

Wetlands Crossing List

Wetlands* Within the Right-of-way Study Area – Highway 113

Based on previous work, NSDNR Wetlands and June 2008 to July 2009 Field Surveys

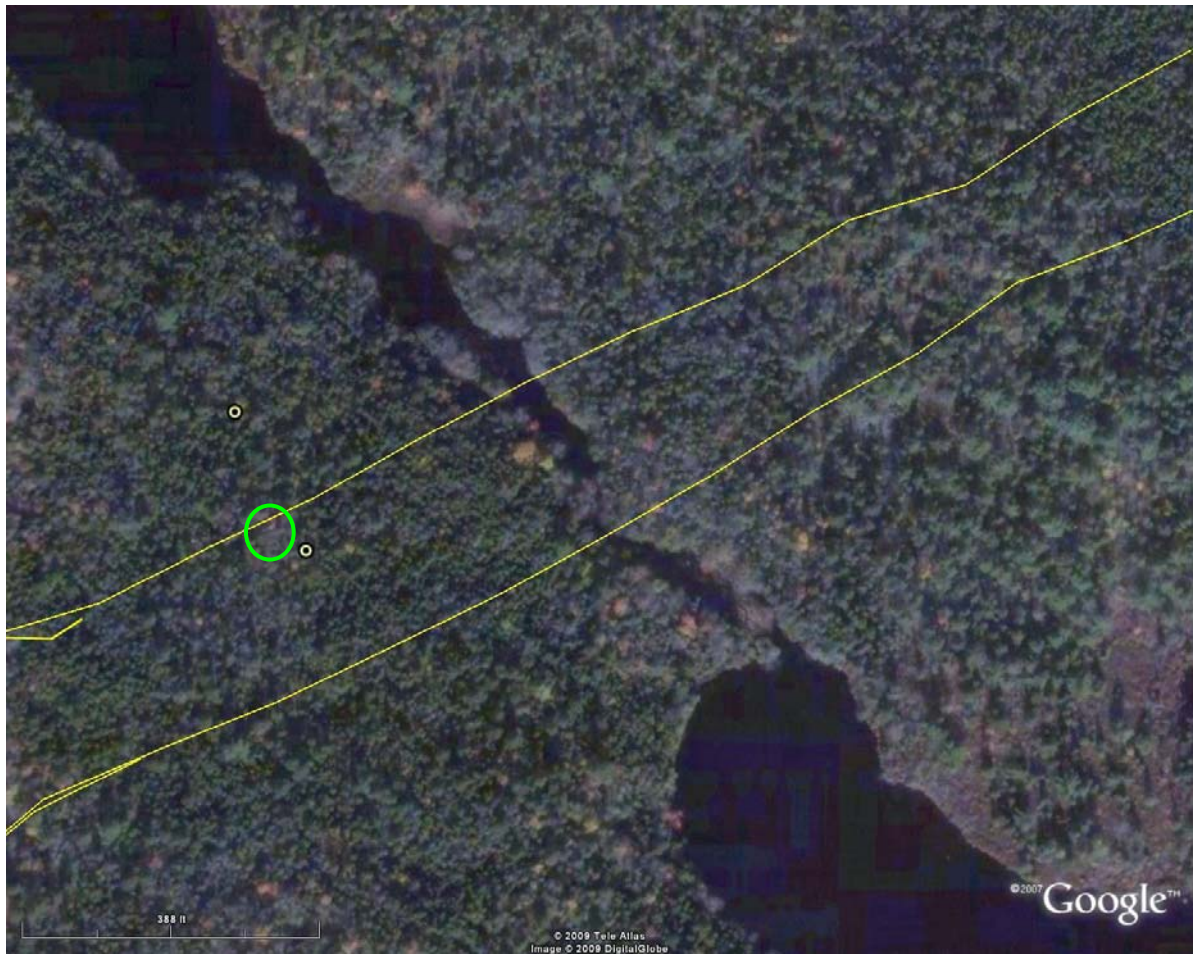
AMEC WT No.	Temp. Dillon No.	Est. Footprint Size (ha)*	Total Wetland Area (from DNR) (ha)	Total Wetland Area (from Topo) (ha)	Type	Potential Impact	Alternative and Mitigation other than Standard*
-	T2	0.189	na	0.233	Treed bog	Infill of portion or all of wetland	
3		0.45	2.79	3.7	Open water, shrub swamp, bog	Loss of portion of wetland	
4		0.39	11.65	12.52	Open water, shallow marsh, shrub swamp, bog	Infill of portion of wetland	
-	T13	0.094	na	0.125	Treed and shrub bog	Loss of portion of wetland	
6		0.3	0.72	0.28	Bog	Infill of portion of wetland	
4ext	T6	0.34	na	2.57	Shrub bog	Infill of portion of wetland	
-	T30	0.98	na	na	Black spruce bog	Loss of portion of wetland	
-	T25	0.808	na	0.368	Streamside shrub swamp	Infill of portion of wetland	
10B		0.63	3.06	2.02	Open water, shrub swamp, bog	Loss of portion of wetland	
11		0.03	0.69	na	Bog	Infill of portion of bog	
-	T12	0.596	na	1.530	Treed bog	Loss of portion of wetland	
-	T5	0.085	na	0.085	Small pond, Shrub swamp	Completely within project footprint	
-	T22	0.087	na	0.129	Shrub swamp	Completely within project footprint	
-	T37	0.025	na	0.025	Shrub swamp	Completely within project footprint	
-	T11	0.194	na	0.310	Swamp - Red maple/cinnamon fern swale	Completely within project footprint	
-	T14	0.138	na	na	Streamside Swamp	Completely within project footprint	
-	T0	0.006	na	na	Swamp - Sphagnum swale	Loss of portion of wetland	
-	T17	0.148	na	0.156	Swamp - Cinnamon fern swale	Completely within project footprint	
-	T18	between lanes	na	0.031	Swamp - Streamside swale	Completely within or not within project footprint	
-	T20	between lanes	na	0.074	Shrub bog (may be part of WL16)	Completely within project footprint (depending on construction type – infill or suspended)	
16	T21	3.06	4.68+2.9	4.31+1.44	Open water, meadow, shrub swamp, bog	Depends on construction type – infill or suspended	

Note: Footprint is estimated as TIRs mapping -alignment.dwg Aug. 2008. Daylight Layer

- Standard Mitigation for Wetlands is Identified in Section 9.10

T2

Result



Google Earth - Showing Project Footprint (yellow) and Approximate Wetland (green)

Location	Centerpoint UTM 20T 0438326 4948161
Wetland Type	Treed Bog
Key Boundary	na
Property Owner	NSTIR
Surrounding Land Use	Forested
Historic Impacts	Not observed
Project Description	Infilling of portion or all of wetland
Species at Risk	None observed (Canada Warbler in adjacent habitat; loon not nesting in area)
Fish and Fisheries	No standing water

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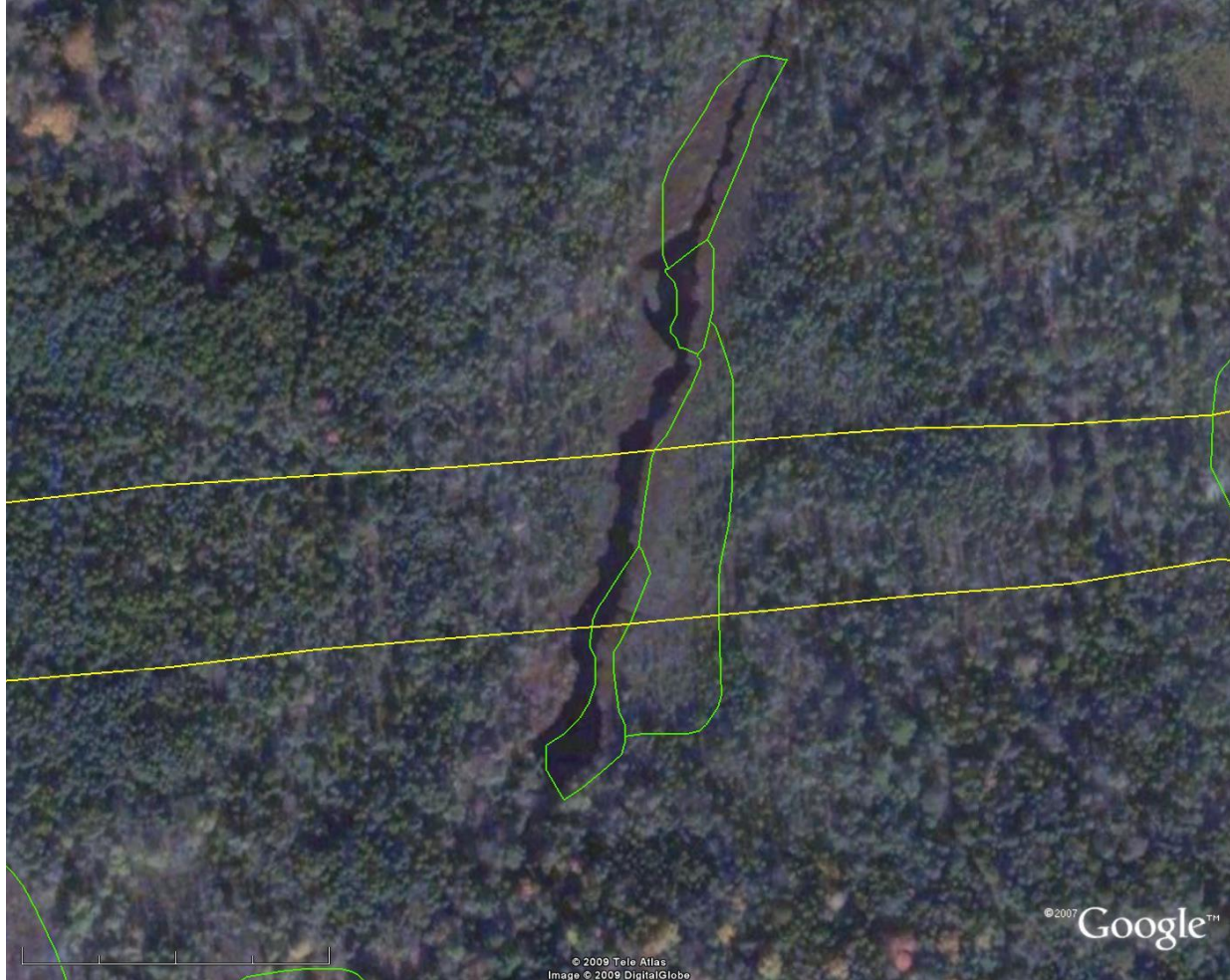


Google Earth - Showing Project Footprint (yellow) and Approximate Wetland (green)

Location	Along Fisher Brook; Centerpoint UTM 20T 439718, 4948610
Wetland Type	Open water, shrub swamp, bog
Key Boundary	na
Property Owner	TIR
Surrounding Land Use	Forested and wetland
Historic Impacts	Historic forest fire
Project Description	Watercourse crossing and partial wetland infill
Species at Risk	Potential brook trout (DNR yellow) and American eel (COSEWIC Special Concern)
Fish and Fisheries	Fish habitat present
Dominant/Characteristic	Leatherleaf , Three-seed Sedge, Blue-joint (sphagnum underlying)

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Yellow-bellied Flycatcher	Mid-June – early Aug.																																																																										
Other Wildlife	Fair herpetile habitat, portion of habitat for other wildlife; deer tracks observed in 1999 assessment.																																																																										
Hydrologic Character	Seasonally flooded to saturated at edges; Fisher Brook runs through.. Complex upstream and downstream.																																																																										
Hydrogeologic Character	May receive local groundwater input																																																																										
Plant List	<table border="0"> <tr><td><i>Acer rubrum</i></td><td>Red Maple</td><td>S5</td><td>Green</td><td>FAC</td></tr> <tr><td><i>Calamagrostis canadensis</i></td><td>Blue-Joint Reedgrass</td><td>S5</td><td>Green</td><td>FACW+</td></tr> <tr><td><i>Carex stricta</i></td><td>Sedge</td><td>S5</td><td>Green</td><td>OBL</td></tr> <tr><td><i>Carex trisperma</i></td><td>Three-Seed Sedge</td><td>S5</td><td>Green</td><td>OBL</td></tr> <tr><td><i>Chamaedaphne calyculata</i></td><td>Leatherleaf</td><td>S5</td><td>Green</td><td>OBL</td></tr> <tr><td><i>Kalmia angustifolia</i></td><td>Sheep-Laurel</td><td>S5</td><td>Green</td><td>FAC</td></tr> <tr><td><i>Myrica gale</i></td><td>Sweet Bayberry</td><td>S5</td><td>Green</td><td>OBL</td></tr> <tr><td><i>Rhododendron canadense</i></td><td>Rhodora</td><td>S5</td><td>Green</td><td>FACW</td></tr> <tr><td><i>Rubus idaeus</i></td><td>Red Raspberry</td><td>S5</td><td>Green</td><td>FAC-</td></tr> <tr><td><i>Scirpus cyperinus</i></td><td>Cottongrass Bulrush</td><td>S5</td><td>Green</td><td>OBL</td></tr> </table>	<i>Acer rubrum</i>	Red Maple	S5	Green	FAC	<i>Calamagrostis canadensis</i>	Blue-Joint Reedgrass	S5	Green	FACW+	<i>Carex stricta</i>	Sedge	S5	Green	OBL	<i>Carex trisperma</i>	Three-Seed Sedge	S5	Green	OBL	<i>Chamaedaphne calyculata</i>	Leatherleaf	S5	Green	OBL	<i>Kalmia angustifolia</i>	Sheep-Laurel	S5	Green	FAC	<i>Myrica gale</i>	Sweet Bayberry	S5	Green	OBL	<i>Rhododendron canadense</i>	Rhodora	S5	Green	FACW	<i>Rubus idaeus</i>	Red Raspberry	S5	Green	FAC-	<i>Scirpus cyperinus</i>	Cottongrass Bulrush	S5	Green	OBL																								
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WL-4 (WC3C)	Result
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Google Earth - Showing Project Footprint (yellow) and Approximate Wetland (green)

Location	Along Fisher Brook Centerpoint UTM 20T 0440189 4948823
Wetland Type	Open water, shrub swamp, bog
Key Boundary	Na
Property Owner	TIR
Surrounding Land Use	Forested with streamside wetlands to north and south
Historic Impacts	Not observed at crossing; storm drainage from Kingswood observed entering north end of wetland in 1999. Powerlines traverse northern portion not in ROW area.

WL-4 (WC3C)	Result				
Project Description	Watercourse crossing and wetland infill				
Species at Risk	Potential brook trout (DNR yellow) and American eel (COSEWIC Special Concern)				
Fish and Fisheries	Fish habitat present				
Dominant/Characteristic Vegetation	Balsam Fir and Black Spruce along treed edge, Tussock Sedge, Three-seed Sedge, Dwarf Huckleberry, Sheep-laurel and Northern Pitcher Plant (underlain with Sphagnum)				
Birds and Nesting Periods (from nearest survey site; may include edge and adjacent forest species)	American Crow	Apr. – July			
	American Goldfinch	Late June – mid-Sept.			
	American Robin	Late Apr. – mid-Sept.			
	Dark-eyed Junco	Early May – late Aug.			
	Hairy Woodpecker	Early May – early July			
	Hermit Thrush	Mid-May – late Aug.			
	Mourning Dove	Early Apr. – mid-Sept.			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Yellow-rumped Warbler	Mid-May – early June			
	American Goldfinch	Late June – mid-Sept.			
	Black-throated Green Warbler	Early June – mid-July			
	Dark-eyed Junco	Early May – late Aug.			
	Golden-crowned Kinglet	Early May – mid-July			
	Magnolia Warbler	Early June – late July.			
	Mourning Dove	Early Apr. – mid-Sept.			
	Northern Flicker	Early May – early Aug.			
	Purple Finch	Early June – mid-Aug.			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Winter Wren	Mid-May – late July			
	Yellow-rumped Warbler	Mid-May – early June			
	Yellow Warbler	Late May – July			
	Alder Flycatcher	Mid-June – mid-Aug.			
	American Crow	Apr. – July			
	American Goldfinch	Late June – mid-Sept.			
	American Robin	Late Apr. – mid-Sept.			
	Black-capped Chickadee	Early May – mid-Aug.			
	Black-throated Green Warbler	Early June – mid-July			
	Solitary Vireo (Blue-headed)	Late May – late July			
	Cedar Waxwing	Mid-June – early Sept.			
	Dark-eyed Junco	Early May – late Aug.			
	Hermit Thrush	Mid-May – late Aug.			
	Mourning Dove	Early Apr. – mid-Sept.			
	Song Sparrow	May – Aug.			
	Swainson's Thrush	Late May – late July			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Winter Wren	Mid-May – late July			
	Yellow-bellied Flycatcher	Mid-June – early Aug.			
Other Wildlife	Fair to good herpetile habitat, portion of habitat for other wildlife; deer tracks and blue-winged teal observed in 1999. Northern area identified as providing habitat diversity and locally significant.				
Hydrologic Character	Seasonally flooded near stream to saturated. Fishers Brook flows through. Complex upstream and downstream.				
Hydrogeologic Character	May receive local groundwater input.				
Plant List	<i>Abies balsamea</i>	Balsam Fir	S5	Green	FAC
	<i>Acer rubrum</i>	Red Maple	S5	Green	FAC
	<i>Carex stricta</i>	Tussock Sedge	S5	Green	OBL
	<i>Carex trisperma</i>	Three-Seed Sedge	S5	Green	OBL
	<i>Coptis trifolia</i>	Goldthread	S5	Green	FACW
	<i>Cornus canadensis</i>	Dwarf Dogwood	S5	Green	FAC-
	<i>Drosera rotundifolia</i>	Roundleaf Sundew	S5	Green	OBL
	<i>Gaultheria hispidula</i>	Creeping Snowberry	S5	Green	FACW
	<i>Gaylussacia dumosa</i>	Dwarf Huckleberry	S5	Green	FAC
	<i>Kalmia angustifolia</i>	Sheep-Laurel	S5	Green	FAC
	<i>Ledum groenlandicum</i>	Common Labrador Tea	S5	Green	OBL
	<i>Nemopanthus mucronata</i>	False Mountain Holly	S5	Green	OBL
	<i>Osmunda cinnamomea</i>	Cinnamon Fern	S5	Green	FACW
	<i>Picea mariana</i>	Black Spruce	S5	Green	FACW-
	<i>Rhododendron canadense</i>	Rhodora	S5	Green	FACW
	<i>Sarracenia purpurea</i>	Northern Pitcher-Plant	S5	Green	OBL

T13

Result



Google Earth - Showing Project Footprint (yellow) and Approximate Wetland (green)

Location	East of Fisher Brook; Centerpoint UTM 0440166, 4948675
Wetland Type	Treed and shrub bog
Key Boundary	na
Property Owner	TIR
Surrounding Land Use	Forested and wetland

T13	Result				
Historic Impacts	None observed				
Project Description	Partial wetland infill				
Species at Risk	None observed				
Fish and Fisheries	No standing water				
Dominant/Characteristic Vegetation	Red Maple, Black Spruce, Cinnamon Fern				
Birds and Nesting Periods (from nearest survey site; may include edge and adjacent forest species)	American Crow	Apr. – July			
	American Goldfinch	Late June – mid-Sept.			
	American Robin	Late Apr. – mid-Sept.			
	Dark-eyed Junco	Early May – late Aug.			
	Hairy Woodpecker	Early May – early July			
	Hermit Thrush	Mid-May – late Aug.			
	Mourning Dove	Early Apr. – mid-Sept.			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Yellow-rumped Warbler	Mid-May – early June			
	American Goldfinch	Late June – mid-Sept.			
	Black-throated Green Warbler	Early June – mid-July			
	Dark-eyed Junco	Early May – late Aug.			
	Golden-crowned Kinglet	Early May – mid-July			
	Magnolia Warbler	Early June – late July.			
	Mourning Dove	Early Apr. – mid-Sept.			
	Northern Flicker	Early May – early Aug.			
	Purple Finch	Early June – mid-Aug.			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Winter Wren	Mid-May – late July			
	Yellow-rumped Warbler	Mid-May – early June			
	Yellow Warbler	Late May – July			
	Alder Flycatcher	Mid-June – mid-Aug.			
	American Crow	Apr. – July			
	American Goldfinch	Late June – mid-Sept.			
	American Robin	Late Apr. – mid-Sept.			
	Black-capped Chickadee	Early May – mid-Aug.			
	Black-throated Green Warbler	Early June – mid-July			
	Solitary Vireo (Blue-headed)	Late May – late July			
	Cedar Waxwing	Mid-June – early Sept.			
	Dark-eyed Junco	Early May – late Aug.			
	Hermit Thrush	Mid-May – late Aug.			
	Mourning Dove	Early Apr. – mid-Sept.			
	Song Sparrow	May – Aug.			
	Swainson's Thrush	Late May – late July			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Winter Wren	Mid-May – late July			
	Yellow-bellied Flycatcher	Mid-June – early Aug.			
Other Wildlife	None observed				
Hydrologic Character	Seasonally saturated; isolated.				
Hydrogeologic Character	Underlain by granite, localized depression within surface water drainage.				
Plant List	<i>Acer rubrum</i>	Red Maple	S5	Green	FAC
	<i>Carex sp.</i>	A Sedge	S5	Green	OBL
	<i>Carex trisperma</i>	Three-Seed Sedge	S5	Green	OBL
	<i>Coptis trifolia</i>	Goldthread	S5	Green	FACW
	<i>Cornus canadensis</i>	Dwarf Dogwood	S5	Green	FAC-
	<i>Gaylussacia baccata</i>	Black Huckleberry	S5	Green	FACU
	<i>Ilex verticillata</i>	Canadaberry	S5	Green	FACW
	<i>Kalmia angustifolia</i>	Sheep-Laurel	S5	Green	FAC
	<i>Larix laricina</i>	American Larch	S5	Green	FACW
	<i>Ledum groenlandica</i>	Ledum groenlandica	S5	Green	OBL
	<i>Nemopanthus mucronata</i>	False Mountain Holly	S5	Green	OBL
	<i>Osmunda cinnamomea</i>	Cinnamon Fern	S5	Green	FACW
	<i>Picea mariana</i>	Black Spruce	S5	Green	FACW-
	<i>Rhododendron canadense</i>	Rhodora	S5	Green	FACW
	<i>Sarracenia purpurea</i>	Northern Pitcher-Plant	S5	Green	OBL
		Three-leaved False			
	<i>Smilacina trifolia</i>	Solomon's Seal	S5	Green	FAC
	<i>Trientalis borealis</i>	Northern Starflower	S5	Green	FAC
	<i>Viburnum nudum</i>	Possum-Haw Viburnum	OBL	Green	FACW

WL-6

Result



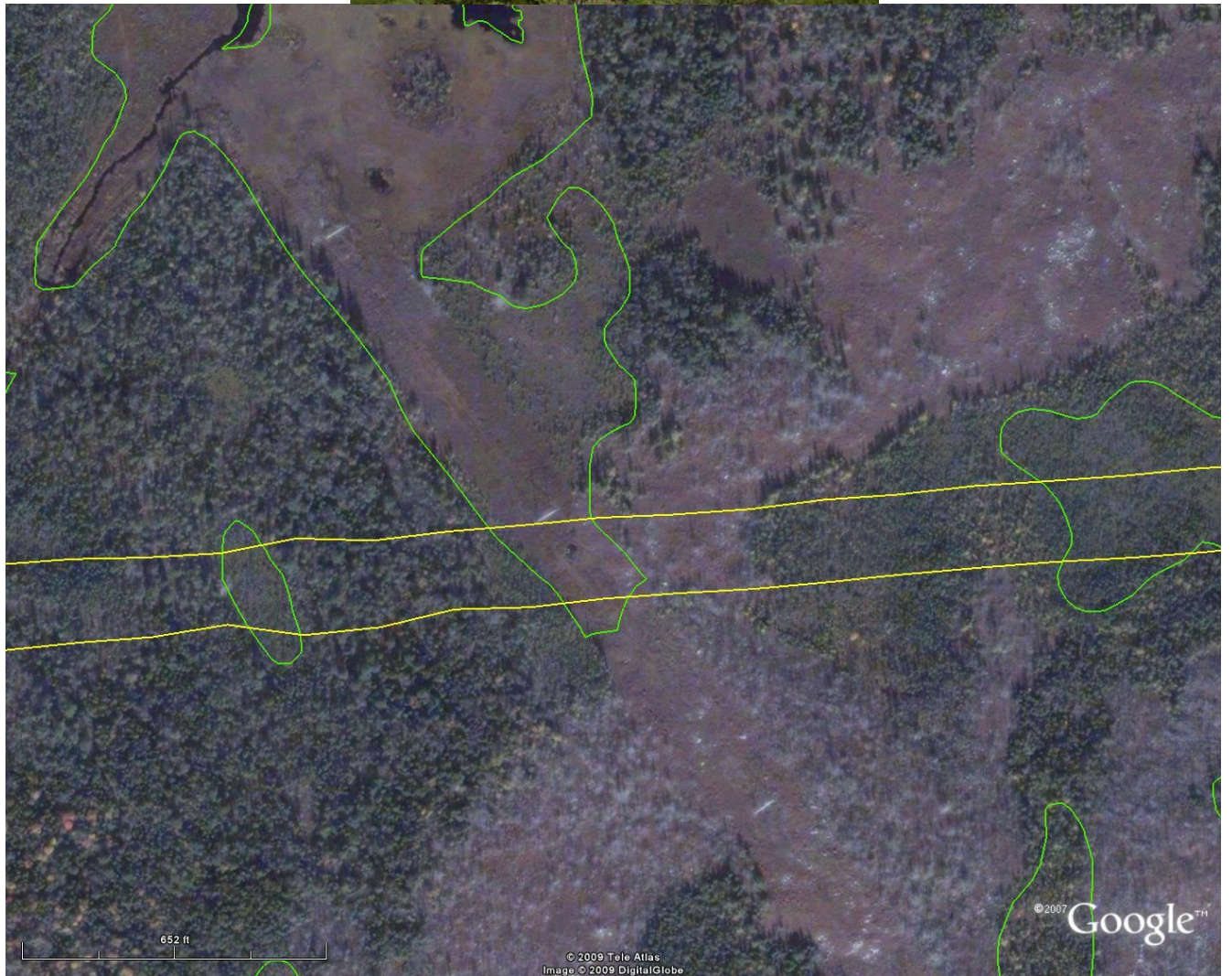
Google Earth - Showing Project Footprint (yellow) and Approximate Wetland (green)

WL-6	Result				
Location	Southeast of Fisher Brook; Centerpoint UTM 20T 0440272, 4948653				
Wetland Type	Treed and shrub bog				
Key Boundary	na				
Property Owner	TIR				
Surrounding Land Use	Forested and wetland				
Historic Impacts	None observed				
Project Description	Partial wetland infill				
Species at Risk	None observed				
Fish and Fisheries	No standing water				
Dominant/Characteristic Vegetation	Sheep-laurel, American Larch, False Mountain Holly, Black Spruce, Three-seed Sedge, Northern Pitcher Plant, Three-leaved False Solomon's Seal				
Birds and Nesting Periods (from nearest survey site; may include edge and adjacent forest species)	American Crow	Apr. – July			
	American Goldfinch	Late June – mid-Sept.			
	American Robin	Late Apr. – mid-Sept.			
	Dark-eyed Junco	Early May – late Aug.			
	Hairy Woodpecker	Early May – early July			
	Hermit Thrush	Mid-May – late Aug.			
	Mourning Dove	Early Apr. – mid-Sept.			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Yellow-rumped Warbler	Mid-May – early June			
	American Goldfinch	Late June – mid-Sept.			
	Black-throated Green Warbler	Early June – mid-July			
	Dark-eyed Junco	Early May – late Aug.			
	Golden-crowned Kinglet	Early May – mid-July			
	Magnolia Warbler	Early June – late July.			
	Mourning Dove	Early Apr. – mid-Sept.			
	Northern Flicker	Early May – early Aug.			
	Purple Finch	Early June – mid-Aug.			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Winter Wren	Mid-May – late July			
	Yellow-rumped Warbler	Mid-May – early June			
	Yellow Warbler	Late May – July			
	Alder Flycatcher	Mid-June – mid-Aug.			
	American Crow	Apr. – July			
	American Goldfinch	Late June – mid-Sept.			
	American Robin	Late Apr. – mid-Sept.			
	Black-capped Chickadee	Early May – mid-Aug.			
	Black-throated Green Warbler	Early June – mid-July			
	Solitary Vireo (Blue-headed)	Late May – late July			
	Cedar Waxwing	Mid-June – early Sept.			
	Dark-eyed Junco	Early May – late Aug.			
	Hermit Thrush	Mid-May – late Aug.			
	Mourning Dove	Early Apr. – mid-Sept.			
	Song Sparrow	May – Aug.			
	Swainson's Thrush	Late May – late July			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Winter Wren	Mid-May – late July			
	Yellow-bellied Flycatcher	Mid-June – early Aug.			
Other Wildlife	Small mammal trails observed in 1999				
Hydrologic Character	Seasonally saturated; isolated.				
Hydrogeologic Character	Underlain by granite, localized depression within surface water drainage.				
Plant List	<i>Acer rubrum</i>	Red Maple	S5	Green	FAC
	<i>Calopogon tuberosus</i>	Tuberous Grass-Pink	S4	Green	FACW+
	<i>Carex echinata</i>	Little Prickly Sedge	S5	Green	OBL
	<i>Carex magellanica</i>	A Sedge	S5	Green	OBL
	<i>Carex pauciflora</i>	Few-Flowered Sedge	S4S5	Green	OBL
	<i>Carex trisperma</i>	Three-Seed Sedge	S5	Green	OBL
	<i>Chamaedaphne calyculata</i>	Leatherleaf	S5	Green	OBL
	<i>Coptis trifolia</i>	Goldthread	S5	Green	FACW
	<i>Cornus canadensis</i>	Dwarf Dogwood	S5	Green	FAC-
	<i>Drosera rotundifolia</i>	Roundleaf Sundew	S5	Green	OBL
	<i>Empetrum nigrum</i>	Black Crowberry	S5	Green	FACW
	<i>Eriophorum vaginatum</i>	Tussock Cotton-Grass	S5	Green	OBL
	<i>Gaultheria hispidula</i>	Creeping Snowberry	S5	Green	FACW
	<i>Kalmia angustifolia</i>	Sheep-Laurel	S5	Green	FAC
	<i>Kalmia polifolia</i>	Pale Laurel	S5	Green	OBL
	<i>Larix laricina</i>	American Larch	S5	Green	FACW

WL-6	Result				
	<i>Ledum groenlandica</i>	Ledum groenlandica	S5	Green	OBL
	<i>Nemopanthus mucronata</i>	False Mountain Holly	S5	Green	OBL
	<i>Osmunda cinnamomea</i>	Cinnamon Fern	S5	Green	FACW
	<i>Picea mariana</i>	Black Spruce	S5	Green	FACW-
	<i>Rhododendron canadense</i>	Rhodora	S5	Green	FACW
	<i>Sarracenia purpurea</i>	Northern Pitcher-Plant	S5	Green	OBL
		Three-leaved False			
	<i>Smilacina trifolia</i>	Solomon's Seal	S5	Green	OBL
	<i>Vaccinium angustifolium</i>	Late Lowbush Blueberry	S5	Green	FACU-
	<i>Vaccinium oxycoccos</i>	Small Cranberry	S5	Green	OBL
	<i>Viburnum nudum</i>	Possum-Haw Viburnum	S5	Green	OBL

WL4ext (T6)

Result

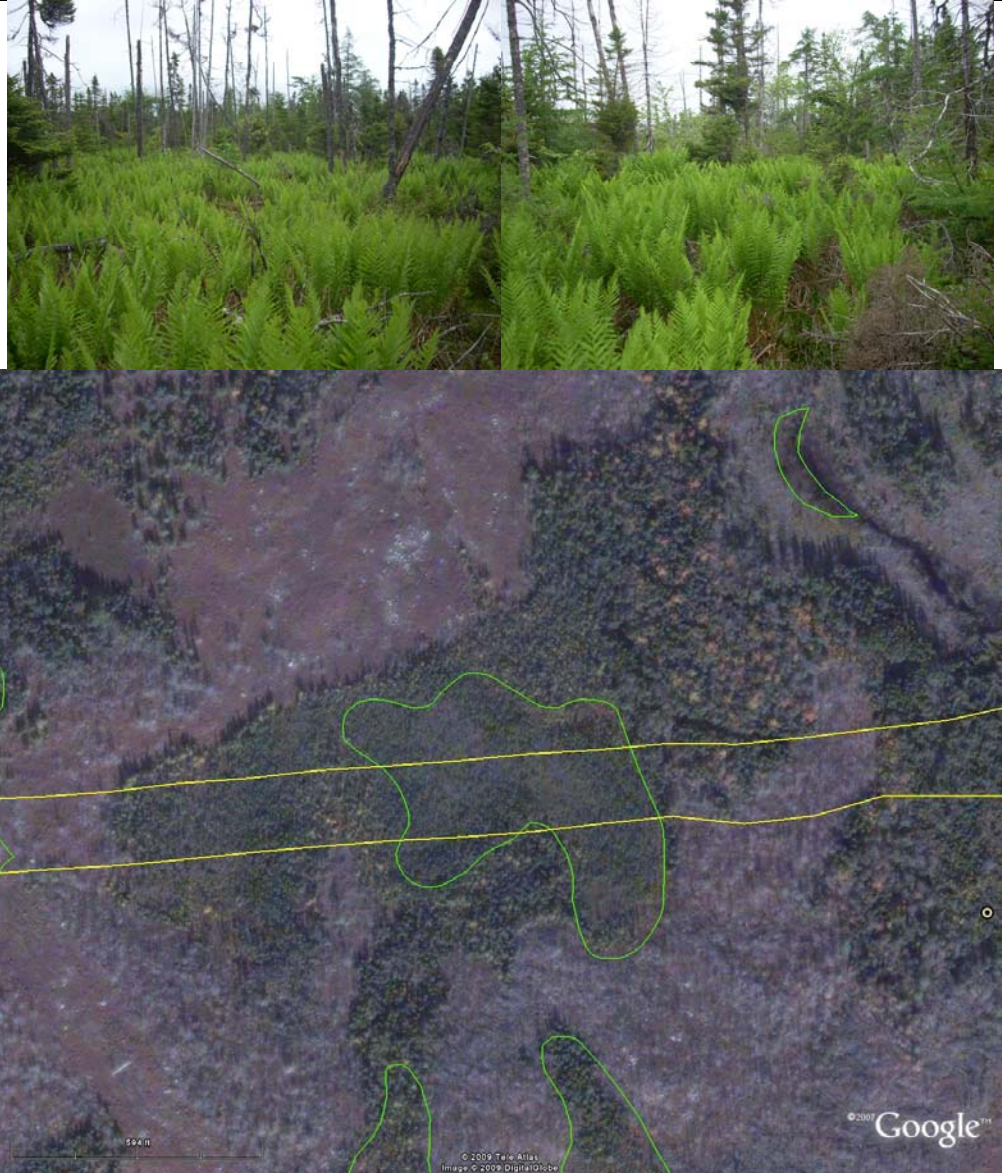


Google Earth - Showing Project Footprint (yellow) and Approximate Wetland (green)

Location	Centerpoint 20T 0440514 4948598
Wetland Type	Shrub bog
Key Boundary	na
Property Owner	TIR
Surrounding Land Use	Forested with wetlands in vicinity

WL4ext (T6)	Result				
Historic Impacts	Wet depression under powerline				
Project Description	Infill of portion				
Species at Risk	Not observed				
Fish and Fisheries	Not expected.				
Dominant/Characteristic Vegetation	Sheep-laurel, False Mountain Holly, Tawny Cotton-grass, Cottongrass Bulrush				
Birds and Nesting Periods (from nearest survey site; may include edge and adjacent forest species)	American Crow	Apr. – July			
	American Goldfinch	Late June – mid-Sept.			
	American Robin	Late Apr. – mid-Sept.			
	Dark-eyed Junco	Early May – late Aug.			
	Hairy Woodpecker	Early May – early July			
	Hermit Thrush	Mid-May – late Aug.			
	Mourning Dove	Early Apr. – mid-Sept.			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Yellow-rumped Warbler	Mid-May – early June			
	American Goldfinch	Late June – mid-Sept.			
	Black-throated Green Warbler	Early June – mid-July			
	Dark-eyed Junco	Early May – late Aug.			
	Golden-crowned Kinglet	Early May – mid-July			
	Magnolia Warbler	Early June – late July.			
	Mourning Dove	Early Apr. – mid-Sept.			
	Northern Flicker	Early May – early Aug.			
	Purple Finch	Early June – mid-Aug.			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Winter Wren	Mid-May – late July			
	Yellow-rumped Warbler	Mid-May – early June			
	Yellow Warbler	Late May – July			
	Alder Flycatcher	Mid-June – mid-Aug.			
	American Crow	Apr. – July			
	American Goldfinch	Late June – mid-Sept.			
	American Robin	Late Apr. – mid-Sept.			
	Black-capped Chickadee	Early May – mid-Aug.			
	Black-throated Green Warbler	Early June – mid-July			
	Solitary Vireo (Blue-headed)	Late May – late July			
	Cedar Waxwing	Mid-June – early Sept.			
	Dark-eyed Junco	Early May – late Aug.			
	Hermit Thrush	Mid-May – late Aug.			
	Mourning Dove	Early Apr. – mid-Sept.			
	Song Sparrow	May – Aug.			
	Swainson's Thrush	Late May – late July			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Winter Wren	Mid-May – late July			
	Yellow-bellied Flycatcher	Mid-June – early Aug.			
Other Wildlife	Poor herpetile habitat, portion of habitat for other wildlife				
Hydrologic Character	Small depression receiving surface precipitation/runoff. Connected to main WL4 by surface drainage.				
Hydrogeologic Character	Underlain by granite, localized depression within surface water drainage.				
Plant List	<i>Abies balsamea</i>	Balsam Fir	FAC	Green	FAC
	<i>Acer rubrum</i>	Red Maple	FAC	Green	FAC
	<i>Betula papyrifera</i>	Paper Birch	FAC	Green	FAC
	<i>Drosera rotundifolia</i>	Roundleaf Sundew	OBL	Green	OBL
	<i>Eriophorum virginicum</i>	Tawny Cotton-Grass	OBL	Green	OBL
	<i>Gaultheria procumbens</i>	Teaberry	FACW	Green	FACU
	<i>Kalmia angustifolia</i>	Sheep-Laurel	FACU	Green	FAC
	<i>Larix laricina</i>	American Larch	FACW-	Green	FACW
	<i>Ledum groenlandicum</i>	Common Labrador Tea	OBL	Green	OBL
	<i>Myrica pensylvanica</i>	Northern Bayberry	FAC	Green	FAC
	<i>Nemopanthus mucronata</i>	False Mountain Holly	OBL	Green	OBL
	<i>Picea mariana</i>	Black Spruce	FACW-	Green	FACW
	<i>Pteridium aquilinum</i>	Bracken Fern	FACU	Green	FACU
	<i>Rhododendron canadense</i>	Rhodora	FACW	Green	FACW
	<i>Rhynchospora alba</i>	Rhynchospora alba	OBL	Green	OBL
	<i>Rubus pubescens</i>	Dwarf Red Raspberry	FACW+	Green	FACW
	<i>Sarracenia purpurea</i>	Northern Pitcher-Plant	OBL	Green	OBL
	<i>Scirpus cyperinus</i>	Cottongrass Bulrush	FACW+	Green	FACW+
	<i>Solidago uliginosa</i>	Bog Goldenrod	OBL	Green	OBL
	<i>Trientalis borealis</i>	Northern Starflower	FAC	Green	FAC
	<i>Vaccinium angustifolium</i>	Late Lowbush Blueberry	FACU	Green	FACU-

WL4ext (T6)	Result				
	<i>Vaccinium macrocarpon</i>	Large Cranberry	OBL	Green	OBL
	<i>Vaccinium oxycoccos</i>	Small Cranberry	OBL	Green	OBL
	<i>Viburnum nudum</i>	Possum-Haw Viburnum	OBL	Green	FACW

T30,31	Result															
	 <p data-bbox="565 1423 1562 1444">Google Earth - Showing Project Footprint (yellow) and Approximate Wetland (green)</p>															
Location	Centerpoint UTM 20T 0440914 4948612															
Wetland Type	Black Spruce Bog at Burn Edge															
Key Boundary	Na															
Property Owner	TIR															
Surrounding Land Use	Forested															
Historic Impacts	At edge of historic forest fire															
Project Description	Infill of portion of wetland															
Species at Risk	Not observed															
Fish and Fisheries	Not expected.															
Dominant/Characteristic Vegetation	Black Spruce, Leatherleaf, Sheep-laurel, False Mountain Holly, Cinnamon Fern, Three-seed Sedge															
Birds and Nesting Periods (from nearest survey site; may include edge and adjacent forest species)	<table border="0" data-bbox="573 1730 1562 1900"> <tr> <td data-bbox="573 1730 889 1757">American Crow</td> <td data-bbox="889 1730 1562 1757">Apr. – July</td> </tr> <tr> <td data-bbox="573 1757 889 1785">American Redstart</td> <td data-bbox="889 1757 1562 1785">Late May – late July</td> </tr> <tr> <td data-bbox="573 1785 889 1812">American Robin</td> <td data-bbox="889 1785 1562 1812">Late Apr. – mid-Sept.</td> </tr> <tr> <td data-bbox="573 1812 889 1839">Black-capped Chickadee</td> <td data-bbox="889 1812 1562 1839">Early May – mid-Aug.</td> </tr> <tr> <td data-bbox="573 1839 889 1866">Black-throated Green Warbler</td> <td data-bbox="889 1839 1562 1866">Early June – mid-July</td> </tr> <tr> <td data-bbox="573 1866 889 1894">Blue Jay</td> <td data-bbox="889 1866 1562 1894">Early May – mid-July</td> </tr> <tr> <td data-bbox="573 1894 889 1921">Chestnut-sided Warbler</td> <td data-bbox="889 1894 1562 1921">June – July</td> </tr> </table>		American Crow	Apr. – July	American Redstart	Late May – late July	American Robin	Late Apr. – mid-Sept.	Black-capped Chickadee	Early May – mid-Aug.	Black-throated Green Warbler	Early June – mid-July	Blue Jay	Early May – mid-July	Chestnut-sided Warbler	June – July
American Crow	Apr. – July															
American Redstart	Late May – late July															
American Robin	Late Apr. – mid-Sept.															
Black-capped Chickadee	Early May – mid-Aug.															
Black-throated Green Warbler	Early June – mid-July															
Blue Jay	Early May – mid-July															
Chestnut-sided Warbler	June – July															

T30,31	Result				
	Chipping Sparrow	May – July			
	Common Yellowthroat	Late May – late July			
	Downy Woodpecker	Early June – late July			
	Eastern Phoebe	May – July			
	Evening Grosbeak	Late June – Aug.			
	Hairy Woodpecker	Early May – early July			
	Mourning Dove	Early Apr. – mid-Sept.			
	Ovenbird	Mid-June – late July			
	Purple Finch	Early June – mid-Aug.			
	Red-eyed Vireo	Early June – early Aug.			
	Rose-breasted Grosbeak	June – July			
	Song Sparrow	May – Aug.			
	Veery	Late May – late July			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Yellow Warbler	Late May – July			
Other Wildlife	Poor herpetile habitat, portion of habitat for other wildlife				
Hydrologic Character	Small depression receiving surface precipitation/runoff. Isolated.				
Hydrogeologic Character	Underlain by granite, localized depression within surface water drainage.				
Plant List	<i>Abies balsamea</i>	Balsam Fir	S5	Green	FAC
	<i>Acer rubrum</i>	Red Maple	S5	Green	FAC
	<i>Arethusa bulbosa</i>	Swamp-Pink	S5	Green	OBL
	<i>Calopogon tuberosus</i>	Tuberous Grass-Pink	S4	Green	OBL
	<i>Carex atlantica</i>	Prickly Bog Sedge	S2	Green	OBL
	<i>Carex magellanica</i>	A Sedge	S5	Green	OBL
	<i>Carex pauciflora</i>	Few-Flowered Sedge	S4S5	Green	OBL
	<i>Carex trisperma</i>	Three-Seed Sedge	S5	Green	OBL
	<i>Chamaedaphne calyculata</i>	Leatherleaf	S5	Green	OBL
	<i>Coptis trifolia</i>	Goldthread	S5	Green	FACW
	<i>Cornus canadensis</i>	Dwarf Dogwood	S5	Green	FAC-
	<i>Drosera rotundifolia</i>	Roundleaf Sundew	S5	Green	OBL
	<i>Eriophorum sp</i>	Cottongrass Bulrush	S5	Green	FACW+
	<i>Eriophorum virginiana</i>	Eriophorum virginiana	not a sp. at risk	Green	OBL
	<i>Gaultheria hispidula</i>	Creeping Snowberry	S5	Green	FACW
	<i>Gaylussacia baccata</i>	Black Huckleberry	S5	Green	FACU
	<i>Gaylussacia dumosa</i>	Dwarf Huckleberry	S5	Green	FAC
	<i>Kalmia angustifolia</i>	Sheep-Laurel	S5	Green	FAC
	<i>Larix laricina</i>	American Larch	S5	Green	FACW-
	<i>Ledum groenlandicum</i>	Common Labrador Tea	S5	Green	OBL
	<i>Maianthemum trifolia</i>	Three leaf False Solomon's seal	not a sp. at risk	Green	OBL
	<i>Myrica pensylvanica</i>	Northern Bayberry	S5	Green	FAC
	<i>Nemopanthus mucronata</i>	False Mountain Holly	S5	Green	OBL
	<i>Osmunda cinnamomea</i>	Cinnamon Fern	S5	Green	FACW
	<i>Photinia melanocarpa</i>	Black Chokeberry	S5	Green	FAC
	<i>Picea mariana</i>	Black Spruce	S5	Green	FACW-
	<i>Rhododendron canadense</i>	Rhodora	S5	Green	FACW
	<i>Rubus pubescens</i>	Dwarf Red Raspberry	S5	Green	FACW+
	<i>Sarracenia purpurea</i>	Northern Pitcher-Plant	S5	Green	OBL
	<i>Smilacina trifolia</i>	Three-leaved False Solomon's Seal	S5	Green	OBL
	<i>Trientalis borealis</i>	Northern Starflower	S5	Green	FAC
	<i>Vaccinium angustifolium</i>	Late Lowbush Blueberry	S5	Green	FACU-
	<i>Vaccinium oxycoccus</i>	Small Cranberry	S5	Green	OBL
	<i>Viburnum nudum</i>	Possum-Haw Viburnum	S5	Green	OBL

T25 (WC4)

Result



Google Earth - Showing Project Footprint (yellow) and Approximate Wetland (green)

Location	Centerpoint UTM 20T 0438326 4948161
Wetland Type	Streamside shrub swamp
Key Boundary	na
Property Owner	NSTIR
Surrounding Land Use	Forested; forest road to east
Historic Impacts	Not observed (upstream beaver ponding)

T25 (WC4)	Result				
Project Description	Watercourse crossing and infill of portion of wetland				
Species at Risk	Potential brook trout (DNR yellow) and American eel (COSEWIC Special Concern) (Canada Warbler in adjacent habitat; Flycatcher may be in edge habitat)				
Fish and Fisheries	Fish habitat present				
Dominant/Characteristic Vegetation	Leatherleaf, Blue-joint, Royal Fern, Pondweed				
Birds and Nesting Periods (from nearest survey site; may include edge and adjacent forest species)	Alder Flycatcher	Mid-June – mid-Aug.			
	American Goldfinch	Late June – mid-Sept.			
	Black-capped Chickadee	Early May – mid-Aug.			
	Black-throated Green Warbler	Early June – mid-July			
	Canada Warbler	Early June – mid-July			COSEWIC Threatened, NSDNR Sensitive
	Common Merganser	Early May – mid-Aug.			
	Common Yellowthroat	Late May – late July			
	Dark-eyed Junco	Early May – late Aug.			
	Golden-crowned Kinglet	Early May – mid-July			
	Hairy Woodpecker	Early May – early July			
	Hermit Thrush	Mid-May – late Aug.			
	Magnolia Warbler	Early June – late July.			
	Olive-sided Flycatcher	Mid-June – mid-Aug.			COSEWIC Threatened, NSDNR Sensitive
	Ovenbird	Mid-June – late July			
	Palm Warbler	Mid-May – late July			
	Pine Siskin	Late Apr. – early Aug.			
	Purple Finch	Early June – mid-Aug.			
	Swainson's Thrush	Late May – late July			
	Tree Swallow	May – July			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Winter Wren	Mid-May – late July			
	Yellow-bellied Flycatcher	Mid-June – early Aug.			
	Yellow-rumped Warbler	Mid-May – early June			
Other Wildlife	Fair to good herpetile habitat, portion of habitat for other wildlife				
Hydrologic Character	Seasonally flooded. Connected to waterbody (Stillwater Run)				
Hydrogeologic Character	May receive local groundwater input.				
Plant List	<i>Abies balsamea</i>	Balsam Fir	S5	Green	FAC
	<i>Acer rubrum</i>	Red Maple	S5	Green	FAC
	<i>Aralia nudicaulis</i>	Aralia racemosa	S5	Green	FACU
	<i>Brachyelytrum septentrionale</i>	Bearded Short-Husk	S5	Green	NI
	<i>Calamagrostis canadensis</i>	Blue-Joint	S5	Green	FACW+
	<i>Carex echinata</i>	Little Prickly Sedge	S5	Green	OBL
	<i>Carex magellanica</i>	A Sedge	S5	Green	OBL
	<i>Carex trisperma</i>	Three-Seed Sedge	S5	Green	OBL
	<i>Carex scabrata</i>	Rough Sedge	S5	Green	OBL
	<i>Chamaedaphne calyculata</i>	Leatherleaf	S5	Green	OBL
	<i>Coptis trifolia</i>	Goldthread	S5	Green	FACW
	<i>Cornus canadensis</i>	Dwarf Dogwood	S5	Green	FAC-
	<i>Drosera rotundifolia</i>	Roundleaf Sundew	S5	Green	OBL
	<i>Dulichium arundinaceum</i>	Three-Way Sedge	S5	Green	OBL
	<i>Glyceria canadensis</i>	Canada Manna-Grass	S5	Green	OBL
	<i>Ilex verticillata</i>	Canada Berry	S5	Green	FACW+
	<i>Isoetes echinospora</i>	Spiny-Spored Quillwort	S5	Green	OBL
	<i>Kalmia angustifolia</i>	Sheep-Laurel	S5	Green	FAC
	<i>Larix laricina</i>	American Larch	S5	Green	FACW-
	<i>Lycopus americanus</i>	American Bugleweed	S5	Green	OBL
	<i>Lysimachia terrestris</i>	Swamp Loosetrife	S5	Green	OBL
	<i>Myrica gale</i>	Sweet Bayberry	S5	Green	OBL
	<i>Nemopanthus mucronata</i>	False Mountain Holly	S5	Green	OBL
	<i>Nuphar lutea ssp. variegata</i>	Yellow Cowlily	S5	Green	OBL
	<i>Onoclea sensibilis</i>	Sensitive Fern	S5	Green	FACW
	<i>Osmunda cinnamomea</i>	Cinnamon Fern	S5	Green	FACW
	<i>Osmunda regalis</i>	Royal Fern	S5	Green	OBL
	<i>Picea mariana</i>	Black Spruce	S5	Green	FACW-
	<i>Rubus pubescens</i>	Dwarf Red Raspberry	S5	Green	FACW+
	<i>Sarracenia purpurea</i>	Northern Pitcher-Plant	S5	Green	OBL
		Three-leaved False			
	<i>Smilacina trifolia</i>	Solomon's Seal	S5	Green	OBL
	<i>Sparganium americanum</i>	American Bur-Reed	S5	Green	OBL
		Narrow-Leaved Meadow-			
	<i>Spiraea alba</i>	Sweet	S5	Green	FAC+

T25 (WC4)	Result				
	<i>Stuckenia filiformis</i>	Slender Pondweed	S5	Green	OBL
	<i>Thelypteris noveboracensis</i>	New York Fern	S5	Green	FAC+
	<i>Viola cucullata</i>	Marsh Blue Violet	S5	Green	FACW+

WL10 (T9-11)
(WC 5)

Result



Google Earth - Showing Project Footprint (yellow) and Approximate Wetland (green)

Location

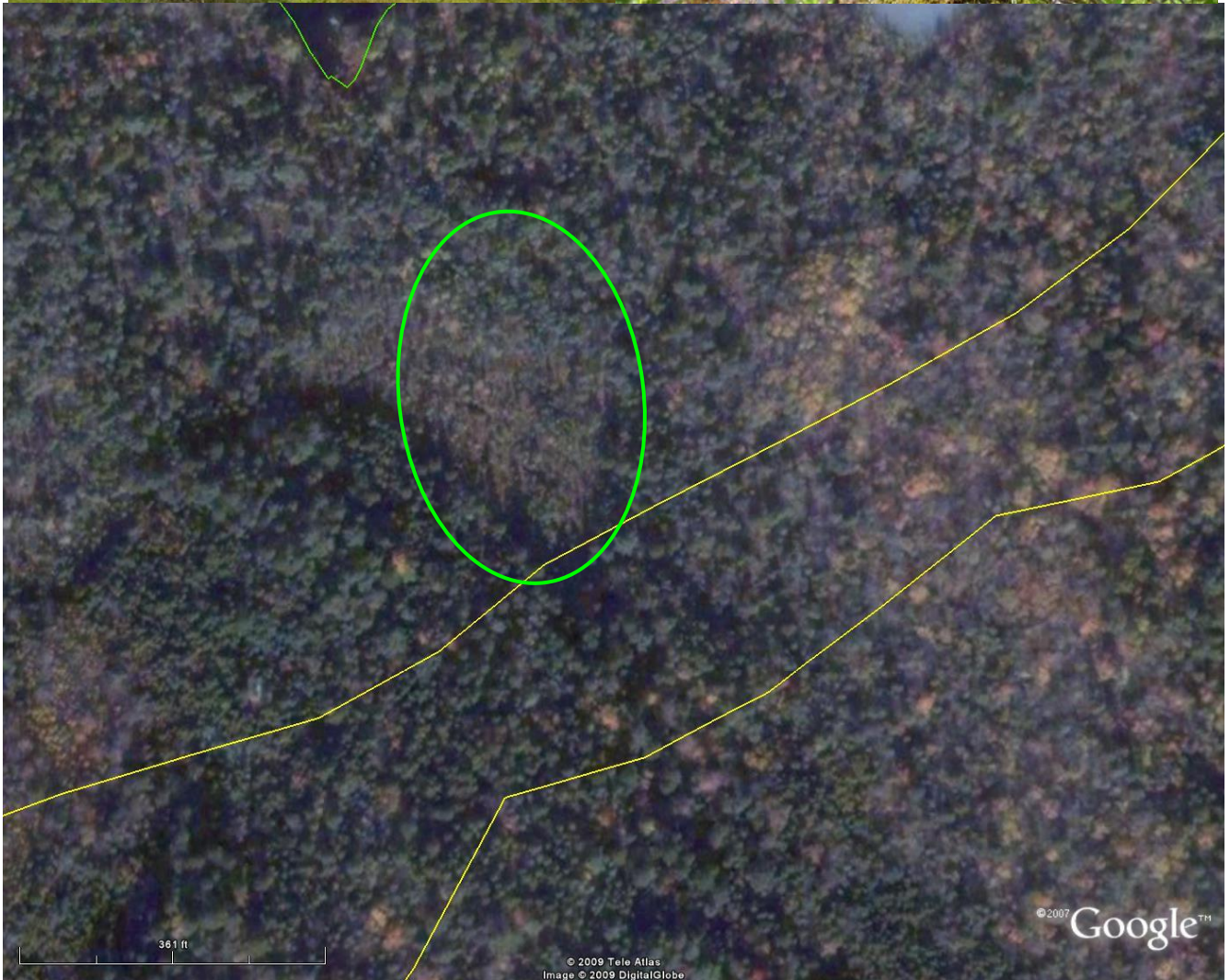
Centerpoint UTM 20T 0441718 4948778

WL10 (T9-11) (WC 5)	Result				
Wetland Type	Open water, shrub swamp, bog				
Key Boundary	na				
Property Owner	TIR				
Surrounding Land Use	Forested				
Historic Impacts	Not identified.				
Project Description	Watercourse crossing and wetland infill				
Species at Risk	Potential brook trout (DNR yellow) and American eel (COSEWIC Special Concern); (Canada Warbler in adjacent habitat; Flycatcher may be in edge habitat)				
Fish and Fisheries	Fish habitat present				
Dominant/Characteristic Vegetation	Tussock Sedge, Leatherleaf, Black Huckleberry, Canada Berry, Sheep-laurel, Common Labrador Tea, Sweet Bayberry, Northern Pitcher Plant, Large Cranberry, Possum-haw Viburnum				
Birds and Nesting Periods (from nearest survey site; may include edge and adjacent forest species)	Alder Flycatcher	Mid-June – mid-Aug.			
	American Goldfinch	Late June – mid-Sept.			
	Black-capped Chickadee	Early May – mid-Aug.			
	Black-throated Green Warbler	Early June – mid-July			
	Canada Warbler	Early June – mid-July			COSEWIC Threatened, NSDNR Sensitive
	Common Merganser	Early May – mid-Aug.			
	Common Yellowthroat	Late May – late July			
	Dark-eyed Junco	Early May – late Aug.			
	Golden-crowned Kinglet	Early May – mid-July			
	Hairy Woodpecker	Early May – early July			
	Hermit Thrush	Mid-May – late Aug.			
	Magnolia Warbler	Early June – late July.			
	Olive-sided Flycatcher	Mid-June – mid-Aug.			COSEWIC Threatened, NSDNR Sensitive
	Ovenbird	Mid-June – late July			
	Palm Warbler	Mid-May – late July			
	Pine Siskin	Late Apr. – early Aug.			
	Purple Finch	Early June – mid-Aug.			
	Swainson's Thrush	Late May – late July			
	Tree Swallow	May – July			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Winter Wren	Mid-May – late July			
	Yellow-bellied Flycatcher	Mid-June – early Aug.			
	Yellow-rumped Warbler	Mid-May – early June			
Other Wildlife	Fair herpetile habitat, portion of habitat for other wildlife				
Hydrologic Character	Near stream seasonally flooded, predominately rainwater precipitation source in basin surrounding stream. Stillwater Run through, connected to watercourse. Complex upstream and downstream.				
Hydrogeologic Character	May be local groundwater input.				
Plant List	<i>Abies balsamea</i>	Balsam Fir	S5	Green	FAC
	<i>Alnus incana</i>	Speckled Alder	S5	Green	FACU
	<i>Betula papyrifera</i>	Paper Birch	S5	Green	FAC
	<i>Carex stricta</i>	Tussock Sedge	S5	Green	OBL
	<i>Chamaedaphne calyculata</i>	Leatherleaf	S5	Green	OBL
	<i>Coptis trifolia</i>	Goldthread	S5	Green	FACW
	<i>Cornus canadensis</i>	Dwarf Dogwood	S5	Green	FAC-
	<i>Drosera rotundifolia</i>	Roundleaf Sundew	S5	Green	OBL
	<i>Eriocaulon aquaticum</i>	Seven-Angled Pipewort	S5	Green	OBL
	<i>Gaultheria hispidula</i>	Creeping Snowberry	S5	Green	FACW
	<i>Gaylussacia baccata</i>	Black Huckleberry	S5	Green	FACU
	<i>Ilex verticillata</i>	Canada Berry	S5	Green	FACW+
	<i>Kalmia angustifolia</i>	Sheep-Laurel	S5	Green	FAC
	<i>Larix laricina</i>	American Larch	S5	Green	FACW-
	<i>Ledum groenlandicum</i>	Common Labrador Tea	S5	Green	OBL
	<i>Myrica gale</i>	Sweet Bayberry	S5	Green	OBL
	<i>Nemopanthus mucronata</i>	False Mountain Holly	S5	Green	OBL
	<i>Nuphar lutea ssp. variegata</i>	Yellow Cowlily	S5	Green	OBL
	<i>Osmunda cinnamomea</i>	Cinnamon Fern	S5	Green	FACW
	<i>Picea mariana</i>	Black Spruce	S5	Green	FACW-
	<i>Pinus strobus</i>	Eastern White Pine	S5	Green	FACU
	<i>Pteridium aquilinum</i>	Bracken Fern	S5	Green	FACU
	<i>Rhododendron canadense</i>	Rhodora	S5	Green	FACW
	<i>Sarracenia purpurea</i>	Northern Pitcher-Plant	S5	Green	OBL
	<i>Triadenum fraseri</i>	Marsh St. John's-Wort	S5	Green	OBL
	<i>Vaccinium angustifolium</i>	Late Lowbush Blueberry	S5	Green	FACU-

WL10 (T9-11) (WC 5)	Result				
	<i>Vaccinium macrocarpon</i>	Large Cranberry	S5	Green	OBL
	<i>Viburnum nudum</i>	Possum-Haw Viburnum	S5	Green	OBL
	<i>Viola sp</i>	Violet	S5	Green	NI

WL11 (T8)

Result



Google Earth - Showing Project Footprint (yellow) and Approximate Wetland (green)

Location	Centerpoint UTM 20T 0442113 4948941
Wetland Type	Bog
Key Boundary	Na

WL11 (T8)	Result				
Property Owner	TIR				
Surrounding Land Use	Forested (bog continues to north)				
Historic Impacts	Not observed				
Project Description	Encroachment on southern portion of bog.				
Species at Risk	None observed. (Nighthawk not expected in wetland)				
Fish and Fisheries	Potential seasonal fish habitat in central stream				
Dominant/Characteristic Vegetation	Black Spruce , Three-seed Sedge, Cinnamon Fern (Underlying sphagnum)				
Birds and Nesting Periods (from nearest survey site; may include edge and adjacent forest species)	American Black Duck	Apr. – July			
	American Crow	Apr. – July			
	American Goldfinch	Late June – mid-Sept.			
	American Robin	Late Apr. – mid-Sept.			
	Belted Kingfisher	May – June			
	Black-and-White-Warbler	Early June – mid-July			
	Black-capped Chickadee	Early May – mid-Aug.			
	Black-throated Green Warbler	Early June – mid-July			
	Blue Jay	Early May – mid-July			
	Common Grackle	Late Apr. – July			
	Common Nighthawk	Early June – early Aug.			NSESA Threatened, COSEWIC Threatened, NSDNR Sensitive
	Common Raven	Mar. – June			
	Common Yellowthroat	Late May – late July			
	Dark-eyed Junco	Early May – late Aug.			
	Hairy Woodpecker	Early May – early July			
	Hermit Thrush	Mid-May – late Aug.			
	Magnolia Warbler	Early June – late July.			
	Mourning Dove	Early Apr. – mid-Sept.			
	Northern Waterthrush	May – July			
	Ovenbird	Mid-June – late July			
	Red-eyed Vireo	Early June – early Aug.			
	Ruby-crowned Kinglet	Mid-May – early July			
	Solitary Vireo (Blue-headed)	Late May – late July			
	Song Sparrow	May – Aug.			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Winter Wren	Mid-May – late July			
	Yellow-bellied Flycatcher	Mid-June – early Aug.			
	Yellow-rumped Warbler	Mid-May – early June			
Other Wildlife	Good herpetile habitat, portion of habitat diversity for other wildlife				
Hydrologic Character	Near stream seasonally flooded, predominately rainwater precipitation source in basin surrounding stream. Connected to trib. Of Stillwater Run.				
Hydrogeologic Character	May have some local groundwater input				
Plant List	<i>Acer rubrum</i>	Red Maple	S5	Green	FACW+/FAC
	<i>Carex trisperma</i>	Three-Seed Sedge	S5	Green	OBL
	<i>Cornus canadensis</i>	Dwarf Dogwood	S5	Green	FAC-
	<i>Drosera rotundifolia</i>	Roundleaf Sundew	S5	Green	OBL
	<i>Eriophorum sp</i>	Cottongrass Bulrush	S5	Green	FACW+
	<i>Gaultheria hispidula</i>	Creeping Snowberry	S5	Green	FACW
	<i>Gaylussacia baccata</i>	Black Huckleberry	S5	Green	FACU
	<i>Kalmia angustifolia</i>	Sheep-Laurel	S5	Green	FAC
	<i>Larix laricina</i>	American Larch	S5	Green	FACW-
	<i>Linnaea borealis</i>	Twinflower	S5	Green	FAC
	<i>Maianthemum canadense</i>	Wild Lily-of-The-Valley	S5	Green	FAC-
	<i>Myrica pensylvanica</i>	Northern Bayberry	S5	Green	FAC
	<i>Nemopanthus mucronata</i>	False Mountain Holly	S5	Green	OBL
	<i>Osmunda cinnamomea</i>	Cinnamon Fern	S5	Green	FACW
	<i>Picea mariana</i>	Black Spruce	S5	Green	FACW-
	<i>Vaccinium angustifolium</i>	Late Lowbush Blueberry	S5	Green	FACU-
	<i>Viburnum nudum</i>	Possum-Haw Viburnum	S5	Green	OBL
	<i>Viola sp</i>	Violet	S5	Green	NI

T12

Result



Google Earth - Showing Project Footprint (yellow) and Approximate Wetland (green)

Location	Centerpoint UTM 20T 0442762 4949864
Wetland Type	Treed Bog
Key Boundary	Na
Property Owner	TIR

T12	Result				
Surrounding Land Use	Forested, Kingswood Road to north; powerline to south				
Historic Impacts	Drainage affected by road and powerline				
Project Description	Portion of wetland subject to infill				
Species at Risk	None observed (Nighthawk not expected); potential for boreal chickadee low as quite disturbed.				
Fish and Fisheries	Not fish habitat				
Dominant/Characteristic Vegetation	Balsam Fir , Three-seed Sedge, False Mountain Holly, Cinnamon Fern, Black Spruce (Underlain by sphagnum)				
Birds and Nesting Periods (from nearest survey site; may include edge and adjacent forest species)	Alder Flycatcher	Mid-June – mid-Aug.			
	American Crow	Apr. – July			
	American Goldfinch	Late June – mid-Sept.			
	American Robin	Late Apr. – mid-Sept.			
	Barred Owl	Early Apr. – late June			
	Black-capped Chickadee	Early May – mid-Aug.			
	Black-throated Green Warbler	Early June – mid-July			
	Blue Jay	Early May – mid-July			
	Boreal Chickadee	Mid-May – mid-Aug.			NSDNR Sensitive
	Common Nighthawk	Early June – early Aug.			NSESA Threatened, COSEWIC
	Common Yellowthroat	Late May – late July			Threatened, NSDNR Sensitive
	Dark-eyed Junco	Early May – late Aug.			
	Golden-crowned Kinglet	Early May – mid-July			
	Hairy Woodpecker	Early May – early July			
	Hermit Thrush	Mid-May – late Aug.			
	Lincolns Sparrow	June – July			
	Magnolia Warbler	Early June – late July.			
	Mourning Dove	Early Apr. – mid-Sept.			
	Osprey	May – July			
	Red-breasted Nuthatch	Mid-May – late July			
	Ruby-crowned Kinglet	Mid-May – early July			
	Solitary Vireo (Blue-headed)	Late May – late July			
	Song Sparrow	May – Aug.			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Yellow Warbler	Late May – July			
	Yellow-bellied Flycatcher	Mid-June – early Aug.			
	Yellow-rumped Warbler	Mid-May – early June			
Other Wildlife	Good herpetile habitat, not large enough to be significant habitat for other wildlife				
Hydrologic Character	Likely surface water driven, seasonally flooded.				
Hydrogeologic Character	Underlain by Goldenville Formation. Surface water drainage to Ragged Lake. Groundwater not expected.				
Plant List	<i>Abies balsamea</i>	Balsam Fir	S5	Green	FAC
	<i>Acer rubrum</i>	Red Maple	S5	Green	FAC
	<i>Aralia nudicaulis</i>	Aralia racemosa	S5	Green	FACU
	<i>Carex trisperma</i>	Three-Seed Sedge	S5	Green	OBL
	<i>Cornus canadensis</i>	Dwarf Dogwood	S5	Green	FAC-
	<i>Drosera rotundifolia</i>	Roundleaf Sundew	S5	Green	OBL
	<i>Gaylussacia baccata</i>	Black Huckleberry	S5	Green	FACU
	<i>Ilex verticillata</i>	Canada Berry	S5	Green	FACW+
	<i>Larix laricina</i>	American Larch	S5	Green	FACW-
	<i>Maianthemum canadense</i>	Wild Lily-of-The-Valley	S5	Green	FAC-
	<i>Nemopanthus mucronata</i>	False Mountain Holly	S5	Green	OBL
	<i>Osmunda cinnamomea</i>	Cinnamon Fern	S5	Green	FACW
	<i>Picea mariana</i>	Black Spruce	S5	Green	FACW-
	<i>Rubus hispidus</i>	Bristly Dewberry	S5	Green	FACW
				not a sp.	
	<i>Thelypteris simulata</i>	Bog Fern	at risk	Green	OBL
	<i>Vaccinium myrtilloides</i>	Velvetleaf Blueberry	S5	Green	FAC

T5	Result
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Google Earth - Showing Project Footprint (yellow) and Approximate Wetland (green)

Location	Centerpoint UTM 20T 0443045 4950489
Wetland Type	Small Pond, Shrub Swamp
Key Boundary	na

T5	Result				
Property Owner	TIR				
Surrounding Land Use	Forested				
Historic Impacts	Not observed				
Project Description	Within proposed ROW clearing; Culvert.				
Species at Risk	Not observed.				
Fish and Fisheries	Not expected to be fish habitat.				
Dominant/Characteristic Vegetation	Balsam Fir, Canada Manna-grass, Cinnamon Fern, Black Spruce, Late Lowbush Blueberry				
Birds and Nesting Periods (from nearest survey site; may include edge and adjacent forest species)	American Crow	Apr. – July			
	American Goldfinch	Late June – mid-Sept.			
	American Robin	Late Apr. – mid-Sept.			
	Barred Owl	Early Apr. – late June			
	Bay-breasted Warbler	June – July			
	Belted Kingfisher	May – June			
	Black-and-White-Warbler	Early June – mid-July			
	Black-capped Chickadee	Early May – mid-Aug.			
	Black-throated Green Warbler	Early June – mid-July			
	Blue Jay	Early May – mid-July			
	Dark-eyed Junco	Early May – late Aug.			
	Golden-crowned Kinglet	Early May – mid-July			
	Gray Jay	Late Mar. – early July			NSDNR Sensitive
	Hermit Thrush	Mid-May – late Aug.			
	Magnolia Warbler	Early June – late July.			
	Mourning Dove	Early Apr. – mid-Sept.			
	Nashville Warbler	Late May – late July			
	Northern Parula Warbler	Late May – early Aug.			
	Osprey	May – July			
	Ovenbird	Mid-June – late July			
	Purple Finch	Early June – mid-Aug.			
	Red-eyed Vireo	Early June – early Aug.			
	Ruby-crowned Kinglet	Mid-May – early July			
	Ruby-throated Hummingbird	June – July			
	Solitary Vireo (Blue-headed)	Late May – late July			
	Song Sparrow	May – Aug.			
	Swainson's Thrush	Late May – late July			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Winter Wren	Mid-May – late July			
	Yellow-bellied Flycatcher	Mid-June – early Aug.			
	Yellow-rumped Warbler	Mid-May – early June			
Other Wildlife	Good herpetile habitat, not large enough to be significant habitat for other wildlife				
Hydrologic Character	Likely surface water driven, seasonally flooded.				
Hydrogeologic Character	Underlain by north south folds of Goldenville Formation. Surface water drainage expected to follow lowlying ridge valley and swales form where drainage impeded.				
Plant List	<i>Abies balsamea</i>	Balsam Fir	S5	Green	FAC
	<i>Alnus incana</i>	Speckled Alder	S5	Green	FACU
	<i>Aralia nudicaulis</i>	Sarsaparilla	S5	Green	FACU
	<i>Betula alleghaniensis</i>	Yellow Birch	S5	Green	FAC
	<i>Carex trisperma</i>	Three-Seed Sedge	S5	Green	OBL
	<i>Cornus canadensis</i>	Dwarf Dogwood	S5	Green	FAC-
	<i>Glyceria canadensis</i>	Canada Manna-Grass	S5	Green	OBL
	<i>Kalmia angustifolia</i>	Sheep-Laurel	S5	Green	FAC
	<i>Linnaea borealis</i>	Twinflower	S5	Green	FAC
	<i>Osmunda cinnamomea</i>	Cinnamon Fern	S5	Green	FACW
	<i>Oxalis montana</i>	White Wood-Sorrel	S5	Green	FAC-
	<i>Picea mariana</i>	Black Spruce	S5	Green	FACW-
	<i>Sarracenia purpurea</i>	Northern Pitcher-Plant	S5	Green	OBL
	<i>Vaccinium angustifolium</i>	Late Lowbush Blueberry	S5	Green	FACU-

T22

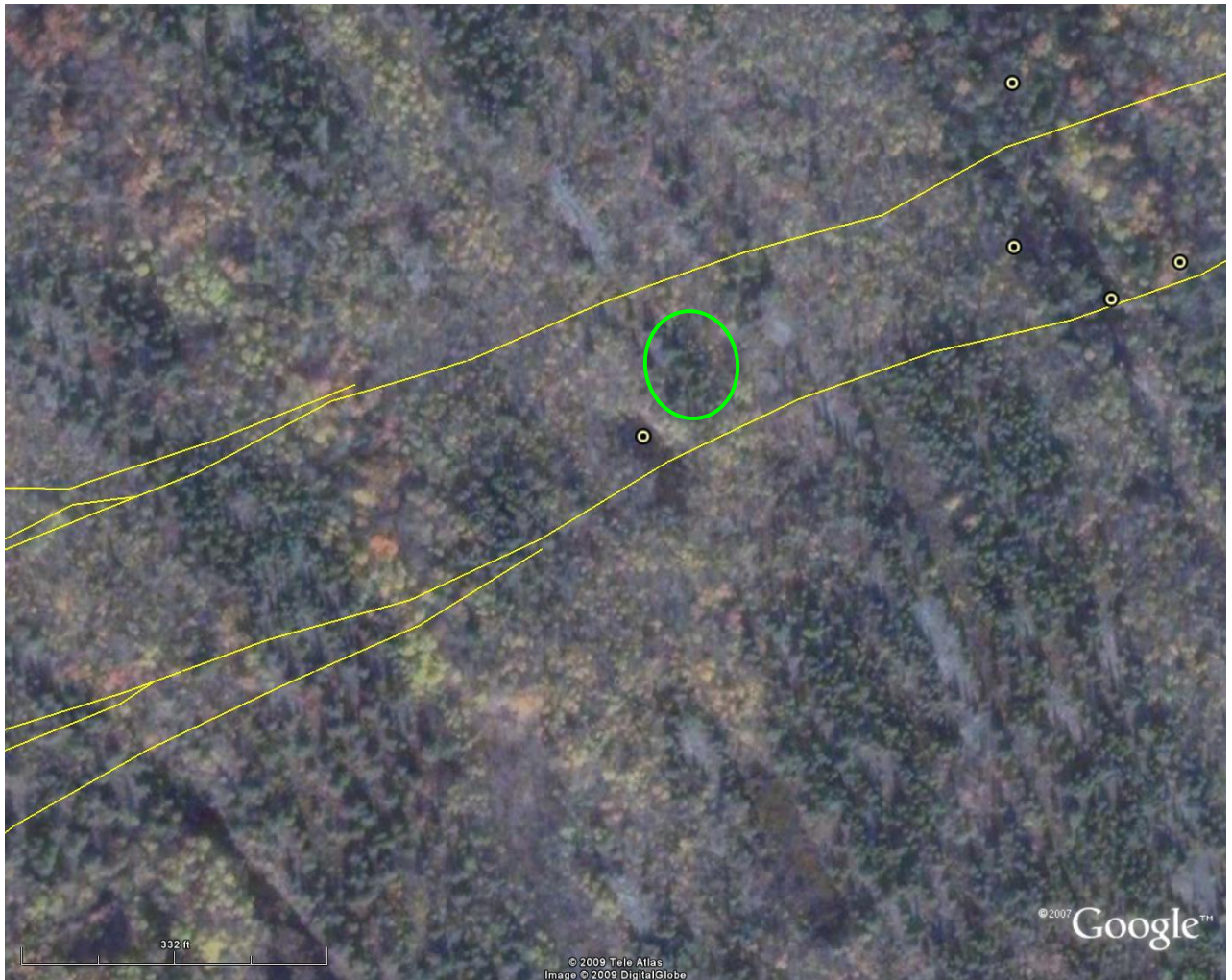
Result



Google Earth - Showing Project Footprint (yellow) and Approximate Wetland (green)

Location	Centerpoint UTM 20T 0444030 4951182
Wetland Type	Shrub swamp
Key Boundary	na
Property Owner	TIR

T22	Result				
Surrounding Land Use	Forested				
Historic Impacts	Flagged by Clayton Developments?				
Project Description	Within proposed ROW clearing; Culvert.				
Species at Risk	Not observed.				
Fish and Fisheries	Not expected to be fish habitat.				
Dominant/Characteristic Vegetation	Black Spruce Cottongrass Bulrush Possum-haw Viburnum				
Birds and Nesting Periods (from nearest survey site; may include edge and adjacent forest species)	American Robin	Late Apr. – mid-Sept.			
	Blackburnian Warbler	Mid-June – late July			
	Black-throated Green Warbler	Early June – mid-July			
	Black-throated Green Warbler	Early June – mid-July			
	Common Yellowthroat	Late May – late July			
	Dark-eyed Junco	Early May – late Aug.			
	Hermit Thrush	Mid-May – late Aug.			
	Magnolia Warbler	Early June – late July.			
	Northern Parula Warbler	Late May – early Aug.			
	Ovenbird	Mid-June – late July			
	Red-eyed Vireo	Early June – early Aug.			
	Solitary Vireo (Blue-headed)	Late May – late July			
Other Wildlife	Fair herpetile habitat, not large enough to be significant habitat for other wildlife				
Hydrologic Character	Likely surface water driven, seasonally flooded.				
Hydrogeologic Character	Underlain by north south folds of Goldenville Formation. Surface water drainage expected to follow lowlying ridge valley and swales form where drainage impeded.				
Plant List	<i>Acer rubrum</i>	Red Maple	S5	Green	FAC
	<i>Alnus incana</i>	Alnus incana ssp. rugosa	S5	Green	FACU
	<i>Maianthemum canadense</i>	Wild Lily-of-The-Valley	S5	Green	FAC-
	<i>Picea mariana</i>	Black Spruce	S5	Green	FACW-
	<i>Rubus pubescens</i>	Dwarf Red Raspberry	S5	Green	FACW+
	<i>Salix discolor</i>	Pussy Willow	S5	Green	FACW
	<i>Scirpus cyperinus</i>	Cottongrass Bulrush	S5	Green	FACW+
	<i>Viburnum nudum</i>	Possum-Haw Viburnum	S5	Green	OBL



Google Earth - Showing Project Footprint (yellow) and Approximate Wetland (green)

Location	Centerpoint UTM 20T 0444030 4951182	
Wetland Type	Shrub swamp	
Key Boundary	na	
Property Owner	TIR	
Surrounding Land Use	Forested	
Historic Impacts	Not observed	
Project Description	Within proposed ROW clearing	
Species at Risk	Not observed.	
Fish and Fisheries	Not expected to be fish habitat.	
Dominant/Characteristic Vegetation	Red Maple, Alder	
Birds and Nesting Periods (from nearest survey site; may include edge and adjacent forest species)	American Robin	Late Apr. – mid-Sept.
	Blackburnian Warbler	Mid-June – late July
	Black-throated Green Warbler	Early June – mid-July
	Black-throated Green Warbler	Early June – mid-July
	Common Yellowthroat	Late May – late July
	Dark-eyed Junco	Early May – late Aug.
	Hermit Thrush	Mid-May – late Aug.
	Magnolia Warbler	Early June – late July.
	Northern Parula Warbler	Late May – early Aug.
	Ovenbird	Mid-June – late July
	Red-eyed Vireo	Early June – early Aug.
	Solitary Vireo (Blue-headed)	Late May – late July

T37	Result				
Other Wildlife	Fair herpetile habitat, not large enough to be significant habitat for other wildlife				
Hydrologic Character	Likely surface water driven, seasonally flooded.				
Hydrogeologic Character	Underlain by north south folds of Goldenville Formation. Surface water drainage expected to follow lowlying ridge valley and swales form where drainage impeded.				
Plant List	<i>Acer rubrum</i>	Red Maple	S5	Green	FAC
	<i>Alnus incana</i>	Alnus incana ssp. rugosa	S5	Green	FACU
	<i>Betula populifolia</i>	Grey Birch	S5	Green	FAC
	<i>Cornus canadensis</i>	Dwarf Dogwood	S5	Green	FAC-
	<i>Equisetum sylvaticum</i>	Woodland Horsetail	S5	Green	FACW
	<i>Kalmia angustifolia</i>	Sheep-Laurel	S5	Green	FAC
	<i>Maianthemum canadense</i>	Wild Lily-of-The-Valley	S5	Green	FAC-
	<i>Osmunda cinnamomea</i>	Cinnamon Fern	S5	Green	FACW
	<i>Picea mariana</i>	Black Spruce	S5	Green	FACW-
	<i>Pinus strobus</i>	Eastern White Pine	S5	Green	FACU
	<i>Populus tremuloides</i>	Quacking Aspen	S5	Green	FAC
	<i>Pteridium aquilinum</i>	Bracken	S5	Green	FACU
	<i>Rubus pubescens</i>	Dwarf Red Raspberry	S5	Green	FACW+
	<i>Thelypteris noveboracensis</i>	New York Fern	S5	Green	FAC+
	<i>Trientalis borealis</i>	Northern Starflower	S5	Green	FAC

T11

Result



Google Earth - Showing Project Footprint (yellow) and Approximate Wetland (green)

Location	Centerpoint UTM 20T 0444160 4951247
Wetland Type	Swamp -Red maple/cinnamon swale
Key Boundary	Stream No. 8

T11	Result				
Property Owner	TIR				
Surrounding Land Use	Forested				
Historic Impacts	Not evident; Wetland flagged				
Project Description	Within proposed ROW clearing				
Species at Risk	Listera australis (NSDNR red) found in habitat approximately 100 m to east.				
Fish and Fisheries	Not fish habitat				
Dominant/Characteristic Vegetation	Red Maple, Three-seed Sedge, Black Huckleberry, Cinnamon Fern, Possum-Haw Viburnum				
Birds and Nesting Periods (from nearest survey site; may include edge and adjacent forest species)	American Robin	Late Apr. – mid-Sept.			
	Blackburnian Warbler	Mid-June – late July			
	Black-throated Green Warbler	Early June – mid-July			
	Black-throated Green Warbler	Early June – mid-July			
	Common Yellowthroat	Late May – late July			
	Dark-eyed Junco	Early May – late Aug.			
	Hermit Thrush	Mid-May – late Aug.			
	Magnolia Warbler	Early June – late July.			
	Northern Parula Warbler	Late May – early Aug.			
	Ovenbird	Mid-June – late July			
	Red-eyed Vireo	Early June – early Aug.			
	Solitary Vireo (Blue-headed)	Late May – late July			
Other Wildlife	Good amphibian habitat, not large enough to be significant habitat for other wildlife				
Hydrologic Character	Likely surface water driven, seasonally flooded.				
Hydrogeologic Character	Underlain by north south folds of Goldenville Formation. Surface water drainage expected to follow lowlying ridge valley and swales form where drainage impeded. May be beaver back-flood.				
Plant List	<i>Acer pensylvanicum</i>	Acer platanoides	S5	Green	FACU
	<i>Acer rubrum</i>	Red Maple	S5	Green	FAC
	<i>Alnus incana</i>	Alnus incana ssp. rugosa	S5	Green	FACU
	<i>Aster acuminatus</i>	Whorled Wood Aster	S5	Green	FACU-
	<i>Carex trisperma</i>	Three-Seed Sedge	S5	Green	OBL
	<i>Coptis trifolia</i>	Goldthread	S5	Green	FACW
	<i>Cypripedium acaule</i>	Pink Lady's-Slipper	S5	Green	FACU-
	<i>Gaylussacia baccata</i>	Black Huckleberry	S5	Green	FACU
	<i>Glyceria striata</i>	Fowl Manna-Grass	S5	Green	OBL
	<i>Ilex verticillata</i>	Winterberry	S5	Green	FACW+
	<i>Maianthemum canadense</i>	Wild Lily-of-The-Valley	S5	Green	FAC-
	<i>Onoclea sensibilis</i>	Sensitive Fern	S5	Green	FACW
	<i>Osmunda cinnamomea</i>	Cinnamon Fern	S5	Green	FACW
	<i>Osmunda regalis</i>	Royal Fern	S5	Green	OBL
	<i>Rubus pubescens</i>	Dwarf Red Raspberry	S5	Green	FACW+
	<i>Thelypteris noveboracensis</i>	New York Fern	S5	Green	FAC+
	<i>Trientalis borealis</i>	Northern Starflower	S5	Green	FAC
	<i>Viburnum nudum</i>	Possum-Haw Viburnum	S5	Green	OBL

T14

Result



Google Earth - Showing Project Footprint (yellow) and Approximate Wetland (green)

Location	Centerpoint UTM 20T 0444220 4951242
Wetland Type	Streamside swamp
Key Boundary	na
Property Owner	TIR

T14	Result				
Surrounding Land Use	Forested				
Historic Impacts	Not observed; Flagged				
Project Description	Within proposed ROW clearing; Culvert.				
Species at Risk	Listera australis (NSDNR red) found in habitat approximately 100 m to east.				
Fish and Fisheries	Watercourse may provide seasonal fish habitat.				
Dominant/Characteristic Vegetation	Balsam Fir, Little Prickly Sedge, Three-seed Sedge, Black Spruce				
Birds and Nesting Periods (from nearest survey site; may include edge and adjacent forest species)	American Robin	Late Apr. – mid-Sept.			
	Blackburnian Warbler	Mid-June – late July			
	Black-throated Green Warbler	Early June – mid-July			
	Black-throated Green Warbler	Early June – mid-July			
	Common Yellowthroat	Late May – late July			
	Dark-eyed Junco	Early May – late Aug.			
	Hermit Thrush	Mid-May – late Aug.			
	Magnolia Warbler	Early June – late July.			
	Northern Parula Warbler	Late May – early Aug.			
	Ovenbird	Mid-June – late July			
	Red-eyed Vireo	Early June – early Aug.			
	Solitary Vireo (Blue-headed)	Late May – late July			
Other Wildlife	Good amphibian habitat, not large enough to be significant habitat for other wildlife				
Hydrologic Character	Likely surface water driven, seasonally flooded.				
Hydrogeologic Character	Underlain by north south folds of Goldenville Formation. Surface water drainage expected to follow lowlying ridge valley and swales form where drainage impeded. May be beaver back-flood.				
Plant List	<i>Abies balsamea</i>	Balsam Fir	S5	Green	FAC
	<i>Acer rubrum</i>	Red Maple	S5	Green	FAC
	<i>Alnus incana</i>	Speckled Alder	S5	Green	FACU
	<i>Aster acuminatus</i>	Whorled Wood Aster	S5	Green	FACU-
	<i>Betula alleghaniensis</i>	Yellow Birch	S5	Green	FAC
	<i>Carex echinata</i>	Little Prickly Sedge	S5	Green	OBL
	<i>Carex gynandra</i>	A Sedge	S5	Green	OBL
	<i>Carex leptalea</i>	Bristly-Stalk Sedge	S5	Green	OBL
	<i>Carex trisperma</i>	Three-Seed Sedge	S5	Green	OBL
	<i>Corallorhiza trifida</i>	Early Coralroot	S3	Green	FACW
	<i>Fraxinus americana</i>	White Ash	S5	Green	FACU
	<i>Gaylussacia baccata</i>	Black Huckleberry	S5	Green	FACU
	<i>Ilex verticillata</i>	Canada Berry	S5	Green	FACW+
	<i>Kalmia angustifolia</i>	Sheep-Laurel	S5	Green	FAC
	<i>Osmunda cinnamomea</i>	Cinnamon Fern	S5	Green	FACW+
	<i>Picea mariana</i>	Black Spruce	S5	Green	FACW-
	<i>Rubus pubescens</i>	Dwarf Red Raspberry	S5	Green	FACW+
	<i>Scutellaria lateriflora</i>	Mad Dog Skullcap	S5	Green	FACW+
	<i>Thelypteris noveboracensis</i>	New York Fern	S5	Green	FAC+
	<i>Trientalis borealis</i>	Northern Starflower	S5	Green	FAC
	<i>Vaccinium angustifolium</i>	Late Lowbush Blueberry	S5	Green	FACU-
	<i>Viburnum nudum</i>	Possum-Haw Viburnum	S5	Green	OBL

T0

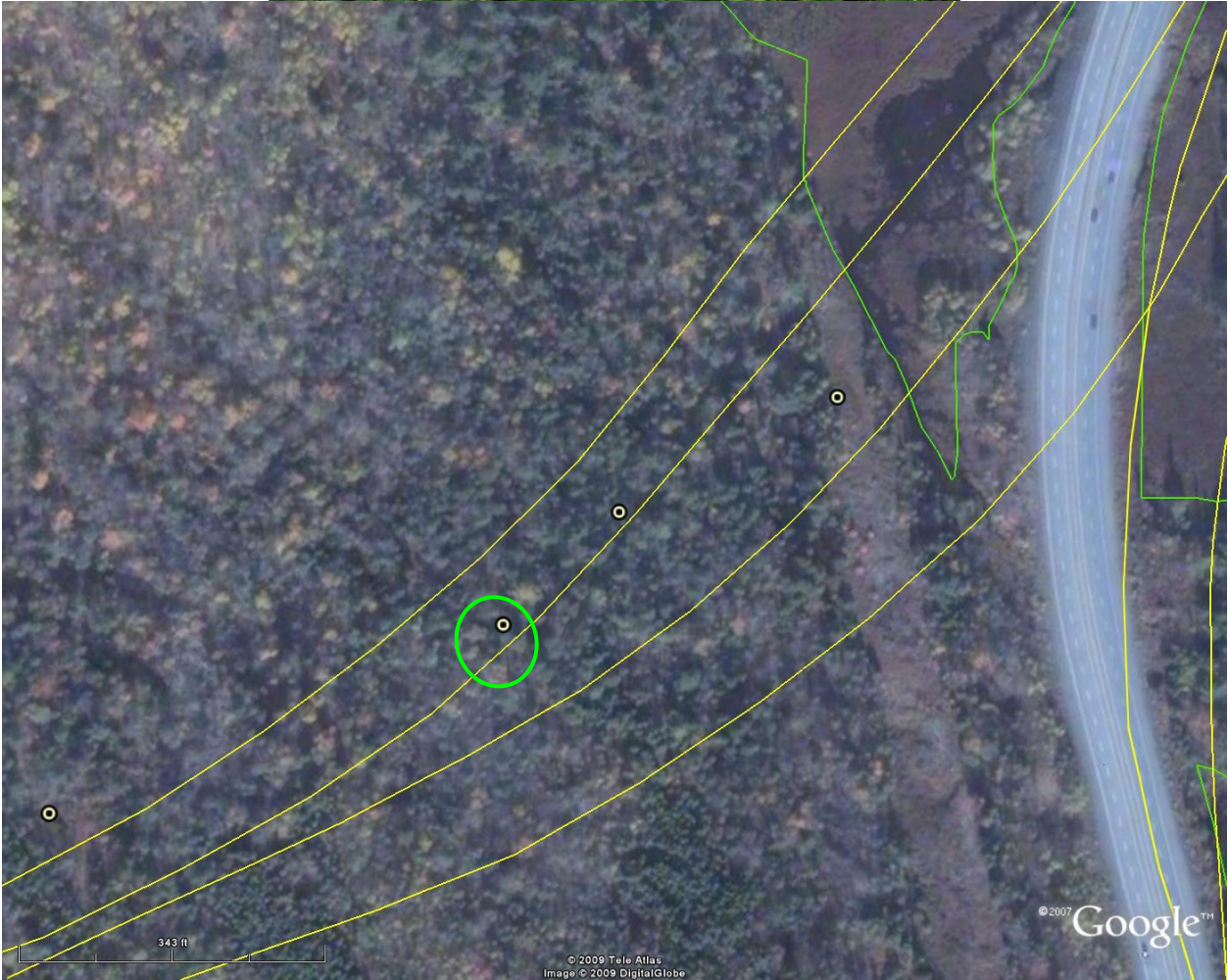
Result



Google Earth - Showing Project Footprint (yellow) and Approximate Wetland (green)

Location	Centerpoint UTM 20T 0444316 4951384
Wetland Type	Sphagnum swale/ Swamp
Key Boundary	na
Property Owner	TIR
Surrounding Land Use	Forested
Historic Impacts	Not observed; Wetland flagged
Project Description	Approximately 50 m north of proposed ROW clearing.
Species at Risk	Listera australis (NSDNR red), 20T 0444336 4951362
Fish and Fisheries	No fish habitat expected.
Dominant/Characteristic Vegetation	Cinnamon Fern, Black Spruce (Sphagnum)

T17	Result
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Google Earth - Showing Project Footprint (yellow) and Approximate Wetland (green)

Location	Centerpoint UTM 20T 0444494 4951425
Wetland Type	Cinnamon fern swale - Swamp
Key Boundary	na
Property Owner	TIR

T17	Result				
Surrounding Land Use	Forested				
Historic Impacts	Not observed				
Project Description	Within proposed ROW clearing				
Species at Risk	Listera australis (NSDNR red).				
Fish and Fisheries	Not expected to be fish habitat.				
Dominant/Characteristic Vegetation	Cinnamon Fern ,Three-seed Sedge, Goldthread, Winterberry, Possum-haw Viburnum				
Birds and Nesting Periods (from nearest survey site; may include edge and adjacent forest species)	American Black Duck	Apr. – July			
	American Goldfinch	Late June – mid-Sept.			
	Black-and-White-Warbler	Early June – mid-July			
	Solitary Vireo (Blue-headed)	Late May – late July			
	Blue Jay	Early May – mid-July			
	Cedar Waxwing	Mid-June – early Sept.			
	Dark-eyed Junco	Early May – late Aug.			
	Nashville Warbler	Late May – late July			
	Osprey	May – July			
	Purple Finch	Early June – mid-Aug.			
	Red-breasted Nuthatch	Mid-May – late July			
	Red-eyed Vireo	Early June – early Aug.			
	Swamp Sparrow	Late May – mid-July			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Yellow-rumped Warbler	Mid-May – early June			
Other Wildlife	Good amphibian habitat, not large enough to be significant habitat for other wildlife				
Hydrologic Character	Likely surface water driven, seasonally flooded.				
Hydrogeologic Character	Underlain by north south folds of Goldenville Formation. Surface water drainage expected to follow lowlying ridge valley and swales form where drainage impeded.				
Plant List	<i>Abies balsamea</i>	Balsam Fir	S5	Green	FAC
	<i>Acer rubrum</i>	Red Maple	S5	Green	FAC
	<i>Alnus incana</i>	Alnus incana	S5	Green	FACU
	<i>Aralia nudicaulis</i>	Aralia racemosa	S5	Green	FACU
	<i>Carex trisperma</i>	Three-Seed Sedge	S5	Green	OBL
	<i>Coptis trifolia</i>	Goldthread	S5	Green	FACW
	<i>Ilex verticillata</i>	Winterberry	S5	Green	FACW+
	<i>Listera australis</i>	Southern Twayblade	S1	Red	FACW
	<i>Maianthemum canadense</i>	Wild Lily-of-The-Valley	S5	Green	FAC-
	<i>Osmunda cinnamomea</i>	Cinnamon Fern	S5	Green	FACW
	<i>Phegopteris connectilis</i>	Northern Beech Fern	S5	Green	FACU
	<i>Picea mariana</i>	Black Spruce	S5	Green	FACW-
	<i>Rubus pubescens</i>	Dwarf Red Raspberry	S5	Green	FACW+
	<i>Thelypteris noveboracensis</i>	New York Fern	S5	Green	FAC+
	<i>Trientalis borealis</i>	Northern Starflower	S5	Green	FAC
	<i>Viburnum nudum</i>	Possum-Haw Viburnum	S5	Green	OBL

T18

Result



Google Earth - Showing Project Footprint (yellow) and Approximate Wetland (green)

Location	Centerpoint UTM 20T 0444536 4951465
Wetland Type	Streamside swale - Swamp
Key Boundary	na
Property Owner	TIR
Surrounding Land Use	Forested

T18	Result				
Historic Impacts	Not observed				
Project Description	Within proposed ROW clearing				
Species at Risk	Listera australis (NSDNR red) found to east.				
Fish and Fisheries	Potential seasonal fish habitat.				
Dominant/Characteristic Vegetation	Three-seed Sedge, Cinnamon Fern, Black Spruce				
Birds and Nesting Periods (from nearest survey site; may include edge and adjacent forest species)	American Black Duck	Apr. – July			
	American Goldfinch	Late June – mid-Sept.			
	Black-and-White-Warbler	Early June – mid-July			
	Solitary Vireo (Blue-headed)	Late May – late July			
	Blue Jay	Early May – mid-July			
	Cedar Waxwing	Mid-June – early Sept.			
	Dark-eyed Junco	Early May – late Aug.			
	Nashville Warbler	Late May – late July			
	Osprey	May – July			
	Purple Finch	Early June – mid-Aug.			
	Red-breasted Nuthatch	Mid-May – late July			
	Red-eyed Vireo	Early June – early Aug.			
	Swamp Sparrow	Late May – mid-July			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Yellow-rumped Warbler	Mid-May – early June			
Other Wildlife	Good amphibian habitat, not large enough to be significant habitat for other wildlife				
Hydrologic Character	Likely surface water driven, seasonally flooded.				
Hydrogeologic Character	Underlain by north south folds of Goldenville Formation. Surface water drainage expected to follow lowlying ridge valley and swales form where drainage impeded.				
Plant List	<i>Abies balsamea</i>	Balsam Fir	S5	Green	FAC
	<i>Alnus incana</i>	Speckled Alder	S5	Green	FACU
	<i>Betula alleghaniensis</i>	Yellow Birch	S5	Green	FAC
	<i>Carex trisperma</i>	Three-Seed Sedge	S5	Green	OBL
	<i>Coptis trifolia</i>	Goldthread	S5	Green	FACW
	<i>Cornus canadensis</i>	Dwarf Dogwood	S5	Green	FAC-
	<i>Dryopteris cristata</i>	Crested Shield-Fern	S5	Green	FAC-
	<i>Ilex verticillata</i>	Canada Berry	S5	Green	FACW+
	<i>Kalmia angustifolia</i>	Sheep-Laurel	S5	Green	FAC
	<i>Maianthemum canadense</i>	Wild Lily-of-The-Valley	S5	Green	FAC-
	<i>Osmunda cinnamomea</i>	Cinnamon Fern	S5	Green	FACW
	<i>Picea mariana</i>	Black Spruce	S5	Green	FACW-
	<i>Rubus pubescens</i>	Dwarf Red Raspberry	S5	Green	FACW+
	<i>Viburnum nudum</i>	Possum-Haw Viburnum	S5	Green	OBL

T20

Result



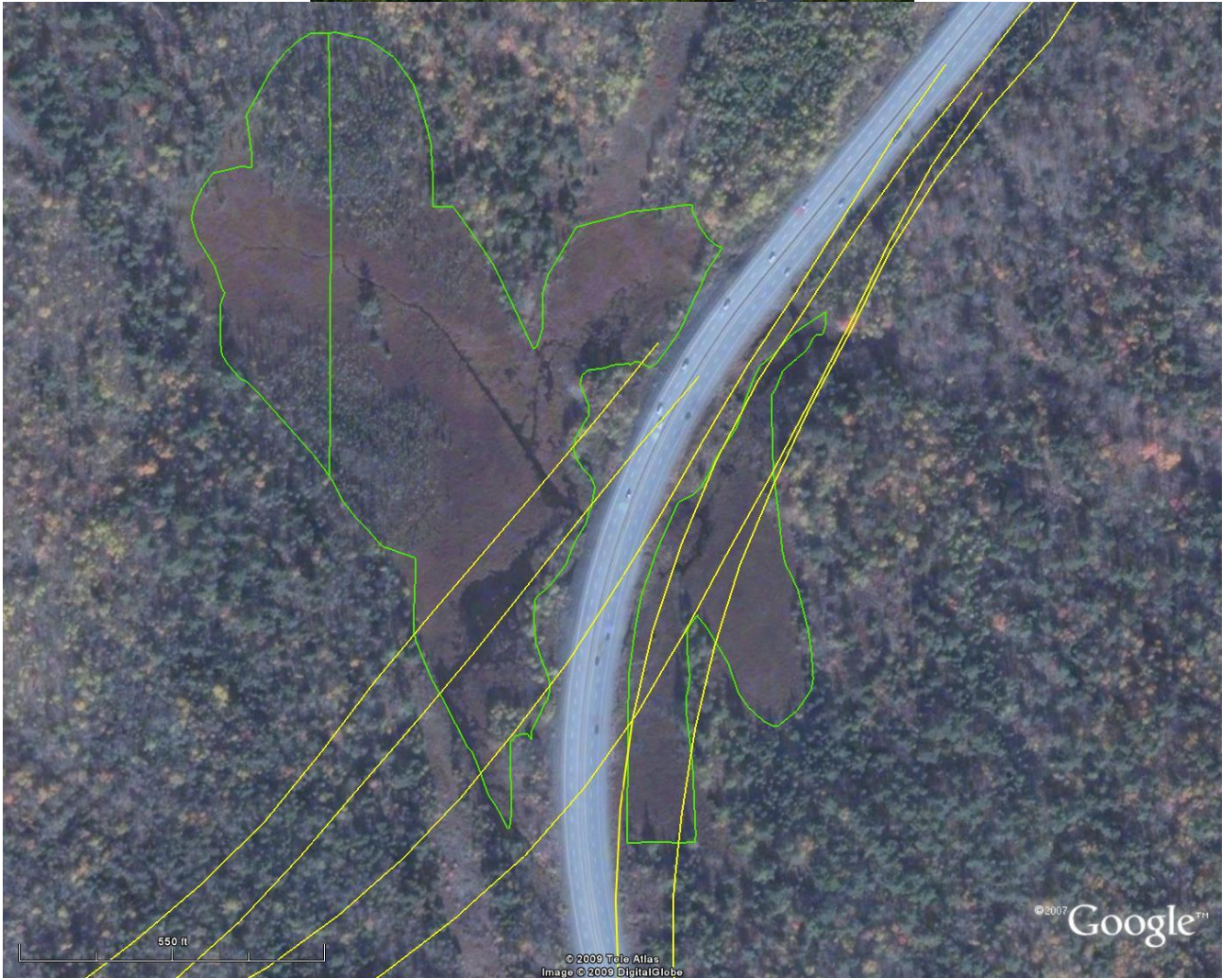
Google Earth - Showing Project Footprint (yellow) and Approximate Wetland (green)

Location	Centerpoint UTM 20T 0444616 4951506
Wetland Type	Shrub bog
Key Boundary	na
Property Owner	TIR

T20	Result				
Surrounding Land Use	Adjacent open bog and hydroline as well as BiHi				
Historic Impacts	Hydroline vegetation clearance				
Project Description	Within proposed ROW clearing (between lanes)				
Species at Risk	Unlikely.				
Fish and Fisheries	No fish habitat expected.				
Dominant/Characteristic Vegetation	Leatherleaf, Sheep-laurel, Common Labrador Tea, Sweet Bayberry, Black Spruce, Narrow-leaved Meadow-sweet				
Birds and Nesting Periods (from nearest survey site; may include edge and adjacent forest species)	American Black Duck	Apr. – July			
	American Goldfinch	Late June – mid-Sept.			
	Black-and-White-Warbler	Early June – mid-July			
	Solitary Vireo (Blue-headed)	Late May – late July			
	Blue Jay	Early May – mid-July			
	Cedar Waxwing	Mid-June – early Sept.			
	Dark-eyed Junco	Early May – late Aug.			
	Nashville Warbler	Late May – late July			
	Osprey	May – July			
	Purple Finch	Early June – mid-Aug.			
	Red-breasted Nuthatch	Mid-May – late July			
	Red-eyed Vireo	Early June – early Aug.			
	Swamp Sparrow	Late May – mid-July			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Yellow-rumped Warbler	Mid-May – early June			
Other Wildlife	Fair herpetile habitat, not large enough to be significant habitat for other wildlife (berries suitable for range of species)				
Hydrologic Character	Likely surface water driven, seasonally flooded.				
Hydrogeologic Character	Higher area adjacent lowlying bog, influenced by periodic periods of inundation.				
Plant List	<i>Abies balsamea</i>	Balsam Fir	S5	Green	FAC
	<i>Acer rubrum</i>	Red Maple	S5	Green	FAC
	<i>Amelanchier sp</i>	Serviceberry	S5	Green	NI
	<i>Betula populifolia</i>	Gray Birch	S5	Green	FAC
	<i>Carex nigra</i>	Black Sedge	S5	Green	FACW+
	<i>Carex stricta</i>	Tussock Sedge	S5	Green	OBL
	<i>Chamaedaphne calyculata</i>	Leatherleaf	S5	Green	OBL
	<i>Epigaea repens</i>	Trailing Arbutus	S5	Green	NI
	<i>Gaultheria procumbens</i>	Teaberry	S5	Green	FACW
	<i>Juniperus communis</i>	Ground Juniper	S5	Green	NI
	<i>Kalmia angustifolia</i>	Sheep-Laurel	S5	Green	FAC
	<i>Larix laricina</i>	American Larch	S5	Green	FACW-
	<i>Ledum groenlandicum</i>	Common Labrador Tea	S5	Green	OBL
	<i>Myrica gale</i>	Sweet Bayberry	S5	Green	OBL
	<i>Myrica pensylvanica</i>	Northern Bayberry	S5	Green	FAC
	<i>Nemopanthus mucronata</i>	False Mountain Holly	S5	Green	OBL
	<i>Osmunda cinnamomea</i>	Cinnamon Fern	S5	Green	FACW
	<i>Photinia melanocarpa</i>	Black Chokeberry	S5	Green	FAC
	<i>Picea mariana</i>	Black Spruce	S5	Green	FACW-
	<i>Pinus strobus</i>	Eastern White Pine	S5	Green	FACU
	<i>Rhododendron canadense</i>	Rhodora	S5	Green	FACW
	<i>Rubus pubescens</i>	Dwarf Red Raspberry	S5	Green	FACW+
	<i>Spiraea alba</i>	Narrow-Leaved Meadow-Sweet	S5	Green	FAC+
	<i>Vaccinium angustifolium</i>	Late Lowbush Blueberry	S5	Green	FACU-
	<i>Vaccinium oxycoccos</i>	Small Cranberry	S5	Green	OBL
	<i>Viburnum nudum</i>	Possum-Haw Viburnum	S5	Green	OBL

WL-16 (WC9)

Result



Google Earth - Showing Project Footprint (yellow) and Approximate Wetland (green)

Location	Centerpoint UTM 20T 0444705 4951654
Wetland Type	Open water, meadow, shrub swamp, bog
Key Boundary	BiHi (102) bisects

WL-16 (WC9)	Result				
Property Owner	TIR				
Surrounding Land Use	Forested, hydroline, BiHi				
Historic Impacts	BiHi affects drainage (two culverts); powerlines traverse				
Project Description	Connection to BiHi (102)				
Species at Risk	Potential brook trout (DNR yellow) and American eel (COSEWIC Special Concern)				
Fish and Fisheries	Fish habitat present				
Dominant/Characteristic Vegetation	Leatherleaf, Sheep-laurel, Pale Laurel, Sweet Bayberry, Rhodora, Meadow-sweet				
Birds and Nesting Periods (from nearest survey site; may include edge and adjacent forest species)	American Black Duck	Apr. – July			
	American Goldfinch	Late June – mid-Sept.			
	Black-and-White-Warbler	Early June – mid-July			
	Solitary Vireo (Blue-headed)	Late May – late July			
	Blue Jay	Early May – mid-July			
	Cedar Waxwing	Mid-June – early Sept.			
	Dark-eyed Junco	Early May – late Aug.			
	Nashville Warbler	Late May – late July			
	Osprey	May – July			
	Purple Finch	Early June – mid-Aug.			
	Red-breasted Nuthatch	Mid-May – late July			
	Red-eyed Vireo	Early June – early Aug.			
	Swamp Sparrow	Late May – mid-July			
	White-throated Sparrow	Mid-May – mid-Aug.			
	Yellow-rumped Warbler	Mid-May – early June			
Other Wildlife	Fair to good herpetile habitat, berries suitable for range of species				
Hydrologic Character	Stream inputs (tributary to Paper Mill Lake); localized low point; drainage disrupted by BiHi				
Hydrogeologic Character	Underlain by north/south trending folds in Goldenville Formation.				
Plant List	<p>West side of Highway 102 Aquatics (Shrubs same as T20 above)</p> <p><i>Lysimachia terrestris</i> Swamp Loosestrife S5 Green OBL <i>Nuphar lutea ssp. variegata</i> Yellow Cowlily S5 Green OBL <i>Sparganium americanum</i> American Bur-Reed S5 Green OBL <i>Utricularia cornuta</i> Horned Bladderwort S5 Green OBL</p> <p>East side of Highway 102 <i>Carex echinata</i> Little Prickly Sedge S5 Green OBL <i>Carex oligosperma</i> Few-Seeded Sedge S5 Green OBL <i>Carex stricta</i> Tussock Sedge S5 Green OBL <i>Chamaedaphne calyculata</i> Leatherleaf S5 Green OBL <i>Drosera rotundifolia</i> Roundleaf Sundew S5 Green OBL <i>Glyceria striata</i> Fowl Manna-Grass not a sp. at risk Green OBL <i>Kalmia angustifolia</i> Sheep-Laurel S5 Green FAC+ <i>Kalmia polifolia</i> Pale Laurel S5 Green OBL <i>Ludwigia palustris</i> Marsh Seedbox S5 Green OBL <i>Myrica gale</i> Sweet Bayberry S5 Green OBL <i>Nuphar lutea</i> Yellow Pond-Lily not a sp. at risk Green OBL <i>Rhododendron canadense</i> Rhodora S5 Green FACW <i>Sarracenia purpurea</i> Northern Pitcher-Plant S5 Green OBL <i>Spiraea alba</i> Narrow-Leaved Meadow-Sweet S5 Green FAC+ <i>Carex echinata</i> Little Prickly Sedge S5 Green OBL</p>				