental Impact Assessment (EIA) for the Wocawson Energy Project (WEP). The project consists of the construction and operation of 6-12 wind turbines generating between 20-40 MW of electricity, an on-site substation, and a transmission line connecting the project to the New Brunswick electrical grid, to be located on a parcel of Crown land near Penobsquis, New Brunswick.

Dillon had conducted field surveys throughout the summer of 2018 for the proposed turbine locations as well as the proposed transmission line connecting the project to the existing electrical grid. The results of those surveys (vegetation, aquatic habitats, birds, bats, and wildlife and wildlife habitat) were documented in standalone reports submitted to Wocawson in support of their preparation of an EIA registration for the proposed project. Since those surveys were conducted, additional areas were identified to access the proposed transmission line corridor that required assessment. Thus, additional surveys were conducted of those access areas and the results are documented in several addenda to those reports, such as this addendum to the Vegetation Summary Report (Dillon 2018a). It is intended that these addenda would be appended to the respective summary reports for each of the above disciplines. The addenda for each discipline should thus be read in conjunction with the corresponding Summary Report.

To access the proposed WEP transmission line, New Brunswick Power Corporation (NB Power) requires that access trails present within the proposed project area be widened and upgraded to conditions that allow access of infrastructure and heavy equipment/vehicles. This addendum provides a summary of the vegetation surveys conducted along the proposed access trail upgrades in support of the Wocawson Energy Project EIA registration, and includes a brief description of the scope of work/methodology used and a summary of the survey results.

Though the terrestrial environment generally includes vegetation, wetlands, wildlife, wildlife habitat, and species at risk/species of conservation concern, the focus of this report is on rare plants and baseline vegetation, as an updated appendix to the Dillon report titled "Wocawson Energy Project Vegetation Summary Report" (Dillon 2018a).

2.0 Scope of Work and Methodology

The scope of work for this additional vegetation assessment for the proposed access trail upgrade included completing baseline vegetation (vegetation species list) and rare plant surveys for 7.8 km of trail within the proposed project area (which constitute the "study area" referred to throughout this addendum). The field surveys were conducted by Dillon biologists on August 22, 23 and 24, 2018. The specific survey methods as well as the rationale behind the selection of vegetation as a valued component of the environment in relation to the project can be referenced within the main vegetation summary report (*"Wocawson Energy Project Vegetation Summary Report"* [Dillon 2018a]).

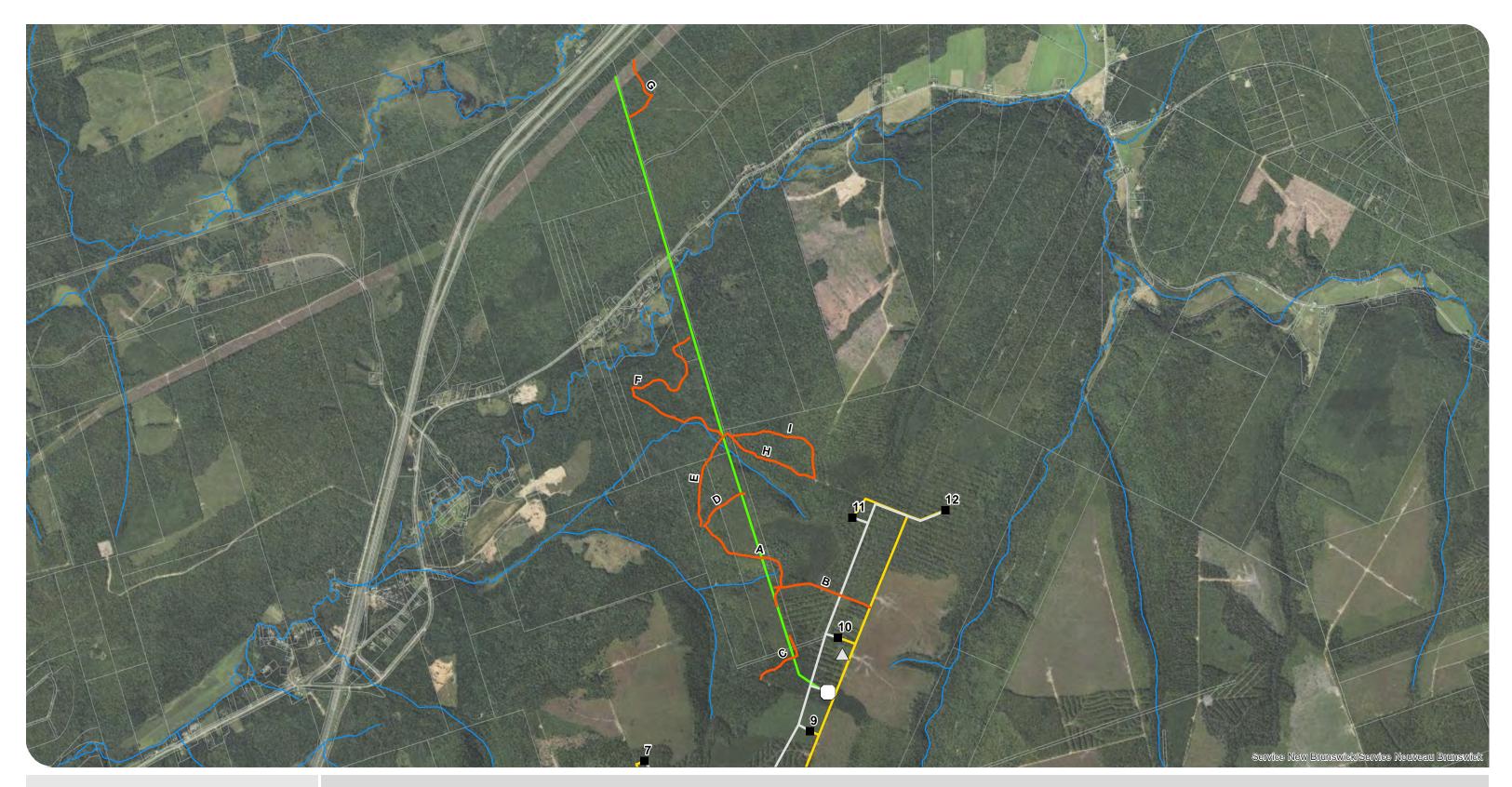
3.0 Vegetation Survey Results

The access trails extend through several habitat types (refer to the addendum report titled "Addendum to Wildlife and Wildlife Habitat Summary Report [Dillon 2018b]", including areas of relatively mature hardwood and softwood forest stands. The access trails (i.e., the study area) are presented on **Figure 1**, and are identified through unique identifiers (i.e., Trails A - I).

A total of 168 vegetation species were observed within the study area during the field studies. The majority of the identified species were common and native to New Brunswick, and the remaining species included several identified non-native or exotic (SE) species. There were no species at risk, species of conservation concern or rare species identified within the study area during the field studies. Refer to **Tables 1 - 9** for the complete list of all plant species identified along each access trail.







NATURAL FORCES INC Wocawson Energy Project

Porposed Access Trail Upgrade FIGURE 1



- Proposed Turbine Locations
- Proposed Substation
- \triangle Met Tower



Proposed Road Upgrade
 Proposed Transmission Line

Watercourses

Proposed Collector
Proposed Access Trail Upgrade
PID

MAP DRAWING INFORMATION: DATA PROVIDED BY NBDERD

MAP CREATED BY: JNH MAP CHECKED BY: ACS MAP PROJECTION: NAD 1983 CSRS New Brunswick Stereographic 0 0.25 0.5

SCALE 1:28,000

FILE LOCATION: G:\CAD\GIS\186975_SUSSEX EAST\SUSSEX EAST WIND PROJECT\MAPS FOR REPORT\SITE PLAN JULY 9 2018_JNH

Table 1: Vegetation Species Identified Along Access Trail A			
Scientific Name	Common Name	S Rank	Sgs Rank
Acer pensylvanicum	Striped Maple	S5	4 Secure
Acer rubrum	Red Maple	S5	4 Secure
Rhus typhina	Staghorn Sumac	S5	4 Secure
Aralia hispida	Bristly Sarsaparilla	S5	4 Secure
Aralia nudicaulis	Wild Sarsaparilla	S5	4 Secure
Anaphalis margaritacea	Pearly Everlasting	S5	4 Secure
Hieracium aurantiacum	Orange Hawkweed	SNA	7 Exotic
Hieracium caespitosum	Field Hawkweed	SNA	7 Exotic
Hieracium pilosella	Mouse-ear Hawkweed	SNA	7 Exotic
Oclemena acuminata	Whorled Wood Aster	S5	4 Secure
Prenanthes trifoliolata	Three-leaved Rattlesnakeroot	S5	4 Secure
Solidago bicolor	White Goldenrod	S5	4 Secure
Solidago puberula	Downy Goldenrod	S5	4 Secure
Solidago rugosa	Rough-stemmed Goldenrod	S5	4 Secure
Symphyotrichum lateriflorum	Calico Aster	S5	4 Secure
Betula alleghaniensis	Yellow Birch	S5	4 Secure
Lobelia inflata	Indian Tobacco	S5	4 Secure
Hypericum canadense	Canada St John's-wort	S5	4 Secure
Cornus canadensis	Bunchberry	S5	4 Secure
Diervilla lonicera	Northern Bush Honeysuckle	S5	4 Secure
Lonicera canadensis	Canada Fly Honeysuckle	S5	4 Secure
Viburnum nudum	Northern Wild Raisin	S5	4 Secure
Epigaea repens	Trailing Arbutus	S5	4 Secure
Gaultheria procumbens	Eastern Teaberry	S5	4 Secure
Vaccinium angustifolium	Late Lowbush Blueberry	S5	4 Secure
Vaccinium myrtilloides	Velvet-leaved Blueberry	S5	4 Secure
Polygonum cilinode	Fringed Black Bindweed	S5	4 Secure
Polygonum hydropiper	Marshpepper Smartweed	SNA	7 Exotic
Plantago major	Common Plantain	SNA	7 Exotic
Trientalis borealis	Northern Starflower	S5	4 Secure
Orthilia secunda	One-sided Wintergreen	S5	4 Secure
Pyrola elliptica	Shinleaf	S5	4 Secure
Amelanchier spp.			
Potentilla norvegica	Rough Cinquefoil	S5	4 Secure
Prunus serotina	Black Cherry	S5	4 Secure
Prunus virginiana	Chokecherry	S5	4 Secure

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Scientific Name	Common Name	S Rank	Sgs Rank
Rubus allegheniensis	Alleghaney Blackberry	S5	4 Secure
Rubus idaeus	Red Raspberry	S5	4 Secure
Mitchella repens	Partridgeberry	S5	4 Secure
Salix spp.			
Euphrasia nemorosa	Common Eyebright	SNA	7 Exotic
Melampyrum lineare	American Cow Wheat	S5	4 Secure
Veronica officinalis	Common Speedwell	S5	7 Exotic
Viola spp.			
Abies balsamea	Balsam Fir	S5	4 Secure
Picea rubens	Red Spruce	S5	4 Secure
Pinus strobus	Eastern White Pine	S5	4 Secure
Tsuga canadensis	Eastern Hemlock	S5	4 Secure
Juncus bufonius	Toad Rush	S5	4 Secure
Clintonia borealis	Yellow Bluebead Lily	S5	4 Secure
Maianthemum canadense	Wild Lily-of-The-Valley	S5	4 Secure
Trillium erectum	Red Trillium	S5	4 Secure
Trillium undulatum	Painted Trillium	S5	4 Secure
Cypripedium acaule	Pink Lady's-Slipper	S5	4 Secure
Dichanthelium acuminatum	Woolly Panic Grass	S5	4 Secure
Pteridium aquilinum	Bracken Fern	S5	4 Secure
Osmunda cinnamomea	Cinnamon Fern	S5	4 Secure
Osmunda claytoniana	Interrupted Fern	S5	4 Secure

Table 2: Vegetation Species Identified Along Access Trail B

Scientific Name	Common Name	S Rank	Sgs Rank
Acer pensylvanicum	Striped Maple	S5	4 Secure
Acer rubrum	Red Maple	S5	4 Secure
Acer saccharum	Sugar Maple	S5	4 Secure
Rhus typhina	Staghorn Sumac	S5	4 Secure
Aralia hispida	Bristly Sarsaparilla	S5	4 Secure
Aralia nudicaulis	Wild Sarsaparilla	S5	4 Secure
Anaphalis margaritacea	Pearly Everlasting	S5	4 Secure
Conyza canadensis	Canada Horseweed	S5	4 Secure
Doellingeria umbellata	Hairy Flat-top White Aster	S5	4 Secure
Hieracium aurantiacum	Orange Hawkweed	SNA	7 Exotic
Hieracium pilosella	Mouse-ear Hawkweed	SNA	7 Exotic



Scientific Name	Common Name	S Rank	Sgs Rank
Oclemena acuminata	Whorled Wood Aster	S5	4 Secure
Prenanthes altissima	Tall Rattlesnakeroot	S5	4 Secure
Prenanthes trifoliolata	Three-leaved Rattlesnakeroot	S5	4 Secure
Senecio jacobaea	Tansy Ragwort	SNA	7 Exotic
Solidago bicolor	White Goldenrod	S5	4 Secure
Solidago canadensis	Canada Goldenrod	S5	4 Secure
Solidago puberula	Downy Goldenrod	S5	4 Secure
Solidago rugosa	Rough-stemmed Goldenrod	S5	4 Secure
Symphyotrichum lateriflorum	Calico Aster	S5	4 Secure
Betula papyrifera	Paper Birch	S5	4 Secure
Cornus canadensis	Bunchberry	S5	4 Secure
Diervilla lonicera	Northern Bush Honeysuckle	S5	4 Secure
Lonicera canadensis	Canada Fly Honeysuckle	S5	4 Secure
Vaccinium angustifolium	Late Lowbush Blueberry	S5	4 Secure
Vaccinium myrtilloides	Velvet-leaved Blueberry	S5	4 Secure
Fagus grandifolia	American Beech	S4	4 Secure
Comptonia peregrina	Sweet-fern	S5	4 Secure
Monotropa uniflora	Indian Pipe	S5	4 Secure
Chamerion angustifolium	Fireweed	S5	4 Secure
Oxalis montana	Common Wood Sorrel	S5	4 Secure
Oxalis stricta	European Wood Sorrel	S5	4 Secure
Polygonum cilinode	Fringed Black Bindweed	S5	4 Secure
Plantago major	Common Plantain	SNA	7 Exotic
Trientalis borealis	Northern Starflower	S5	4 Secure
Orthilia secunda	One-sided Wintergreen	S5	4 Secure
Pyrola elliptica	Shinleaf	S5	4 Secure
Anemone quinquefolia	Wood Anemone	S4	4 Secure
Potentilla norvegica	Rough Cinquefoil	S5	4 Secure
Potentilla simplex	Old Field Cinquefoil	S5	4 Secure
Prunus pensylvanica	Pin Cherry	S5	4 Secure
Prunus serotina	Black Cherry	S5	4 Secure
Prunus virginiana	Chokecherry	S5	4 Secure
Rubus allegheniensis	Alleghaney Blackberry	S5	4 Secure
Rubus idaeus	Red Raspberry	S5	4 Secure
Populus grandidentata	Large-toothed Aspen	S5	4 Secure
Populus tremuloides	Trembling Aspen	S5	4 Secure



Scientific Name	Common Name	S Rank	Sgs Rank
Salix spp			
Euphrasia nemorosa	Common Eyebright	SNA	7 Exotic
Melampyrum lineare	American Cow Wheat	S5	4 Secure
Veronica officinalis	Common Speedwell	S5	7 Exotic
Viola spp.			
Abies balsamea	Balsam Fir	S5	4 Secure
Picea rubens	Red Spruce	S5	4 Secure
Tsuga canadensis	Eastern Hemlock	S5	4 Secure
Juncus bufonius	Toad Rush	S5	4 Secure
Streptopus lanceolatus	Rose Twisted-stalk	S5	4 Secure
Trillium undulatum	Painted Trillium	S5	4 Secure
Cypripedium acaule	Pink Lady's-Slipper	S5	4 Secure
Dichanthelium acuminatum	Woolly Panic Grass	S5	4 Secure
Pteridium aquilinum	Bracken Fern	S5	4 Secure
Dryopteris carthusiana	Spinulose Wood Fern	S5	4 Secure
Dryopteris intermedia	Evergreen Wood Fern	S5	4 Secure
Onoclea sensibilis	Sensitive Fern	S5	4 Secure
Lycopodium annotinum	Stiff Clubmoss	S5	4 Secure
Lycopodium clavatum	Running Clubmoss	S5	4 Secure
Osmunda cinnamomea	Cinnamon Fern	S5	4 Secure
Osmunda claytoniana	Interrupted Fern	S5	4 Secure

Table 3: Vegetation Species Identified Along Access Trail C

Scientific Name	Common Name	S Rank	Sgs Rank
Acer pensylvanicum	Striped Maple	S5	4 Secure
Acer rubrum	Red Maple	S5	4 Secure
Aralia hispida	Bristly Sarsaparilla	S5	4 Secure
Achillea millefolium	Common Yarrow	S5	4 Secure
Anaphalis margaritacea	Pearly Everlasting	S5	4 Secure
Conyza canadensis	Canada Horseweed	S5	4 Secure
Senecio jacobaea	Tansy Ragwort	SNA	7 Exotic
Senecio viscosus	Sticky Ragwort	SNA	7 Exotic
Senecio vulgaris	Common Ragwort	SNA	7 Exotic
Solidago bicolor	White Goldenrod	S 5	4 Secure
Solidago puberula	Downy Goldenrod	S5	4 Secure
Solidago rugosa	Rough-stemmed Goldenrod	S5	4 Secure



Scientific Name	Common Name	S Rank	Sgs Rank
Sonchus arvensis	Field Sow Thistle	SNA	7 Exotic
Sonchus oleraceus	Common Sow Thistle	SNA	7 Exotic
Symphyotrichum lateriflorum	Calico Aster	S5	4 Secure
Tanacetum vulgare	Common Tansy	SNA	7 Exotic
Cornus canadensis	Bunchberry	S5	4 Secure
Diervilla lonicera	Northern Bush Honeysuckle	S5	4 Secure
Linnaea borealis	Twinflower	S5	4 Secure
Vaccinium angustifolium	Late Lowbush Blueberry	S5	4 Secure
Vaccinium myrtilloides	Velvet-leaved Blueberry	S5	4 Secure
Chamerion angustifolium	Fireweed	S 5	4 Secure
Polygonum cilinode	Fringed Black Bindweed	S5	4 Secure
Trientalis borealis	Northern Starflower	S5	4 Secure
Prunus serotina	Black Cherry	S5	4 Secure
Rubus allegheniensis	Alleghaney Blackberry	S 5	4 Secure
Rubus hispidus	Bristly Dewberry	S5	4 Secure
Rubus idaeus	Red Raspberry	S5	4 Secure
Populus grandidentata	Large-toothed Aspen	S 5	4 Secure
Populus tremuloides	Trembling Aspen	S 5	4 Secure
Salix spp.	-	-	-
Euphrasia nemorosa	Common Eyebright	SNA	7 Exotic
Pinus strobus	Eastern White Pine	S5	4 Secure
Carex projecta	Necklace Sedge	S5	4 Secure
Maianthemum canadense	Wild Lily-of-The-Valley	S5	4 Secure
Pteridium aquilinum	Bracken Fern	S5	4 Secure

Table 4: Vegetation Species Identified Along Access Trail D

Scientific Name	Common Name	S Rank	Sgs Rank
Acer pensylvanicum	Striped Maple	S5	4 Secure
Acer rubrum	Red Maple	S5	4 Secure
Acer saccharum	Sugar Maple	S5	4 Secure
Acer spicatum	Mountain Maple	S5	4 Secure
Aralia nudicaulis	Wild Sarsaparilla	S5	4 Secure
Achillea millefolium	Common Yarrow	S5	4 Secure
Anaphalis margaritacea	Pearly Everlasting	S5	4 Secure
Eurybia macrophylla	Large-leaved Aster	S5	4 Secure
Euthamia graminifolia	Grass-leaved Goldenrod	S5	4 Secure
Hieracium aurantiacum	Orange Hawkweed	SNA	7 Exotic



Scientific Name	Common Name	S Rank	Sgs Rank
Hieracium pilosella	Mouse-ear Hawkweed	SNA	7 Exotic
Oclemena acuminata	Whorled Wood Aster	S5	4 Secure
Prenanthes altissima	Tall Rattlesnakeroot	S5	4 Secure
Prenanthes trifoliolata	Three-leaved Rattlesnakeroot	S5	4 Secure
Senecio jacobaea	Tansy Ragwort	SNA	7 Exotic
Solidago bicolor	White Goldenrod	S5	4 Secure
Solidago puberula	Downy Goldenrod	S5	4 Secure
Solidago rugosa	Rough-stemmed Goldenrod	S5	4 Secure
Symphyotrichum lateriflorum	Calico Aster	S5	4 Secure
Betula alleghaniensis	Yellow Birch	S5	4 Secure
Corylus cornuta	Beaked Hazel	S5	4 Secure
Lobelia inflata	Indian Tobacco	S5	4 Secure
Cornus alternifolia	Alternate-leaved Dogwood	S5	4 Secure
Cornus canadensis	Bunchberry	S5	4 Secure
Diervilla lonicera	Northern Bush Honeysuckle	S5	4 Secure
Linnaea borealis	Twinflower	S5	4 Secure
Lonicera canadensis	Canada Fly Honeysuckle	S5	4 Secure
Viburnum lantanoides	Hobblebush	S5	4 Secure
Epigaea repens	Trailing Arbutus	S5	4 Secure
Gaultheria procumbens	Eastern Teaberry	S5	4 Secure
Kalmia angustifolia	Sheep Laurel	S5	4 Secure
Fagus grandifolia	American Beech	S4	4 Secure
Lycopus americanus	American Water Horehound	S5	4 Secure
Comptonia peregrina	Sweet-fern	S5	4 Secure
Monotropa uniflora	Indian Pipe	S5	4 Secure
Fraxinus americana	White Ash	S4S5	4 Secure
Circaea alpina	Small Enchanter's Nightshade	S5	4 Secure
Oxalis stricta	European Wood Sorrel	S5	4 Secure
Polygonum hydropiper	Marshpepper Smartweed	SNA	7 Exotic
Polygonum sagittatum	Arrow-leaved Smartweed	S5	4 Secure
Plantago major	Common Plantain	SNA	7 Exotic
Orthilia secunda	One-sided Wintergreen	S5	4 Secure
Pyrola elliptica	Shinleaf	S5	4 Secure
Coptis trifolia	Goldthread	S5	4 Secure
Fragaria vesca	Woodland Strawberry	S4	4 Secure
Fragaria virginiana	Wild Strawberry	S5	4 Secure



Scientific Name	Common Name	S Rank	Sgs Rank
Potentilla norvegica	Rough Cinquefoil	S5	4 Secure
Prunus serotina	Black Cherry	S5	4 Secure
Prunus virginiana	Chokecherry	S5	4 Secure
Rubus allegheniensis	Alleghaney Blackberry	S5	4 Secure
Rubus hispidus	Bristly Dewberry	S5	4 Secure
Mitchella repens	Partridgeberry	S5	4 Secure
Salix spp.	-	-	-
Euphrasia nemorosa	Common Eyebright	SNA	7 Exotic
Melampyrum lineare	American Cow Wheat	S5	4 Secure
Veronica officinalis	Common Speedwell	S5	7 Exotic
Viola spp.	-	-	-
Thuja occidentalis	Eastern White Cedar	S5	4 Secure
Abies balsamea	Balsam Fir	S5	4 Secure
Picea rubens	Red Spruce	S5	4 Secure
Tsuga canadensis	Eastern Hemlock	S5	4 Secure
Juncus bufonius	Toad Rush	S5	4 Secure
Clintonia borealis	Yellow Bluebead Lily	S5	4 Secure
Maianthemum canadense	Wild Lily-of-The-Valley	S5	4 Secure
Medeola virginiana	Indian Cucumber Root	S5	4 Secure
Streptopus lanceolatus	Rose Twisted-stalk	S5	4 Secure
Trillium undulatum	Painted Trillium	S5	4 Secure
Cypripedium acaule	Pink Lady's-Slipper	S 5	4 Secure
Calamagrostis canadensis	Bluejoint Reed Grass	S5	4 Secure
Dichanthelium acuminatum	Woolly Panic Grass	S5	4 Secure
Glyceria striata	Fowl Manna Grass	S5	4 Secure
Dennstaedtia punctilobula	Eastern Hay-Scented Fern	S 5	4 Secure
Pteridium aquilinum	Bracken Fern	S5	4 Secure
Dryopteris cristata	Crested Wood Fern	S5	4 Secure
Osmunda claytoniana	Interrupted Fern	S5	4 Secure
Phegopteris connectilis	Northern Beech Fern	S5	4 Secure
Thelypteris noveboracensis	New York Fern	S5	4 Secure

Table 5: Vegetation Species Identified Along Access Trail E

Scientific Name	Common Name	S Rank	Sgs Rank
Aralia nudicaulis	Wild Sarsaparilla	S5	4 Secure
Achillea millefolium	Common Yarrow	S5	4 Secure
Anaphalis margaritacea	Pearly Everlasting	S5	4 Secure



Scientific Name	Common Name	S Rank	Sgs Rank
Eurybia macrophylla	Large-leaved Aster	S5	4 Secure
Euthamia graminifolia	Grass-leaved Goldenrod	S5	4 Secure
Oclemena acuminata	Whorled Wood Aster	S5	4 Secure
Solidago bicolor	White Goldenrod	S5	4 Secure
Solidago canadensis	Canada Goldenrod	S5	4 Secure
Solidago puberula	Downy Goldenrod	S5	4 Secure
Solidago rugosa	Rough-stemmed Goldenrod	S5	4 Secure
Symphyotrichum lateriflorum	Calico Aster	S5	4 Secure
Lobelia inflata	Indian Tobacco	S5	4 Secure
Cornus canadensis	Bunchberry	S5	4 Secure
Diervilla lonicera	Northern Bush Honeysuckle	S 5	4 Secure
Linnaea borealis	Twinflower	S5	4 Secure
Lonicera canadensis	Canada Fly Honeysuckle	S5	4 Secure
Epigaea repens	Trailing Arbutus	S5	4 Secure
Kalmia angustifolia	Sheep Laurel	S5	4 Secure
Comptonia peregrina	Sweet-fern	S5	4 Secure
Oenothera biennis	Common Evening Primrose	S5	4 Secure
Plantago major	Common Plantain	SNA	7 Exotic
Trientalis borealis	Northern Starflower	S5	4 Secure
Coptis trifolia	Goldthread	S5	4 Secure
Potentilla simplex	Old Field Cinquefoil	S5	4 Secure
Rubus allegheniensis	Alleghaney Blackberry	S5	4 Secure
Rubus idaeus	Red Raspberry	S5	4 Secure
Sorbus americana	American Mountain Ash	S5	4 Secure
Mitchella repens	Partridgeberry	S5	4 Secure
Salix spp.	-	-	-
Euphrasia nemorosa	Common Eyebright	SNA	7 Exotic
Melampyrum lineare	American Cow Wheat	S5	4 Secure
Veronica officinalis	Common Speedwell	S5	7 Exotic
Viola spp.	-	-	-
Juncus bufonius	Toad Rush	S5	4 Secure
Clintonia borealis	Yellow Bluebead Lily	S5	4 Secure
Maianthemum canadense	Wild Lily-of-The-Valley	S5	4 Secure
Medeola virginiana	Indian Cucumber Root	S5	4 Secure
Streptopus lanceolatus	Rose Twisted-stalk	S5	4 Secure
Dichanthelium acuminatum	Woolly Panic Grass	S5	4 Secure



Scientific Name	Common Name	S Rank	Sgs Rank
Pteridium aquilinum	Bracken Fern	S5	4 Secure
Lycopodium annotinum	Stiff Clubmoss	S5	4 Secure
Osmunda claytoniana	Interrupted Fern	S5	4 Secure

Table 6: Vegetation Species Identified Along Access Trail F			
Scientific Name	Common Name	S Rank	Sgs Rank
Acer pensylvanicum	Striped Maple	S5	4 Secure
Acer rubrum	Red Maple	S5	4 Secure
Acer saccharum	Sugar Maple	S5	4 Secure
Acer spicatum	Mountain Maple	S5	4 Secure
Toxicodendron rydbergii	Northern Poison Oak	S5	4 Secure
Hydrocotyle americana	American Marsh Pennywort	S5	4 Secure
Apocynum androsaemifolium	Spreading Dogbane	S5	4 Secure
Aralia nudicaulis	Wild Sarsaparilla	S5	4 Secure
Achillea millefolium	Common Yarrow	S5	4 Secure
Anaphalis margaritacea	Pearly Everlasting	S5	4 Secure
Eupatorium maculatum	Spotted Joe-pye-weed	S5	4 Secure
Eurybia macrophylla	Large-leaved Aster	S5	4 Secure
Oclemena acuminata	Whorled Wood Aster	S5	4 Secure
Prenanthes altissima	Tall Rattlesnakeroot	S5	4 Secure
Prenanthes trifoliolata	Three-leaved Rattlesnakeroot	S5	4 Secure
Impatiens capensis	Spotted Jewelweed	S5	4 Secure
Corylus cornuta	Beaked Hazel	S5	4 Secure
Lobelia inflata	Indian Tobacco	S5	4 Secure
Hypericum canadense	Canada St John's-wort	S5	4 Secure
Cornus alternifolia	Alternate-leaved Dogwood	S5	4 Secure
Cornus canadensis	Bunchberry	S5	4 Secure
Cornus sericea	Red Osier Dogwood	S5	4 Secure
Diervilla lonicera	Northern Bush Honeysuckle	S5	4 Secure
Linnaea borealis	Twinflower	S5	4 Secure
Lonicera canadensis	Canada Fly Honeysuckle	S5	4 Secure
Sambucus nigra	Black Elderberry	S5	4 Secure
Viburnum lantanoides	Hobblebush	S5	4 Secure
Viburnum nudum	Northern Wild Raisin	S5	4 Secure
Epigaea repens	Trailing Arbutus	S5	4 Secure
Gaultheria hispidula	Creeping Snowberry	S5	4 Secure
Gaultheria procumbens	Eastern Teaberry	S5	4 Secure

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Scientific Name	Common Name	S Rank	Sgs Rank
Vaccinium angustifolium	Late Lowbush Blueberry	S5	4 Secure
Vaccinium myrtilloides	Velvet-leaved Blueberry	S5	4 Secure
Erodium cicutarium	Common Stork's-bill	SNA	7 Exotic
Ribes lacustre	Bristly Black Currant	S5	4 Secure
Lycopus americanus	American Water Horehound	S5	4 Secure
Mentha arvensis	Wild Mint	S5	4 Secure
Comptonia peregrina	Sweet-fern	S5	4 Secure
Circaea alpina	Small Enchanter's Nightshade	S5	4 Secure
Ludwigia palustris	Marsh Seedbox	S4	4 Secure
Oxalis montana	Common Wood Sorrel	S5	4 Secure
Polygonum hydropiper	Marshpepper Smartweed	SNA	7 Exotic
Polygonum hydropiperoides	False Waterpepper	S4	4 Secure
Polygonum sagittatum	Arrow-leaved Smartweed	S5	4 Secure
Plantago major	Common Plantain	SNA	7 Exotic
Trientalis borealis	Northern Starflower	S5	4 Secure
Orthilia secunda	One-sided Wintergreen	S5	4 Secure
Pyrola elliptica	Shinleaf	S5	4 Secure
Actaea rubra	Red Baneberry	S5	4 Secure
Coptis trifolia	Goldthread	S5	4 Secure
Geum canadense	White Avens	S5	4 Secure
Geum macrophyllum	Large-Leaved Avens	S5	4 Secure
Rubus allegheniensis	Alleghaney Blackberry	S5	4 Secure
Rubus hispidus	Bristly Dewberry	S5	4 Secure
Rubus idaeus	Red Raspberry	S5	4 Secure
Galium palustre	Common Marsh Bedstraw	S5	4 Secure
Mitchella repens	Partridgeberry	S5	4 Secure
Populus grandidentata	Large-toothed Aspen	S5	4 Secure
Populus tremuloides	Trembling Aspen	S5	4 Secure
Chrysosplenium americanum	American Golden Saxifrage	S5	4 Secure
Mitella nuda	Naked Bishop's-Cap	S5	4 Secure
Euphrasia nemorosa	Common Eyebright	SNA	7 Exotic
Melampyrum lineare	American Cow Wheat	S5	4 Secure
Veronica officinalis	Common Speedwell	S5	7 Exotic
Thuja occidentalis	Eastern White Cedar	S5	4 Secure
Abies balsamea	Balsam Fir	S5	4 Secure
Picea rubens	Red Spruce	S5	4 Secure



Scientific Name	Common Name	S Rank	Sgs Rank
Pinus banksiana	Jack Pine	S5	4 Secure
Pinus strobus	Eastern White Pine	S5	4 Secure
Tsuga canadensis	Eastern Hemlock	S5	4 Secure
Carex gynandra	Nodding Sedge	S5	4 Secure
Carex nigra	Smooth Black Sedge	S4S5	4 Secure
Carex projecta	Necklace Sedge	S5	4 Secure
Carex scoparia	Broom Sedge	S5	4 Secure
Scirpus atrocinctus	Black-girdled Bulrush	S5	4 Secure
Scirpus cyperinus	Common Woolly Bulrush	S5	4 Secure
Iris versicolor	Harlequin Blue Flag	S5	4 Secure
Clintonia borealis	Yellow Bluebead Lily	S5	4 Secure
Streptopus lanceolatus	Rose Twisted-stalk	S5	4 Secure
Trillium undulatum	Painted Trillium	S5	4 Secure
Cypripedium acaule	Pink Lady's-Slipper	S5	4 Secure
Calamagrostis canadensis	Bluejoint Reed Grass	S5	4 Secure
Dichanthelium acuminatum	Woolly Panic Grass	S5	4 Secure
Glyceria canadensis	Canada Manna Grass	S5	4 Secure
Glyceria striata	Fowl Manna Grass	S5	4 Secure
Pteridium aquilinum	Bracken Fern	S5	4 Secure
Dryopteris cristata	Crested Wood Fern	S5	4 Secure
Gymnocarpium dryopteris	Common Oak Fern	S5	4 Secure
Onoclea sensibilis	Sensitive Fern	S5	4 Secure
Lycopodium annotinum	Stiff Clubmoss	S5	4 Secure
Osmunda claytoniana	Interrupted Fern	S5	4 Secure
Phegopteris connectilis	Northern Beech Fern	S5	4 Secure

Table 7: Vegetation Species Identified Along Access Trail G

Scientific Name	Common Name	S Rank	Sgs Rank
Acer pensylvanicum	Striped Maple	S5	4 Secure
Acer rubrum	Red Maple	S5	4 Secure
Apocynum androsaemifolium	Spreading Dogbane	S5	4 Secure
Aralia hispida	Bristly Sarsaparilla	S5	4 Secure
Aralia nudicaulis	Wild Sarsaparilla	S5	4 Secure
Achillea millefolium	Common Yarrow	S5	4 Secure
Anaphalis margaritacea	Pearly Everlasting	S5	4 Secure
Doellingeria umbellata	Hairy Flat-top White Aster	S5	4 Secure
Eurybia macrophylla	Large-leaved Aster	S5	4 Secure

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Scientific Name	Common Name	S Rank	Sgs Rank
Euthamia graminifolia	Grass-leaved Goldenrod	S5	4 Secure
Oclemena acuminata	Whorled Wood Aster	S5	4 Secure
Prenanthes altissima	Tall Rattlesnakeroot	S5	4 Secure
Prenanthes trifoliolata	Three-leaved Rattlesnakeroot	S5	4 Secure
Solidago bicolor	White Goldenrod	S5	4 Secure
Solidago canadensis	Canada Goldenrod	S5	4 Secure
Solidago puberula	Downy Goldenrod	S5	4 Secure
Solidago rugosa	Rough-stemmed Goldenrod	S5	4 Secure
Symphyotrichum lateriflorum	Calico Aster	S5	4 Secure
Alnus incana	Speckled Alder	S5	4 Secure
Betula alleghaniensis	Yellow Birch	S5	4 Secure
Betula papyrifera	Paper Birch	S5	4 Secure
Corylus cornuta	Beaked Hazel	S5	4 Secure
Lobelia inflata	Indian Tobacco	S5	4 Secure
Hypericum canadense	Canada St John's-wort	S5	4 Secure
Hypericum perforatum	Common St. John's-wort	SNA	7 Exotic
Cornus canadensis	Bunchberry	S5	4 Secure
Diervilla lonicera	Northern Bush Honeysuckle	S5	4 Secure
Linnaea borealis	Twinflower	S5	4 Secure
Epigaea repens	Trailing Arbutus	S5	4 Secure
Gaultheria hispidula	Creeping Snowberry	S5	4 Secure
Gaultheria procumbens	Eastern Teaberry	S5	4 Secure
Kalmia angustifolia	Sheep Laurel	S5	4 Secure
Vaccinium angustifolium	Late Lowbush Blueberry	S5	4 Secure
Vaccinium myrtilloides	Velvet-leaved Blueberry	S5	4 Secure
Quercus rubra	Northern Red Oak	S5	4 Secure
Lycopus americanus	American Water Horehound	S5	4 Secure
Comptonia peregrina	Sweet-fern	S5	4 Secure
Monotropa uniflora	Indian Pipe	S5	4 Secure
Oxalis stricta	European Wood Sorrel	S5	4 Secure
Trientalis borealis	Northern Starflower	S5	4 Secure
Chimaphila umbellata	Common Pipsissewa	S5	4 Secure
Orthilia secunda	One-sided Wintergreen	S5	4 Secure
Pyrola elliptica	Shinleaf	S5	4 Secure
Fragaria vesca	Woodland Strawberry	S4	4 Secure
Fragaria virginiana	Wild Strawberry	S5	4 Secure



Scientific Name	Common Name	S Rank	Sgs Rank
Potentilla simplex	Old Field Cinquefoil	S5	4 Secure
Rubus allegheniensis	Alleghaney Blackberry	S5	4 Secure
Rubus idaeus	Red Raspberry	S5	4 Secure
Spiraea alba	White Meadowsweet	S5	4 Secure
Spiraea tomentosa	Steeplebush	S5	4 Secure
Mitchella repens	Partridgeberry	S5	4 Secure
Populus grandidentata	Large-toothed Aspen	S5	4 Secure
Populus tremuloides	Trembling Aspen	S5	4 Secure
Salix spp.	-	-	-
Euphrasia nemorosa	Common Eyebright	SNA	7 Exotic
Melampyrum lineare	American Cow Wheat	S5	4 Secure
Veronica officinalis	Common Speedwell	S5	7 Exotic
Abies balsamea	Balsam Fir	S5	4 Secure
Pinus strobus	Eastern White Pine	S5	4 Secure
Clintonia borealis	Yellow Bluebead Lily	S5	4 Secure
Maianthemum canadense	Wild Lily-of-The-Valley	S5	4 Secure
Trillium undulatum	Painted Trillium	S5	4 Secure
Cypripedium acaule	Pink Lady's-Slipper	S5	4 Secure
Oryzopsis asperifolia	White-grained Mountain Rice	S5	4 Secure
Pteridium aquilinum	Bracken Fern	S5	4 Secure
Dryopteris carthusiana	Spinulose Wood Fern	S5	4 Secure
Dryopteris intermedia	Evergreen Wood Fern	S5	4 Secure

Table 8: Vegetation Species Identified Along Access Trail H

Scientific Name	Common Name	S Rank	Sgs Rank
Acer pensylvanicum	Striped Maple	S5	4 Secure
Acer spicatum	Mountain Maple	S5	4 Secure
Aralia hispida	Bristly Sarsaparilla	S5	4 Secure
Aralia nudicaulis	Wild Sarsaparilla	S5	4 Secure
Eurybia macrophylla	Large-leaved Aster	S5	4 Secure
Oclemena acuminata	Whorled Wood Aster	S5	4 Secure
Prenanthes altissima	Tall Rattlesnakeroot	S5	4 Secure
Prenanthes trifoliolata	Three-leaved Rattlesnakeroot	S5	4 Secure
Senecio vulgaris	Common Ragwort	SNA	7 Exotic
Solidago canadensis	Canada Goldenrod	S5	4 Secure
Solidago flexicaulis	Zigzag Goldenrod	S5	4 Secure
Solidago rugosa	Rough-stemmed Goldenrod	S5	4 Secure

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Scientific Name	Common Name	S Rank	Sgs Rank
Sonchus arvensis	Field Sow Thistle	SNA	7 Exotic
Symphyotrichum lateriflorum	Calico Aster	S5	4 Secure
Betula alleghaniensis	Yellow Birch	S5	4 Secure
Lobelia inflata	Indian Tobacco	S5	4 Secure
Cornus alternifolia	Alternate-leaved Dogwood	S5	4 Secure
Cornus canadensis	Bunchberry	S5	4 Secure
Cornus sericea	Red Osier Dogwood	S5	4 Secure
Diervilla lonicera	Northern Bush Honeysuckle	S5	4 Secure
Viburnum lantanoides	Hobblebush	S5	4 Secure
Viburnum nudum	Northern Wild Raisin	S5	4 Secure
Viburnum opulus	Highbush Cranberry	S4	4 Secure
Gaultheria procumbens	Eastern Teaberry	S5	4 Secure
Fagus grandifolia	American Beech	S4	4 Secure
Prunella vulgaris	Common Self-heal	S5	4 Secure
Scutellaria lateriflora	Mad-dog Skullcap	S5	4 Secure
Fraxinus americana	White Ash	S4S5	4 Secure
Oxalis stricta	European Wood Sorrel	S5	4 Secure
Plantago major	Common Plantain	SNA	7 Exotic
Trientalis borealis	Northern Starflower	S5	4 Secure
Actaea pachypoda	White Baneberry	S4	4 Secure
Actaea rubra	Red Baneberry	S5	4 Secure
Ranunculus acris	Common Buttercup	SNA	7 Exotic
Ranunculus repens	Creeping Buttercup	SNA	7 Exotic
Agrimonia striata	Woodland Agrimony	S5	4 Secure
Fragaria virginiana	Wild Strawberry	S5	4 Secure
Malus spp.	Apple spp.	-	-
Potentilla norvegica	Rough Cinquefoil	S5	4 Secure
Potentilla simplex	Old Field Cinquefoil	S5	4 Secure
Rubus allegheniensis	Alleghaney Blackberry	S5	4 Secure
Rubus hispidus	Bristly Dewberry	S5	4 Secure
Rubus idaeus	Red Raspberry	S5	4 Secure
Mitchella repens	Partridgeberry	S5	4 Secure
Populus grandidentata	Large-toothed Aspen	S5	4 Secure
Populus tremuloides	Trembling Aspen	S5	4 Secure
Veronica officinalis	Common Speedwell	S5	7 Exotic
Thuja occidentalis	Eastern White Cedar	S5	4 Secure



Scientific Name	Common Name	S Rank	Sgs Rank
Abies balsamea	Balsam Fir	S5	4 Secure
Pinus banksiana	Jack Pine	S5	4 Secure
Pinus strobus	Eastern White Pine	S5	4 Secure
Tsuga canadensis	Eastern Hemlock	S5	4 Secure
Arisaema triphyllum	Jack-in-the-pulpit	S5	4 Secure
Clintonia borealis	Yellow Bluebead Lily	S5	4 Secure
Maianthemum canadense	Wild Lily-of-The-Valley	S5	4 Secure
Streptopus lanceolatus	Rose Twisted-stalk	S5	4 Secure
Dichanthelium acuminatum	Woolly Panic Grass	S5	4 Secure
Glyceria striata	Fowl Manna Grass	S5	4 Secure
Oryzopsis asperifolia	White-grained Mountain Rice	S5	4 Secure
Pteridium aquilinum	Bracken Fern	S5	4 Secure
Dryopteris intermedia	Evergreen Wood Fern	S5	4 Secure
Gymnocarpium dryopteris	Common Oak Fern	S5	4 Secure
Osmunda cinnamomea	Cinnamon Fern	S5	4 Secure
Osmunda claytoniana	Interrupted Fern	S5	4 Secure
Phegopteris connectilis	Northern Beech Fern	S5	4 Secure
Thelypteris noveboracensis	New York Fern	S5	4 Secure

Table 9: Vegetation Species Identified Along Access Trail I

Scientific Name	Common Name	S Rank	Sgs Rank
Acer pensylvanicum	Striped Maple	S5	4 Secure
Rhus typhina	Staghorn Sumac	S5	4 Secure
Aralia hispida	Bristly Sarsaparilla	S5	4 Secure
Aralia nudicaulis	Wild Sarsaparilla	S 5	4 Secure
Achillea millefolium	Common Yarrow	S5	4 Secure
Anaphalis margaritacea	Pearly Everlasting	S5	4 Secure
Conyza canadensis	Canada Horseweed	S5	4 Secure
Doellingeria umbellata	Hairy Flat-top White Aster	S5	4 Secure
Euthamia graminifolia	Grass-leaved Goldenrod	S5	4 Secure
Hieracium aurantiacum	Orange Hawkweed	SNA	7 Exotic
Hieracium pilosella	Mouse-ear Hawkweed	SNA	7 Exotic
Leontodon autumnalis	Fall Dandelion	SNA	7 Exotic
Prenanthes altissima	Tall Rattlesnakeroot	S5	4 Secure
Prenanthes trifoliolata	Three-leaved Rattlesnakeroot	S 5	4 Secure
Senecio jacobaea	Tansy Ragwort	SNA	7 Exotic
Senecio viscosus	Sticky Ragwort	SNA	7 Exotic

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Scientific Name	Common Name	S Rank	Sgs Rank
Senecio vulgaris	Common Ragwort	SNA	7 Exotic
Solidago bicolor	White Goldenrod	S5	4 Secure
Solidago puberula	Downy Goldenrod	S 5	4 Secure
Sonchus arvensis	Field Sow Thistle	SNA	7 Exotic
Sonchus oleraceus	Common Sow Thistle	SNA	7 Exotic
Symphyotrichum lateriflorum	Calico Aster	S5	4 Secure
Tanacetum vulgare	Common Tansy	SNA	7 Exotic
Hypericum canadense	Canada St John's-wort	S5	4 Secure
Cornus canadensis	Bunchberry	S5	4 Secure
Diervilla lonicera	Northern Bush Honeysuckle	S5	4 Secure
Gaultheria procumbens	Eastern Teaberry	S5	4 Secure
Kalmia angustifolia	Sheep Laurel	S5	4 Secure
Vaccinium angustifolium	Late Lowbush Blueberry	S5	4 Secure
Vaccinium myrtilloides	Velvet-leaved Blueberry	S5	4 Secure
Trifolium arvense	Rabbit's-foot Clover	SNA	7 Exotic
Trifolium aureum	Yellow Clover	SNA	7 Exotic
Trifolium pratense	Red Clover	SNA	7 Exotic
Comptonia peregrina	Sweet-fern	S5	4 Secure
Chamerion angustifolium	Fireweed	S5	4 Secure
Epilobium ciliatum	Northern Willowherb	S5	4 Secure
Oxalis stricta	European Wood Sorrel	S5	4 Secure
Polygonum cilinode	Fringed Black Bindweed	S5	4 Secure
Rumex acetosella	Sheep Sorrel	SNA	7 Exotic
Rumex crispus	Curled Dock	SNA	7 Exotic
Agrimonia striata	Woodland Agrimony	S5	4 Secure
Fragaria virginiana	Wild Strawberry	S5	4 Secure
Potentilla norvegica	Rough Cinquefoil	S5	4 Secure
Potentilla simplex	Old Field Cinquefoil	S5	4 Secure
Rubus allegheniensis	Alleghaney Blackberry	S5	4 Secure
Rubus idaeus	Red Raspberry	S 5	4 Secure
Populus grandidentata	Large-toothed Aspen	S5	4 Secure
Populus tremuloides	Trembling Aspen	S5	4 Secure
Salix spp.	-	-	-
Veronica officinalis	Common Speedwell	S5	7 Exotic
Scirpus atrocinctus	Black-girdled Bulrush	S5	4 Secure
Scirpus cyperinus	Common Woolly Bulrush	S5	4 Secure



Scientific Name	Common Name	S Rank	Sgs Rank
Sisyrinchium montanum	Mountain Blue-eyed-grass	S5	4 Secure
Juncus bufonius	Toad Rush	S5	4 Secure
Maianthemum canadense	Wild Lily-of-The-Valley	S5	4 Secure
Streptopus amplexifolius	Clasping-leaved Twisted-stalk	S5	4 Secure
Streptopus lanceolatus	Rose Twisted-stalk	S5	4 Secure
Dichanthelium acuminatum	Woolly Panic Grass	S5	4 Secure
Oryzopsis asperifolia	White-grained Mountain Rice	S5	4 Secure
Pteridium aquilinum	Bracken Fern	S5	4 Secure
Dryopteris intermedia	Evergreen Wood Fern	S5	4 Secure
Onoclea sensibilis	Sensitive Fern	S5	4 Secure
Erodium cicutarium	Common Stork's-bill	SNA	7 Exotic
Geranium pusillum	Small-flowered Crane's-bill	-	7 Exotic

4.0 Summary and Conclusion

This addendum report summarizing baseline vegetation and rare plant surveys has been prepared for the proposed access trail upgrades in support of the Wocawson Energy Project.

The information provided in this document is based on the current available design/planning information and existing environment information obtained during focused field surveys conducted in August, 2018.



5.0 Closure

This report was prepared by Dillon Consulting Limited (Dillon) on behalf of the Wocawson Energy Limited Partnership, in support of the Wocawson Energy Project EIA. Dillon has used the degree of care and skill ordinarily exercised under similar circumstances at the time the work was performed by reputable members of the environmental consulting profession practicing in Canada. Dillon assumes no responsibility for conditions which were beyond its scope of work. There is no warranty expressed or implied by Dillon.

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Yours truly,

DILLON CONSULTING LIMITED

JKS

Kristin Banks, P.Eng. Project Manager



Appendix A

Additional Site Photographs





Photo 1: Typical vegetation species assemblage for mixedwood dominated forest type (Trail A)



Photo 2: Typical vegetation species assemblage for softwood dominated forest type (Trail G)





Photo 3: Typical vegetation species assemblage for recent clearcut (Trail I)



Photo 4: Typical vegetation species assemblage for recent clearcut (Trail C)



References

Literature Cited

Dillon (Dillon Consulting Limited). 2018a. Vegetation Summary Report. Prepared for the Wocawson Project Limited Partnership by Dillon Consulting Limited, Fredericton, NB.

Dillon (Dillon Consulting Limited). 2018b. Wildlife and Wildlife Habitat Summary Report. Prepared for the Wocawson Project Limited Partnership by Dillon Consulting Limited, Fredericton, NB.

