

Appendix A Project Contact List

CL - First Nations and Métis Communities

Ref. no.	Organisation	First name	Last name	Main position	Main address	Main email	Main phone
I-09385	Beaverhouse First Nation	Beaverhouse First Nation	Director of operations	Beaverhouse First Nation (Director of Operations)	PO Box 1022 Kirkland Lake ON P2N 3L1	directorofoperations@fn.com	705-567-2022
I-02436	Beaverhouse First Nation	Marcia Brown	Martel	Beaverhouse First Nation	PO Box 1022 Kirkland Lake ON P2N 3L1	mssmbmartel@icloud.com	705-567-2022
I-09386	Beaverhouse First Nation	Beaverhouse First Nation	Reception	Beaverhouse First Nation (Reception)	PO Box 1022 Kirkland Lake ON P2N 3L1	reception@beaverhousefn.com	705-567-2022
I-05872	Beaverhouse First Nation	Marlene	Souriol	Beaverhouse First Nation	26 Station Road North PO Box 1022 Kirkland Lake ON P2N 3L1	reception@beaverhousefn.com	705-567-2022
I-02437	Beaverhouse First Nation	Nancy	Wabie	Beaverhouse First Nation (Band Manager)	PO Box 1022 Kirkland Lake ON P2N 3L1	bhfn@ntl.sympatico.ca	705-642-5074
I-03276	Beaverhouse First Nation	Wayne	Wabie	Beaverhouse First Nation (Chief)	26 Station Road P.O. Box 1022 Kirkland Lake ON P2N 3L1	chief@beaverhousefn.com	705-567-2022
I-02441	Matachewan First Nation	Marilyn	Groulx	Matachewan First Nation (Band Manager)	PO Box 160 Matachewan ON P0K 1M0	bandmanager@mfnez.ca	705-565-2230 Ext 224
I-01521	Matachewan First Nation	Cathy	Yandeau	Matachewan First Nation (Lands & Resources Coordinator)	P.O. Box 160 Matachewan ON P0K 1M0	landsresources@mfnez.ca	705-565-2230
I-11341	Métis Nation of Ontario (MNO)	Jennifer	Frappier	Métis Nation of Ontario (MNO) (Office Manager)	347 Spruce Street South Timmins ON P4N 2N2	jenniferf@metisnation.org	
I-05200	Métis Nation of Ontario (MNO)	Andy	Lefebvre	Métis Nation of Ontario (MNO) (Mineral Development Advisor)	347 Spruce Street South Timmins ON P4N 3W7	andyl@metisnation.org	705-264-3939 ext. 232
I-01262	Métis Nation of Ontario (MNO)	Consultation Unit	(MNO)	Métis Nation of Ontario (MNO) (General Mailbox)		consultations@metisnation.org	613-798-1488
I-00245	Missanabie Cree First Nation	Candace	McCormick	Missanabie Cree First Nation (Office Manager)		officemanager@ndevcorp.ca	(807) 486-3407
I-01633	Northern Lights Métis Council	Urgel	Courville	Northern Lights Métis Council (President)	261 3rd Ave., Unit 1 Cochrane ON P0L 1C0	urgel1@hotmail.com	705-272-3883
I-09573	Shared Value Solutions Ltd	Chris	Wagner	Shared Value Solutions Ltd (Ecologist)	62 Baker Street Guelph ON N1H 4G1	chris.wagner@sharedvaluesolutions.com	(226) 706 8888
I-00142	Taykwa Tagamou Nation (TTN)	Bruce	Archibald	Taykwa Tagamou Nation (TTN) (Chief)	R.R. #2, P.O. Box 3310, COCHRANE, P0L 1C0	bruce@taykwatagamou.com	(705) 272-5766
I-03977	Taykwa Tagamou Nation (TTN)	Derek	Archibald	Taykwa Tagamou Nation (TTN) (Councillor)	R.R.#2 Box 3310 Cochrane ON P0L 1C0	derek@taykwatagamou.com	705-272-5766
I-09524	Taykwa Tagamou Nation (TTN)	Howard	Archibald	Taykwa Tagamou Nation (TTN)	207 6th Street Cochrane ON P0L 1C0	howard@taykwatagamou.com	
I-09523	Taykwa Tagamou Nation (TTN)	Mark	Garfield	Taykwa Tagamou Nation (TTN)	207 6th Street Cochrane ON P0L 1C0	garfield@taykwatagamou.com	
I-02451	Taykwa Tagamou Nation (TTN)	Victor	Linklater	Taykwa Tagamou Nation (TTN) (Deputy Chief)	RR #2, Box 3310 Cochrane ON P0L 1C0	victor@taykwatagamou.com	
I-05591	Taykwa Tagamou Nation (TTN)	Keegan	Mcgrath	Taykwa Tagamou Nation (TTN) (Fisheries and Aquatic Biologist, Environmental Consultant)	62 Baker Street Guelph ON N1H 4G1	keegan.mcgrath@sharedvaluesolutions.com	226-706-8888 ext. 123
I-05883	Taykwa Tagamou Nation (TTN)	Justine	Morgan	Taykwa Tagamou Nation (TTN) (Executive Assistant)	207 6th Street Cochrane ON P0L 1C0	justine@taykwatagamou.com	(705) 465-8272
I-04174	Taykwa Tagamou Nation (TTN)	Dwight	Sutherland	Taykwa Tagamou Nation (TTN)		dwight@taykwatagamou.com	
I-04387	Taykwa Tagamou Nation (TTN)	Candice	Tourville	Taykwa Tagamou Nation (TTN) (Business Development Officer)	RR#2 Box 3310 Cochrane ON P0L 1C0	candice@taykwatagamou.com	705-272-5766
I-06257	Taykwa Tagamou Nation (TTN)	Liora	Zimmerman	Taykwa Tagamou Nation (TTN)		lzimmerman@oktlaw.com	416.981.1333
I-02448	Timmins Métis Council	Leanne	Larkin	Timmins Métis Council (Office Administrator)	347 Spruce Street South Timmins ON P4N 2N2	leanne@metisnation.org	705-264-3939 Ext 236
I-09384	Timmins Métis Council	Pete	Lefebvre	Timmins Métis Council (President)	347 Spruce Street South Timmins ON P4N 2N2	petele5@hotmail.com	
I-01644	Timmins Métis Council	Jacques	Picotte	Timmins Métis Council (President)		jacquesp@metisnation.org	705-264-3939
I-08672	Vires Capital VII	Mike	Gaul	Vires Capital VII (Senior Partner & Chief Relations)		mgaul@virescapital7.com	514.228.7582
I-07219	Wabun Tribal Council	Edadvisor	-	Wabun Tribal Council		edadvisor@wabun.on.ca	
I-06858	Wabun Tribal Council	Jason	Batise	Wabun Tribal Council (Executive Director)	Lot 44 Mattchewan ON P0K 1M0	jbatise@wabun.on.ca	705-565-2230
I-09558	Wabun Tribal Council	Chris	McKay	Wabun Tribal Council (Economic Development Advisor)		edadvisor@wabun.on.ca	
I-04021	Wahgoshig First Nation	Craig	Aldred	Wahgoshig First Nation (Governance Strategic / Energy Officer)	310 Penatuche Road Matheson ON P0K 1N0	caldred@wahgoshigfirstnation.com	705-273-2055
I-02452	Wahgoshig First Nation	Joel	Babin	Wahgoshig First Nation	310 Penatuche Road Matheson ON P0K 1N0	wfnchief@wahgoshigfirstnation.com	705-273-2055
I-10920	Wahgoshig First Nation	Juliet June Mary	Black	Wahgoshig First Nation (Chief)		wfnchief@wahgoshigfirstnation.com	
I-00286	Wahgoshig First Nation	Mylon	Ollila	Wahgoshig First Nation (Executive Director)		mylon.ollila@wahgoshigfirstnation.com	705-273-2055
I-02455		Bonnie	Bartlett			BonnieB@metisnation.org	416-977-9881 ext. 106
I-09237		David	Morris		310 Penatuche Road Matheson ON P0K 1N0	wahgoshig@wahgoshigfirstnation.com	

CL - Provincial Governmental Representatives and Agencies

Ref. no.	Organisation	First name	Last name	Main position	Main address	Main email	Main phone
I-08965	Ministry of the Environment, Conservation and Parks (MECP)	Agni	Papageorgiou	Ministry of the Environment, Conservation and Parks (MECP) (Project Review Supervisor (Acting))	135 Saint Clair Avenue West Toronto ON M4V 1P5	agni.papageorgiou@ontario.ca	416-268-0576
I-03915	Independent Electricity System Operator (IESO)	Jeffrey	Schnuerer	Independent Electricity System Operator (IESO) (Advisor, First Nation and Metis Relations)		jeffrey.schnuerer@ieso.ca	
I-04032	Independent Electricity System Operator (IESO)	Brett	Smith	Independent Electricity System Operator (IESO)	933 Ramsey Lake Road Investment Branch)	brett.smith@ieso.ca	
I-1801	Ministry of Energy, Northern Development and Mines	Tracey	Dawson-Kimmonen	Ministry of Energy, Northern Development and Mines (Director (A) - Transportation, Trade and Investment Branch)	933 Ramsey Lake Road Willie Green Miller Ctr 6th Flr	tracey.dawson-kimmonen@ontario.ca	705-670-3022
I-1802	Ministry of Energy, Northern Development and Mines	Jennifer	Paetz	Ministry of Energy, Northern Development and Mines (Initiatives Coordinator - Strategic Services Branch, Mines and Minerals Division)	933 Ramsey Lake Road 2nd Floor	jennifer.paetz@ontario.ca	705-690-8205
I-0408	Ministry of Energy, Northern Development and Mines	Clare	Pineau	Ministry of Energy, Northern Development and Mines (Initiatives Coordinator (Acting))	933 Ramsey Lake Road	clare.pineau@ontario.ca	705-561-6912
I-08657	Ministry of Energy, Northern Development and Mines	Mary	Perry	Ministry of Energy, Northern Development and Mines (Manager (Acting), Strategic Support Unit)	933 Ramsey Lake Rd Sudbury ON P3E 6B5	Mary.Perry@ontario.ca	705-690-0026
I-02587	Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI)	Karla	Barboza	Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) (Team Lead (Acting) - Heritage Planning, Culture Division)	400 University Avenue, 5th Floor, Toronto, Ontario, M7A 2R9	karla.barboza@ontario.ca	416-660-1027
I-10592	Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI)	Joseph	Harvey	Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) (Heritage Planner - Heritage Planning Unit)	4-2 Hwy 11 South	joseph.harvey@ontario.ca	613-242-3743
I-01682	Ministry of Natural Resources and Forestry (MNR)	Al	Winters	Ministry of Natural Resources and Forestry (MNR) (District Manager, Cochrane)	Cochrane ON P0L 1C0	al.winters@ontario.ca	705-272-7137
I-01683	Ministry of Natural Resources and Forestry (MNR)	Robin	Stewart	Ministry of Natural Resources and Forestry (MNR) (District Planner, Cochrane)	4-2 Hwy 11 South	robin.stewart@ontario.ca	705-272-7111
I-01702	Ministry of Natural Resources and Forestry (MNR)	Mike	Mazzetti	Ministry of Natural Resources and Forestry (MNR) (District Manager, Kirkland Lake)	1451 Government Rd W Cochrane ON P0L 1C0	mike.mazzetti@ontario.ca	705-568-3239
I-01703	Ministry of Natural Resources and Forestry (MNR)	Rick	Gordon	Ministry of Natural Resources and Forestry (MNR) (District Planner, Kirkland Lake)	1451 Government Rd W Sawatika ON P0K 1T0	rick.gordon@ontario.ca	705-568-3231
I-01704	Ministry of Natural Resources and Forestry (MNR)	Shaun	Walker	Ministry of Natural Resources and Forestry (MNR) (Resource Operations Supervisor, Kirkland Lake)	1451 Government Rd W Sawatika ON POK 1T0	shaun.walker@ontario.ca	
I-09401	Ministry of Natural Resources and Forestry (MNR)	Justin	Black	Ministry of Natural Resources and Forestry (MNR) (Lands & Water Technical Specialist (Acting))	145 Government Road West Kirkland Lake ON P2N 2E8	justin.black@ontario.ca	705-962-9857
I-02269	Ministry of the Environment, Conservation and Parks (MECP)	Andrew	Evers	Ministry of the Environment, Conservation and Parks (MECP) (Manager (A), Environmental Assessment Services)	135 St Clair Avenue West 1st Floor	andrew.evers@ontario.ca	416-314-7765
I-02459	Ministry of the Environment, Conservation and Parks (MECP)	Anamaria	Cross	Ministry of the Environment, Conservation and Parks (MECP) (Director (A) - Environmental Assessment Modernization Branch)	135 1st floor, St. Clair Avenue West Toronto ON M4V 1P5	anamaria.cross@ontario.ca	416-314-7967
I-02460	Ministry of the Environment, Conservation and Parks (MECP)	Mansoor	Mahmood	Ministry of the Environment, Conservation and Parks (MECP) (Manager - Approval Services, Environmental Assessment and Permissions Branch)	135 St Clair Ave W, 1st Floor Toronto ON M4V 1P5	mansoor.mahmood@ontario.ca	416-314-3636
I-02463	Ministry of the Environment, Conservation and Parks (MECP)	Carroll	Leith	Ministry of the Environment, Conservation and Parks (MECP) (Manager - Timmins District Office, Northern Region)	South Forcpine ON P0N 1H0 Ontario Government Complex, 5520 Hwy 101 E, PO Bag 3080	carroll.leith@ontario.ca	705-235-1506
I-05299	Ministry of the Environment, Conservation and Parks (MECP)	EA Notification	Northern Region	Ministry of the Environment, Conservation and Parks (MECP) (General Mailbox)	435 James Street S Suite 311 Thunder Bay ON P7E 6S7	eanotification.nregion@ontario.ca	807-475-1205
I-05446	Ministry of the Environment, Conservation and Parks (MECP)	Megan	Inacio	Ministry of the Environment, Conservation and Parks (MECP) (Administrative Assistant - Environmental Assessment and Permissions Branch)	135 Saint Clair Avenue West Toronto ON M4V 1P5	megan.inacio@ontario.ca	416-314-7040
I-08096	Ministry of the Environment, Conservation and Parks (MECP)	Kathleen	O'Neill	Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment Branch)	135 St. Clair Avenue West Toronto ON M4V 1P5	kathleen.oneill@ontario.ca	
I-09392	Ministry of the Environment, Conservation and Parks (MECP)	Shelley	Wainio	Ministry of the Environment, Conservation and Parks (MECP) (Environmental Planner & EA Assessment Branch)	135 St. Clair Ave W Toronto ON M4V 1P5	shelley.wainio2@ontario.ca	705-507-5136
I-09491	Ministry of the Environment, Conservation and Parks (MECP)	Jordan	Hughes	Ministry of the Environment, Conservation and Parks (MECP) (Project Evaluator)	135 Saint Clair Avenue West Toronto ON M4V 1P5	Jordan.Hughes@ontario.ca	437-770-6953
I-09527	Ministry of the Environment, Conservation and Parks (MECP)	Environmental Approvals Access And Service	Integration Branch	Ministry of the Environment, Conservation and Parks (MECP) (Environmental Approvals Access and Service Integration Branch)	2 Saint Clair Avenue West 12A Floor Toronto ON M4V 1L5	EASISBGen@ontario.ca	416-314-8001
I-10355	Ministry of the Environment, Conservation and Parks (MECP)	Mark	Badali	Ministry of the Environment, Conservation and Parks (MECP) (Environmental Assessment Coordinator)	Toronto ON M4V 1L5	Mark.Badali1@ontario.ca	(416) 457-2155
I-10955	Ministry of the Environment, Conservation and Parks (MECP)	Katy	Potter	Ministry of the Environment, Conservation and Parks (MECP) (Supervisor Project Review Unit)		Katy.Potter@ontario.ca	416-804-2793
I-01806	Ministry of Transportation of Ontario (MTO)	John	Fraser	Ministry of Transportation of Ontario (MTO) (Manager - Engineering, Northeastern Region)	Ontario Government Building, Suite 301, 447 Mckeown Avenue North Bay ON P1B 9S9	john.fraser3@ontario.ca	705-497-5462
I-01650		Brittany	Woodhall		1st Floor, 135 St Clair Avenue West Toronto ON M4V 1P5	brittany.woodhall@ontario.ca	416-314-7212
I-01665		Barbara	Slattery		12-119 King Street West Hamilton ON L8P 4Y7	barbara.slattery@ontario.ca	905-521-7864
I-04367		Kimberly	Yu		135 Saint Clair Avenue West 1st Floor Toronto ON M4V 1P5	kimberly.yu@ontario.ca	416-314-7212
I-11481		Ryan	Herbrand		Toronto ON M4V 1P5	Ryan.Herbrand@ontario.ca	

CL - Municipal Governmental Representatives and Agencies

Ref. no.	Organisation	First name	Last name	Main position	Main address	Main email	Main phone
I-06121	Town of Kirkland Lake	Pat	Kiely	Town of Kirkland Lake (Mayor)	3 Kirkland Street West Kirkland Lake ON P2N 3P4	pat.kiely@tkl.ca	705-567-9361 ext. 236
I-09560	Town of Kirkland Lake	Meagan	Elliott	Town of Kirkland Lake		Meagan.Elliott@tkl.ca	
I-06072	Township of Black River-Matheson	Gilles	Laderoute	Township of Black River-Matheson (Mayor)	429 Park Lane PO Box 601 Matheson ON P0K 1N0	brmmayor@blackriver-matheson.com	705-232-0836
I-09396	Town of Iroquois Falls	Town of Iroquois Falls	Public Works Department	Town of Iroquois Falls (Public Works Department)	535 Ambridge Drive Iroquois Falls ON P0K 1G0	publicworks@iroquoisfalls.com	(705) 232-6391
I-09395	Town of Kirkland Lake	Ashley	Bilodeau	Town of Kirkland Lake		ashley.bilodeau@tkl.ca	
I-11338	Town of Kirkland Lake	Don	Studholme	Town of Kirkland Lake (Interim Chief Administrative Officer)	3 Kirkland Street West, Kirkland Lake, Ontario, Canada, P2N	don.studholme@tkl.ca	7055679361
I-11339	Town of Kirkland Lake	Wilfred	Hass	Town of Kirkland Lake (Director of Tourism and Economic Development)	3 Kirkland Street West, Kirkland Lake, Ontario, Canada, P2N	wilfred.hass@tkl.ca	7055679361
I-09399	Township of Black River-Matheson	Christopher	Ciarrocca	Township of Black River-Matheson (Acting Director of Works and Operations)	429 Park Lane Matheson ON P0K 1N0	dwo@blackriver-matheson.com	(705) 273-2313 ext 318
I-11340	Township of Black River-Matheson	Cassandra	Childs	Township of Black River-Matheson (Treasurer)	429 Park Lane P.O. Box 601 Matheson ON P0K 1N0	treasurer@blackriver-matheson.com	(705) 273-2313 ext 311

CL - Interest Groups, Businesses, School Boards, EMS and Tx Customers

Ref. no.	Organisation	First name	Last name	Main position	Main address	Main email	Main phone
I-09394	Golden Corridor Snowdrifters	Golden Corridor Snowdrifters	Snowmobile Club	Golden Corridor Snowdrifters	31 Duncan Avenue North Kirkland Lake ON P2N 3N8	gcsd@ontera.net	705-567-1449
I-09393	Ontario Northland Transportation Commission	Drew	Duquette	Ontario Northland Transportation Commission (Vice President of Transportation)	555 Oak Street East North Bay ON P1B 8E3	drew.duquette@ontarionorthland.ca	1.705.472.4500
I-09390	Ontario Northland Transportation Commission	John	Thib	Ontario Northland Transportation Commission (Vice President)	555 Oak Street East North Bay ON P1B 8E3	john.thib@ontarionorthland.ca	
I-02472	Timiskaming Abitibi Trail Association (OFSC District 14)	Gilbert	Fortin	Timiskaming Abitibi Trail Association (OFSC District 14) (District President)	171 Irroquois Road, PO Box 197, Timmins, Ontario, Canada	tata@ntl.sympatico.ca	705-268-0049

Appendix B Consultation Materials

Hydro One Networks Inc.
483 Bay Street
North Tower, 12th Floor
Toronto, Ontario, M5G 2P5
www.HydroOne.com

Tel: 416-345-4385
Email: Sarah.Cohanim@HydroOne.com



Sarah Cohanim
Environmental Planner, Environmental Services

June 25, 2018

Chief Joel Babin
Wahgoshig First Nation
R.R. #3
Matheson, ON P0K 1N0

**Sample of Notice of
Commencement sent to
Contact List**

Re: Class Environmental Assessment for the Planned 115 Kilovolt Transmission Line Refurbishment (Circuits A8K/A9K) in the Districts of Timiskaming and Algoma

Dear Chief Babin,

I am writing to inform you that Hydro One Networks Inc. (Hydro One) is initiating a Class Environmental Assessment (Class EA) to refurbish its existing 115 kilovolt (kV) transmission infrastructure on circuits A8K and A9K. The refurbishment would be undertaken along the transmission line between Kirkland Lake Transformer Station (TS) and the transmission line junction located in Val Gagné. The project area, shown on the attached map, spans from the Town of Kirkland Lake, Timiskaming District (Unorganized), Cochrane District (Unorganized), to the Township of Black River-Matheson.

The transmission line is nearing its end of life and has been designated for refurbishment. The proposed project would involve the replacement and/or modification of a number of aging/damaged wood pole and steel lattice structures, and the replacement of the conductor (wire) along the existing right-of-way. In addition, the overhead shield wire will be replaced. Shield wire does not carry electricity and, in addition to housing fibre optic cables, serves to protect the equipment from lightning strikes. Undertaking this refurbishment is required to ensure the continued reliability and integrity of the transmission lines and electricity supply to homes and businesses in the region.

We anticipate most of this work would be carried out within the existing transmission right-of-way. Where possible, access to the transmission structures would be achieved using existing access roads and trails. There would be little noticeable difference in the appearance of the transmission line after the project has been completed.

The proposed transmission line refurbishment is subject to the Class EA for Minor Transmission Facilities (Hydro One, 2016), in accordance with the Ontario *Environmental Assessment Act*. The Class EA is a streamlined planning process that has proven effective in ensuring minor transmission projects with a predictable range of effects have feasible environmental mitigation and/or protection

measures in place. The Class EA Process contains screening provisions that may apply to this project.

Contingent on the outcome of the Class EA process, construction could begin as early as May 2019 and be completed by September 2021.

We welcome your comments and feedback regarding this project; including information about areas that are culturally significant. If you are interested, we would be pleased to arrange a meeting to gather your input and discuss project details. Should there be any update to the project information provided, I will ensure you are promptly informed.

As per the request of the Minister of the Environment and Climate Change, information regarding the *Freedom of Information and Protection of Privacy Act* is included and can be viewed below.

If you have questions or would like additional information, please feel free to contact me at 416-345-4385 or Sarah.Cohanim@HydroOne.com. Your input for this project is valued and would be appreciated by August 24, 2018.

Sincerely,

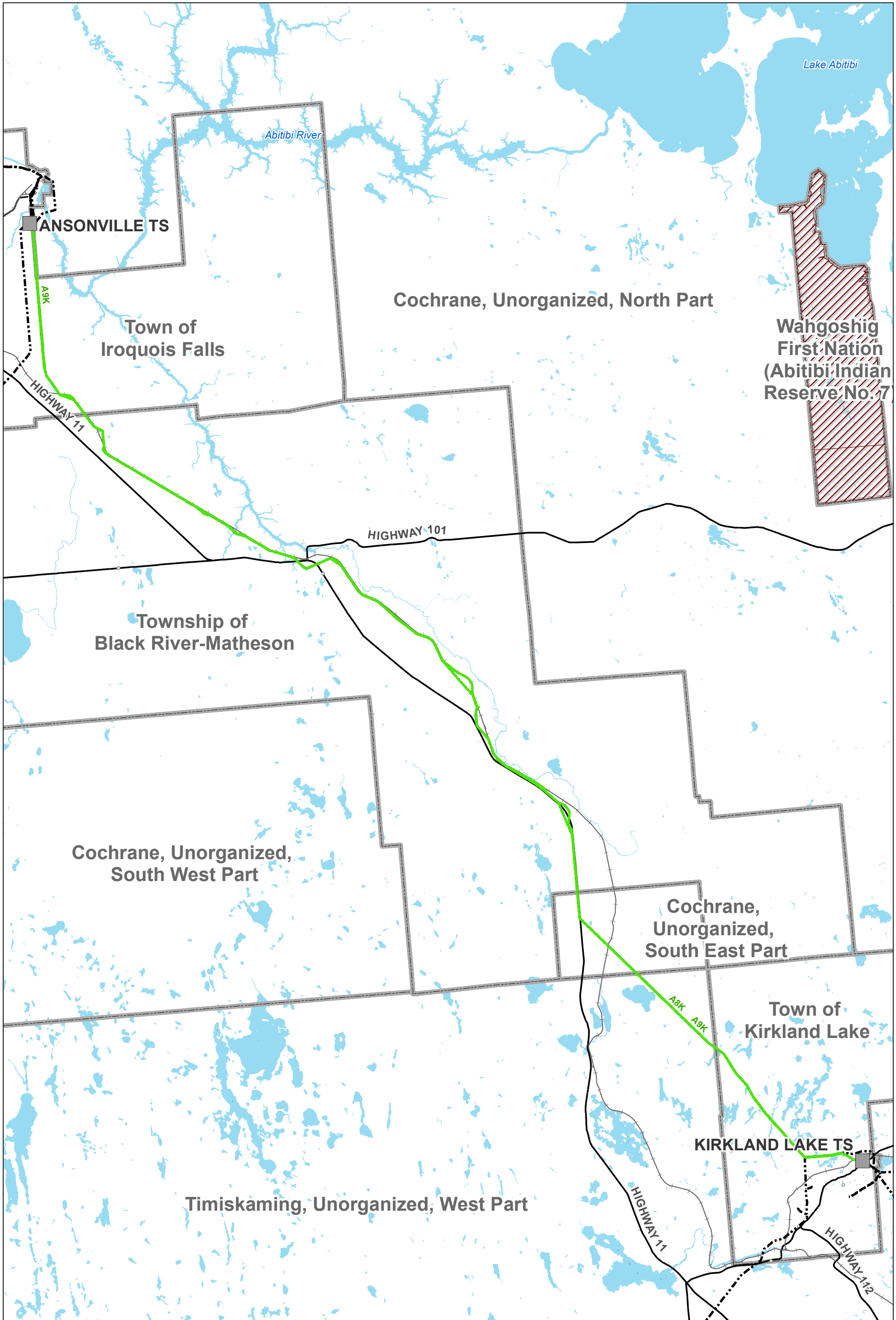
Sarah Cohanim
Environmental Planner
Hydro One Networks Inc.


Attachment (1): General Area Project Map

cc: Devi Shantilal, Sr. Advisor, Indigenous Relations, Hydro One Networks Inc.

Freedom of Information and Protection of Privacy Act

All personal information included in a submission – such as name, address, telephone number and property location – is collected, maintained and disclosed by the Ministry of the Environment and Climate Change for the purpose of transparency and consultation. The information is collected under the authority of the *Environmental Assessment Act* or is collected and maintained for the purpose of creating a record that is available to the general public as described in s. 37 of the *Freedom of Information and Protection of Privacy Act*. Personal information you submit will become part of a public record that is available to the general public unless you request that your personal information remain confidential. For more information, please contact the Ministry of the Environment and Climate Change's Freedom of Information and Privacy Coordinator at 416-327-1434.





 Produced By: Hydro One









 Date: June 29, 2020

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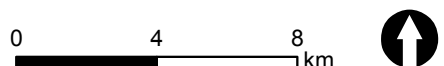
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-  Transformer Station
-  115 kV Transmission Line (Circuit A8K/A9K)
-  Other Transmission Line
-  Highway
-  Railway
-  First Nation Reserve
-  Municipal Boundary
-  Waterbody

A8K/A9K Transmission Line Refurbishment Project: Overview Area Map

0 4 8 km



1:215,000

SARAH COLE

Environmental Planner
Environmental Programs and Approvals
Hydro One Networks Inc.

July 8, 2020

Chief Jason Batisse
Matachewan First Nation
P.O Box 160
Matachewan, ON P0K 1M0

**Sample of Project
Update sent to
Indigenous Communities**

Re: Project Update: 115 Kilovolt Transmission Line Refurbishment (Circuits A8K/A9K) in the Districts of Timiskaming and Algoma

Dear Chief Batisse,

I am writing in follow-up to our previous project notice regarding Hydro One's planned 115 Kilovolt (kV) Transmission Line Refurbishment Project on circuits A8K/A9K.

As you may recall from the original notice sent on June 25, 2018, Hydro One is planning to refurbish its existing 115 kV transmission infrastructure on circuits A8K and A9K. The refurbishment would be undertaken along the transmission line between Kirkland Lake Transformer Station (TS) and Ansonville TS. The project area, shown on the attached map, spans from the Town of Kirkland Lake, Timiskaming District (Unorganized), Cochrane District (Unorganized), the Township of Black River-Matheson, to the Town of Iroquois Falls.

The transmission line is nearing its end of life and has been designated for refurbishment. In addition, IESO requires an ampacity increase on circuits A8K/A9K as it would be cost-beneficial in the long run for the system. Ampacity refers to the current that a conductor (wire) carries. The proposed project would involve the replacement and/or modification of a number of aging/damaged wood pole and steel lattice structures, and the replacement of the conductor (wire) along the existing right-of-way. In addition, the overhead shield wire will be replaced. Shield wire does not carry electricity and serves to protect the equipment from lightning strikes. Undertaking this refurbishment is required to ensure the continued reliability and integrity of the transmission lines and electricity supply to homes and businesses in the region.

Re: Project Update: 115 Kilovolt Transmission Line Refurbishment (Circuits A8K/A9K) in the Districts of Timiskaming and Algoma

We anticipate most of this work would be carried out within the existing transmission right-of-way. Where possible, access to the transmission structures would be achieved using existing access roads and trails. There would be little noticeable difference in the appearance of the transmission line after the project has been completed.

The proposed transmission line refurbishment is subject to the Class Environmental Assessment (EA) for Minor Transmission Facilities (Hydro One, 2016), in accordance with the Ontario *Environmental Assessment Act* which was initiated in June 2018. The EA is a streamlined process to ensure that transmission projects that have a predictable range of effects have feasible environmental mitigation and/or protection measures in place. The Class EA Process contains screening provisions that may apply to this project.

Contingent on the outcome of the Class EA process and S92 Leave to Construct approval from the Ontario Energy Board, construction could begin as early as August 2021 and be completed by September 2024.

We welcome your comments and feedback regarding this project update, including information about areas that are culturally significant. If you are interested, we would be pleased to arrange a web-based meeting to gather your input and discuss project details. If you have any questions, or would like additional information regarding this project, please contact me at (705) 238-7398 or Sarah.Cole@HydroOne.com. Your input for this project is valued and would be appreciated by September 04, 2020.

As per the request of the Ministry of the Environment, Conservation and Parks, information regarding the *Freedom of Information and Protection of Privacy Act* is included and can be viewed below.

Yours truly,

Hydro One Networks Inc.



Sarah Cole, Environmental Planner
Environmental Programs and Approvals
Office: 705-797-4192
Cell: 705-238-7398
Email: Sarah.Cole@HydroOne.com

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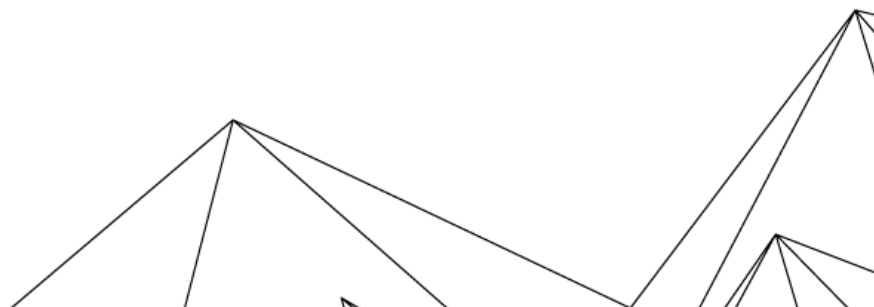
Re: Project Update: 115 Kilovolt Transmission Line Refurbishment (Circuits A8K/A9K) in the Districts of Timiskaming and Algoma

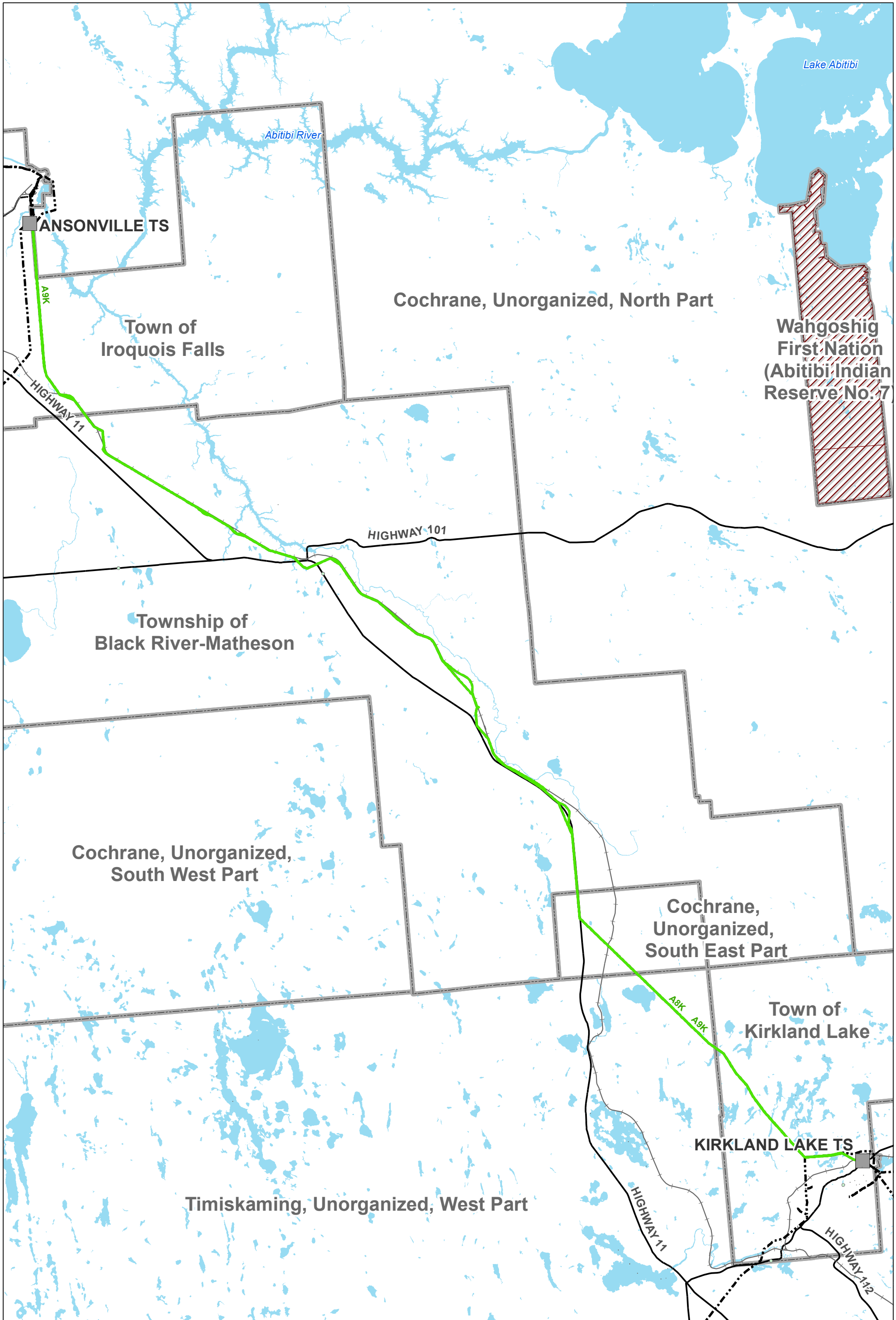
Attachment: General Project Area Map

CC: Marilyn Groulx, Band Manager, Matachewan First Nation
Devi Shantilal, Sr. Advisor, Indigenous Relations, Hydro One Networks Inc.

Freedom of Information and Protection of Privacy Act

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Produced By: Hydro One

 Date: June 29, 2020

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- Transformer Station
- 115 kV Transmission Line (Circuit A8K/A9K)
- Other Transmission Line
- Highway
- Railway
- First Nation Reserve
- Municipal Boundary
- Waterbody

A8K/A9K Transmission Line Refurbishment Project: Overview Area Map

0 4 8 km

1:215,000

SARAH COLE

Environmental Planner
Environmental Programs and Approvals
Hydro One Networks Inc.

July 30, 2020

Golden Corridor Snowdrifters
31 Duncan Ave N
Kirkland Lake, ON P2N 3N8

**Sample of Project
Update sent to
agencies, organizations
and interest groups**

Re: Project Update: 115 Kilovolt Transmission Line Refurbishment (Circuits A8K/A9K) in the Districts of Timiskaming and Algoma

To whom it may concern,

As a follow up to Hydro One's previous project notification in 2018, we would like to provide you with an update on the proposed project scope and new section added to the project area. The proposed project will include refurbishing the existing 115 Kilovolt (kV) transmission infrastructure on circuits A8K and A9K which runs between Kirkland Lake Transformer Station (TS) and Ansonville TS. The project area, as shown on the attached map, spans across the Town of Kirkland Lake, Timiskaming District (Unorganized), Cochrane District (Unorganized), the Township of Black River-Matheson, and the Town of Iroquois Falls. Undertaking this refurbishment will ensure the continued reliability and integrity of the transmission lines and electricity supply in the region.

The transmission line is nearing its end of life and has been designated for refurbishment. In addition, IESO requires an ampacity increase on circuits A8K/A9K as it would be cost-beneficial in the long run for the system. Ampacity refers to the current that a conductor (wire) carries. The proposed project would involve the replacement and/or modification of a number of aging/damaged wood pole and steel lattice structures, and the replacement of the conductor (wire) along the existing right-of-way. In addition, the overhead shield wire will be replaced. Shield wire does not carry electricity and serves to protect the equipment from lightning strikes.

We anticipate most of this work would be carried out within the existing transmission right-of-way. Where possible, access to the transmission structures would be achieved using existing access roads and trails. There would be little noticeable difference in the appearance of the transmission line after the project has been completed.

Re: Project Update: 115 Kilovolt Transmission Line Refurbishment (Circuits A8K/A9K) in the Districts of Timiskaming and Algoma

The proposed transmission line refurbishment is subject to the Class Environmental Assessment (EA) for Minor Transmission Facilities (Hydro One, 2016), in accordance with the Ontario *Environmental Assessment Act* which was initiated in June 2018. The EA is a streamlined process to ensure that transmission projects that have a predictable range of effects have feasible environmental mitigation and/or protection measures in place. The Class EA Process contains screening provisions that may apply to this project.

Contingent on the outcome of the Class EA process and S92 Leave to Construct approval from the Ontario Energy Board, construction could begin as early as August 2021 and be completed by September 2024.

If you have any questions, or would like additional information regarding this project, please contact me at (705) 238-7398 or Sarah.Cole@HydroOne.com. Your input for this project is valued and would be appreciated by September 15, 2020.

As per the request of the Ministry of the Environment, Conservation and Parks, information regarding the *Freedom of Information and Protection of Privacy Act* is included and can be viewed below.

Yours truly,

Hydro One Networks Inc.



Sarah Cole, Environmental Planner

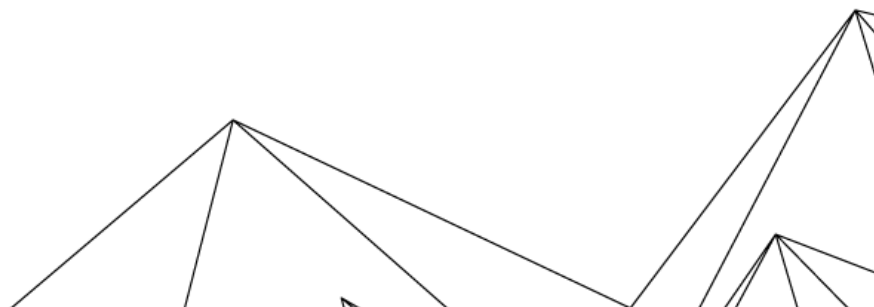
Environmental Programs and Approvals

Office: 705-797-4192

Cell: 705-238-7398

Email: Sarah.Cole@HydroOne.com

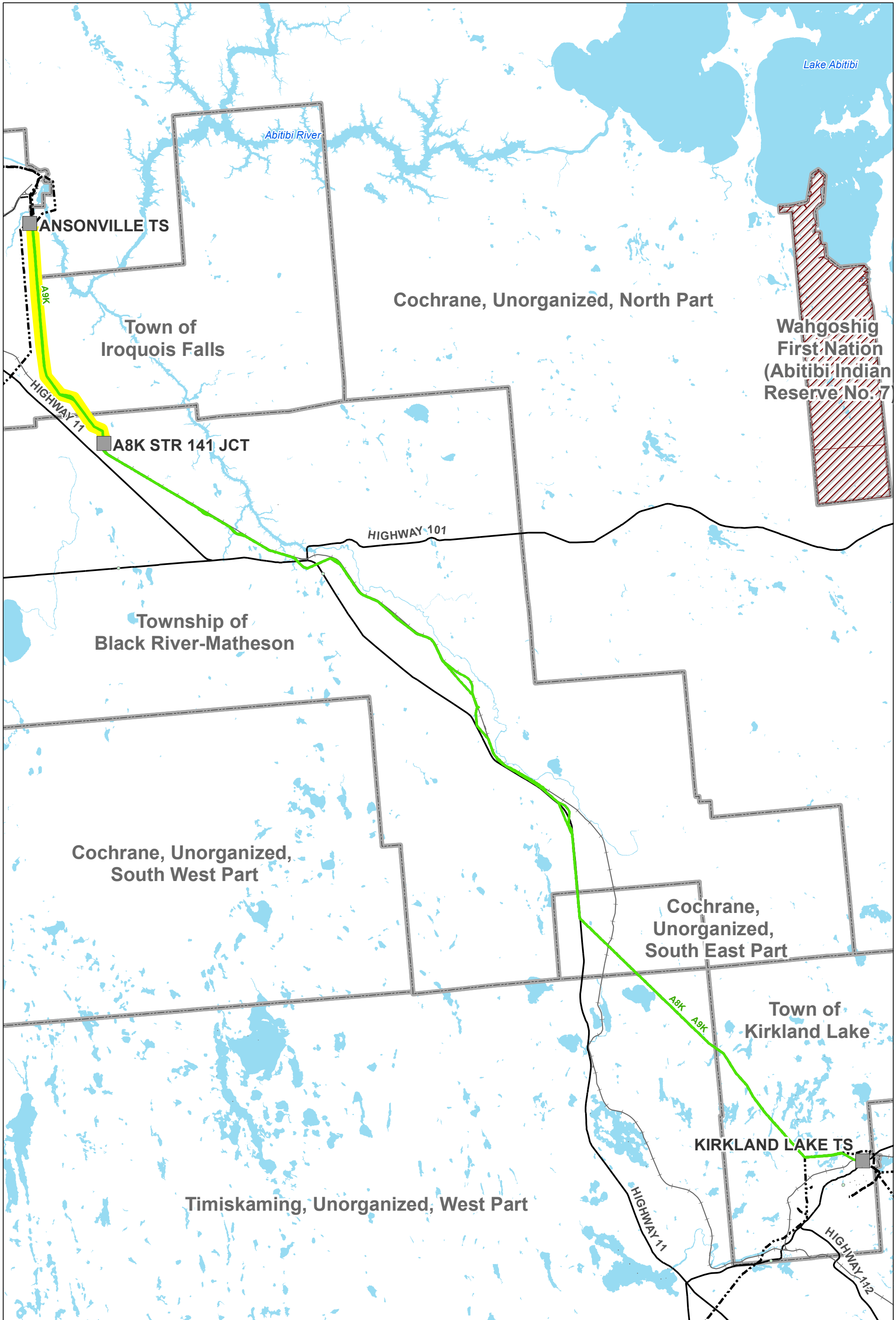
Attachment: General Project Area Map




Re: Project Update: 115 Kilovolt Transmission Line Refurbishment (Circuits A8K/A9K) in the Districts of Timiskaming and Algoma

Freedom of Information and Protection of Privacy Act

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 Produced By: Hydro One










 Date: June 29, 2020

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 Station or Junction	 Other Transmission Line	 First Nation Reserve
 115 kV Transmission Line (Circuit A8K/A9K)	 Highway	 Municipal Boundary
 New Section Added to Project Area	 Railway	 Waterbody

A8K/A9K Transmission Line Refurbishment Project: Overview Area Map

0 4 8 km



1:215,000

May 27, 2021

Deputy Chief Dave Morris
Wahgoshig First Nation
RR 3
Matheson, ON P0K 1N0
By Email

**Sample of Notice of
Project
Change sent to
Contact List**

**Re: NOTICE OF PROJECT CHANGE
Class Environmental Assessment for Minor Transmission Facilities
115 Kilovolt Transmission Line Refurbishment (Circuits A8K/A9K) in the Districts
of Timiskaming and Algoma**

Dear Deputy Chief Morris,

This letter is to inform you that there is a project change to the Class Environmental Assessment (EA) for the A8K/A9K Transmission Line Refurbishment project. This project is subject to the Class EA for Minor Transmission Facilities (Hydro One, 2016) in accordance with the Ontario Environmental Assessment Act and was initially assessed following the Class EA Screening Process initiated on July 16, 2018. The proposed work includes refurbishing the existing 115 Kilovolt (kV) transmission infrastructure on circuits A8K and A9K which runs between Kirkland Lake Transformer Station (TS) and Ansonville TS. Based on feedback received during the Class EA Screening Process, Hydro One will now assess the project following the Full Class EA Process.

The project area spans from the Town of Kirkland Lake, Timiskaming District (Unorganized), Cochrane District (Unorganized), to the Township of Black River-Matheson and the Town of Iroquois Falls, as shown on the attached map.

Project Description

The transmission line is nearing its end of life and has been designated for refurbishment. In addition, IESO requires an ampacity increase on circuits A8K/A9K as it would be cost-beneficial in the long run for the system. Ampacity refers to the current that a conductor (wire) carries. The proposed project would involve the replacement and/or modification of a number of aging/damaged wood pole and

Re: NOTICE OF PROJECT CHANGE
Class Environmental Assessment for Minor Transmission Facilities
115 Kilovolt Transmission Line Refurbishment (Circuits A8K/A9K) in the Districts of
Timiskaming and Algoma

steel lattice structures, and the replacement of the conductor (wire) along the existing right-of-way. In addition, the overhead shield wire will be replaced. Shield wire does not carry electricity and serves to protect the equipment from lightning strikes.

It is anticipated that most of this work would be carried out within the existing transmission right-of-way. Where possible, access to the transmission structures would be achieved using existing access roads and trails. There would be little noticeable difference in the appearance of the transmission line after the project has been completed.

Class Environmental Assessment Process and other Approval Processes

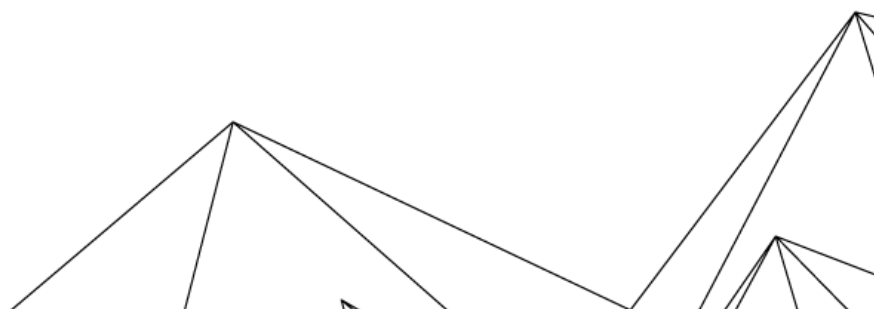
This project is subject to the Class EA for Minor Transmission Facilities (Class EA for MTF) in accordance with the Ontario *Environmental Assessment Act*. The Class EA for MTF is a streamlined process for planning transmission projects that have a predictable range of environmental effects and feasible mitigation measures that can be applied (www.hydroone.com/ClassEA).

Hydro One has identified a number of potential transmission alternatives for this transmission line refurbishment, which would meet the need for the project as identified by the IESO. During the Class EA process, these transmission alternatives will be assessed and evaluated on the basis of natural environment, socio-economic environment, and technical/cost factors to select the preferred alternative for the undertaking. The transmission alternatives include; (i) building a new 115 kV transmission line parallel to the existing and, (ii) not undertaking the refurbishment completely. These alternatives will form the basis for the Class EA study area. Available background data collection is planned to occur within 500 m on each side of the existing transmission line, and field studies are proposed to occur within approximately 120 m on each side.

The project will also require Leave to Construct approval under Section 92 of the *Ontario Energy Board Act*.

Once the Full Class EA and other approval processes have been successfully completed, construction could commence as early as January 2022 and be completed by Spring 2023.

A Virtual Community Information Centre (CIC) for the project is tentatively being planned for August, 2021, with specific details to follow.



**Re: NOTICE OF PROJECT CHANGE
Class Environmental Assessment for Minor Transmission Facilities
115 Kilovolt Transmission Line Refurbishment (Circuits A8K/A9K) in the Districts of
Timiskaming and Algoma**

We welcome your comments and feedback regarding this project; including information about areas that are culturally significant. If you are interested, we would be pleased to arrange a meeting to gather your input and discuss project details. Should there be any update to the project information provided, I will ensure you are promptly informed.

If you have any questions, or would like additional information regarding this project, please feel free to contact me at 705-238-7398 or Sarah.Cole@HydroOne.com.

Yours truly,

Hydro One Networks Inc.



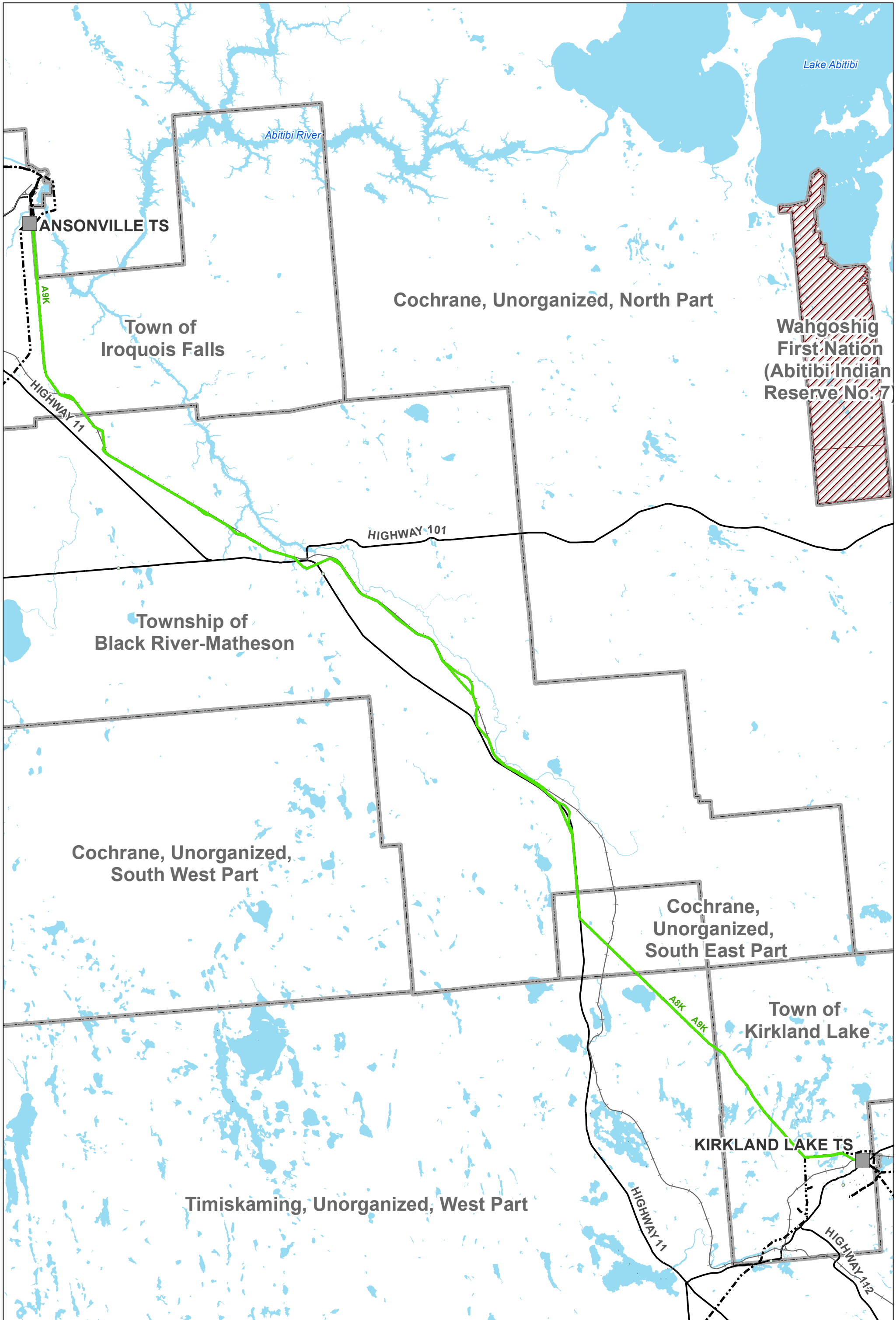
Sarah Cole, Environmental Planner
Environmental Services
Office: 705-797-4192
Mobile: 705-238-7398
Email: Sarah.Cole@HydroOne.com


Attachment: Project Area Map

CC: Craig Aldred, Governance/Energy Officer, Wahgoshig First Nation
Devi Shantilal, Manager, Indigenous Relations, Hydro One Networks Inc.

Freedom of Information and Protection of Privacy Act

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 Produced By: Hydro One









 Date: June 29, 2020

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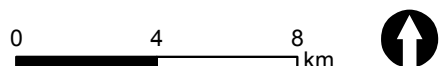
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-  Transformer Station
-  115 kV Transmission Line (Circuit A8K/A9K)
-  Other Transmission Line
-  Highway
-  Railway
-  First Nation Reserve
-  Municipal Boundary
-  Waterbody

A8K/A9K Transmission Line Refurbishment Project: Overview Area Map

0 4 8 km



1:215,000

**Sample of Notice of
Virtual Information
Session sent to
Contact List**



You're Invited to a virtual meeting

Hydro One is refurbishing a transmission line in the Districts of Timiskaming and Algoma

Hydro One invites you to join a virtual community meeting for an update on the A8K/A9K Transmission Line Refurbishment project. This transmission line is nearing its end of life and has been designated for refurbishment. In addition, the Independent Electricity System Operator (IESO) requires an ampacity increase on circuits A8K/A9K as it would be cost-beneficial in the long run for the system. Ampacity refers to the current that a conductor (wire) carries. The majority of work for the proposed project would involve the replacement and/or modification of a number of aging/damaged wood poles along with some steel lattice structures, and the replacement of the conductor and shieldwire along the existing right-of-way.

The project area spans from the Town of Kirkland Lake, Timiskaming District (Unorganized), Cochrane District (Unorganized), to the Township of Black River-Matheson and the Town of Iroquois Falls, as shown on the attached map.

During the meeting, project team members will present a brief overview on the project, the Class Environmental Assessment (EA) evaluation process, discuss next steps and be ready to answer questions.

Class Environmental Assessment Process and Project Change Notice

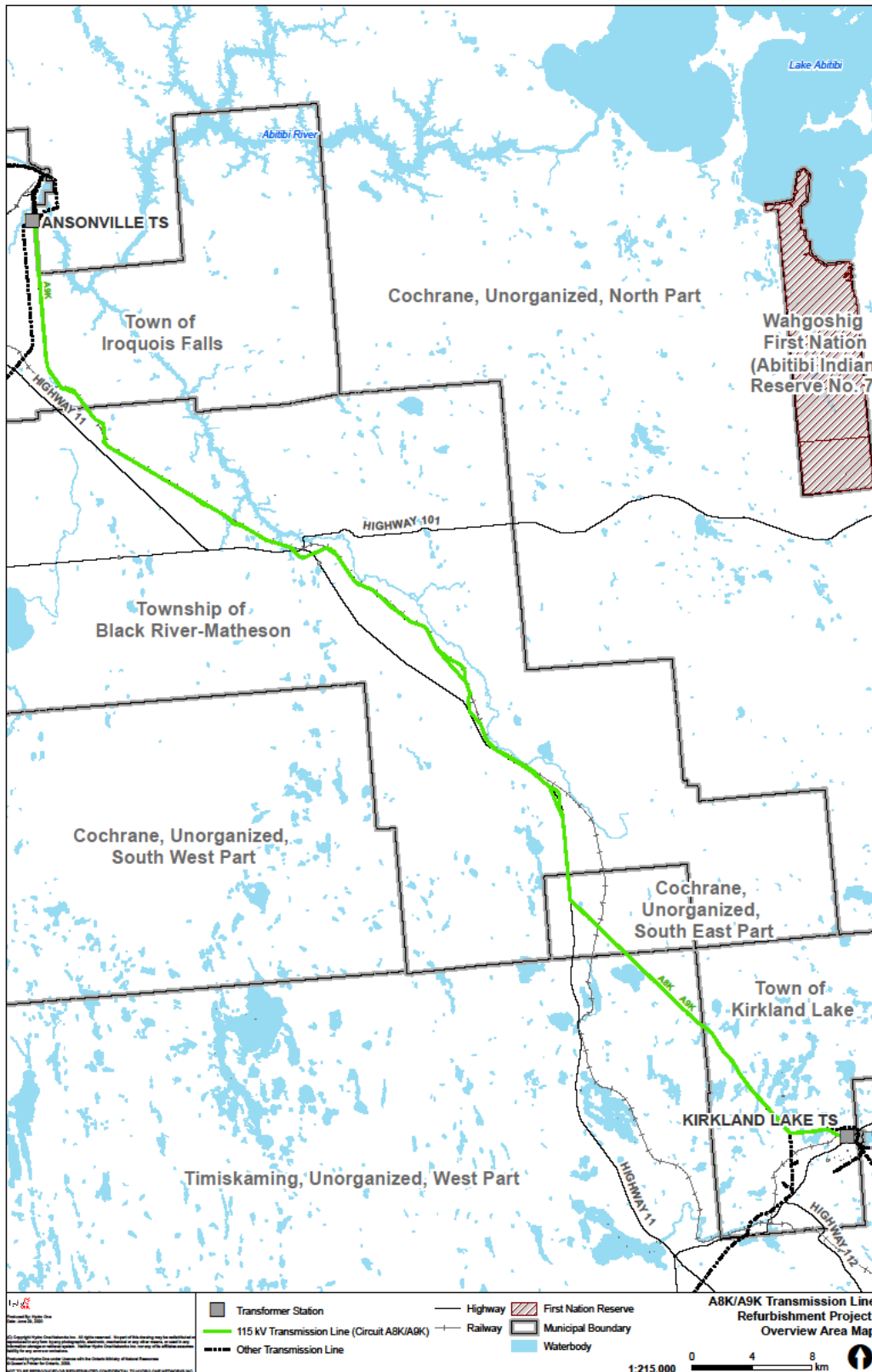
This project is subject to the Class EA for Minor Transmission Facilities (Hydro One, 2016) in accordance with the Ontario Environmental Assessment Act and was initially assessed following the Class EA Screening Process initiated on July 16, 2018. Based on feedback received during the Class EA Screening Process, Hydro One will now assess the project following the Full Class EA Process. Once the Full Class EA and other approval processes have been successfully completed, construction could commence as early as January 2022 and be completed by Spring 2023.

Find out more

Find out more about the work required or ask questions by contacting Hydro One's Community Relations team.

Si vous souhaitez recevoir une copie de cet avis en français, veuillez visiter le site Internet du projet ou envoyer un courriel au projet pour faire une demande.

Date	August 25, 2021 at 6:30 p.m.
To Register	Visit www.HydroOne.com/A8KA9K or, Email Community.Relations@HydroOne.com
Meeting Details	The virtual meeting will be hosted on the WebEx platform Register to receive log-in details



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Welcome to our project meeting

A8K/A9K Transmission Line Refurbishment Project

www.HydroOne.com/A8KA9K

August 25, 2021

How to participate tonight

- Have a question or comment?
 - Option 1 – Please type your question into the Q&A function
 - Option 2 – Participate in the live Question and Answer period at the end of the presentation by using the 'raise my hand' tool
 - Option 3 – following tonight's meeting please email your questions to Community.Relations@HydroOne.com
- Please be respectful of the presenters and fellow participants.



Tonight's agenda

- Introductions
- Project overview, location and schedule
- Indigenous Engagement
- Update on Class Environmental Assessment process
- Evaluation on Feasible Alternatives
- Live Q&A Session



Project overview

Undertaking this project will ensure the continued reliability and integrity of the transmission lines and electricity supply to homes and businesses in the region. The refurbishment would involve:

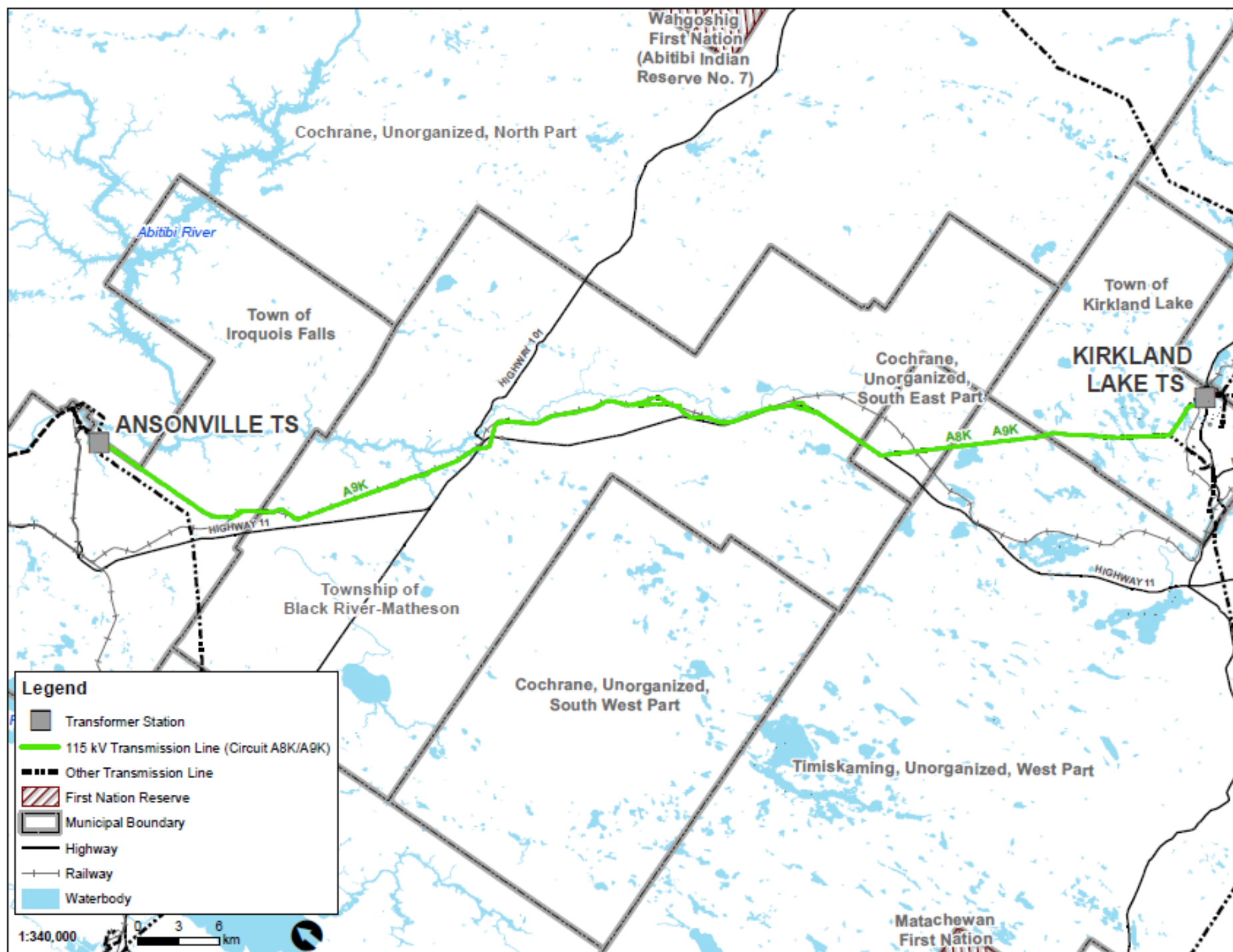
- Replacement and/or modification of aging/damaged wood pole structures
- Modification of aging/damaged steel lattice structures
- Replacement of the conductor (wire) along the existing right-of-way
- Replacement of overhead shield wire

These refurbishment activities are required to replace equipment that is nearing its end-of-life and to increase the ampacity (current) traveling through the conductors (wires).

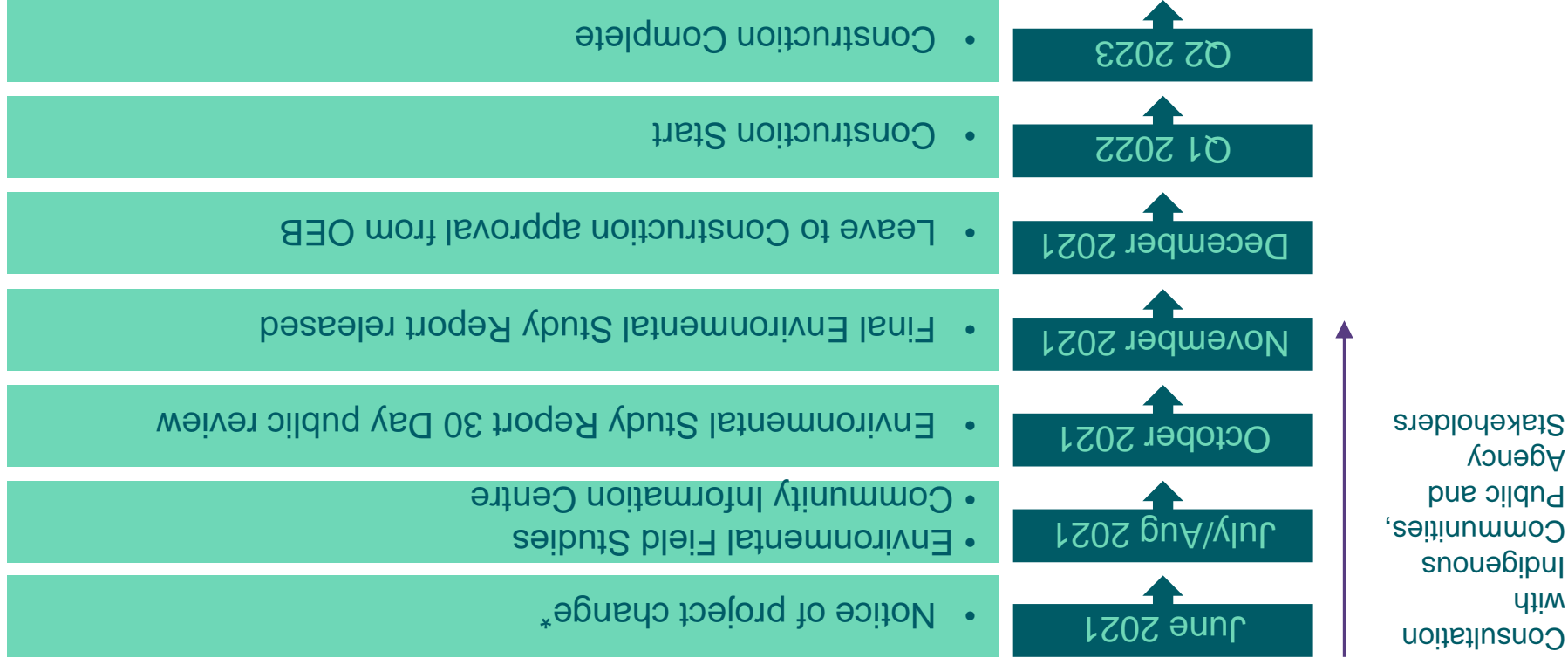
Project location

The project area spans from Ansonville Transmission Station (TS) in the Town of Iroquois Falls to Kirkland Lake TS in the Town of Kirkland Lake

The transmission line parallels Highway 11 for the majority of the expanse with some areas in remote locations



Project schedule and approvals



*The proposed transmission line refurbishment is subject to the Class Environmental Assessment for Minor Transmission Facilities (Hydro One, 2016), in accordance with the Ontario Environmental Assessment Act.



Indigenous engagement

Hydro One recognizes the importance of engagement with Indigenous communities.

Hydro One is committed to:

- Providing timely project information
- Meeting with community representatives and hosting project information sessions
- Engaging with communities to address project-specific concerns
- Supporting participating in project work such as monitoring in archaeological assessments

Hydro One is committed to supporting Indigenous participation on this project

- Contractor has been directed to provide procurement opportunities to Indigenous communities and businesses in the project area

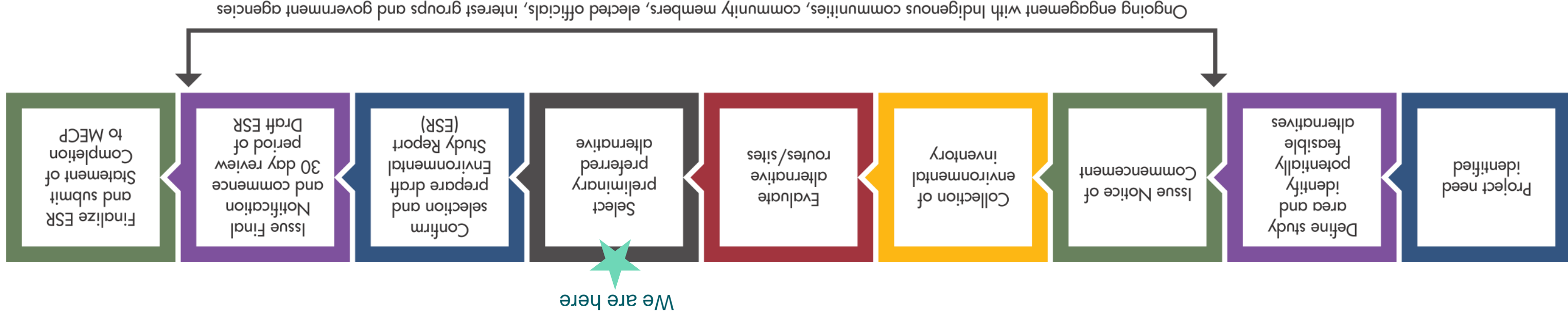
Hydro One will continue to work with communities to address any outstanding project concerns beyond the conclusion of the EA



Class Environmental Assessment process



The Class Environmental Assessment (Class EA) for Minor Transmission Facilities sets out a planning and decision-making process for projects with predictable environmental effects that can be mitigated.

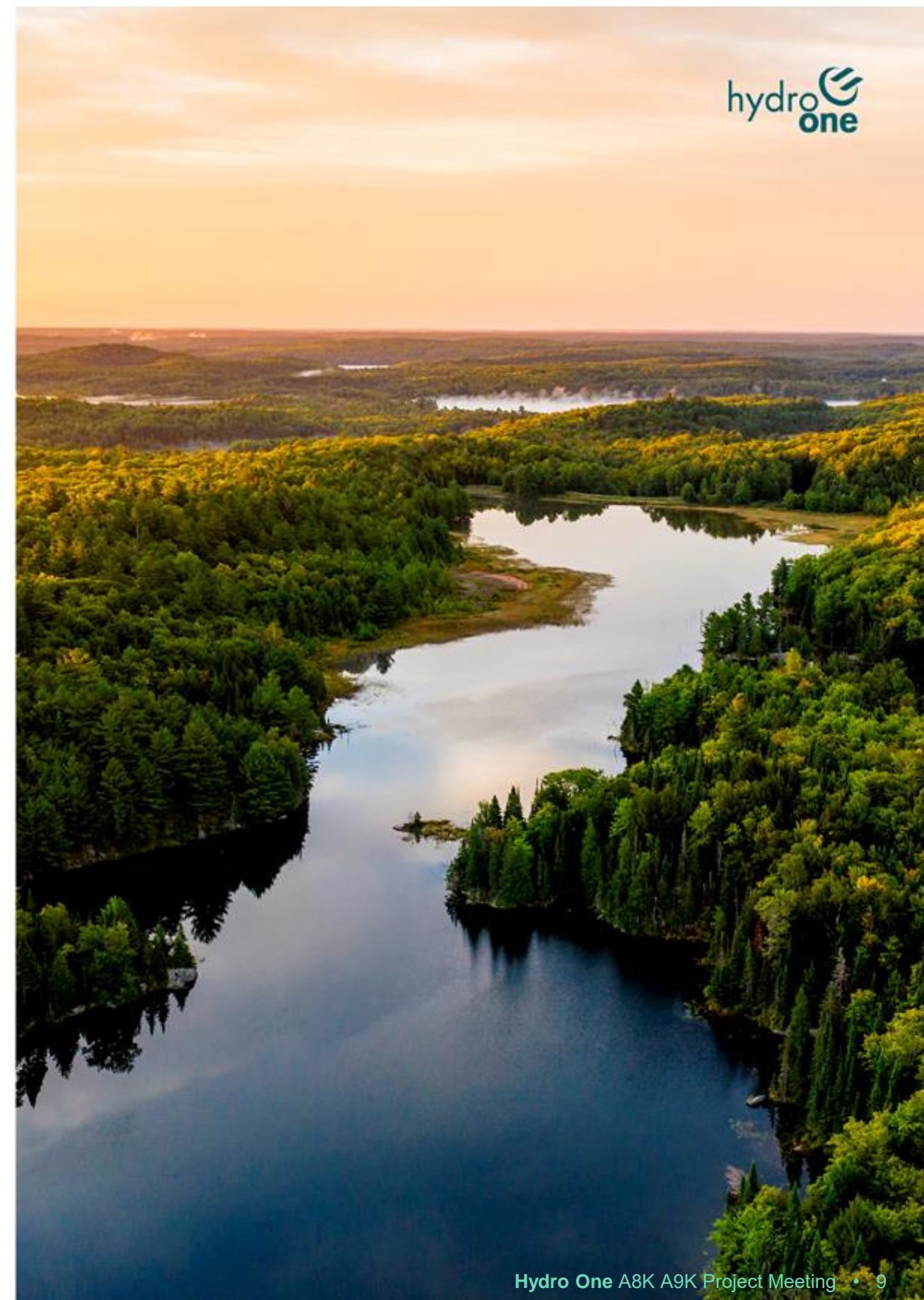


Environmental investigations and studies

- Desktop studies
- Field surveys in the study area to understand:
 - Existing conditions
 - Identify potential impacts associated with the project
 - Develop avoidance/mitigation measures

Studies Being Completed:

- Natural Environmental Background Reviews and Field Investigations (complete):
 - Bat Surveys
 - Breeding Bird Surveys
 - Targeted Species at Risk Surveys
 - Significant Wildlife Habitat Observations
 - Incidental wildlife observations
 - Stage 1 & 2 Archaeological Assessment
- Socio-Economic existing conditions background review



How has this shaped the process?

The information captured has informed the Class Environmental Assessment process by:

- Expanding overall knowledge and understanding of the local areas
- Identifying a potential list of measures to avoid, mitigate and/or restore environmental effects when completing the work
- Inform the decision-making process to select a preferred feasible alternative to the undertaking

As part of the Full Class EA process, potential feasible alternatives were identified and include:

- undertaking the refurbishment along the existing right-of-way,
- not undertaking the refurbishment, or
- building a new 115 kV transmission line parallel to the existing.



Evaluation of feasible alternatives

Based on the project need, the “Not undertaking the refurbishment” alternative is not considered feasible. Not undertaking the project does not resolve the aging infrastructure, line ampacity and conductor condition concerns for continued reliability and integrity of the transmission lines.

To evaluate the remaining two alternatives a reasoned argument evaluation method was used. The reasoned argument method uses reasoned judgements to assess advantages and disadvantages for each alternative based on a range of factors and criteria established to identify potential project impacts. For this project, three factor areas were identified with 14 specific criteria:



- Species at risk
- Significant wildlife habitat
- Designated natural areas
- Effects to fish and aquatic habitat
- Effects to vegetation



- Existing and future land use
- Cultural and Archaeological resources
- Forestry Resources
- Mining and Mineral rights
- Effects to residential, commercial and industrial operations
- Source water protection



- Overall constructability
- Property requirements
- Cost

Evaluation of feasible alternatives



Factor Area	Alternative 1	Alternative 2
Natural Environment	<ul style="list-style-type: none"> Existing vegetation is compatible with and managed for existing transmission line Minimizes potential for impacts to SAR and SAR habitat 	<ul style="list-style-type: none"> Encroachment to naturalized habitats creates potential for SAR and SAR habitat impacts Requires more vegetation removal for new right-of-way
Socio-Economic Environment	<ul style="list-style-type: none"> Use of existing corridor is previously disturbed minimizing potential for archaeological resources Minimizes potential impacts to adjacent operations by minimizing footprint impacts 	<ul style="list-style-type: none"> Potential for impacts to Forestry Management Unit operations Adjacent operations impacted by widening right-of-way footprint Archaeological potential exists on previously undisturbed lands
Technical and Cost	<ul style="list-style-type: none"> Re-uses the existing right-of-way Minimizes property requirements 	<ul style="list-style-type: none"> Requires significant property to widen existing right-of-way
Summary	<p>Overall Alternative 1 has less potential for project impacts because it utilizes existing rights-of-way, limits infringement on adjacent vegetation and natural communities and minimizes potential impacts to existing adjacent residential, commercial or industrial operations</p>	<p>Overall, Alternative 2 requires expansion of the right-of-way limit through property acquisition, disturbs existing natural communities by widening and maintaining a larger right-of-way and creates new impacts to adjacent property owners and their operations</p>

Based on the evaluation, Hydro One's preferred alternative is to undertake the refurbishment along the existing right-of-way

Next steps

- Review Natural Environmental Report (Desktop/field studies)
- Input from CIC and ongoing consultation
- Draft and release Environmental Study Report (ESR)



Question period

Panelists

Moderator: Melissa Rozycki
Community Relations

Sarah Cole
Environmental Planner

Guillermo Zambrano
Project Manager

For any additional questions or
comments please contact us:

to view the presentation and other
project information visit:
www.HydroOne.com/A8KA9K

Kevin Bros
Hydro One Real Estate

Devi Shantilal
Manager, Indigenous Relations

community.relations@HydroOne.com
1-877-345-6799





Thank you

www.HydroOne.com/A8KA9K



A8K/A9K Transmission Line Refurbishment Project

Notice of Completion of Draft Environmental Study Report

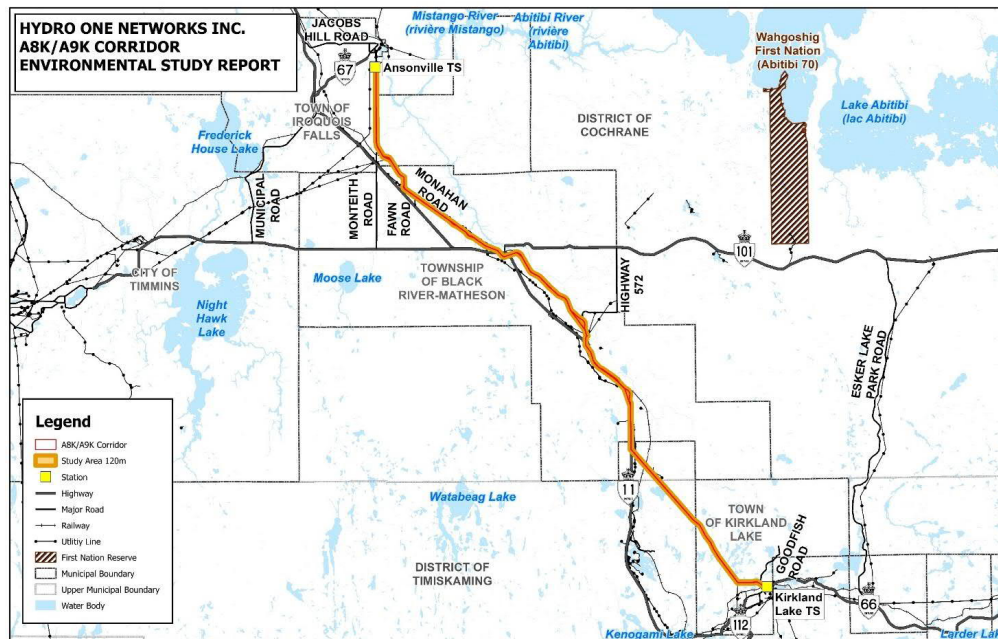
October 12, 2021

As the next step in the A8K/A9K Transmission Line Refurbishment project, Hydro One Networks Inc. (Hydro One) has completed the draft Environmental Study Report (ESR). This document outlines the Class Environmental Assessment (EA) process conducted and will be available for a 30-day public comment period, beginning on October 18, 2021.

This transmission line is nearing its end life and has been designated for refurbishment. The project area is shown on the attached map.

In July 2018, Hydro One began a Class EA in accordance with the Class EA for Minor Transmission Facilities and was initially assessed following the Class EA Screening Process. Based on feedback received, Hydro One has been assessing the project following the Full Class EA Process.

Through this process, three alternatives to the undertaking were evaluated. Based on environmental and technical information collected, refurbishment was selected as the technically preferred alternative for the undertaking. The draft ESR summarizes the EA process, alternatives identified, environmental information collected, consultation undertaken, and environmental effects and mitigation measures planned.



Next Steps and Providing Your Input:

The draft ESR will be available for comment from October 18, 2021, to November 19, 2021. Due to ongoing public health restrictions, the draft ESR can be viewed electronically on Hydro One's website at www.HydroOne.com/A8KA9K. An electronic copy of the draft ESR is also available on a USB drive at your local municipal office. If you have barriers to online access, please contact us by phone at 1-888-345-6799.

Written comments or questions on the ESR must be received by Hydro One **no later than 4:30 p.m. on November 19, 2021**, and must be addressed to:

Sarah Cole, Environmental Planner, Hydro One Networks Inc.
230 Bayview Dr., Barrie, Ontario
Phone: 1-877-345-6799 (community relations hotline)
Email: Community.Relations@HydroOne.com

During the comment period, Hydro One will respond to and make best efforts to resolve any issues raised by concerned parties, following which, Hydro One will finalize the ESR and file it with the Ministry of the Environment, Conservation and Parks (MECP). The project will then be considered acceptable and may proceed as outlined in the ESR.

A request may be made to the MECP for an order requiring a higher level of study (i.e., requiring comprehensive EA approval before being able to proceed), or that conditions be imposed (e.g., require further studies), however; only on the grounds that the requested order may prevent, mitigate or remedy adverse impacts on constitutionally protected Aboriginal and treaty rights. The MECP will not consider requests on other grounds.

Requests should include the requester's contact information and full name, as well as specify what kind of order is being requested (request for conditions or comprehensive EA), how an order may prevent, mitigate or remedy potential adverse impacts on Aboriginal and treaty rights, and any information in support of the statements in the request. The request should be sent in writing or by email to:

Ministry of the Environment, Conservation
and Parks
777 Bay Street, 5th Floor
Toronto, ON, M7A 2J3
Email: minister.mecp@ontario.ca

Environmental Assessment Branch
Ministry of the Environment, Conservation
and Parks
135 St. Clair Ave. W, 1st Floor
Toronto, ON, M4V 1P5
Email: EABDirector@ontario.ca

Requests should also be copied to Hydro One per contact information provided above. Please visit the ministry's website for more information on requests for orders under section 16 of the *Environmental Assessment Act* at:

<https://www.ontario.ca/page/class-environmental-assessments-section-16-order>

All personal information included in your request – such as name, address, telephone number and property location – is collected, under the authority of section 30 of the *Environmental Assessment Act* and is collected and maintained for the purpose of creating a record that is available to the general public. As this information is collected for the purpose of a public record, the protection of personal information provided in the *Freedom of Information and Protection of Privacy Act* (FIPPA) does not apply (s.37). Personal information you submit will become part of the available public record unless you request that your personal information remain confidential.

Appendix C Record of Consultation

First Nations & Métis - Record of Consultation

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Beaverhouse First Nation	Marcia Brown Martel - Beaverhouse First Nation (Chief)	2018-06-25	Email	Outgoing	<p>Hydro One sent a Notice of Commencement (NoC) letter confirming initiation of the Class EA for refurbishment of the existing 115 kV transmission infrastructure on circuits A8K and A9K. In the letter, Hydro One indicated that comments and feedback are welcomed, including information on areas that are culturally significant. Hydro One also mentioned that they would be pleased to arrange a meeting to gather input and discuss project details, and that any update to the project information would be provided in the future.</p> <p>A hardcopy of the NoC letter was also sent via Canada Post registered mail.</p> <p>It was mentioned that any input would be appreciated by August 24, 2018.</p>
Matachewan First Nation	Alex Batisse - Matachewan First Nation (Chief)	2018-06-25	Email	Outgoing	<p>Hydro One sent a Notice of Commencement (NoC) letter confirming initiation of the Class EA for refurbishment of the existing 115 kV transmission infrastructure on circuits A8K and A9K. In the letter, Hydro One indicated that comments and feedback are welcomed, including information on areas that are culturally significant. Hydro One also mentioned that they would be pleased to arrange a meeting to gather input and discuss project details, and that any update to the project information would be provided in the future.</p> <p>A hardcopy of the NoC letter was also sent via Canada Post registered mail.</p> <p>It was mentioned that any input would be appreciated by August 24, 2018.</p>
Northern Lights Metis Council	Doug Hall - Northern Lights Metis Council (President)	2018-06-25	Email	Outgoing	<p>Hydro One sent a Notice of Commencement (NoC) letter confirming initiation of the Class EA for refurbishment of the existing 115 kV transmission infrastructure on circuits A8K and A9K. In the letter, Hydro One indicated that comments and feedback are welcomed, including information on areas that are culturally significant. Hydro One also mentioned that they would be pleased to arrange a meeting to gather input and discuss project details, and that any update to the project information would be provided in the future.</p> <p>A hardcopy of the NoC letter was also sent via Canada Post registered mail.</p> <p>It was mentioned that any input would be appreciated by August 24, 2018.</p>
Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief)	2018-06-25	Email	Outgoing	<p>Hydro One sent a Notice of Commencement (NoC) letter confirming initiation of the Class EA for refurbishment of the existing 115 kV transmission infrastructure on circuits A8K and A9K. In the letter, Hydro One indicated that comments and feedback are welcomed, including information on areas that are culturally significant. Hydro One also mentioned that they would be pleased to arrange a meeting to gather input and discuss project details, and that any update to the project information would be provided in the future.</p> <p>A hardcopy of the NoC letter was also sent via Canada Post registered mail.</p> <p>It was mentioned that any input would be appreciated by August 24, 2018.</p>
Timmins Metis Council	Jacques Picotte - Timmins Metis Council (President)	2018-06-25	Email	Outgoing	<p>Hydro One sent a Notice of Commencement (NoC) letter confirming initiation of the Class EA for refurbishment of the existing 115 kV transmission infrastructure on circuits A8K and A9K. In the letter, Hydro One indicated that comments and feedback are welcomed, including information on areas that are culturally significant. Hydro One also mentioned that they would be pleased to arrange a meeting to gather input and discuss project details, and that any update to the project information would be provided in the future.</p> <p>A hardcopy of the NoC letter was also sent via Canada Post registered mail.</p> <p>It was mentioned that any input would be appreciated by August 24, 2018.</p>
Wahgoshig First Nation	Joel Babin - Wahgoshig First Nation (Chief)	2018-06-25	Email	Outgoing	<p>Hydro One sent a Notice of Commencement (NoC) letter confirming initiation of the Class EA for refurbishment of the existing 115 kV transmission infrastructure on circuits A8K and A9K. In the letter, Hydro One indicated that comments and feedback are welcomed, including information on areas that are culturally significant. Hydro One also mentioned that they would be pleased to arrange a meeting to gather input and discuss project details, and that any update to the project information would be provided in the future.</p> <p>A hardcopy of the NoC letter was also sent via Canada Post registered mail.</p> <p>It was mentioned that any input would be appreciated by August 24, 2018.</p>
Northern Lights Metis Council	Doug Hall - Northern Lights Metis Council (President)	2018-07-09	Phone	Outgoing	<p>Voicemail left in regards to Notice of Commencement (NoC) letter to ensure it had been received, and to enquire as to whether there were any questions or comments regarding the project.</p>
Northern Lights Metis Council	Doug Hall - Northern Lights Metis Council (President)	2018-07-09	Email	Outgoing	<p>Follow-up e-mail informing of voicemail left in regards to Notice of Commencement (NoC) letter to ensure it had been received, and to enquire as to whether there were any questions or comments regarding the project.</p>

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Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief)	2018-07-09	Phone	Outgoing	Voicemail left in regards to Notice of Commencement (NoC) letter to ensure it had been received, and to enquire as to whether there were any questions or comments regarding the project.
Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief)	2018-07-09	Email	Outgoing	Follow-up e-mail informing of voicemail left in regards to Notice of Commencement (NoC) letter to ensure it had been received, and to enquire as to whether there were any questions or comments regarding the project.
Timmins Metis Council	Jacques Picotte - Timmins Metis Council (President)	2018-07-09	Email	Outgoing	Follow-up e-mail informing of voicemail left in regards to Notice of Commencement (NoC) letter to ensure it had been received, and to enquire as to whether there were any questions or comments regarding the project.
Timmins Metis Council	Jacques Picotte - Timmins Metis Council (President)	2018-07-09	Phone	Outgoing	Voicemail left in regards to Notice of Commencement (NoC) letter to ensure it had been received, and to enquire as to whether there were any questions or comments regarding the project.
Metis Nation of Ontario	Andy Lefebvre - Metis Nation of Ontario (Mineral Development Advisor)	2018-07-18	Email	Incoming	Contacted Hydro One to advise that the President of the Northern Lights Metis Council has changed
Northern Lights Metis Council	Doug Hall - Northern Lights Metis Council	2018-07-18	Email	Incoming	Received email about changing of council.
Northern Lights Metis Council	Urgel Courville - Northern Lights Metis Council (President)	2018-07-18	Email	Outgoing	Hydro One sent a Notice of Commencement (NoC) letter confirming initiation of the Class EA for refurbishment of the existing 115 kV transmission infrastructure on circuits A8K and A9K. In the letter, Hydro One indicated that comments and feedback are welcomed, including information on areas that are culturally significant. Hydro One also mentioned that they would be pleased to arrange a meeting to gather input and discuss project details, and that any update to the project information would be provided in the future.
					A hardcopy of the NoC letter was also sent via Canada Post registered mail.
Beaverhouse First Nation	Marlene Souriol - Beaverhouse First Nation	2018-07-26	Phone	Outgoing	It was mentioned that any input would be appreciated by August 24, 2018. Called Beaverhouse First Nation about the Notice of Commencement (NoC) letter and requested that the NoC email be re-sent to and it would be sent to the chief.
Beaverhouse First Nation	Marlene Souriol - Beaverhouse First Nation	2018-07-26	Email	Outgoing	Follow-up email to phone conversation that took place the same day. Sent a copy of the Notice of Commencement (NoC) that was originally sent to Beaverhouse First Nation on June 25, 2018, and provided a copy of the original e-mail. Requested to contact Sarah if there were any questions.
Matachewan First Nation	Marilyn Groulx - Matachewan First Nation (Band Manager)	2018-07-26	Phone	Outgoing	Called Matachewan First Nation. They stated that the Chief is often out of the office and travelling and gave the the main point of contact.
Northern Lights Metis Council	Urgel Courville - Northern Lights Metis Council (President)	2018-07-26	Phone	Outgoing	Called Northern Lights Metis Council and they stated that they did not have any comments and there would only be concerns if Hydro One was expanding past the current transmission line.
Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief)	2018-07-26	Phone	Outgoing	Called Taykwa Tagamou Nation (TTN) and spoke with the Chief. He requested that Hydro One resend him the Notice of Commencement (NoC) email and to follow-up with him in one week.
Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief)	2018-07-26	Email	Outgoing	Follow-up email to phone conversation that took place the same day. Sent a copy of the Notice of Commencement (NoC) that was originally sent to Taykwa Tagamou Nation on June 25, 2018, and provided a copy of the original e-mail. Requested to contact Hydro One if there were any questions.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2018-07-26	Email	Incoming	Emailed Hydro One requesting additional work plan information with respect to what Hydro one will require in terms of manpower, equipment or contracts that it may need to do the refurbishment project.
Timmins Metis Council	Timmins Metis Council (Quality Manager)	2018-07-26	Phone	Outgoing	Taykwa Tagamou Nation (TTN) should be considered in participating in a project of this size as it seem to be a large project.
Wahgoshig First Nation	Wahgoshig First Nation (Receptionist)	2018-07-26	Phone	Outgoing	Called Timmins Metis Council and left voicemail for Quality Manager.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2018-07-27	Email	Outgoing	Called Wahgoshig First Nation and spoke with the receptionist. She stated that she would let the Chief know that Hydro One had called.
					Hydro One responded that they are committed to developing and maintaining relationships with Indigenous peoples that demonstrate mutual respect for one another while supporting procurement opportunities for qualified Indigenous businesses and the development and viability of Indigenous contractors who can provide goods and services to Hydro One. Hydro One would be happy to schedule a meeting to discuss the details of the project as well as any opportunities for the community's involvement. Requested suitable dates for a meeting to follow up to set up the meeting in their community.
Matachewan First Nation	Cathy Yandea - Matachewan First Nation (Lands and Resources Coordinator)	2018-08-03	Email	Outgoing	Hydro One responded that they are committed to developing and maintaining relationships with Indigenous peoples that demonstrate mutual respect for one another while supporting procurement opportunities for qualified Indigenous businesses and the development and viability of Indigenous contractors who can provide goods and services to Hydro One. Hydro One would be happy to schedule a meeting to discuss the details of the project as well as any opportunities for the community's involvement. Requested suitable dates for a meeting to follow up to set up the meeting in their community.
Matachewan First Nation	Cathy Yandea - Matachewan First Nation (Lands and Resources Coordinator)	2018-08-08	Email	Outgoing	Sent a letter to Hydro One requesting a meeting to discuss the transmission line refurbishment project.
Matachewan First Nation	Cathy Yandea - Matachewan First Nation (Lands and Resources Coordinator)	2018-08-08	Email	Outgoing	Responded to e-mail and letter, thanking them for their reponse to the Notice of Commencement (NoC), and indicating that Hydro One would be happy to schedule a meeting at their earliest convenience to discuss the details of the project as well as any concerns they may have. Requested suitable dates to meet.
Matachewan First Nation	Cathy Yandea - Matachewan First Nation (Lands and Resources Coordinator)	2018-08-08	Email	Incoming	Matachewan First Nation responded that they are available at 2:00 pm on August, 28, 2018.
Matachewan First Nation	Cathy Yandea - Matachewan First Nation (Lands and Resources Coordinator)	2018-08-08	Email	Outgoing	Hydro One responded indicating that they would have to confirm with other team members who were currently away and out of office until the following week, and would get back to them as soon as possible.

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Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2018-08-10	Email	Outgoing	Hydro One followed up on previous request for potential dates to hold a meeting in the Taykwa Tagamou Nation (TTN) community as per previous communications. Suggested sometime in early September.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Stan Sutherland - Taykwa Tagamou Nation (TTN) Summer student -Taykwa Tagamou Nation (TTN) Mark Garfield - Taykwa Tagamou Nation (TTN) (Councillor) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Mark McPhee - Island Falls Forestry Mark Massicotte - Island Falls Forestry	2018-08-27	Meeting		Hydro One met with Taykwa Tagamou Nation (TTN) at their Band Office at 1:00 pm to discuss the A8K/A9K Project and to discuss opportunities for First Nation involvement in the project. Representatives from TTN-owned company, Island Falls Forestry, were in attendance.
Matachewan First Nation Wabun Tribal Council	Cathy Yandea - Matachewan First Nation (Lands and Resources Coordinator) Jason Batise - Wabun Tribal Council (Executive Director) Stephanie Labelle - Wabun Tribal Council (Mineral Development Advisor)	2018-08-28	Meeting		Hydro One met with Matachewan First Nation at their Band Office to discuss the A8K/A9K Project and to discuss opportunities for First Nation involvement in the project. Representatives from Wabun Tribal Council attended.
Matachewan First Nation Wabun Tribal Council	Cathy Yandea - Matachewan First Nation (Lands and Resources Coordinator) Jason Batise - Wabun Tribal Council (Executive Director)	2018-08-28	Email	Outgoing	Hydro One thanked the First Nation for taking the time to meet earlier in the week. Provided items which they had committed to following up on, including list of upcoming RFPs (unrelated to A8K/A9K project) and information about the Qualified Service Providers (QSPs) that its contractor Burns and McDonnell will be seeking bid packages from in October. Hydro One also asked if they can share their business directory / business (for example, Niiwin) information with them.
Matachewan First Nation Wabun Tribal Council	Cathy Yandea - Matachewan First Nation (Lands and Resources Coordinator) Jason Batise - Wabun Tribal Council (Executive Director)	2018-08-28	Email	Incoming	Wabun Tribal Council responded on the same day, via e-mail, thanking Hydro One for the meeting earlier in the week and that Matachewan is hopeful that they can participate in the project in a meaningful and mutually beneficial way. Provided a website which gives a general overview of the company, Niiwin: https://niiwin.com
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2018-08-30	Email	Outgoing	Hydro One thanked the First Nation for taking the time to meet earlier in the week. Provided items which they had committed to following up on, including list of upcoming RFPs (unrelated to A8K/A9K project) and information about the Qualified Service Providers (QSPs) that its contractor Burns and McDonnell will be seeking bid packages from in October. Hydro One also requested that Taykwa Tagamou Nation (TTN) forward their business directory to them.
Matachewan First Nation Wabun Tribal Council	Cathy Yandea - Matachewan First Nation (Lands and Resources Coordinator) Jason Batise - Wabun Tribal Council (Executive Director)	2018-10-29	Email	Outgoing	Hydro one sent a follow-up e-mail to inform that they will work with the interested communities to award them the brush clearing work associated with this project. Hydro One is currently working with its contractor to finalize a work plan for this project. Thereafter, Hydro one can confirm whether the work will be awarded directly by Hydro One or via its contractor. At this time, the scope of work for brush clearing is dependent on construction activities which is not fully defined. Once that is finalized, Hydro One can provide it to interested communities to seek their feedback on how to distribute the work between the interested communities.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2018-10-29	Email	Outgoing	Hydro One also confirmed that the Request for Proposal, when it gets issued to the Qualified Service Providers (QSPs), will have indigenous participation verbiage and they encourage all interested communities to discuss potential business opportunities with the QSPs
Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief)	2018-11-07	Letter	Incoming	Hydro one sent a follow-up e-mail to inform that they will work with the interested communities to award them the brush clearing work associated with this project. Hydro One is currently working with its contractor to finalize a work plan for this project. Thereafter, Hydro one can confirm whether the work will be awarded directly by Hydro One or via its contractor. At this time, the scope of work for brush clearing is dependent on construction activities which is not fully defined. Once that is finalized, Hydro One can provide it to interested communities to seek their feedback on how to distribute the work between the interested communities.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2018-11-08	Email	Incoming	Hydro One also confirmed that the Request for Proposal, when it gets issued to the Qualified Service Providers (QSPs), will have indigenous participation verbiage and they encourage all interested communities to discuss potential business opportunities with the QSPs Taykwa Tagamou Nation (TTN) sent a letter to Hydro One expressing interest in increasing the capacity of James Bay transmission lines by 1,000 MW. Their rationale indicated that there is active consideration for 2000 MW of new hydroelectric generation in the James Bay area, but that constrained transmission is the key impediment. TTN is looking to better understand current and future Hydro One Sustainment and Capital projects on Traditional Lands. TTN suggested the establishment of a mixed four-person Task Force to seek and promote opportunities to partner over the two points outlined in their email.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2018-11-08	Email	Incoming	Peter Archibald mentioned that he appreciates being kept in the loop as the project moves forward both environmentally and for business opportunities arising from the project.

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Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Taykwa Tagamou Nation (TTN)		2018-11-08	Email	Outgoing	Hydro One Acting CEO responded to a letter from Taykwa Tagamou Nation (TTN) acknowledging their interest in economic opportunities associated with the A8K/A9K Line Refurbishment project specifically and noting that Hydro One indicated that it will work with TTN on potential opportunities
Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief)	2018-11-08	Letter	Outgoing	Hydro One welcomed the opportunity for ongoing discussions on the ideas that Taykwa Tagamou Nation (TTN) brought forward and better understand how they can work together. TTN expressed an interest in economic opportunities associated with the A8K/A9K Line Refurbishment project and Hydro One indicated that they will work with the Community on potential opportunities.
Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief)	2018-11-15	Email	Incoming	Taykwa Tagamou Nation (TTN) requested a status update on the brush clearing contract in follow-up to the discussion at the Indigenous procurement workshop that took place in Timmins on October 18th.
Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief)	2018-11-15	Email	Outgoing	Hydro One responded by providing a copy of the e-mail sent on October 29th, and that there are no further updates since that communication. Hydro One indicated that they will follow-up with updates as they become available.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2018-12-03	Email	Incoming	Peter reached out to Hydro One asking if the proposal for the Class EA for the planned 115 kv transmission line refurbishment (A8K/A9K) was sent to Taykwa Tagamou Nation (TTN) and if he could obtain a copy.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2018-12-03	Email	Outgoing	Hydro One responded asking if the request was pertaining to the Class EA or request for proposals for construction activities.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2018-12-04	Email	Incoming	Taykwa Tagamou Nation (TTN) indicated that he is referring to both the Class EA process and request for proposals for construction activities. He mentioned that he had not been cc'ed or emailed on anything for the project, and the Lands and Resources Department oversees any project(s) related to any land issues. For some reason he has been left out of the process.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2018-12-04	Email	Outgoing	Hydro One apologized for the oversight in not cc'ing, and attached the letter of commencement sent to Taykwa Tagamou Nation (TTN) in June 2018; and will ensure to cc on any further correspondence. Hydro One stated that any (Request for Proposal (RFP) related to construction for the project are not anticipated until approximately March 2019. Indicated that all information should be forwarded so that Lands and Resources can participate and make recommendations to Council if necessary.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2018-12-04	Email	Incoming	Also mentioned that the area in question is in the Traditional Area of the Taykwa Tagamou Nation and as such they need to be completely informed as the project moves forward. He attached the Taykwa Tagamou Nation (TTN) Engagement Protocol for information, which has a map that highlights the lands.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2018-12-04	Email	Outgoing	Hydro One thanked Taykwa Tagamou Nation (TTN) for the information and indicated that this is the initial notification of the project. As such, Hydro One is looking forward to communicating with him further on the project and would be pleased to arrange a meeting to gather input from Taykwa Tagamou Nation (TTN) and discuss the project details.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2018-12-04	Email	Incoming	Taykwa Tagamou Nation (TTN) replied that it could be arranged but would have to wait until January 2019, as they are booked for December. He will get back to Hydro One after he speaks with Council.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2018-12-17	Email	Outgoing	Hydro One followed up on previous email communications, asking when it would be a good time to briefly speak.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2018-12-20	Email	Outgoing	Followed up on the previous email sent December 17 and requested if a phone call would work the following day. Otherwise, they will connect in the new year.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-01-07	Email	Incoming	Indicated that he would call Hydro One after lunch on January 7.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-01-08	Email	Outgoing	Hydro One was out of office on January 7 and thus unable to respond sooner, and requested if Thursday January 10 at 1:30 pm would work.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-01-10	Email	Outgoing	Hydro One requested confirmation as to whether a call today at 1:30 pm EST at Taykwa Tagamou Nation (TTN) offices would work.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-01-14	Email	Incoming	Peter apologized for the late response as he was out of town the previous week. He is available this week to connect.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-01-14	Email	Outgoing	Email following a phone call made to the TTN offices, and was asked to call a different number, after which he was redirected to voicemail. Request to call Peter the following day, January 19 at 1:00 pm.
Taykwa Tagamou Nation (TTN)	Stan Sutherland - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-01-16	Phone	Incoming	Follow up to voicemail left by Hydro One to discuss the project.
Taykwa Tagamou Nation (TTN)	Stan Sutherland - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-01-18	Email	Outgoing	Further to a phone discussion on Wednesday morning (January 16), Hydro One followed up with the email including a map showing the various Hydro One projects for which they have sent notification letters to Taykwa Tagamou Nation (TTN), and also attaching a copy of the notification letters for the projects on the maps. A brief summary of all the projects was also included.
Taykwa Tagamou Nation (TTN)	Dwight Sutherland - Taykwa Tagamou Nation (TTN) (Lands and Resources) Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources) Stan Sutherland - Taykwa Tagamou Nation (TTN) (Lands and Resources) Garfield Mark - Taykwa Tagamou Nation (TTN) (Councillor) Theron Sutherland - Taykwa Tagamou Nation (TTN) (Councillor)	2019-01-25	Meeting		Teleconference to briefly discuss next steps for engagement with TTN for Hydro One projects.

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Taykwa Tagamou Nation (TTN)	Dwight Sutherland - Taykwa Tagamou Nation (TTN) (Lands and Resources) Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources) Stan Sutherland - Taykwa Tagamou Nation (TTN) (Lands and Resources) Garfield Mark - Taykwa Tagamou Nation (TTN) (Councillor) Theron Sutherland - Taykwa Tagamou Nation (TTN) (Councillor)	2019-01-31	Email	Outgoing	Teleconference call follow-up email sent by Hydro One to Taykwa Tagamou Nation (TTN), thanking TTN for taking the time to discuss projects. Further to TTN's request for additional information on Hydro One projects, Hydro One informed TTN that they are able to visit the community on dates in February and March 2019 to discuss further. Hydro One asked whether the proposed dates are suitable, and, if not, requested that TTN send back alternate dates of availability.
Taykwa Tagamou Nation (TTN)	Dwight Sutherland - Taykwa Tagamou Nation (TTN) (Lands and Resources) Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources) Stan Sutherland - Taykwa Tagamou Nation (TTN) (Lands and Resources) Garfield Mark - Taykwa Tagamou Nation (TTN) (Councillor) Theron Sutherland - Taykwa Tagamou Nation (TTN) (Councillor)	2019-02-02	Email	Outgoing	Further to the e-mail sent on January 31st, Hydro One followed up to seek feedback from Taykwa Tagamou Nation (TTN) on whether the proposed meeting dates are convenient, and also requested alternate dates if the proposed dates were not convenient.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-02-05	Email	Incoming	Taykwa Tagamou Nation (TTN) responded to the request for meeting date confirmation indicating that TTN staff was away the prior week at a Lands and Resources meeting in Timmins, and unavailable to answer previous requests. He indicated that the next available date for TTN is February 14th at 1:00 pm.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-02-05	Email	Outgoing	Hydro One responded indicating that February 14th conflicts with a previously scheduled meeting, and, as such, suggested if February 22nd would work for a meeting at Taykwa Tagamou Nation (TTN) offices to discuss the Wood Pole Replacement Projects (T61S & H9K) & can you confirm if the other proposed dates would work for them: <ul style="list-style-type: none"> • Afternoon of March 7th to discuss the A8K/A9K & lamGold Connection Projects • Morning of March 8th to discuss the D2H/D3H project
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-02-05	Email	Incoming	Taykwa Tagamou Nation (TTN) responded that the morning of February 22nd is a time and date that works.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-02-05	Email	Outgoing	Hydro One thanked Taykwa Tagamou Nation (TTN) for the prompt response regarding the meeting date and asked if 10 am is a convenient time; and also mentioned that they look forward to receiving (i) the capacity funding budget for the projects mentioned during our conference call. (ii) confirmation whether the proposed meeting dates for the other projects would work: <ul style="list-style-type: none"> • Afternoon of March 7th to discuss the A8K/A9K & lamGold Connection Projects • Morning of March 8th to discuss the D2H/D3H project
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-02-05	Email	Incoming	Taykwa Tagamou Nation (TTN) said that 1:00 pm is the preferred time for the meeting.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)				Further to the November 13 e-mail regarding the brush clearing contract, Hydro One sent more information, and explained that, as per previous conversations, the A8R/A9K project is still undergoing design phase, aiming for tendering in early Q2 2019. It was explained that there have been some changes in the execution strategy of the project which caused the delayed update on the brush clearing contract; however, Hydro One remains committed to working with the interested First Nation communities to offer brush clearing work associated with this project. The scope of work for brush clearing is dependent on construction activities which is not fully defined. Once that is finalized, Hydro One can provide it to interested communities to seek their feedback on how to distribute the work between the interested communities. A sample Scope of Work document was attached to the e-mail for reference. Once issued to the Qualified Service Providers (QSPs), the RFP will have Indigenous participation verbiage and Hydro One encourages all interested communities to discuss potential business opportunities with the QSPs. Lastly, the execution of this project is subject to Hydro One approval based on the final estimate submission (as a result of tendering process). There is always a chance for cancellation or delay prior to obtaining the execution approval. Updates are to be provided by Hydro One as they become available. Hydro One thanked them for taking the time to speak. Hydro One mentioned they will check for any updates on the project including contact information for any additional QSPs and send the information.
Matachewan First Nation Wabun Tribal Council		2019-02-15	Email	Outgoing	As a side-note: Hydro One mentioned that it is seeking a vendor in place capable of providing firefighting response services at several sites in Northern Ontario. The vendor must be able to respond to Hydro One transmission and distribution stations assets and provide suppression and prevention services. Some sites are in northeastern Ontario (Hunta/Timmins/Cochrane area) & others are in northwest. Asked to inform if they are aware of any indigenous business(es) able to provide the required services.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-02-19	Email	Incoming	Contacted Hydro One to inform that the meeting for February 22nd had to be cancelled, and they will inform of another date by the end of the week.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-02-20	Email	Outgoing	Hydro One thanked Taykwa Tagamou Nation (TTN) for the email, and looks forward to hearing back with the new date for discussion of wood pole projects, also asking if he is able to confirm the previously proposed dates for the other projects for March 7 and 8.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-02-25	Email	Outgoing	Hydro One followed up to seek an update on potential meeting dates, including confirmation of the March 7 and 8 dates for the other two projects, as March is fast approaching. Lastly, Hydro One also indicated that they are also looking forward to the project capacity funding budgets that Peter indicated he would send

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-02-27	Email	Outgoing	Hydro One sent out another reminder further to the February 25th e-mail, regarding potential meeting dates for the wood pole replacement projects and the March dates for the other two projects.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-03-01	Email	Outgoing	Hydro One reached out to Taykwa Tagamou Nation (TTN) and indicated that since the meeting dates for March 7 and 8 for the A8K/A9K, D2H/D3H and Iamgold Projects could not be confirmed, they were released for now. For next steps, as a starting point, Hydro One requested that they provide dates for the wood pole replacement project meeting, also mentioning that, if possible, they would like to do the work while the ground is frozen to minimize ground disturbance. Thereafter, meetings for the other projects could be firmed up as mutually convenient.
Taykwa Tagamou Nation (TTN)		2019-03-03	Email	Incoming	Taykwa Tagamou Nation (TTN) reached out to Hydro One noting that they were hearing rumours about A8K/A9K and requested to meet on March 6, 2019 before 8am or after 5pm.
Taykwa Tagamou Nation (TTN)					Hydro One responded to Taykwa Tagamou Nation (TTN)'s letter indicating the proposed meeting date and time did not work. The letter stated that the project was in design phase and was undergoing the Class EA process. It was noted that Hydro One's Indigenous Relations team was following up with TTN for a meeting.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-03-13	Email	Outgoing	Hydro One followed up on the previous email sent March 1, asking if it would be possible to meet on March 19, 21, or 22 at the Taykwa Tagamou Nation (TTN) offices to discuss the Wood Pole Replacement Project T61S. Hydro One also sent the reminder that they would like to do the work while the ground is frozen to minimize ground disturbance. Thereafter, meetings for the other projects could be firmed up as mutually convenient.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-03-15	Email	Outgoing	Hydro One followed up on the previous email sent March 1, asking if it would be possible to meet on March 19, 21, or 22 at the TTN offices to discuss the Wood Pole Replacement Project T61S. Hydro One also sent the reminder that they would like to do the work while the ground is frozen to minimize ground disturbance. Thereafter, meetings for the other projects could be firmed up as mutually convenient.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-04-01	Email	Outgoing	Follow-up on discussion during the Jan 25th teleconference call and subsequent emails sent to schedule meetings to discuss the Hydro One projects Taykwa Tagamou Nation expressed an interest in:
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-04-23	Email	Outgoing	Requested sharing of convenient dates for project meetings. Hydro One followed up via email after leaving a voicemail at the Taykwa Tagamou Nation (TTN) office phone number to check on whether TTN are available to meet with Hydro One to discuss the project.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-04-30	Email	Incoming	Taykwa Tagamou Nation (TTN) responded that they are prepared to discuss all projects with the exception of Pinard to Hunta proposal as The Chief is in discussion with Ontario Power Generation (OPG) regarding the Project. Until such time TTN and OPG has come to some understanding on the issues raised by TTN and some resolution has been agreed to by both parties this project is at a standstill until further notes by TTN.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-05-02	Email	Outgoing	TTN are prepared to meet on all other projects. Hydro One thanked Taykwa Tagamou Nation (TTN) for their email, and responded that, unfortunately due to schedule conflicts they are unable to find a time that works for everyone to meet within the next two weeks. Hydro One suggested the morning of May 24th or if that date is not convenient, requested convenient dates from TTN. Hydro One would also be open to meeting in Taykwa Tagamou Nation if that is preferred.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-05-08	Email	Outgoing	Hydro One also followed up on the capacity funding request by TTN in the January 25th conference call, and asked when they can send the details of requests for funding for the projects TTN is interested in. Hydro One mentioned that this discussion could be held in parallel to setting up a meeting that is mutually convenient. Hydro One followed up on the previous email to confirm whether May 24th works for a meeting to discuss the projects Taykwa Tagamou Nation (TTN) expressed an interest in. If not, Hydro One requested that TTN send some dates in June that are convenient for TTN? If preferred, separate meetings could be scheduled for different projects and meet in Taykwa Tagamou Nation on other mutually convenient dates.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-05-09	Email	Incoming	Hydro One also expressed that it looks forward to hearing from TTN regarding meeting date and time as well as the capacity funding request(s) for the project(s). Taykwa Tagamou Nation (TTN) responded to Hydro One indicating that a meeting any time after May 23 and 24 would work.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-05-10	Email	Outgoing	Hydro One thanked Taykwa Tagamou Nation (TTN) for their email, and responded that they understand that TTN would not be available for a May 24th meeting, as previously proposed, in previous correspondence (sent May 8th), and as such they will follow up with some newly proposed dates.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-05-10	Email	Outgoing	Hydro One proposed new date for a meeting with Taykwa Tagamou Nation (TTN) to discuss the project. Suggested May 27th.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-05-10	Email	Incoming	Taykwa Tagamou Nation (TTN) indicated that May 24th works, and requested an agenda for the meeting as well as any additional information, and also provided names of attendees from TTN.

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Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-05-13	Email	Outgoing	Hydro One thanked Taykwa Tagamou Nation (TTN) for their email and indicated that they will send an Outlook invitation for the meeting on May 24th at Hydro One Toronto offices from 9am to noon, followed by lunch, along with a draft agenda for TTN review and edit. Hydro One also provided instructions for attendance at their offices.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-05-14	Email	Incoming	Taykwa Tagamou Nation (TTN) confirmed that all is well and they look forward to reviewing the draft agenda.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-05-16	Email	Outgoing	Hydro One provided the draft agenda for the upcoming meeting on May 24th for Taykwa Tagamou Nation (TTN) review and feedback, and also expressed that they look forward to hearing from TTN.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-05-21	Email	Incoming	Taykwa Tagamou Nation (TTN) requested revision of the agenda to include two items: TTN protocol and SVS engagement. Hydro One thanked TTN for their input and indicated they will add to the agenda.
Taykwa Tagamou Nation (TTN)	Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources)	2019-05-23	Email	Outgoing	Hydro One sent an updated version of the draft agenda for the May 24th meeting for review, including topics added regarding Taykwa Tagamou Nation (TTN) protocol and Shared Valued Solutions (SVS) engagement.
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources) Stan Sutherland - Taykwa Tagamou Nation (TTN) (Lands and Resources) Scott Mackay - Taykwa Tagamou Nation (TTN) (Shared Value Solutions)	2019-05-24	Meeting		Meeting to discuss the project, and address and questions, comments, or concerns regarding the project.
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources) Stan Sutherland - Taykwa Tagamou Nation (TTN) (Lands and Resources) Scott Mackay - Taykwa Tagamou Nation (TTN) (Shared Value Solutions)	2019-05-28	Email	Outgoing	Hydro One sent an email to thank Taykwa Tagamou Nation (TTN) for taking the time to meet on May 24th, and indicated that they will send out draft meeting notes for TTN review and feedback by the end of the following week. Hydro One also provided some other additional requested information pertaining to other Hydro One projects.
Taykwa Tagamou Nation (TTN)		2019-06-11	Email	Incoming	Taykwa Tagamou Nation (TTN) sent a letter to Hydro One noting they will not be attending the Chiefs of Ontario conference. It further noted TTN had not been formally consulted on the A8K/A9K project and offered to meet during the week of June 17, 2019
Taykwa Tagamou Nation (TTN)		2019-06-12	Email	Outgoing	Hydro One responded via email noting the week of June 17th wouldn't work and offered meeting on June 24, 2019 or June 26, 2019
Taykwa Tagamou Nation (TTN)		2019-06-13	Email	Incoming	TTN responded noting the proposed dates did not work for him and he would send alternate dates
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources) Stan Sutherland - Taykwa Tagamou Nation (TTN) (Lands and Resources) Scott Mackay - Taykwa Tagamou Nation (TTN) (Shared Value Solutions)	2019-06-14	Email	Outgoing	Hydro One provided the draft meeting notes for their meeting with Taykwa Tagamou Nation (TTN) on May 24th and also provided contact information regarding Hydro One's Qualified Service Providers. Hydro One also indicated that they are in the process of following up on action items that resulted from the meeting (including provision of the Stage 1 Archaeological Assessment), and also asked for the sharing of capacity funding requests, when available. Regarding procurement opportunities, Hydro One asked if TTN has the capacity to provide aggregates services should Hydro One projects require these services.
Taykwa Tagamou Nation (TTN)	Scott Mackay - Taykwa Tagamou Nation (TTN) (Shared Value Solutions)	2019-06-14	Email	Incoming	Taykwa Tagamou Nation (TTN) responded, thanking Hydro One for the information and also asked if Hydro One has a file sharing system where the Stage 1 Archaeological Assessment report could be uploaded, and provide a link to TTN for file sharing.
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources) Stan Sutherland - Taykwa Tagamou Nation (TTN) (Lands and Resources) Scott Mackay - Taykwa Tagamou Nation (TTN) (Shared Value Solutions)	2019-06-24	Email	Outgoing	Hydro One mentioned that they are in the process of setting up access to a large file transfer site in order to share reports.
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources) Stan Sutherland - Taykwa Tagamou Nation (TTN) (Lands and Resources) Scott Mackay - Taykwa Tagamou Nation (TTN) (Shared Value Solutions)	2019-06-25	Email	Outgoing	Hydro One provided information to access the Stage 1 AA on the large file transfer site.
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources) Stan Sutherland - Taykwa Tagamou Nation (TTN) (Lands and Resources) Scott Mackay - Taykwa Tagamou Nation (TTN) (Shared Value Solutions)	2019-07-08	Email	Outgoing	Hydro One followed up asking if Taykwa Tagamou Nation (TTN) can confirm whether the Stage 1 AA report was downloaded from the large file transfer site. If not, another transfer could be set up to provide the report.
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources) Stan Sutherland - Taykwa Tagamou Nation (TTN) (Lands and Resources) Scott Mackay - Taykwa Tagamou Nation (TTN) (Shared Value Solutions)	2019-07-08	Email	Incoming	Taykwa Tagamou Nation (TTN) mentioned that they had not had a chance to download the report yet, and asked if they could please re-send.
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Peter Archibald - Taykwa Tagamou Nation (TTN) (Lands and Resources) Stan Sutherland - Taykwa Tagamou Nation (TTN) (Lands and Resources) Scott Mackay - Taykwa Tagamou Nation (TTN) (Shared Value Solutions)	2019-07-08	Email	Outgoing	Hydro One re-sent a new large file transfer to provide the Stage 1 AA to Taykwa Tagamou Nation (TTN).
Taykwa Tagamou Nation (TTN)		2019-08-21	Email	Outgoing	Hydro One sent the draft Class EA screening criteria checklist for the A8K/A9K project to Taykwa Tagamou Nation (TTN).
Taykwa Tagamou Nation (TTN)		2019-09-17	Email	Outgoing	Hydro One received a letter from Taykwa Tagamou Nation (TTN) expressing interest in the project and requested project information

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Taykwa Tagamou Nation (TTN)		2019-09-27	Email	Outgoing	Hydro One sent information package via registered mail containing project details sent to Taykwa Tagamou Nation (TTN) previously including the Class Environmental Assessment (EA) Notice of Commencement letter, general project map, draft Class EA screening criteria checklist and project information as per section 5.1 of TTN's engagement protocol. Hydro One asked TTN to identify a primary point of contact to coordinate a meeting for further engagement.
Olthuis Kleer Townshend (OKT LLP) Taykwa Tagamou Nation (TTN)		2019-10-01	Email	Incoming	Hydro One received notification from Olthuis Kleer Townshend LLP (OKT Law) informing that they had been retained by Taykwa Tagamou Nation (TTN) to work with Hydro One to enter into an engagement agreement
Missanabie Cree First Nation Olthuis Kleer Townshend (OKT LLP) Taykwa Tagamou Nation (TTN)	Candace McCormick - Missanabie Cree First Nation (Office Manager) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Liora Zimmerman - Taykwa Tagamou Nation (TTN) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel)	2019-10-24	Meeting		The following includes meeting notes from the meeting with Taykwa Tagamou Nation (TTN)/OKT LLP. They plan to move forward - OKT LLP will draft an engagement agreement with a workplan and budget. TTN is looking for five things that the agreement will be premised upon (listed at the end of the email). The Environmental Assessment (EA) is stalled until the agreement is signed and consultation can begin. Shared Valued Solutions (SVS) was present as they have been hired by TTN to represent Environmental. They will be reviewing all of the EA, permits and have indicated they will want some Traditional Use Studies completed and this will be negotiated in the agreement. TTN and Hydro One discussed questions for follow up, including: financing for refurbishment/reinforcement projects, cost percentage, capital cost and current reliability stats for A8K/A9K, D2H/D3H. They also discussed next steps such as Archaeological reports to OKT LLP, the Ministry of Natural Resources and Forestry bridge permits for lamgold, capacity funding for peer review. The goal is for TTN to gain enforceable business and employment. Other notes include key points of contact.
Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Liora Zimmerman - Taykwa Tagamou Nation (TTN) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel)	2019-10-25	Email	Outgoing	Hydro One sent Taykwa Tagamou Nation the application packages for three of the five bridges that they will be dealing with on the lamgold connection project - four temporary and one permanent.
Taykwa Tagamou Nation (TTN)	Liora Zimmerman - Taykwa Tagamou Nation (TTN)	2019-10-28	Email	Incoming	Taykwa Tagamou Nation emailed Hydro One and indicated the login for the file transfer site for the Archeological Assessments does not show a list of files to download for OKT LLP.
Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Liora Zimmerman - Taykwa Tagamou Nation (TTN) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel)	2019-10-28	Email	Incoming	OKT LLP requested the proposed timelines for each project and a copy of the presentation from last week's meeting.
Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Liora Zimmerman - Taykwa Tagamou Nation (TTN) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel)	2019-10-30	Email	Outgoing	Hydro One emailed OKT LLP and included a table summarizing timelines for A8K/A9K, D2H/D3H and H9K projects projects and attached the presentation deck for reference. During the meeting, timelines were discussed for the lamgold connection project and will need to be revised. Hydro One will send an email with credentials for a File Transfer Site for the Archaeology reports.
Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Liora Zimmerman - Taykwa Tagamou Nation (TTN) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel)	2019-10-31	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation (TTN) regarding the file transfer site of Stage 1 Archaeological Assessment for A8K/A9K, D2H/D3H and lamgold Connection Project and Stage 2 Archaeological Assessment for lamgold Connection Project.
Olthuis Kleer Townshend (OKT LLP) Taykwa Tagamou Nation (TTN)		2019-11-01	Email	Incoming	Olthuis Kleer Townshend (OKT LLP) sent draft proposed engagement agreement noting it was not reviewed by Taykwa Tagamou Nation (TTN). OKT LLP proposed an engagement deadline for finalizing the Term Sheet of January 31, 2020. Hydro One acknowledged the receipt.
Olthuis Kleer Townshend (OKT LLP) Taykwa Tagamou Nation (TTN)		2019-11-12	Email	Incoming	OKT Law sent email seeking Hydro One's response to the proposed draft engagement agreement shared on November 1, 2020.
Olthuis Kleer Townshend (OKT LLP) Taykwa Tagamou Nation (TTN)		2019-11-18	Email	Outgoing	Hydro One sent the engagement agreement with Taykwa Tagamou Nation (TTN) with Hydro One comments to Olthuis Kleer Townshend (OKT LLP).

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Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Keegan Mcgrath - Taykwa Tagamou Nation (TTN) (Fisheries and Aquatic Biologist, Environmental Consultant) Liora Zimmerman - Taykwa Tagamou Nation (TTN) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel)	2019-11-18	Email	Incoming	Shared Value Solutions (SVS) emailed Hydro One and indicated they are working to provide environmental and technical support for Taykwa Tagamou Nation (TTN) regarding the four transmission projects within their traditional homeland. They requested the Class Environmental Assessment documents for H9K Kapuskasing Reinforcement, A8K/A9K Refurbishment, D2H/D3H/D6T/D4 Refurbishment and lamGold project.
Olthuis Kleer Townshend (OKT LLP) Taykwa Tagamou Nation (TTN) Shared Value Solutions Ltd	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Keegan Mcgrath - Taykwa Tagamou Nation (TTN) (Fisheries and Aquatic Biologist, Environmental Consultant) Liora Zimmerman - Taykwa Tagamou Nation (TTN) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel)	2019-11-19	Email	Outgoing	Hydro One resent the previously shared documents to Shared Value Solutions (SVS).
Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Keegan Mcgrath - Taykwa Tagamou Nation (TTN) (Fisheries and Aquatic Biologist, Environmental Consultant) Liora Zimmerman - Taykwa Tagamou Nation (TTN) Muir Tony Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel)	2019-12-10	Email	Outgoing	Hydro One sent an email to OKT LLP with attachments of meeting minutes and shapefiles.
Wabun Tribal Council Wabun Tribal Council	Chris McKay - Wabun Tribal Council (Economic Development Advisor) Chris McKay - Wabun Tribal Council (Economic Development Advisor)	2020-01-08 2020-01-08	Email Email	Incoming Outgoing	Wabun Tribal Council introduced the new Economic Development Advisor. Hydro One thanked Wabun Tribal Council for the email and stated that they would be out of the office today and asked if they can call on Friday morning.
Wabun Tribal Council	Chris McKay - Wabun Tribal Council (Economic Development Advisor)	2020-01-08	Email	Incoming	Hydro One received email from Wabun Tribal Council to confirm that Friday call will work and said he will follow up with a more specific time on Friday morning.
Wabun Tribal Council	Chris McKay - Wabun Tribal Council (Economic Development Advisor)	2020-01-09	Email	Incoming	Wabun Tribal Council asked if 9am worked for the phone call. Hydro One confirmed that 9am would work and would call then.
Wabun Tribal Council Wabun Tribal Council	Chris McKay - Wabun Tribal Council (Economic Development Advisor) Chris McKay - Wabun Tribal Council (Economic Development Advisor)	2020-01-10 2020-01-20	Phone Email	Outgoing Incoming	Hydro One called Wabun Tribal Council to update on the project and discuss RFP process Wabun Tribal Council followed up with Hydro One for information request for Indigenous participation verbiage that Hydro One includes in Request for Proposals
Wabun Tribal Council	Chris McKay - Wabun Tribal Council (Economic Development Advisor)	2020-01-20	Email	Outgoing	Hydro One followed up with Wabun Tribal Council to provide information request for Indigenous participation verbiage that Hydro One includes in Request for Proposals
Wabun Tribal Council	Chris McKay - Wabun Tribal Council (Economic Development Advisor)	2020-01-23	Email	Incoming	Wabun Tribal Council emailed Hydro One and indicated they are interested in procurement opportunities associated with the A8K/A9K project. They want to know the release and closing date for RFP and a list of Qualified Vendors.
Wabun Tribal Council	Chris McKay - Wabun Tribal Council (Economic Development Advisor)	2020-01-23	Email	Outgoing	Hydro One followed up with a more updated contact sheet of Qualified Service Providers (QSPs).
Taykwa Tagamou Nation (TTN)	Oliver W. MacLaren - Taykwa Tagamou Nation (TTN)	2020-01-27	Email	Outgoing	Hydro One followed up via email if Taykwa Tagamou Nation (TTN) have any comments to share on the engagement agreement? Hydro one would like to understand any potential impacts of this work and discuss potential procurement opportunities for TTN on the construction phase of these projects.
Taykwa Tagamou Nation (TTN)	Oliver W. MacLaren - Taykwa Tagamou Nation (TTN) Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Justine Morgan - Taykwa Tagamou Nation (TTN)	2020-01-28	Email	Incoming	TTN mentioned that they do not consent to the developments in Taykwa Tagamou Nation (TTN) territory as this project will be harmful to TTN lands, rights, and cultural heritage. They ask that in the meantime no further development occurs on these projects.
Taykwa Tagamou Nation (TTN) Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Derke Archibald - Taykwa Tagamou Nation (TTN)	2020-05-03 2020-05-04	Phone Email	Outgoing Incoming	Hydro One phone call with Taykwa Tagamou Nation (TTN). Taykwa Tagamou Nation (TTN) anticipates that Hydro One will prepare a draft Framework Agreement and account for the following issues: -Grievances regarding the Kapuskasing Reinforcement project that TTN feels Hydro One hasn't addressed -Three 115 kV transmission line projects (A8K, D2H, IAMGOLD). TTN feels that these are not simple maintenance and that they are full rebuilds. The projects are on TTN's traditional lands and should not move forward without TTN having an opportunity to buy equity in the projects. They would also consider profit-sharing. -TTN is also requesting a 1000MW upgrade in capacity to the 500kV tx line out of Pinard TS. -TTN would like to enter an equity partnership with Hydro One for all existing and future 500kV and 230 kV on its Traditional Land.
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2020-05-07	Email	Outgoing	TTN mentions that IESO and Minister Rickford are aware of their intents and supportive A list of documents shared earlier with Taykwa Tagamou Nation, OKT LLP and Shared Value Solutions was sent from Hydro One.
Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer)	2020-05-20	Email	Outgoing	Hydro One requested more recent version of Taykwa Tagamou Nation (TTN)'s business directory to include in the Request for Proposal package.

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Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer)	2020-05-25	Email	Outgoing	Hydro One noticed that the directory they have from Feb 2019 is confidential and asked if they could share it with the Qualified Service Providers (QSPs) as part of the Request for Proposal (RFP) package. Alternatively, Hydro One proposed adding contact information for a Taykwa Tagamou Nation (TTN) representative. If TTN prefers the SPOC approach, Hydro One requested name and contact information for the TTN representative to include in the RFP.
Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)	2020-05-28	Email	Incoming	Taykwa Tagamou Nation (TTN) indicated that they are currently in the process of updating the business registry and would prefer to forward all contract requirements and employment opportunities to Candice directly and she will forward them to their business company and partners. She also mentioned that they would like advanced notice of any opportunities to give business community time to prepare their bids
Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)	2020-05-28	Email	Outgoing	Hydro One confirmed they will direct all business inquiries to Candice. Hydro One informed that A8K Request for Proposal (RFP) is expected to be sent to Qualified Service Providers (QSPs) early next week and will be including Candice and Derek's contact information in the RFP package. Hydro One also informed they will be including info about Indigenous business currently registered with Hydro One and the ones whose information is publically accessible for our QSPs reference. Hydro One mentioned they had previously shared QSP contact info but will send out an updated info as soon as Hydro One gets it.
Ministry of the Environment, Conservation and Parks (MECP) Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN) Vires Capital VII	Annamaria Cross - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment, Environmental Assessment Branch (EAB)) Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Environmental Approvals Access And Service Integration Branch - Ministry of the Environment, Conservation and Parks (MECP) (Environmental Approvals Access and Service Integration Branch) Howard Archibald - Taykwa Tagamou Nation (TTN) Justine Morgan - Taykwa Tagamou Nation (TTN) (Executive Assistant) Keegan Mcgrath - Taykwa Tagamou Nation (TTN) (Fisheries and Aquatic Biologist, Environmental Consultant) Liora Zimmerman - Taykwa Tagamou Nation (TTN) Mark Garfield - Taykwa Tagamou Nation (TTN) Mike Gaul - Vires Capital VII (Senior Partner & Chief Relations Officer) Muir Tony Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief) Vincent Buron - Vires Capital VII (Managing Partner)	2020-06-01	Email	Outgoing	Taykwa Tagamou Nation emailed Hydro One and shared a letter dated May 29, 2020, regarding TTN's Engagement Protocol.
Ministry of the Environment, Conservation and Parks (MECP) Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN) Vires Capital VII	Annamaria Cross - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment, Environmental Assessment Branch (EAB)) Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Environmental Approvals Access And Service Integration Branch - Ministry of the Environment, Conservation and Parks (MECP) (Environmental Approvals Access and Service Integration Branch) Howard Archibald - Taykwa Tagamou Nation (TTN) Justine Morgan - Taykwa Tagamou Nation (TTN) (Executive Assistant) Keegan Mcgrath - Taykwa Tagamou Nation (TTN) (Fisheries and Aquatic Biologist, Environmental Consultant) Liora Zimmerman - Taykwa Tagamou Nation (TTN) Mark Garfield - Taykwa Tagamou Nation (TTN) Mike Gaul - Vires Capital VII (Senior Partner & Chief Relations Officer) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief) Vincent Buron - Vires Capital VII (Managing Partner)	2020-06-11	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation (TTN) and shared a letter in response to their May 29, 2020, letter.
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2020-06-16	Email	Outgoing	A summary of last week's meeting and agenda for the next meeting were sent to Taykwa Tagamou Nation (TTN). The summary of the meeting from June 11th between TTN and Hydro One included feedback requirements and a response to the Chief's letter, etc. The proposed agenda for the June 17th meeting includes an Iamgold Project Update.
Olthuis Kleer Townshend (OKT LLP) Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2020-06-16	Email	Incoming	Taykwa Tagamou Nation emailed Hydro One and provided comments regarding the letter from Hydro One.

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Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Olthuis Kleer Townshend (OKT LLP) Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2020-06-18	Phone	Outgoing	Hydro One spoke with Taykwa Tagamou Nation (TTN) and OKT LLP. TTN will review and send back the proposed engagement agreement. For IAMGOLD it was discussed that Hydro One would like TTN's feedback regarding project related comments/concerns by end of July.
Olthuis Kleer Townshend (OKT LLP) Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2020-06-24	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation stating that the attachment is the Engagement Agreement which has been amended based on the meeting last week.
Olthuis Kleer Townshend (OKT LLP) Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2020-07-06	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation to see the attached pdf which contains additional information for the D2H/D3H Project to supplement the information that Hydro One provided in November 2019.
Olthuis Kleer Townshend (OKT LLP) Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2020-07-06	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation to see the attached pdf which contains additional information for the A8K/A9K Project to supplement the information that Hydro One provided in November 2019.
Beaverhouse First Nation	Marlene Souriol - Beaverhouse First Nation Nancy Wabie - Beaverhouse First Nation (Band Manager) Wayne Wabie - Beaverhouse First Nation (Chief)	2020-07-08	Email	Outgoing	Hydro One emailed Beaverhouse First Nation and shared a letter providing an update on the project.
Matachewan First Nation	Jason Batisse - Matachewan First Nation (Chief) Marilyn Groulx - Matachewan First Nation (Band Manager)	2020-07-08	Email	Outgoing	Hydro One emailed Matachewan First Nation and shared a letter providing an update on the project.
Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Justine Morgan - Taykwa Tagamou Nation (TTN) (Executive Assistant) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2020-07-08	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation and shared a letter providing an update on the project.
Wahgoshig First Nation	Craig Aldred - Wahgoshig First Nation (Governance Strategic / Energy Officer) Joel Babin - Wahgoshig First Nation	2020-07-08	Email	Outgoing	Hydro One emailed Wahgoshig First Nation and shared a letter providing an update on the project.
Métis Nation of Ontario (MNO) Northern Lights Métis Council	Consultation Unit (MNO) - Métis Nation of Ontario (MNO) (General Mailbox) Urgel Courville - Northern Lights Métis Council (President)	2020-07-08	Email	Outgoing	Hydro One emailed Northern Lights Metis Council and shared a letter providing an update on the project.
Métis Nation of Ontario (MNO) Northern Lights Métis Council Timmins Métis Council	Consultation Unit (MNO) - Métis Nation of Ontario (MNO) (General Mailbox) Pete Lefebvre - Timmins Métis Council (President) Urgel Courville - Northern Lights Métis Council (President)	2020-07-08	Email	Outgoing	Hydro One emailed Northern Lights Metis Council and Timmins Metis Council indicating the RFP for A8K/A9K Line Refurbishment Project was published to Hydro One's Qualified Service Providers (QSPs) on June 29th and will be open until August 14th . Attached was a high-level scope of work document and a map for reference. The Lines Indigenous Relations Contact List was also included.
Métis Nation of Ontario (MNO) Timmins Métis Council	Consultation Unit (MNO) - Métis Nation of Ontario (MNO) (General Mailbox) Pete Lefebvre - Timmins Métis Council (President)	2020-07-08	Email	Outgoing	Hydro One emailed Timmins Metis Council and shared a letter providing an update on the project.
Olthuis Kleer Townshend (OKT LLP) Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2020-07-16	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation and attached the revised Interim Engagement Agreement as amended from comments.
Olthuis Kleer Townshend (OKT LLP) Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel)	2020-07-31	Phone	Outgoing	Hydro One spoke with OKT LLP (Taykwa Tagamou Nation (TTN)'s legal counsel) about next steps including financial clause, leveraging the Environmental Assessment and providing comments. OKT LLP indicated TTN may not be open to doing so in absence of an executed Interim Engagement Agreement. Hydro One spoke with TTN (this was a separate call). TTN seemed more open to providing comments so they can address and that Hydro One will explore business opportunities with TTN.
Beaverhouse First Nation	Marlene Souriol - Beaverhouse First Nation Nancy Wabie - Beaverhouse First Nation (Band Manager) Wayne Wabie - Beaverhouse First Nation (Chief)	2020-08-05	Email	Outgoing	Hydro One emailed Beaverhouse First Nation to follow up on the previously sent project update notification letter for the project.
Matachewan First Nation	Jason Batisse - Matachewan First Nation (Chief) Marilyn Groulx - Matachewan First Nation (Band Manager)	2020-08-05	Email	Outgoing	Hydro One emailed Matachewan First Nation to follow up on the previously sent project update notification letter for the project.
Wahgoshig First Nation	Craig Aldred - Wahgoshig First Nation (Governance Strategic / Energy Officer) Joel Babin - Wahgoshig First Nation	2020-08-05	Email	Outgoing	Hydro One emailed Wahgoshig First Nation to follow up on the previously sent project update notification letter for the project.
Métis Nation of Ontario (MNO) Timmins Métis Council	Consultation Unit (MNO) - Métis Nation of Ontario (MNO) (General Mailbox) Pete Lefebvre - Timmins Métis Council (President)	2020-08-05	Email	Outgoing	Hydro One emailed Timmins Metis Council to follow up on the previously sent project update notification letter for the project.
Beaverhouse First Nation	Beaverhouse First Nation Director of operations - Beaverhouse First Nation (Director of Operations) Marlene Souriol - Beaverhouse First Nation	2020-08-06	Email	Incoming	Beaverhouse First Nation provided Hydro One with email addresses for further email correspondence with the community.
Matachewan First Nation	Jason Batisse - Matachewan First Nation (Chief) Marilyn Groulx - Matachewan First Nation (Band Manager)	2020-08-06	Email	Incoming	Matachewan First Nation emailed Hydro One and indicated no feedback has been received regarding this project. Matachewan First Nation has no comments or questions.
Métis Nation of Ontario (MNO) Timmins Métis Council	Andy Lefebvre - Métis Nation of Ontario (MNO) (Mineral Development Advisor) Consultation Unit (MNO) - Métis Nation of Ontario (MNO) (General Mailbox) Pete Lefebvre - Timmins Métis Council (President)	2020-08-06	Email	Incoming	Timmins Metis Council has received the July 8th update and has passed it on to the proper people for their comments.
Métis Nation of Ontario (MNO) Timmins Métis Council	Andy Lefebvre - Métis Nation of Ontario (MNO) (Mineral Development Advisor) Consultation Unit (MNO) - Métis Nation of Ontario (MNO) (General Mailbox) Pete Lefebvre - Timmins Métis Council (President)	2020-08-06	Email	Outgoing	Hydro One thanked Timmins Metis Council.
Beaverhouse First Nation	Beaverhouse First Nation Beaverhouse First Nation Director of operations - Beaverhouse First Nation (Director of Operations) Beaverhouse First Nation Reception - Beaverhouse First Nation (Reception)	2020-08-13	Email	Outgoing	Hydro One sent a thank you message to Beaverhouse First Nation.

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Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Matachewan First Nation	Jason Batisse - Matachewan First Nation (Chief)	2020-08-13	Email	Outgoing	Hydro One thanked Matachewan First Nation for their response.
Beaverhouse First Nation	Marilyn Groulx - Matachewan First Nation (Band Manager)				
	'directorofoperations' - Wayne Wabie - Beaverhouse First Nation (Chief)	2020-08-21	Email	Outgoing	Hydro One followed up on Beaverhouse First Nation's inquiries including the bid weight for the A8K/A9K project and the admin building located next to Kirkland Lake TS.
Olthuis Kleer Townshend (OKT LLP) Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief)	2020-10-19	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation with an attached correspondence.
	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)				
	Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel)				
	Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)				
Olthuis Kleer Townshend (OKT LLP) Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief)	2020-10-21	Email	Outgoing	Hydro One followed up with Taykwa Tagamou Nation (TTN) regarding the letter from them shared on Monday. Hydro One requested a meeting with TTN.
	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)				
	Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel)				
	Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)				
Olthuis Kleer Townshend (OKT LLP) Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief)	2020-10-21	Email	Incoming	Taykwa Tagamou Nation (TTN) informed Hydro One that the TTN representative is currently out of the office this week and has not had the opportunity to review Hydro One's letter. A meeting can tentatively be scheduled for October 29, 2020.
	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)				
	Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel)				
	Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)				
Olthuis Kleer Townshend (OKT LLP) Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief)	2020-10-23	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation (TTN) and shared a letter in response to the items specified in their October 22, 2020.
	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)				
	Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel)				
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)	2020-10-27	Email	Incoming	Taykwa Tagamou Nation (TTN) asked Hydro One to review the invoice and backup documents related to costs incurred by TTN.
Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer)	2020-11-11	Email	Incoming	Shared Value Solutions emailed and indicated they are planning a review of the A8K/A9K Transmission Line Refurbishment Project Environmental Assessment documents in support of Taykwa Tagamou Nation (TTN). TTN needs Hydro One to confirm all the documents received and requested Hydro One share any other relevant information.
	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)				
	Don Richardson - Shared Value Solutions Ltd (Managing Partner)				
	Keegan Mcgrath - Taykwa Tagamou Nation (TTN) (Fisheries and Aquatic Biologist, Environmental Consultant)				
	Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel)				
Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer)	2020-11-13	Email	Outgoing	Hydro One responded to Taykwa Tagamou Nation's questions and concerns.
	Chris Wagner - Shared Value Solutions Ltd (Ecologist)				
	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)				
	Don Richardson - Shared Value Solutions Ltd (Managing Partner)				
	Keegan Mcgrath - Taykwa Tagamou Nation (TTN) (Fisheries and Aquatic Biologist, Environmental Consultant)				
	Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel)				
B Corporation Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer)	2020-11-16	Email	Incoming	Taykwa Tagamou Nation thanked Hydro One and stated that they look forward to receiving the Preliminary Environmental Management Plan.
	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)				
	Don Richardson - Shared Value Solutions Ltd (Managing Partner)				
	Keegan Mcgrath - Taykwa Tagamou Nation (TTN) (Fisheries and Aquatic Biologist, Environmental Consultant)				
	Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel)				
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)	2020-11-19	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation (TTN) stating that Hydro One has reviewed the documents they shared and have the following requests for their consideration such as OKT LLP invoices, Shared Value Solutions invoices and Honoraria payments. Hydro One stated their commitment to working with TTN to reimburse them for costs incurred.
B Corporation Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer)	2020-11-20	Email	Incoming	Shared Valued Solutions (SVS) emailed Hydro One to follow-up and see if they could provide SVS with an estimate as to when to expect to receive the Preliminary Environmental Management Plan.
	Chris Wagner - Shared Value Solutions Ltd (Ecologist)				
	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)				
	Don Richardson - Shared Value Solutions Ltd (Managing Partner)				
	Keegan Mcgrath - Taykwa Tagamou Nation (TTN) (Fisheries and Aquatic Biologist, Environmental Consultant)				
	Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel)				
Matachewan First Nation Wabun Tribal Council	Chris McKay - Wabun Tribal Council (Economic Development Advisor)	2020-11-25	Email	Outgoing	Hydro One emailed Matachewan Forst Nation and Wabun Tribal Council regarding correspondence about the RFP process for the A8K/A9K project. Hydro One has awarded Limited Notice to proceed to Forbes Bros Ltd to undertake project planning. Hydro One stated that if there were to be another Hydro One Transmission Line Refurbishment project in the area that Hydro One planned to outsource.
	Jason Batisse - Wabun Tribal Council (Executive Director)				
	Marilyn Groulx - Matachewan First Nation (Band Manager)				
Matachewan First Nation Wabun Tribal Council	Chris McKay - Wabun Tribal Council (Economic Development Advisor)	2020-11-25	Email	Incoming	Wabun Tribal Council emailed Hydro One asking to share information with regards to the Forbes First Nations/Aboriginal content because they have no detail in that regard. Wabun Tribal Council hoped that specific and quantifiable benefits were clearly set so that the First Nations can begin to scope out their participation in the Forbes work.
	Edadvisor - Wabun Tribal Council				
	Jason Batisse - Matachewan First Nation (Chief)				
	Marilyn Groulx - Matachewan First Nation (Band Manager)				

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Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Keegan Mcgrath - Taykwa Tagamou Nation (TTN) (Fisheries and Aquatic Biologist, Environmental Consultant) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel)	2020-11-27	Email	Outgoing	Hydro One emailed Shared Valued Solutions a copy of the Preliminary Environmental Management Plan for the project.
B Corporation Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Keegan Mcgrath - Taykwa Tagamou Nation (TTN) (Fisheries and Aquatic Biologist, Environmental Consultant) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel)	2020-11-27	Email	Incoming	Shared Value Solutions emailed Hydro One a thank you note for the Preliminary Environment Management Plan.
Matachewan First Nation Wabun Tribal Council	Berardi Rob Chris McKay - Wabun Tribal Council (Economic Development Advisor) Jason Batisse - Wabun Tribal Council (Executive Director), Matachewan First Nation (Chief) Marilyn Groulx - Matachewan First Nation (Band Manager)	2020-11-27	Email	Incoming	Wabun Tribal Council emailed Hydro One stating that Wabun Tribal Council has no written or express guarantees of participation from Forbes and they need this certainty in order to proceed to work with Hydro One on their traditional lands. Wabun Tribal Council would like Hydro One to expose details of how they assessed bidders for the A8K/A9K project in regard to Aboriginal benefit and ensure that First Nations play a meaningful role in helping develop the territory.
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)	2020-12-03	Email	Incoming	Taykwa Tagamou Nation (TTN) emailed Hydro One following up on the status of the reimbursement for TTN and if additional information is required.
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)	2020-12-03	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation stating that internal accounting will get reimbursement done.
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)	2020-12-03	Email	Incoming	Taykwa Tagamou Nation emailed Hydro One stating that they have been cooperative and patient and want to know when they can expect the payment.
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)	2020-12-03	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation (TTN) acknowledging that they have been patient and cooperative. Hydro One explained that there was an internal hiccup since one project is inactive and they send their sincerest apologies.
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)	2020-12-07	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation (TTN) stating that they want to courier the cheque to TTN; however, they need an address. Hydro One stated that will mail the cheque tomorrow if they don't hear back from TTN.
Taykwa Tagamou Nation (TTN) Matachewan First Nation Wabun Tribal Council	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Berardi Rob Chris McKay - Wabun Tribal Council (Economic Development Advisor) Edadvisor - Wabun Tribal Council Jason Batisse Jason Batisse - Matachewan First Nation (Chief) Marilyn Groulx - Matachewan First Nation (Band Manager)	2020-12-07 2020-12-07	Email Email	Incoming Outgoing	Taykwa Tagamou Nation emailed Hydro One asking to arrange a wire transfer. Hydro One emailed Wabun Tribal Council regarding Indigenous partnership and indicated that for this specific project the weight given to Indigenous participation was increased compared to previous projects to ensure proponents were making their best effort to engage Indigenous communities. Hydro One inquired if they can facilitate an introduction with the successful bidder for them to discuss possible contracting opportunities for this project.
Matachewan First Nation Wabun Tribal Council	Berardi Rob Chris McKay - Wabun Tribal Council (Economic Development Advisor) Edadvisor - Wabun Tribal Council Jason Batisse - Matachewan First Nation (Chief) Marilyn Groulx - Matachewan First Nation (Band Manager)	2020-12-07	Email	Incoming	Wabun Tribal Council replied to Hydro One's email regarding whether they can ask Forbes for the relevant chapters of the bid documents that show how they have included Wabun Tribal Council communities and to forward the contact info.
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)	2020-12-08	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation (TTN) stating that the cheque will be sent by overnight courier to the address provided. Hydro One advised TTN that if they want to receive wire payments in the future they should complete and return the attached Electronic Funds Transfer (EFT) authorization form, along with a 'void' cheque or bank letter so Hydro One set-up for EFT payment.
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)	2020-12-15	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation (TTN) regarding the status of the Interim Engagement Agreement (IEA) and inquired if a meeting could be arranged to discuss. The payment was sent to TTN on December 8th via cheque sent through an overnight courier and TTN needs to confirm receipt.

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Olthuis Kleer Townshend (OKT LLP) Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Chris Wagner Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Liora Zimmerman - Taykwa Tagamou Nation (TTN) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2020-12-15	Email	Incoming	OKT LLP emailed Hydro One stating that Taykwa Tagamou Nation (TTN) has been alarmed to learn about the grading change on the IAMGOLD transmission line project and that these activities were not included in the documents that were shared with TTN through the screening process. They have re-sent the technical review report related to the potential impacts of the A8K/A9K transmission line refurbishment because they are concerned about the minimal amount of detail provided by Hydro One and wanted to know how this was going to be rectified.
Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Liora Zimmerman - Taykwa Tagamou Nation (TTN) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2020-12-24	Email	Outgoing	Hydro One sent an email to OKT LLP regarding grading and noted that they are reviewing comments received on the project and will follow-up with a response.
Matachewan First Nation Wabun Tribal Council	Chris McKay - Wabun Tribal Council (Economic Development Advisor) Edadvisor - Wabun Tribal Council Jason Batisse Jason Batisse - Matachewan First Nation (Chief) Marilyn Groulx - Matachewan First Nation (Band Manager)	2021-01-11	Email	Outgoing	Hydro One sent an email to First Nations representative to inform them that they were unable to share requested information and advised to reach out directly to Forbes for information about opportunities to participate to work with them.
Matachewan First Nation Wabun Tribal Council	Berardi Rob Chris McKay - Wabun Tribal Council (Economic Development Advisor) Jason Batisse Jason Batisse - Matachewan First Nation (Chief) Marilyn Groulx - Matachewan First Nation (Band Manager)	2021-01-11	Email	Outgoing	Hydro One offered to set up an introductory meeting with Vice President Indigenous Relations at Hydro One.
Matachewan First Nation Wabun Tribal Council	Chris McKay - Wabun Tribal Council (Economic Development Advisor) Jason Batisse - Matachewan First Nation (Chief) Marilyn Groulx - Matachewan First Nation (Band Manager)	2021-01-11	Email	Incoming	Wabun Tribal Council emailed Hydro One expressing disappointment in the Aboriginal tender assessment exercise deployed by Hydro One for the Project. They expressed dismay at the lack of transparency in the process despite promises made to engage their communities openly.
Ministry of Energy, Northern Development and Mines Ministry of the Environment, Conservation and Parks (MECP) Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Jordan Hughes - Ministry of the Environment, Conservation and Parks (MECP) (Project Evaluator) Justine Morgan - Taykwa Tagamou Nation (TTN) (Executive Assistant) Kathleen O'Neill - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment Branch) Keegan Mcgrath - Taykwa Tagamou Nation (TTN) (Fisheries and Aquatic Biologist, Environmental Consultant) Linda Job Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Poweska Mark Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-01-11	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation with responses to the comments from the Shared Value Solutions for the A8K/A9K Project and project specific shapefiles.
Ministry of Energy, Northern Development and Mines Ministry of the Environment, Conservation and Parks (MECP) Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Howard Archibald - Taykwa Tagamou Nation (TTN) Jordan Hughes - Ministry of the Environment, Conservation and Parks (MECP) (Project Evaluator) Justine Morgan - Taykwa Tagamou Nation (TTN) (Executive Assistant) Kathleen O'Neill - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment Branch) Keegan Mcgrath - Taykwa Tagamou Nation (TTN) (Fisheries and Aquatic Biologist, Environmental Consultant) Mark Garfield - Taykwa Tagamou Nation (TTN) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Poweska Mark Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-01-12	Email	Incoming	OKT LLP responded to Hydro One's email requesting the zip file be re-sent.

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Ministry of Energy, Northern Development and Mines Ministry of the Environment, Conservation and Parks (MECP) Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Howard Archibald - Taykwa Tagamou Nation (TTN) Jordan Hughes - Ministry of the Environment, Conservation and Parks (MECP) (Project Evaluator) Justine Morgan - Taykwa Tagamou Nation (TTN) (Executive Assistant) Kathleen O'Neill - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment Branch) Keegan McGrath - Taykwa Tagamou Nation (TTN) (Fisheries and Aquatic Biologist, Environmental Consultant) Mark Garfield - Taykwa Tagamou Nation (TTN) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Poweska Mark Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-01-13	Email	Outgoing	Hydro One sent an email to OKT LLP to share a copy of converted shapefiles. Hydro One noted that shapefiles can be viewed in a .pdf document in Appendix C.
Ministry of the Environment, Conservation and Parks (MECP) Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Jordan Hughes - Ministry of the Environment, Conservation and Parks (MECP) (Project Evaluator) Justine Morgan - Taykwa Tagamou Nation (TTN) (Executive Assistant) Kathleen O'Neill - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment Branch) Linda Job Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Poweska Mark Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief) Ygoulais Christine	2021-01-27	Email	Incoming	Taykwa Tagamou Nation sent a letter as a follow-up to Hydro One's correspondence on December 24, 2020.
Ministry of the Environment, Conservation and Parks (MECP) Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Candice - Cathy Guirguis Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Dwight - Howard Archibald - Taykwa Tagamou Nation (TTN) Jordan Hughes - Ministry of the Environment, Conservation and Parks (MECP) (Project Evaluator) Justine Morgan - Taykwa Tagamou Nation (TTN) (Executive Assistant) Kathleen O'Neill - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment Branch) Lands - - Taykwa Tagamou Nation (TTN) Liora Zimmerman - Taykwa Tagamou Nation (TTN) Mark Garfield - Taykwa Tagamou Nation (TTN) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Poweska Mark Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-02-05	Email	Incoming	OKT LLP contacted Hydro One to ensure two specified contacts are copied on all correspondence moving forward.
Ministry of the Environment, Conservation and Parks (MECP) Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Cathy Guirguis Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Howard Archibald - Taykwa Tagamou Nation (TTN) Jordan Hughes - Ministry of the Environment, Conservation and Parks (MECP) (Project Evaluator) Justine Morgan - Taykwa Tagamou Nation (TTN) (Executive Assistant) Kathleen O'Neill - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment Branch) Lands - - Taykwa Tagamou Nation (TTN) Liora Zimmerman - Taykwa Tagamou Nation (TTN) Mark Garfield - Taykwa Tagamou Nation (TTN) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Poweska Mark Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-02-05	Email	Outgoing	Hydro One agreed to copy OKT LLP employees on all correspondences moving forward and apologized for sending out redundant emails due to email address errors.

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Ministry of the Environment, Conservation and Parks (MECP) Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Cathy Guirguis Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Jordan Hughes - Ministry of the Environment, Conservation and Parks (MECP) (Project Evaluator) Justine Morgan - Taykwa Tagamou Nation (TTN) (Executive Assistant) Kathleen O'Neill - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment Branch) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-04-01	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation (TTN) a response letter to TTN's March 12, 2021 correspondence. Enclosed with this letter was A8K/A9K Technical Review Response Table, IAMGOLD Technical Review of Environmental Protection Plan and Environmental Monitoring Plan Response Table, IAMGOLD TTN Concerns to the Ministry of Energy, Northern Development and Mines Response Table, IAMGOLD Fisheries and Oceans Canada approvals, and IAMGOLD Notice of Completion of Class Environmental Assessment Screening process to the Ministry of the Environment, Conservation and Parks.
Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Cathy Guirguis Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)	2021-05-26	Email	Incoming	Taykwa Tagamou Nation requested Hydro One's availability for a meeting.
Beaverhouse First Nation	Liora Zimmerman - Taykwa Tagamou Nation (TTN) Beaverhouse First Nation Reception - Beaverhouse First Nation (Reception) Marlene Souriol - Beaverhouse First Nation Nancy Wabie - Beaverhouse First Nation (Band Manager) Wayne Wabie - Beaverhouse First Nation (Chief)	2021-05-27	Email	Outgoing	Hydro One emailed Beaverhouse First Nation with an attached letter to provide a project update following up on a previous project notice regarding the A8K/A9K Project. Hydro One provided some project information and noted that while the project was initially being assessed following the Class Environmental Assessment (EA) Screening Process, based on feedback received during the Class EA Screening Process, Hydro One was now going to assess the project following the Full Class EA Process. Hydro One offered to arrange a meeting to gather their input and discuss project details.
Matachewan First Nation	Jason Batisse - Matachewan First Nation (Chief) Marilyn Groulx - Matachewan First Nation (Band Manager)	2021-05-27	Email	Outgoing	Hydro One emailed Matachewan First Nation with an attached letter to provide a project update following up on a previous project notice regarding the A8K/A9K Project. Hydro One provided some project information and noted that while the project was initially being assessed following the Class Environmental Assessment (EA) Screening Process, based on feedback received during the Class EA Screening Process, Hydro One was now going to assess the project following the Full Class EA Process.
Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Lands - - Taykwa Tagamou Nation (TTN) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-05-27	Email	Outgoing	Hydro One offered to arrange a meeting to gather their input and discuss project details. Hydro One emailed Taykwa Tagamou Nation (TTN) with a project update for the A8K/A9K Transmission Line Refurbishment Project. Hydro One will now assess the project following the Full Class Environmental Assessment Process. Hydro One provided a rough timeline for construction commencement and completion and committed to receiving input and feedback.
Wahgoshig First Nation	Craig Aldred - Wahgoshig First Nation (Governance Strategic / Energy Officer) Joel Babin - Wahgoshig First Nation	2021-05-27	Email	Outgoing	Hydro One emailed Wahgoshig First Nation with an attached letter to provide a project update to follow up on a previous project notice regarding the A8K/A9K Project. Hydro One provided some project information and noted that while the project was initially being assessed following the Class Environmental Assessment (EA) Screening Process, based on feedback received during the Class EA Screening Process, Hydro One was now going to assess the project following the Full Class EA Process. Hydro One noted that construction could begin for the project as early as January 2022 and be completed by Spring 2023. Hydro One offered to arrange a meeting to gather their input and discuss project details.
Wahgoshig First Nation	Craig Aldred - Wahgoshig First Nation (Governance Strategic / Energy Officer) Joel Babin - Wahgoshig First Nation	2021-05-27	Email	Outgoing	Hydro One emailed Wahgoshig First Nation with an attached letter to provide a project update following up on a previous project notice regarding the A8K/A9K Project. Hydro One provided some project information and noted that while the project was initially being assessed following the Class Environmental Assessment (EA) Screening Process, based on feedback received during the Class EA Screening Process, Hydro One was now going to assess the project following the Full Class EA Process. Hydro One offered to arrange a meeting to gather their input and discuss project details.

First Nations Métis - Record of Consultation

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Métis Nation of Ontario (MNO)	Consultation Unit (MNO) - Métis Nation of Ontario (MNO) (General Mailbox)	2021-05-27	Email	Outgoing	Hydro One emailed Metis Nation of Ontario with an attached letter to provide a project update to follow up on a previous project notice regarding the A8K/A9K Project. Hydro One provided some project information and noted that while the project was initially being assessed following the Class Environmental Assessment (EA) Screening Process, based on feedback received during the Class EA Screening Process, Hydro One was now going to assess the project following the Full Class EA Process. Hydro One noted that construction could begin for the project as early as January 2022 and be completed by Spring 2023. Hydro One offered to arrange a meeting to gather their input and discuss project details.
Métis Nation of Ontario (MNO)	Consultation Unit (MNO) - Métis Nation of Ontario (MNO) (General Mailbox)	2021-05-27	Email	Outgoing	Hydro One emailed Metis Nation of Ontario with an attached letter to provide a project update to follow up on a previous project notice regarding the A8K/A9K Project. Hydro One provided some project information and noted that while the project was initially being assessed following the Class Environmental Assessment (EA) Screening Process, based on feedback received during the Class EA Screening Process, Hydro One was now going to assess the project following the Full Class EA Process. Hydro One noted that construction could begin for the project as early as January 2022 and be completed by Spring 2023. Hydro One offered to arrange a meeting to gather their input and discuss project details.
Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Cathy Guirguis Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Liora Zimmerman - Taykwa Tagamou Nation (TTN)	2021-05-28	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation with availability to schedule a meeting time.
Olthuis Kleer Townshend (OKT LLP) Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Cguirguis - - Olthuis Kleer Townshend (OKT LLP) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Liora Zimmerman - Taykwa Tagamou Nation (TTN)	2021-06-01	Email	Incoming	Taykwa Tagamou Nation responded to Hydro One's email asking if they were available at the specified time to have a meeting.
Olthuis Kleer Townshend (OKT LLP) Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Cguirguis - - Olthuis Kleer Townshend (OKT LLP) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Liora Zimmerman - Taykwa Tagamou Nation (TTN)	2021-06-01	Email	Outgoing	Hydro One responded to Taykwa Tagamou Nation confirming their availability to have a meeting at the specified time.
Olthuis Kleer Townshend (OKT LLP) Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Cguirguis - - Olthuis Kleer Townshend (OKT LLP) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Liora Zimmerman - Taykwa Tagamou Nation (TTN)	2021-06-01	Email	Outgoing	Hydro One followed up on their response to Taykwa Tagamou Nation confirming their availability and clarifying the specified time in EDT instead of EST.
Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Cathy Guirguis Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Liora Zimmerman - Taykwa Tagamou Nation (TTN)	2021-06-07	Email	Outgoing	Hydro One sent an email to Taykwa Tagamou Nation (TTN) following up on the meeting held the week before for the A8K/A9K Line Refurbishment Project. Specific items addressed were the Archaeological Assessment and if TTN wants a monitor present and the virtual public information session. Hydro One provided a timeline for the project and Hydro One stated they were awaiting the Traditional Knowledge and Land Use workplan from TTN.
Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Cathy Guirguis Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Jessica Ward Liora Zimmerman - Taykwa Tagamou Nation (TTN)	2021-06-18	Email	Incoming	OKT LLP sent an email to Hydro One with the revised version of the Traditional Knowledge Land Use Study funding agreement.
Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Liora Zimmerman - Taykwa Tagamou Nation (TTN) Ttn Lands Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-07-09	Email	Incoming	Taykwa Tagamou Nation (TTN) expressed concern with lack of advanced notice for the field work studies. TTN states that moving forward, they hope that opportunities for involvement will be communicated with adequate notice.
Taykwa Tagamou Nation (TTN)	Arend J A Hoekstra Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Liora Zimmerman - Taykwa Tagamou Nation (TTN) Ttn Lands Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-07-09	Email	Outgoing	Hydro One acknowledged Taykwa Tagamou Nation's concerns and assured them moving forward that Hydro One will try to provide advanced notice for involvement opportunities.
Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Lands - - Taykwa Tagamou Nation (TTN) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-07-15	Email	Outgoing	Hydro One sent an email to Taykwa Tagamou Nation (TTN) containing the link to the ESA Mitigation Plan in support of the A8K/A9K Line Refurbishment Project and provided a deadline for commentary. Hydro One also invited TTN to schedule a technical meeting involving discussion of the ESA Mitigation Plan along with other environmental/project matters.
Taykwa Tagamou Nation (TTN)	Arend J A Hoekstra Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Liora Zimmerman - Taykwa Tagamou Nation (TTN)	2021-07-22	Email	Incoming	OKT LLP forwarded Hydro One the Letter Agreement with changes to section 11 and an amended Capacity Funding Agreement with placeholders for Hydro One wording.

First Nations Métis - Record of Consultation

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)	2021-07-27	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation with a letter of agreement that was sent to OKT LLP to support the planned land use study and monitor position. Hydro One noted that they will follow-up to set up technical meetings.
Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)	2021-07-27	Email	Outgoing	Hydro One thanked Taykwa Tagamou Nation for their phone call and provided a proposed schedule for technical meetings.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Lands - - Taykwa Tagamou Nation (TTN) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-07-29	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation with a link and credentials for a file share to download documents.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Lands - - Taykwa Tagamou Nation (TTN) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-07-29	Email	Outgoing	Hydro One emailed Shared Values Solutions to thank them for their phone call and confirming that they will be sending their comments on the ESA Mitigation Plan by end of the following week.
Taykwa Tagamou Nation (TTN)	Arend J A Hoekstra Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Liora Zimmerman - Taykwa Tagamou Nation (TTN)	2021-07-30	Email	Incoming	OKT LLP emailed Cassels Brock & Blackwell LLP with an attachment of a fully executed letter agreement and associated BCR.
Beaverhouse First Nation	Beaverhouse First Nation Reception - Beaverhouse First Nation (Reception)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Beaverhouse First Nation	Beaverhouse First Nation Director of operations - Beaverhouse First Nation (Director of Operations)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Beaverhouse First Nation	Marlene Souriol - Beaverhouse First Nation	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Beaverhouse First Nation	Wayne Wabie - Beaverhouse First Nation (Chief)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Beaverhouse First Nation	Nancy Wabie - Beaverhouse First Nation (Band Manager)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Beaverhouse First Nation	Marcia Brown Martel - Beaverhouse First Nation	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Matachewan First Nation	Jason Batisse - Matachewan First Nation (Chief)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Matachewan First Nation	Marilyn Groulx - Matachewan First Nation (Band Manager)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Matachewan First Nation	Cathy Yandeu - Matachewan First Nation (Lands & Resources Coordinator)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Wahgoshig First Nation	Juliet June Mary Black - Wahgoshig First Nation (Chief)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Wahgoshig First Nation	David Morris - Wahgoshig First Nation (Deputy Chief)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Wahgoshig First Nation	Craig Aldred - Wahgoshig First Nation (Governance Strategic / Energy Officer)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Wahgoshig First Nation	Joel Babin - Wahgoshig First Nation	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Wahgoshig First Nation	Mylon Ollila - Wahgoshig First Nation (Executive Director)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Northern Lights Métis Council	Urgel Courville - Northern Lights Métis Council (President)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Timmins Métis Council	Pete Lefebvre - Timmins Métis Council (President)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Timmins Métis Council	Leanne Larkin - Timmins Métis Council (Office Administrator)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Timmins Métis Council	Jacques Picotte - Timmins Métis Council (President)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Wabun Tribal Council	Chris McKay - Wabun Tribal Council (Economic Development Advisor)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Wabun Tribal Council	Edadvisor - - Wabun Tribal Council	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Métis Nation of Ontario (MNO)	Jennifer Frappier - Métis Nation of Ontario (MNO) (Office Manager)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Métis Nation of Ontario (MNO)	Andy Lefebvre - Métis Nation of Ontario (MNO) (Mineral Development Advisor)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
Métis Nation of Ontario (MNO)	Consultation Unit (MNO) - Métis Nation of Ontario (MNO) (General Mailbox)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Indigenous Communities on the project contact list.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)	2021-08-05	Email	Incoming	Taykwa Tagamou Nation confirmed that the meeting time works for them.

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Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Lands - - Taykwa Tagamou Nation (TTN) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-08-06	Email	Outgoing	Hydro One sent a Notice of CIC #1 Invitation to Taykwa Tagamou Nation.
Taykwa Tagamou Nation (TTN)	Chris Wagner Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Jessica Ward	2021-08-06	Email	Outgoing	Hydro One emailed Shared Value Solutions (SVS) to thank them for the meeting and sent a schedule of technical meetings for the project. Hydro One requested a draft agenda from SVS and stated that Hydro One would prepare slides based on the general event topics.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)	2021-08-06	Email	Outgoing	Hydro One replied to Taykwa Tagamou Nation that they would talk to them that afternoon in the meeting.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Jessica Ward Jody Duncan Lands - - Taykwa Tagamou Nation (TTN) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-08-06	Email	Incoming	Shared Value Solutions (SVS) emailed Hydro One to thank them for the meeting to schedule technical meetings for the project. SVS noted that they have experienced a delay and will be unable to submit their comments on the ESA Mitigation Plan but they hoped to send their comments in the following week.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Jessica Ward	2021-08-06	Email	Incoming	Shared Value Solutions emailed Hydro One to thank them for meeting with them and stated that they would be in touch regarding the agenda for the August 18th meeting, technical meeting #4, and Taykwa Tagamou Nation's availability for the Community Information Centre meeting.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan Lands - - Taykwa Tagamou Nation (TTN) Theron Sutherland Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-08-11	Email	Incoming	Shared Value Solutions emailed Hydro One with an attachment containing Taykwa Tagamou Nation's comments and recommendations on the ESA Mitigation Plan.
Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Edmund Gus Erica Werhun Jessica Ward Jody Duncan Michael Desjarlais Ryan Martens - Forbes Bros. Group of Companies Scott Shipper Stan Sutherland - Taykwa Tagamou Nation (TTN) (Lands and Resources - Data Collector) Theron Sutherland	2021-08-18	Meeting		The Technical Meeting with Taykwa Tagamou Nation covered the following topics: reporting schedules; Stage 2 Archaeology Study scheduled date; ESA Mitigation Plan; and Technical Meetings schedule.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun Jessica Ward Lands - - Taykwa Tagamou Nation (TTN) Ryan Martens - Forbes Bros. Group of Companies	2021-08-19	Email	Outgoing	Hydro One shared the contact information for Forbes and Taykwa Tagamou Nation with Shared Value Solutions.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Lands - - Taykwa Tagamou Nation (TTN)	2021-08-19	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation and Shared Value Solutions to thank them for their meeting. They sent the Natural Environment Study Report for their review and requested comments back by September 6, 2021.
Beaverhouse First Nation	Beaverhouse First Nation	2021-08-24	Phone	Outgoing	Hydro One spoke with the receptionist at Beaverhouse First Nation and they advised to send an email to their Chief directly.
Matachewan First Nation	Matachewan First Nation	2021-08-24	Phone	Outgoing	Hydro One had a phone call with Matachewan First Nation and was advised to send an email to a contact.
Wahgoshig First Nation	Wahgoshig First Nation	2021-08-24	Phone	Outgoing	Hydro One called and left a message for Wahgoshig First Nation with the details about the meeting and requested to be called back.
Taykwa Tagamou Nation (TTN)	Chris Wagner Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron Sutherland	2021-08-25	Email	Outgoing	Hydro One emailed Shared Value Solution with a proposed schedule for technical meetings and asked if they could confirm if the dates work for them and Taykwa Tagamou Nation.

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Taykwa Tagamou Nation (TTN)	Chris Wagner Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron Sutherland	2021-08-25	Email	Outgoing	Hydro One emailed Shared Value Solutions with an attached PowerPoint presentation from Technical Meeting #1.
C-27875 - does this belong with A8K/A9K?		2021-08-25	Email	Outgoing	Response from Economic Development Officer regarding projects.
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)	2021-08-27	Email	Outgoing	Hydro One emailed Taykwa Tagamou Nation (TTN) stating that they would circle back with them regarding the possibility of a Community Information Centre event during the evening of September 8th. Hydro One asked for TTN to share the safety requirements in case they would like Hydro One to attend and participate in-person.
Taykwa Tagamou Nation (TTN)	Chris Wagner Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Ryan Martens - Forbes Bros. Group of Companies Stan Sutherland Theron Sutherland	2021-09-02	Email	Incoming	Forbes Bros Ltd. emailed Shared Value Solutions (SVS) with an attachment of the Field Technician Summary for the two monitors that will be attending the archaeology field study scheduled for September 13, 2021. Forbes Bros mentioned that funding for both monitors from the community is in place. They requested that SVS provide clarification as to why Taykwa Tagamou Nation was requesting additional resource support, as they had previously requested two community members to assist with field work but were now requesting an additional third-party archaeologist.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Ryan Martens - Forbes Bros. Group of Companies Stan Sutherland Theron Sutherland	2021-09-02	Email	Incoming	Shared Value Solutions (SVS) emailed Forbes Bros Ltd. to follow up on two monitor positions for archaeology work for the Project. SVS requested details, dates, and locations of Stage 2 field work, so they could work with Taykwa Tagamou Nation to find appropriate community members to participate.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-09-02	Email	Incoming	Shared Value Solutions emailed Hydro One to thank them for sending a copy of the Community Information Centre #1 presentation.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-09-02	Email	Incoming	Shared Value Solutions (SVS) emailed Hydro One to thank them for providing suggested dates for the next technical meetings. SVS reviewed the dates with Taykwa Tagamou Nation (TTN) and proposed new ones for the technical meetings. SVS reviewed the list of upcoming permits/reports for the Project with TTN. TTN requested that consultation on permits/reports become more streamlined to allow for better review. SVS shared a list of high priority permits/reports that they requested Hydro One provide in one package to TTN for review and comment.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Ryan Martens - Forbes Bros. Group of Companies Stan Sutherland Theron Sutherland	2021-09-03	Email	Incoming	Shared Value Solutions (SVS) thanked Forbes Bros Ltd. for their response and for providing the requested details on the two monitor positions. SVS shared that Taykwa Tagamou Nation was requesting funding to retain an independent third-party archaeologist to accompany their monitors.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-09-03	Email	Incoming	Shared Value Solutions (SVS) emailed Hydro One to provide an update regarding the Taykwa Tagamou Nation (TTN) Community Information Centre. TTN requested that the event be postponed to the week after September 8th. SVS to provide more details in the future on the specific date that week.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-09-07	Email	Outgoing	Hydro One emailed Shared Value Solutions confirming that they are good to push the Community Information Centre to the next week. They inquired if September 15th would work and wanted to confirm if Taykwa Tagamou Nation would like Hydro One to attend in-person or if they are to host the meeting virtually.

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan Lands - - Taykwa Tagamou Nation (TTN)	2021-09-07	Email	Outgoing	Hydro One emailed Shared Value Solutions (SVS) stating that an extension for the review of the Natural Environment Study Report is okay with them, and thanked SVS for accommodating the reviews.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-09-07	Email	Outgoing	Hydro One emailed Shared Value Solutions (SVS) sharing a link to a file transfer website. Hydro One confirmed that they approve with the proposed dates for the technical meetings and would send out calendar invitations soon. Hydro One stated that they would require a review of the Watercourse Crossing Assessment report by September 24th in order to accommodate deadlines for permit submissions.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan Lands - - Taykwa Tagamou Nation (TTN)	2021-09-08	Email	Incoming	Shared Value Solutions thanked Hydro One for confirmation on extending deadlines for reviews.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan Lands - - Taykwa Tagamou Nation (TTN)	2021-09-08	Email	Outgoing	Hydro One emailed Shared Value Solutions (SVS) and Taykwa Tagamou Nation (TTN) to inform them that Hydro One will be working on plans for managing the invasive species found along the transmission line structures, and will keep SVS and TTN updated on their plans.
Taykwa Tagamou Nation (TTN)	Chris Wagner Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Ryan Martens - Forbes Bros. Group of Companies Stan Sutherland Theron Sutherland	2021-09-09	Email	Outgoing	Hydro One emailed Shared Value Solutions and Forbes Bros Ltd. to request a phone call for discussing capacity funding for Taykwa Tagamou Nation.
Taykwa Tagamou Nation (TTN)	Chris Wagner Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Ryan Martens - Forbes Bros. Group of Companies Scott Shipper Stan Sutherland Theron Sutherland	2021-09-09	Email	Incoming	Forbes Brothers Ltd. emailed Shared Value Solutions inquiring if they had found two Taykwa Tagamou Nation (TTN) candidates that would be assisting their archaeologist and stating that they would like to connect the TTN candidates with the Project archaeologist.
Taykwa Tagamou Nation (TTN)	Chris Wagner Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Ryan Martens - Forbes Bros. Group of Companies Stan Sutherland Theron Sutherland	2021-09-09	Email	Outgoing	Hydro One emailed Shared Value Solutions (SVS) to confirm a meeting time with them.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Ryan Martens - Forbes Bros. Group of Companies Stan Sutherland Theron Sutherland	2021-09-09	Email	Incoming	Shared Value Solutions (SVS) emailed Forbes Brothers to inquire if they had any updates on their discussion with Hydro One regarding Taykwa Tagamou Nation's request for funding to retain an independent third-party archaeologist.

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Organisation	Stakeholders	Date	Type of communication	Origin	Summary
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Ryan Martens - Forbes Bros. Group of Companies Stan Sutherland Theron Sutherland	2021-09-09	Email	Incoming	Shared Value Solutions (SVS) emailed Hydro One to ask if 4pm EST would work with their schedule for a meeting.
B Corporation Taykwa Tagamou Nation (TTN)	Chris Wagner Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun Jessica Ward Jody Duncan Lands - - Taykwa Tagamou Nation (TTN) Liora Zimmerman - Taykwa Tagamou Nation (TTN)	2021-09-09	Email	Incoming	Shared Value Solutions (SVS) emailed Hydro One suggesting that a Taykwa Tagamou Nation trapper do the work required and pay them through a nuisance beaver removal contract typical of the ones provided by CN and MTO.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun Jessica Ward Jody Duncan Lands - - Taykwa Tagamou Nation (TTN)	2021-09-09	Email	Outgoing	Hydro One emailed Shared Value Solutions (SVS) stating that Forbes would be adhering to general protocols as they relate to invasive species management at the specific sites the species were found at. Hydro One requested Taykwa Tagamou Nation's input on how Forbes proposed to manage beaver dams that were located on some watercourse crossings
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan Lands - - Taykwa Tagamou Nation (TTN)	2021-09-09	Email	Incoming	Shared Value Solutions (SVS) emailed Hydro One thanking them for the notification on the presence of invasive species along the right-of-way. SVS inquired if Forbes would be adhering to the Clean Equipment Protocol for Industry only in areas where invasive species were documented. SVS requested to be kept updated on Hydro One's invasive species management plans.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-09-09	Email	Outgoing	Hydro One thanked Shared Value Solutions (SVS) and requested to let Hydro One know at their earliest convenience so they may book accommodations as needed.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-09-09	Email	Incoming	Shared Value Solutions (SVS) thanked Hydro One for their flexibility in pushing the Community Information Centre event to the following week. SVS stated that they would have answers to Hydro One's questions early in the following week.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Ryan Martens - Forbes Bros. Group of Companies Stan Sutherland Theron Sutherland	2021-09-10	Email	Incoming	Shared Value Solutions (SVS) emailed Hydro One and updated them that SVS was still waiting to get additional direction from their client and legal counsel before proceeding. SVS noted that they may be in touch later that morning to set up a meeting.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Ryan Martens - Forbes Bros. Group of Companies Scott Shipper Stan Sutherland Theron Sutherland	2021-09-10	Email	Incoming	Shared Value Solutions thanked Forbes Brothers for following up and stated that they hoped to have the information to them later that day.

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Organisation	Stakeholders	Date	Type of communication	Origin	Summary
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Ryan Martens - Forbes Bros. Group of Companies Stan Sutherland Theron Sutherland	2021-09-10	Email	Incoming	Shared Value Solutions emailed Hydro One to ask about their availability for scheduling a meeting.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun Jessica Ward Jody Duncan Lands - - Taykwa Tagamou Nation (TTN) Liora Zimmerman - Taykwa Tagamou Nation (TTN)	2021-09-10	Email	Incoming	Shared Value Solutions (SVS) emailed Hydro One thanking them for the meeting. SVS requested that Hydro One confirm expectations for general protocols from the Clean Equipment Protocol for Industry that would be adhered to for the project area where invasive species were documented.
B Corporation Taykwa Tagamou Nation (TTN)	Chris Wagner Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-09-14	Email	Outgoing	Hydro One emailed Shared Value Solution (SVS) to confirm the date of the Community Information Centre. Hydro One notified that they have tentatively booked September 15th but have not confirmed the date, and requested that SVS let them know as soon as possible if the date works with them.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-09-14	Email	Incoming	Shared Value Solution (SVS) thanked Hydro One for following up. SVS stated that they have no update regarding the Community Information Centre, but would let Hydro One know as soon as they do.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun Jessica Ward Jody Duncan Lands - - Taykwa Tagamou Nation (TTN) Liora Zimmerman - Taykwa Tagamou Nation (TTN)	2021-09-14	Email	Outgoing	Hydro One emailed Shared Value Solutions (SVS) to notify them that Forbes Brothers confirmed that they will adhere to the Protocol outlined in a previous email. Hydro One provided a few details on the protocols that Forbes regularly follows.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun Jessica Ward Jody Duncan Lands - - Taykwa Tagamou Nation (TTN) Liora Zimmerman - Taykwa Tagamou Nation (TTN)	2021-09-14	Email	Incoming	Shared Value Solutions thanked Hydro One for their confirmation and the further information they provided.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan Lands - - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-09-15	Email	Incoming	Shared Value Solutions emailed Hydro One with an attachment of Taykwa Tagamou Nation's comments and recommendations on the Natural Environment Study Report for the Project.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Theron - - Taykwa Tagamou Nation (TTN)	2021-09-21	Email	Outgoing	Hydro One emailed representatives of Shared Valued Solutions and Taykwa Tagama Nation to provide updates about the IAMGOLD project.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Theron - - Taykwa Tagamou Nation (TTN)	2021-09-22	Email	Incoming	A representative of Shared Values Solutions emailed Hydro One to thank them for the updated information about the IAMGOLD project. The Share Values Solutions representative requested the contact information of the MNRF representative assigned to this portion of the project.

First Nations Métis - Record of Consultation

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-09-22	Email	Incoming	A representative of Shared Valued Solutions emailed Hydro One thanking them for the confirmed technical meeting dates. The representative requested to be put in contact with the DFO staff assigned to the Project Review. The representative stated that Taykwa Tagama Nation (TTN) is working to complete the review of the watercourse crossing assessment report for September 24.
Beaverhouse First Nation	Beaverhouse First Nation Director of operations - Beaverhouse First Nation (Director of Operations) Beaverhouse First Nation Reception - Beaverhouse First Nation (Reception) Erica Werhun - Forbes Bros. Group of Companies Marlene Souriol - Beaverhouse First Nation Wayne Wabie - Beaverhouse First Nation (Chief)	2021-09-23	Email	Outgoing	Hydro One emailed the Chief of Beaverhouse First Nation to provide an update on the A8K/A9K project. During the watercourse crossing assessments beaver dams were spotted and Hydro One is proposing to remove them. Hydro One provided pictures for reference and offered for a trapper in the community to be a part of the process.
Wahgoshig First Nation	Craig Aldred - Wahgoshig First Nation (Governance Strategic / Energy Officer) Erica Werhun - Forbes Bros. Group of Companies Joel Babin - Wahgoshig First Nation Juliet June Mary Black - Wahgoshig First Nation (Chief) Mylon Ollila - Wahgoshig First Nation (Executive Director)	2021-09-23	Email	Outgoing	Hydro One emailed the Chief of Wahgoshig First Nation to provide an update on the A8K/A9K project. During the watercourse crossing assessments beaver dams were spotted and Hydro One is proposing to remove them. Hydro One provided pictures for reference and offered for a trapper in the community to be a part of the process.
Wabun Tribal Council	Chris McKay - Wabun Tribal Council (Economic Development Advisor) Erica Werhun - Forbes Bros. Group of Companies Jason Batisse - Wabun Tribal Council (Executive Director)	2021-09-23	Email	Incoming	A representative of Wabun Tribal Council emailed Hydro One stating that they have members that can assist with the beaver trapping. The representative requested further clarification of the location and whether they should be trapped or hunted.
Wabun Tribal Council	Chris McKay - Wabun Tribal Council (Economic Development Advisor) Edadvisor - - Wabun Tribal Council Erica Werhun - Forbes Bros. Group of Companies Jason Batisse - Wabun Tribal Council (Executive Director)	2021-09-23	Email	Outgoing	Hydro One emailed a representative of Wabun Tribal Council to provide an update on the A8K/A9K project. During the watercourse crossing assessments beaver dams were spotted and Hydro One is proposing to remove them. Hydro One provided pictures for reference and offered for a trapper in the community to be a part of the process.
Matachewan First Nation Wabun Tribal Council	Cathy Yandea - Matachewan First Nation (Lands & Resources Coordinator) Erica Werhun - Forbes Bros. Group of Companies Jason Batisse - Wabun Tribal Council (Executive Director) Marilyn Groulx - Matachewan First Nation (Band Manager)	2021-09-23	Email	Outgoing	Hydro One emailed the Chief of Matachewan First Nation to provide an update on the A8K/A9K project. During the watercourse crossing assessments beaver dams were spotted and Hydro One is proposing to remove them. Hydro One provided pictures for reference and offered for a trapper in the community to be a part of the process.
Métis Nation of Ontario (MNO) Northern Lights Métis Council	Consultation Unit (MNO) - Métis Nation of Ontario (MNO) (General Mailbox) Erica Werhun - Forbes Bros. Group of Companies Urgel Courville - Northern Lights Métis Council (President)	2021-09-23	Email	Outgoing	Hydro One emailed the President of Metis Nation of Ontario to provide an update on the A8K/A9K project. During the watercourse crossing assessments beaver dams were spotted and Hydro One is proposing to remove them. Hydro One provided pictures for reference and offered for a trapper in the community to be a part of the process.
Métis Nation of Ontario (MNO) Timmins Métis Council	Consultation Unit (MNO) - Métis Nation of Ontario (MNO) (General Mailbox) Erica Werhun - Forbes Bros. Group of Companies Leanne Larkin - Timmins Métis Council (Office Administrator) Pete Lefebvre - Timmins Métis Council (President)	2021-09-23	Email	Outgoing	Hydro One emailed the President of the Timmins Metis Council to provide an update on the A8K/A9K project. During the watercourse crossing assessments beaver dams were spotted and Hydro One is proposing to remove them. Hydro One provided pictures for reference and offered for a trapper in the community to be a part of the process.
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Ed Gus Erica Werhun - Forbes Bros. Group of Companies Ryan Martens - Forbes Bros. Group of Companies	2021-09-24	Email	Incoming	A representative of Forbes Bros emailed a representative of Taykwa Tagamou Nation thanking them for their interest in participating in the beaver trapping. The Forbes Bros representative provided pictures and a map of the area, stating that they are aiming to have the dams removed in mid to late October.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-09-29	Email	Outgoing	A representative of the Department of Fisheries and Oceans thanked a representative of Shared Valued Solutions Ltd. for providing Taykwa Tagamou Nation's review to the reports.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-09-29	Email	Incoming	A representative of Shared Value Solutions emailed Hydro One thanking them for confirming that they received Taykwa Tagamou Nation's review and for providing the contact information for the Department of Fisheries and Oceans biologist.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-09-29	Email	Outgoing	Hydro One emailed a representative of Shared Value Solutions Ltd following up to see if Taykwa Tagamou Nation is still interested in having a Community Information Centre. Hydro One also requested that the representative send a proposed agenda for their second technical meeting.

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-09-29	Email	Outgoing	Hydro One emailed a representative of Shared Value Solutions stating that the Draft ESR will be available the week of October 18 and asked if Taykwa Tagamou Nation would like it on a USB and mailed to them.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-09-29	Email	Incoming	A representative of Shared Value Solutions emailed Hydro One thanking them for following up about the Community Information Centre (CIC). The representative stated that Taykwa Tagamou Nation (TTN) is interested in having a CIC but it would need to be scheduled after their fall hunt in October. Th representaive requested a timeline for the draft ESR. The representative stated they would send the proposed meeting agenda for the meeting with Hydro One this week.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-10-01	Email	Outgoing	Hydro One emailed the representative of Shared Value Solutions thanking them for confirming and that they will mail the ESR hard copies to the address provided.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-10-01	Email	Incoming	The representative of Shared Value Solutions provided the address to mail the hard copy ESR documents to TTN.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-10-01	Email	Incoming	The representative of Shared Value Solutions emailed Hydro One to provide the proposed agenda items for the technical meeting.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-10-01	Email	Incoming	Shared Value Solution representative thanked Hydro One for acknowledging their email about the proposed agenda for the technical meeting.
Wabun Tribal Council	Chris McKay - Wabun Tribal Council (Economic Development Advisor) Edadvisor - - Wabun Tribal Council Erica Werhun - Forbes Bros. Group of Companies Jason Batisse - Wabun Tribal Council (Executive Director)	2021-10-01	Email	Outgoing	Hydro One emailed Wabun Tribal Council apologizing for the delayed response and that they are confirming with Ministry of Natural Resources and Forestry if the area is within existing trap lines.
MNO	Randy Lance	2021-10-05	Email	Incoming	A Metis citizen emailed Hydro One to inquire where the project is taking place and how many dams are expected for dam removal. They provided their contact information to pass along to the Contractor and expressed interest in assisting with dam removals.
MNO	Randy Lance	2021-10-06	Email	Outgoing	Hydro One emailed back thanking them for their interest in assisting with beaver dam removals. Hydro One provided a map of the project area and indicated that their Contractor representatives were cc'd and will reach out directly to discuss any opportunities.
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Ed Gus Erica Werhun - Forbes Bros. Group of Companies Ryan Martens - Forbes Bros. Group of Companies	2021-10-06	Email	Incoming	Hydro One emailed a representative of TTN to provide Google Earth maps of the beaver dam locations.
B Corporation Taykwa Tagamou Nation (TTN)	Chris Wagner Dwight Sutherland - Taykwa Tagamou Nation (TTN) Stan Sutherland Theron Sutherland Ttn Lands	2021-10-06	Email	Incoming	A representative of TTN emailed Hydro One stating to go ahead with the meeting and representatives of Shared Value Solutions would provide them with an update.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Lands - - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-10-06	Email	Outgoing	Hydro One emailed a representative of TTN stating that they had a productive meeting and Hydro One looks forward to any additional comments from TTN.
MNO	Randy Lance	2021-10-06	Email	Outgoing	Hydro One's Contractor reached out to inform them that they have already secured a trapper for the project and appreciate their interest in helping out.

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Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Taykwa Tagamou Nation (TTN)	Chris Wagner Derek Archibald Dwight Sutherland Stan Sutherland Theron Sutherland Scott MacKay - SVS Jody Duncan - SVS	2021-10-07	Email	Incoming	SVS thanked Hydro One for the discussions at the technical meeting and provided several follow-up questions related to fish salvage and beaver dam removals. SVS also indicated they look forward to receiving several project documents.
Beaverhouse First Nation	Beaverhouse First Nation Director of operations - Beaverhouse First Nation (Director of Operations)	2021-10-12	Email	Outgoing	Dillon Consulting provided a copy of the Draft Environmental Study Report (ESR) to a representative of Beaverhouse First Nation, noting that it will be available for a 30- day public review period beginning October 18. Dillon Consulting also provided the Notice of Completion which includes information about how to view and submit comments to Hydro One. A hard copy and USB of the ESR will be sent via registered mail.
Beaverhouse First Nation	Wayne Wabie - Beaverhouse First Nation (Chief)	2021-10-12	Email	Outgoing	Dillon Consulting provided a copy of the Draft Environmental Study Report (ESR) to a representative of Beaverhouse First Nation, noting that it will be available for a 30- day public review period beginning October 18. Dillon Consulting also provided the Notice of Completion which includes information about how to view and submit comments to Hydro One. A hard copy and USB of the ESR will be sent via registered mail.
Beaverhouse First Nation	Beaverhouse First Nation Reception - Beaverhouse First Nation (Reception) Marlene Souriol - Beaverhouse First Nation	2021-10-12	Email	Outgoing	Dillon Consulting provided a copy of the Draft Environmental Study Report (ESR) to a representative of Beaverhouse First Nation, noting that it will be available for a 30- day public review period beginning October 18. Dillon Consulting also provided the Notice of Completion which includes information about how to view and submit comments to Hydro One. A hard copy and USB of the ESR will be sent via registered mail.
Matachewan First Nation	Marilyn Groulx - Matachewan First Nation (Band Manager)	2021-10-12	Email	Outgoing	Dillon Consulting provided a copy of the Draft Environmental Study Report (ESR) to a representative of Matachewan First Nation, noting that it will be available for a 30- day public review period beginning October 18. Dillon Consulting also provided the Notice of Completion which includes information about how to view and submit comments to Hydro One. A hard copy and USB of the ESR will be sent via registered mail.
Matachewan First Nation	Cathy Yandea - Matachewan First Nation (Lands & Resources Coordinator)	2021-10-12	Email	Outgoing	Dillon Consulting provided a copy of the Draft Environmental Study Report (ESR) to a representative of Matachewan First Nation, noting that it will be available for a 30- day public review period beginning October 18. Dillon Consulting also provided the Notice of Completion which includes information about how to view and submit comments to Hydro One. A hard copy and USB of the ESR will be sent via registered mail.
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)	2021-10-12	Email	Outgoing	Dillon Consulting provided a copy of the Draft Environmental Study Report (ESR) to a representative of Taykwa Tagamou Nation, noting that it will be available for a 30- day public review period beginning October 18. Dillon Consulting also provided the Notice of Completion which includes information about how to view and submit comments to Hydro One. A hard copy and USB of the ESR will be sent via registered mail.
Taykwa Tagamou Nation (TTN)	Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-10-12	Email	Outgoing	Dillon Consulting provided a copy of the Draft Environmental Study Report (ESR) to a representative of Taykwa Tagamou Nation, noting that it will be available for a 30- day public review period beginning October 18. Dillon Consulting also provided the Notice of Completion which includes information about how to view and submit comments to Hydro One. A hard copy and USB of the ESR will be sent via registered mail.
Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer)	2021-10-12	Email	Outgoing	Dillon Consulting provided a copy of the Draft Environmental Study Report (ESR) to a representative of Taykwa Tagamou Nation, noting that it will be available for a 30- day public review period beginning October 18. Dillon Consulting also provided the Notice of Completion which includes information about how to view and submit comments to Hydro One. A hard copy and USB of the ESR will be sent via registered mail.
Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)	2021-10-12	Email	Outgoing	Dillon Consulting provided a copy of the Draft Environmental Study Report (ESR) to a representative of Taykwa Tagamou Nation, noting that it will be available for a 30- day public review period beginning October 18. Dillon Consulting also provided the Notice of Completion which includes information about how to view and submit comments to Hydro One. A hard copy and USB of the ESR will be sent via registered mail.
Taykwa Tagamou Nation (TTN)	Dwight Sutherland - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN) Stan Sutherland	2021-10-12	Email	Outgoing	Hydro One emailed representatives of the TTN to provide a copy of the Environmental Study Report. Hydro One noted that the document outlines the Environmental Assessment process and will be open for a public review and comment period beginning on October 18, for 30 days. Hydro One stated that a Notice of Public Review will be mailed to residents in the project area.
Wahgoshig First Nation	Craig Aldred - Wahgoshig First Nation (Governance Strategic / Energy Officer)	2021-10-12	Email	Outgoing	Dillon Consulting provided a copy of the Draft Environmental Study Report (ESR) to a representative of Wahgoshig First Nation, noting that it will be available for a 30- day public review period beginning October 18. Dillon Consulting also provided the Notice of Completion which includes information about how to view and submit comments to Hydro One. A hard copy and USB of the ESR will be sent via registered mail.
Wahgoshig First Nation	Mylon Ollila - Wahgoshig First Nation (Executive Director)	2021-10-12	Email	Outgoing	Dillon Consulting provided a copy of the Draft Environmental Study Report (ESR) to a representative of Wahgoshig First Nation, noting that it will be available for a 30- day public review period beginning October 18. Dillon Consulting also provided the Notice of Completion which includes information about how to view and submit comments to Hydro One. A hard copy and USB of the ESR will be sent via registered mail.

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Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Wahgoshig First Nation	Joel Babin - Wahgoshig First Nation Juliet June Mary Black - Wahgoshig First Nation (Chief)	2021-10-12	Email	Outgoing	Dillon Consulting provided a copy of the Draft Environmental Study Report (ESR) to a representative of Wahgoshig First Nation, noting that it will be available for a 30- day public review period beginning October 18. Dillon Consulting also provided the Notice of Completion which includes information about how to view and submit comments to Hydro One. A hard copy and USB of the ESR will be sent via registered mail.
Northern Lights Métis Council	Urgel Courville - Northern Lights Métis Council (President)	2021-10-12	Email	Outgoing	Dillon Consulting provided a copy of the Draft Environmental Study Report (ESR) to a representative of Northern Lights Metis Council, noting that it will be available for a 30- day public review period beginning October 18. Dillon Consulting also provided the Notice of Completion which includes information about how to view and submit comments to Hydro One. A hard copy and USB of the ESR will be sent via registered mail.
Timmins Métis Council	Leanne Larkin - Timmins Métis Council (Office Administrator)	2021-10-12	Email	Outgoing	Dillon Consulting provided a copy of the Draft Environmental Study Report (ESR) to a representative of Timmins Metis Council, noting that it will be available for a 30- day public review period beginning October 18. Dillon Consulting also provided the Notice of Completion which includes information about how to view and submit comments to Hydro One. A hard copy and USB of the ESR will be sent via registered mail.
Timmins Métis Council	Pete Lefebvre - Timmins Métis Council (President)	2021-10-12	Email	Outgoing	Dillon Consulting provided a copy of the Draft Environmental Study Report (ESR) to a representative of Timmins Metis Council, noting that it will be available for a 30- day public review period beginning October 18. Dillon Consulting also provided the Notice of Completion which includes information about how to view and submit comments to Hydro One. A hard copy and USB of the ESR will be sent via registered mail.
Wabun Tribal Council	Jason Batisse - Wabun Tribal Council (Executive Director)	2021-10-12	Email	Outgoing	Dillon Consulting provided a copy of the Draft Environmental Study Report (ESR) to a representative of Wabun Tribal Council, noting that it will be available for a 30- day public review period beginning October 18. Dillon Consulting also provided the Notice of Completion which includes information about how to view and submit comments to Hydro One. A hard copy and USB of the ESR will be sent via registered mail.
Wabun Tribal Council	Chris McKay - Wabun Tribal Council (Economic Development Advisor) Edadvisor - - Wabun Tribal Council	2021-10-12	Email	Outgoing	Dillon Consulting provided a copy of the Draft Environmental Study Report (ESR) to a representative of Wabun Tribal Council, noting that it will be available for a 30- day public review period beginning October 18. Dillon Consulting also provided the Notice of Completion which includes information about how to view and submit comments to Hydro One. A hard copy and USB of the ESR will be sent via registered mail.
Matachewan First Nation Wabun Tribal Council	Jason Batisse - Wabun Tribal Council (Executive Director)	2021-10-12	Email	Outgoing	Dillon Consulting provided a copy of the Draft Environmental Study Report (ESR) to a representative of Wabun Tribal Council, noting that it will be available for a 30- day public review period beginning October 18. Dillon Consulting also provided the Notice of Completion which includes information about how to view and submit comments to Hydro One. A hard copy and USB of the ESR will be sent via registered mail.
Métis Nation of Ontario (MNO)	Consultation Unit (MNO) - Métis Nation of Ontario (MNO) (General Mailbox)	2021-10-12	Email	Outgoing	Dillon Consulting provided a copy of the Draft Environmental Study Report (ESR) to a representative of Metis Nation of Ontario, noting that it will be available for a 30- day public review period beginning October 18. Dillon Consulting also provided the Notice of Completion which includes information about how to view and submit comments to Hydro One. A hard copy and USB of the ESR will be sent via registered mail.
Métis Nation of Ontario (MNO)	Consultation Unit (MNO) - Métis Nation of Ontario (MNO) (General Mailbox)	2021-10-12	Email	Outgoing	Dillon Consulting provided a copy of the Draft Environmental Study Report (ESR) to a representative of Metis Nation of Ontario, noting that it will be available for a 30- day public review period beginning October 18. Dillon Consulting also provided the Notice of Completion which includes information about how to view and submit comments to Hydro One. A hard copy and USB of the ESR will be sent via registered mail.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Stan Sutherland Theron Sutherland	2021-10-14	Email	Incoming	A representative of Shared Value Solutions emailed Hydro One to follow up on a request to provide further details on the remuneration for the potential TTN community member involved in the fish salvage efforts and the expected date, duration and location of the fish salvage activities.
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Lands - - Taykwa Tagamou Nation (TTN)	2021-10-15	Email	Outgoing	Hydro One emailed the Deputy Chief of TTN to share previous correspondence with TTN's lawyer in the establishment of a funding agreement. Hydro One noted that they hope this reaffirms Hydro One's commitment to developing and maintaining a respectful and positive relationship.
Taykwa Tagamou Nation (TTN)	Chris Wagner - SVS Derek Archibald Dwight Sutherland Stan Sutherland Theron Sutherland Scott Mackay - SVS Jody Duncan - SVS	2021-10-15	Email	Incoming	SVS emailed to update Hydro One that they have not found a date for the CIC and that TTN's election has just finished with a new council convening in the coming weeks and will provide an update then. SVS mentioned that they will be assessing dates with TTN for the helicopter ROW tour and will follow up.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Theron - - Taykwa Tagamou Nation (TTN)	2021-10-15	Email	Outgoing	Hydro One emailed a representative of Shared Valued Solutions which included Hydro One's response packages to TTN's technical reviews of the following documents: <ul style="list-style-type: none"> •ESA Mitigation Plan •Natural Environmental Study Report •Aquatic Habitat Assessment Report
					Hydro One noted that the ESR will soon be available for download and a hard copy with a USB will be sent to TTN.

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B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Theron - - Taykwa Tagamou Nation (TTN)	2021-10-18	Email	Incoming	SVS thanked Hydro One for the response packages and update on the draft ESR.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Theron - - Taykwa Tagamou Nation (TTN)	2021-10-18	Email	Outgoing	Hydro One emailed TTN and a representative of Shared Value Solutions to provide notice that the draft ESR is now available to view online and provided the appropriate links.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Theron - - Taykwa Tagamou Nation (TTN)	2021-10-19	Email	Incoming	SVS emailed Hydro One to thank them for links to the draft ESR's.
Taykwa Tagamou Nation (TTN)	Chris Wagner - SVS Derek Archibald Dwight Sutherland Stan Sutherland Theron Sutherland Scott Mackay - SVS Jody Duncan - SVS	2021-10-20	Email	Incoming	SVS emailed Hydro One with some questions regarding the helicopter ROW tour in regards to which company would be used and if its possible to take aerial photos
Taykwa Tagamou Nation (TTN)	Chris Wagner - SVS Derek Archibald Dwight Sutherland Stan Sutherland Theron Sutherland Scott Mackay - SVS Jody Duncan - SVS	2021-10-21	Email	Incoming	SVS followed up on their inquiry to provide further details on the remuneration for the potential TTN community member involved in the fish salvage.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Ryan Martens - Forbes Bros. Group of Companies Theron - - Taykwa Tagamou Nation (TTN)	2021-10-21	Email	Outgoing	Hydro One emailed Shared Value Solutions stating that Forbes has been added to email chain and will update directly about the fish salvage efforts.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Theron - - Taykwa Tagamou Nation (TTN)	2021-10-21	Email	Outgoing	Hydro One emailed a representative of Shared Value Solutions to discuss helicopter details about the Right Of Way tour. Hydro One stated that it should not be a problem sharing aerial photos from the helicopter with TTN.
B Corporation Taykwa Tagamou Nation (TTN)	Chris Wagner Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Ryan Martens - Forbes Bros. Group of Companies Theron - - Taykwa Tagamou Nation (TTN)	2021-10-22	Email	Incoming	Shared Value Solutions thanked Hydro One for the information and asked to be updated on if TTN's trapper is interested / available for the fish salvage and dam removal efforts. Shared Value Solutions stated that if needed, they can work with TTN to try and find an alternative.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Ryan Martens - Forbes Bros. Group of Companies Theron - - Taykwa Tagamou Nation (TTN)	2021-10-22	Email	Incoming	Hydro One provided information about the fish savage/dam removal including TTN compensation, duration and dates. Hydro One provided a map of the location.
B Corporation Taykwa Tagamou Nation (TTN)	Chris Wagner Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Ryan Martens - Forbes Bros. Group of Companies Theron - - Taykwa Tagamou Nation (TTN)	2021-10-25	Email	Incoming	A representative of Shared value Solutions emailed Hydro One thanking them for the update about TTN's trapper being interested in helping with the fish salvage.
B Corporation Taykwa Tagamou Nation (TTN)	Chris Wagner Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Ryan Martens - Forbes Bros. Group of Companies Theron - - Taykwa Tagamou Nation (TTN)	2021-10-25	Email	Incoming	Hydro One emailed Shared Value Solutions to state that they have received confirmation that TTN's trapper is interested and planning on helping with the fish salvage.

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Theron - - Taykwa Tagamou Nation (TTN)	2021-10-26	Email	Incoming	Shared Value Solutions thanked Hydro One for the information and providing further context regarding the helicopter used for the ROW tour.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jessica Ward Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-10-28	Email	Incoming	Shared Value Solutions emailed Hydro One asking if Hydro One plans on submitting a request for a Project Review to DFO. Shared Value Solutions wanted to know if so, then which water crossing would be included in the Project Review.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jessica Ward Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-10-28	Email	Outgoing	Hydro One emailed Shared Vale Solutions to provide notice that Forbes will be submitting the submitting a Request for Review of all water crossings that are considered fish habitat to DFO and those that are covered under the DFO interim code of practice for temporary crossings. Hydro One stated that Forbes will be submitting this in mid-November.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jessica Ward Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-10-28	Email	Incoming	Shared Value Solutions emailed Hydro One thanking them for the update on the Request for Review. Shared Value Solutions noted that they look forward to being cc'd on the transmittal e-mail to DFO in mid-November.
Wahgoshig First Nation	Joel Babin - Wahgoshig First Nation Juliet June Mary Black - Wahgoshig First Nation (Chief)	2021-10-29	Email	Outgoing	Hydro One emailed the Chief of Wahgoshig First Nation to offer an opportunity to discuss the A8/A9K transmission project and any questions/concerns related to the project.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jessica Ward Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-11-02	Email	Outgoing	Hydro One emailed Shared Value Solutions to ask if they could cc one primary contact on the email to DFO instead of six.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jessica Ward Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-11-02	Email	Incoming	Shared Value Solution's asked Hydro One if they could cc the Taykwa Tagamou Nation Lands and Resources Department e-mail address; lands@taykwatagamou.com, for the DFO email.
Wahgoshig First Nation	Juliet June Mary Black - Wahgoshig First Nation (Chief)	2021-11-02	Phone	Outgoing	Hydro One spoke to Chief Black who confirmed the email on Oct 29 regarding the Draft ESR. Chief Black indicated that the package is currently waiting review of their Public Works consultant who is currently in Toronto and once they have reviewed, they will follow up and confirmed contact information.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jessica Ward Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-11-03	Email	Outgoing	Hydro One confirmed that they will cc the Lands and Resources Department on the DFO email.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Theron - - Taykwa Tagamou Nation (TTN)	2021-11-05	Email	Outgoing	Hydro One emailed a representative of Shared Value Solutions regarding some items they committed to following up with their response to TTN's review of the Aquatic Habitat Assessment Report. Hydro One attached the Sediment Control Plan and Post Construction Reclamation Plan.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Theron - - Taykwa Tagamou Nation (TTN)	2021-11-05	Email	Incoming	Shared Value Solutions thanked Hydro One for the Sediment Control Plan and Post-Construction Reclamation Plan. Shared Value Solutions stated that they will be supporting TTN with their review and will follow up with Hydro One if there are any further comments.

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Organisation	Stakeholders	Date	Type of communication	Origin	Summary
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Theron - - Taykwa Tagamou Nation (TTN)	2021-11-05	Email	Outgoing	Hydro One emailed a representative of Shared Value Solutions to suggest TTN waiting to submit formal comments on the plans provided until they have been updated to be project specific, however Hydro One noted that they will leave that decision to Shared Value Solutions and TTN.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Theron - - Taykwa Tagamou Nation (TTN)	2021-11-05	Email	Incoming	Shared Value Solutions thanked Hydro One for the additional context relating to the plan comments.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jessica Ward Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-11-05	Email	Outgoing	Hydro One emailed Shared Value Solutions and representatives of TTN to provide the updated ESA Mitigation Plan for the A8K/A9K project which has been updated to include Bobolink species coverage as per the results of the Natural Environmental Study Report and provides clarity on the differing levels of protection of Lake Sturgeon throughout the project footprint. Hydro One stated that unless there are any further comments, this will be the plan registered with the MECP.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jessica Ward Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-11-05	Email	Incoming	Shared Value Solutions emailed Hydro One to thank them for providing the updated ESA mitigation plan for the A8/A9K Project. Shared Value Solutions stated that they will be supporting TTN in their review of this plan. The representative stated that it is anticipated that there will be further comments on the ESA Mitigation Plan.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Theron - - Taykwa Tagamou Nation (TTN)	2021-11-05	Email	Outgoing	Hydro One provided photos from the IAMGOLD project showing the largest piece of equipment being used on the project and provide responses to questions/concerns about the fish salvage efforts.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jessica Ward Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-11-08	Email	Outgoing	Hydro One emailed Shared Value Solutions to note that the ESA Mitigation Plan needs to be registered with the MECP prior to construction. Hydro One asked if Shared Value Solutions and TTN to review the updated plan by November 26.
Wahgoshig First Nation	Joel Babin - Wahgoshig First Nation Juliet June Mary Black - Wahgoshig First Nation (Chief)	2021-11-09	Email	Outgoing	Hydro One emailed the Chief of Wahgoshig First Nation to ask if the public works consultant has had a chance to review the document. Hydro One provided a reminder that comments are due by November 19.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Theron - - Taykwa Tagamou Nation (TTN)	2021-11-09	Email	Outgoing	Hydro One emailed Shared Value Solutions to confirm their third technical meeting on November 17. Hydro One asked Shared Value Solutions to provide the proposed agenda for the meeting.
Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Theron - - Taykwa Tagamou Nation (TTN)	2021-11-12	Email	Incoming	SVS provided the proposed agenda for the Technical Meeting #3
Wahgoshig First Nation	Joel Babin - Wahgoshig First Nation Juliet June Mary Black - Wahgoshig First Nation (Chief)	2021-11-15	Email	Outgoing	Hydro One emailed the Chief of Wahgoshig First Nation to provide a reminder that project comments are due November 19. Hydro One noted that they have attempted to leave voicemails and were unsuccessful through the Band Office, but will continue to connect.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Theron - - Taykwa Tagamou Nation (TTN)	2021-11-15	Email	Outgoing	Hydro One thanked Shared Value Solutions and acknowledged the receipt of the meeting agenda.

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Taykwa Tagamou Nation (TTN)	Sarah Cole Justin Banninga Devi Shantilal Christina Reynolds Guillermo Zambrano Chris Wagner - Shared Value Solutions Ltd (Ecologist) Jody Duncan - Shared Value Solutions Ltd (Ecologist) Scott MacKay - Shared Value Solutions Ltd (Ecologist) Marnie Benson - Shared Value Solutions Ltd (Ecologist) Laura Taylor - Shared Value Solutions Ltd (Ecologist) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Kyle Junkin - Forbes Bros. Group of Companies Michael Desjarlais - Forbes Bros. Group of Companies Whitney Moore - Dillon Consulting Limited	2021-11-17	Meeting	Outgoing	Hydro Ones project team met with representatives of TTN and SVS to discuss comment responses and commitments to be included in the final ESR for the project.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Theron - - Taykwa Tagamou Nation (TTN)	2021-11-18	Email	Outgoing	Hydro One followed up after the third technical meeting to propose a date for the CIC. Hydro One provided options to format; virtual or in person and asked to be notified of confirmation by November 25.
Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Roger - TTN Stan Sutherland - TTN Jody Duncan - SVS Theron - - Taykwa Tagamou Nation (TTN) Scott Mackay - SVS Loria Zimmerman - OKT Law Laura Taylor - SVS Marnie Benson - SVS	2021-11-19	Email	Incoming	On behalf of TTN, SVS provided the technical review of the Environmental Study Report and their Traditional Knowledge and Land Use Study and requested HONI does not share the TKLUS outside of HONI.
Wahgoshig First Nation	Joel Babin - Wahgoshig First Nation Juliet June Mary Black - Wahgoshig First Nation (Chief)	2021-11-22	Email	Outgoing	Hydro One emailed the chief of Wahgoshig First Nation stating that they had made several attempts to reach someone or the voicemail box, but they were unable to get through. Hydro One wanted to touch base about the comments that were due November 19. Hydro One noted that they would be happy to facilitate a meeting to answer any questions about the project.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Roger - - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-11-22	Email	Outgoing	Hydro One thanked Shared Value Solutions for the review as well as Traditional Knowledge and Land Use Study. Hydro One stated that they look forward to reviewing and discussing further at the next technical meeting on December 8.
Wahgoshig First Nation	Wfnwater - - Wahgoshig First Nation	2021-11-23	Email	Outgoing	Hydro One thanked a representative of Wahgoshig First Nation for reaching out and asked if Wahgoshig had any questions related to the A8K/A9K project and the package provided. Hydro One reminded them that comments were due November 19 and stated that they are happy to set up a meeting to discuss.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Theron - - Taykwa Tagamou Nation (TTN)	2021-11-25	Email	Outgoing	Hydro One emailed Shared Value Solutions stating that they had reviewed the Aquatic Habitat Crossing Assessment Report to further address the comments from TTN, providing a link to access.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Theron - - Taykwa Tagamou Nation (TTN)	2021-11-25	Email	Incoming	Shared Value Solutions thanked Hydro One for the revised report. Shared Value Solutions stated that a review of the revised report along with comments will be provided in the future.
Beaverhouse First Nation	Quinn Hermeston - Beaverhouse First Nation (Environmental Technician)	2021-11-26	Email	Incoming	The Environmental Technician with Beaverhouse First Nations in Kirkland Lake emailed Hydro One to see if they could participate in the upcoming A8K/A9K project fieldwork.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Roger - - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-11-26	Email	Incoming	Shared Value Solutions emailed Hydro One to provide TTN's assessment of HONI responses to the technical review of the ESA Mitigation Plan.

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Organisation	Stakeholders	Date	Type of communication	Origin	Summary
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Roger - - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN) Wfnwater - - Wahgoshig First Nation	2021-11-30	Email	Outgoing	Hydro One thanked Shared Value Solutions for the quick turn around on the technical review of the ESA Mitigation Plan.
Wahgoshig First Nation		2021-12-01	Email	Outgoing	Hydro One provided a representative of Wahgoshig First Nation answers to questions related to the A8K/A9K project. Hydro One noted that the transmission line will continue to operate at the same voltage and provided a link to learn more about Electro Magnetic Fields (EMF).
Taykwa Tagamou Nation (TTN)	Chris Wagner - SVS	2021-12-02	Email	Incoming	SVS emailed Hydro One to request a quick call to discuss the format of the technical meeting #4.
Taykwa Tagamou Nation (TTN) Taykwa Tagamou Nation (TTN)	Chris Wagner - SVS Chris Wagner - SVS	2021-12-02	Email 2021-12-02 Phone	Outgoing Incoming	Hydro One confirmed a call for today at 2:30 and SVS confirmed that time worked. Hydro One and SVS discussed the format of the Technical Meeting #4 that they would be going through a document that highlighted proposed revisions to the ESR based on TTN's review and recommendations. SVS agreed on the format.
Beaverhouse First Nation	Erica Werhun - Forbes Bros. Group of Companies Quinn Hermeston - Beaverhouse First Nation (Environmental Technician)	2021-12-06	Email	Outgoing	Hydro One emailed a representative of Beaverhouse First Nation to thank them for their interest in participating in the project. Hydro One cc'd the Environmental Manager from the construction contractor (Forbes Bros) who will follow up regarding opportunities.
Beaverhouse First Nation	Erica Werhun - Forbes Bros. Group of Companies Quinn Hermeston - Beaverhouse First Nation (Environmental Technician)	2021-12-06	Email	Incoming	The Environmental Technician of Beaverhouse First Nation thanked Hydro One for the information regarding field participation.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Edmund Gus - Forbes Bros. Group of Companies Erica Werhun - Forbes Bros. Group of Companies Gjzabrano - Kyle Junkin Lands - - Taykwa Tagamou Nation (TTN) Michael Desjarlais Ryan Martens - Forbes Bros. Group of Companies	2021-12-07	Email	Outgoing	Hydro One emailed Shared Value Solutions, TTN, and Forbes Bros to provide copies of the HONI Response Table (draft) and HONI/TTN Commitments table (draft). Hydro One noted that these documents will be reviewed and discussed in the technical meeting on December 8.
Taykwa Tagamou Nation (TTN)	Sarah Cole Justin Banninga Christina Reynolds Chris Wagner - Shared Value Solutions Ltd (Ecologist) Stan Sutherland - Taykwa Tagamou Nation (TTN) Edmund Gus - Forbes Bros. Group of Companies Erica Werhun - Forbes Bros. Group of Companies Kyle Junkin - Forbes Bros. Group of Companies Michael Desjarlais - Forbes Bros. Group of Companies Ryan Martens - Forbes Bros. Group of Companies Scott Shipper - Forbes Bros. Group of Companies Brandon Fox - Dillon Consulting Limited	2021-12-08	Meeting	Outgoing	Hydro Ones project team met with representatives of TTN and SVS to discuss comment responses and commitments to be included in the final ESR for the project.
Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Roger - - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-12-09	Email	Incoming	SVS inquired for an update on when they can expect to receive the Stage 2 Archaeology Assessment
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Roger - - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-12-09	Email	Outgoing	Hydro One emailed Shared Value Solutions to state that they cc'd a representative from Forbes Bros (Forbes) to provide an update as they don't believe Forbes have received the Stage 2 report yet from the archaeologists, but will let Forbes provide the latest on expected timelines.

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Edmund Gus - Forbes Bros. Group of Companies Erica Werhun - Forbes Bros. Group of Companies Gjzabrano - Kyle Junkin Lands - - Taykwa Tagamou Nation (TTN) Michael Desjarlais Ryan Martens - Forbes Bros. Group of Companies	2021-12-09	Email	Outgoing	Hydro One emailed Shared Value Solutions, TTN and Forbes Bros to follow up to the technical meeting on December 8. Hydro One provided the following documents: <ul style="list-style-type: none"> •Updated Commitments table (including adding a column to reference which recommendation/comment relates to the specific commitment) •Response table including the notes we took during yesterday's technical meeting •Blandings Turtle Memo regarding discussion on SAR observation and blandings turtle habitat Hydro One provided a list of next steps: <ul style="list-style-type: none"> •TTN to review and finalize response table •TTN to review commitments table and finalize for HONI to add into the Final ESR oTTN to let HONI know if they can accommodate an earlier review timeline •Book EMP editing workshop for early Jan
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Edmund Gus - Forbes Bros. Group of Companies Erica Werhun - Forbes Bros. Group of Companies Gjzabrano - Kyle Junkin Lands - - Taykwa Tagamou Nation (TTN) Michael Desjarlais Ryan Martens - Forbes Bros. Group of Companies	2021-12-09	Email	Incoming	Shared Vale Solutions thanked Hydro One for the documents and for the meeting on December 8. Shared Value Solutions stated that they will discuss the next steps with TTN and be in touch.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Edmund Gus - Forbes Bros. Group of Companies Erica Werhun - Forbes Bros. Group of Companies Gjzabrano - Kyle Junkin Lands - - Taykwa Tagamou Nation (TTN) Michael Desjarlais Ryan Martens - Forbes Bros. Group of Companies	2021-12-09	Email	Outgoing	Hydro One emailed Shared Value Solutions to agree with Shared Values Solutions plan to review the next steps with TTN.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Roger - - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-12-14	Email	Incoming	Shared Value Solutions emailed Hydro One to follow up on their previous email regarding when TTN should expect to receive the Stage 2 Archaeology Assessment the for A8K/A9K project for their review. Shared Value Solutions also wanted to get confirmation whether the Stage 2 Archaeology Assessment will be shared with TTN before it is submitted the MHSTCI.
B Corporation Taykwa Tagamou Nation (TTN)	Chris Wagner Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Roger - - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-12-14	Email	Outgoing	Forbes replied to Shared Value Solutions inquiry about the Stage 2 Archaeology Assessment the for A8K/A9K report. Forbes stated that they have not submitted the report to MHSTCI, as they are expecting some form of edits from TTN's review.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Roger - - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-12-14	Email	Outgoing	Hydro One emailed Shared Value Solutions stating that they will provide a file transfer once they have received the report from Forbes, noting that this should be by December 15. Hydro One asked Shared Value Solutions if there are updated timelines on when Hydro One can expect TTN's review of the commitments table and finalized version of the response table from last week's meeting (December 8).
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Roger - - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-12-14	Email	Incoming	Shared Value Solutions emailed Hydro One stating that they will be discussing the commitments table and response table with TTN tomorrow (December 15), and will have an update regarding timeline after this meeting. Shared Value Solutions thanked Hydro One for confirming the set up of the file transfer and confirming that the report has not been submitted to MHSTCI.

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Edmund Gus - Forbes Bros. Group of Companies Erica Werhun - Forbes Bros. Group of Companies Gjzabrano - Jody Duncan - B Corporation Kyle Junkin Lands - - Taykwa Tagamou Nation (TTN) Michael Desjarlais Ryan Martens - Forbes Bros. Group of Companies	2021-12-15	Email	Incoming	Shared Value Solutions emailed Hydro One to provide the updated response table which includes TTN's responses to Hydro One and the updated commitment table with TTN's response. Shared Value Solutions stated that TTN requests that 15 business day be committed to for reviewing and confirming the finalization of the commitment list with a completion date of January 13.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Roger - - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-12-15	Email	Outgoing	Hydro One emailed Shared Value Solutions to provide a file transfer of the Stage 2 AA report. Hydro ON stated that there are two documents (one for the report and one for figures), noting that they needed to be downloaded by December 20 or the link will expire.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Erica Werhun - Forbes Bros. Group of Companies Jody Duncan - B Corporation Roger - - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2021-12-15	Email	Incoming	Shared Value Solutions emailed Hydro One to thank them for the link to the Stage 2 AA, they stated that will begin reviewing the materials and let Hydro One know if any questions come up. Being cognizant of TTN's holiday break, the technical review will be provided in the new year.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Edmund Gus - Forbes Bros. Group of Companies Erica Werhun - Forbes Bros. Group of Companies Gjzabrano - Jody Duncan - B Corporation Kyle Junkin Lands - - Taykwa Tagamou Nation (TTN) Michael Desjarlais Ryan Martens - Forbes Bros. Group of Companies	2021-12-20	Email	Outgoing	Hydro One emailed a representative of Shared Value Solutions to request a phone call in the afternoon of December 20. SVS confirmed a call at 2:00
Taykwa Tagamou Nation (TTN)	Chris Wagner - SVS	2021-12-20	Phone	Outgoing	Hydro One spoke to SVS to discuss their request to review the final ESR and commitments table by Jan 13. Hydro One mentioned that construction is anticipated to start end of Jan and their intent to file the EA by Jan 14, 2022. Hydro One requested an additional meeting with TTN and SVS to finalize the commitments table, ESR and ESA Mitigation Plan in a Revisions Workshop and tentatively scheduled a meeting for Jan 12, 2022. SVS indicated that they would confirm date and time with TTN and follow up early Jan. Hydro One committed to providing responses to TTN's latest review early Jan ahead of the meeting.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Roger - - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2022-01-05	Email	Outgoing	Hydro One emailed Shared Value Solutions and TTN to provide Hydro Ones responses to the following documents: •TTN's Technical Review of the Aquatic Habitat Crossing Assessment Report •TTN's Technical Review of the NESR •Response Table from the Technical Meeting #4 •Commitments Table Hydro One also stated that they are waiting for confirmation of the revision workshop meeting date from TTN and Shared Value Solutions.
B Corporation Taykwa Tagamou Nation (TTN)	Chris Wagner Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Roger - - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2022-01-05	Email	Incoming	Shared Value Solutions emailed Hydro One to thank them for the documents and confirmed the revision workshop meeting date for TTN of January 12.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Roger - - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2022-01-10	Email	Incoming	Shared Value Solutions provided TTN's review of the following documents: •Technical Review of the Aquatic Habitat Crossing Assessment Report •Technical Review of the NESR •Response Table from the Technical Meeting #4 •Commitments Table -Taykwa Tagamou Nation's technical review of the Stage 2 Archaeology Assessment.

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Roger - - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2022-01-12	Email	Outgoing	Hydro One thanked Shared Value solutions for sharing the reports and stated that they look forward to their meeting.
Taykwa Tagamou Nation (TTN)	Sarah Cole Justin Banninga Christina Reynolds Chris Wagner - Shared Value Solutions Ltd (Ecologist) Scott MacKay - Shared Value Solutions Ltd Stan Sutherland - Taykwa Tagamou Nation (TTN) Edmund Gus - Forbes Bros. Group of Companies Erica Werhun - Forbes Bros. Group of Companies Kyle Junkin - Forbes Bros. Group of Companies Michael Desjarlais - Forbes Bros. Group of Companies Ryan Martens - Forbes Bros. Group of Companies Scott Shipper - Forbes Bros. Group of Companies Whitney Moore - Dillon Consulting Limited	2022-01-12	Meeting	Outgoing	Hydro Ones project team met with representatives of TTN and SVS to discuss final comment responses and commitments to be included in the final ESR for the project.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Roger - - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2022-01-12	Email	Incoming	Shared Value Solutions emailed Hydro One as a follow up to their meeting. Shared Value solutions provided content that should be added to the commitment list for TTN.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Roger - - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2022-01-13	Email	Outgoing	Hydro One thanked SVS for the additional wording and indicated they will follow up if they have any questions or comments. Hydro One attached meeting minutes from yesterday's revisions workshop meeting and addressed some follow up action items regarding railway crossings. Hydro One also confirmed they will be doing turbidity monitoring and that it will be added as a commitment in the commitments table. Hydro One also attached the project-specific Invasive Species Management Plan and ESC Plan to discuss during the next workshop on Jan 27, 2022.
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Roger - - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2022-01-13	Email	Outgoing	Hydro One followed up on additional content SVS and TTN requested be added to the commitments table and provided some minor revisions to the wording
B Corporation Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Chris Wagner - Shared Value Solutions Ltd (Ecologist) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Jody Duncan - B Corporation Liora Zimmerman - Taykwa Tagamou Nation (TTN) Roger - - Taykwa Tagamou Nation (TTN) Theron - - Taykwa Tagamou Nation (TTN)	2022-01-13	Email	Incoming	SVS thanked Hydro One for the follow up and confirmed agreement on the additional wording.

Elected Officials - Record of Consultation

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Ministry of the Environment, Conservation and Parks (MECP)	Agni Papageorgiou - Ministry of the Environment, Conservation and Parks (MECP) (Project Review Supervisor (Acting)) Andrew Evers - Ministry of the Environment, Conservation and Parks (MECP) (Manager (A), Environmental Assessment Services) Jordan Hughes - Ministry of the Environment, Conservation and Parks (MECP) (Project Evaluator)	2020-07-29	Email	Incoming	MECP received the attached correspondence from TTN on July 27, 2020. They are contacting HONI to follow up on the status of the A8K/A9K, D2H/D3H/D6T/D4, H8K/H9K, transmission line refurbishment projects as well as the IAMGOLD Cote Gold Connection project.
Town of Kirkland Lake	Meagan Elliott - Town of Kirkland Lake Pat Kiely - Town of Kirkland Lake (Mayor)	2020-08-04	Email	Outgoing	Hydro One sent an email with a project update letter to the Mayor of Kirkland Lake.
Ministry of the Environment, Conservation and Parks (MECP)	Agni Papageorgiou - Ministry of the Environment, Conservation and Parks (MECP) (Project Review Supervisor (Acting)) Andrew Evers - Ministry of the Environment, Conservation and Parks (MECP) (Manager (A), Environmental Assessment Services) Jordan Hughes - Ministry of the Environment, Conservation and Parks (MECP) (Project Evaluator)	2020-08-06	Meeting	Outgoing	HONI and MECP met to discuss TTN and the 4 projects they are challenging HONI on. Specifically, IAMGold was discussed given a quickly approaching customer connection.
Town of Kirkland Lake	Meagan Elliott - Town of Kirkland Lake Pat Kiely - Town of Kirkland Lake (Mayor)	2021-05-28	Email	Outgoing	Hydro One emailed Mayor and Members of Council of Town of Kirkland Lake with a Notice of Project Change letter. Hydro One informed them that they are planning to host a virtual Community Information Centre in August and an invitation for the meeting will be shared with members of the community early in the summer.
Township of Black River-Matheson	Gilles Laderoute - Township of Black River-Matheson (Mayor)	2021-05-28	Email	Outgoing	Hydro One emailed Mayor and Members of Council of Black River-Matheson with a Notice of Project Change letter. Hydro One informed them that they are planning to host a virtual Community Information Centre in August and an invitation for the meeting will be shared with members of the community early in the summer.
Town of Iroquois Falls	Julie Belhumeur - Town of Iroquois Falls (Interim Treasurer)	2021-05-28	Email	Outgoing	Hydro One emailed Mayor and Members of Council of Iroquois Falls with a Notice of Project Change letter. Hydro One informed them that they are planning to host a virtual Community Information Centre in August and an invitation for the meeting will be shared with members of the community early in the summer.
Town of Kirkland Lake	Meagan Elliott - Town of Kirkland Lake Pat Kiely - Town of Kirkland Lake (Mayor)	2021-08-03	Email	Outgoing	Hydro One emailed the Mayor and Members of Council of the Town of Kirkland Lake to invite them to a virtual community meeting on the EA project. Hydro One noted that the attached invitation will be sent to residents in the project area and a notice for the community meeting will be advertised in local media.
Township of Black River-Matheson	Gilles Laderoute - Township of Black River-Matheson (Mayor)	2021-08-03	Email	Outgoing	Hydro One emailed the Mayor and Members of Council of Black River-Matheson to invite them to a virtual community meeting on the EA project. Hydro One noted that the attached invitation will be sent to residents in the project area and a notice for the community meeting will be advertised in local media.
Town of Iroquois Falls	Julie Belhumeur - Town of Iroquois Falls (Interim Treasurer)	2021-08-03	Email	Outgoing	Hydro One emailed the Mayor and Members of Council of the Town of Iroquois Falls to invite them to a virtual community meeting on the EA project. Hydro One noted that the attached invitation will be sent to residents in the project area and a notice for the community meeting will be advertised in local media.
Town of Kirkland Lake	Pat Kiely - Town of Kirkland Lake (Mayor)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Town of Kirkland Lake	Meagan Elliott - Town of Kirkland Lake	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Township of Black River-Matheson	Gilles Laderoute - Township of Black River-Matheson (Mayor)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of the Environment, Conservation and Parks (MECP)	Agni Papageorgiou - Ministry of the Environment, Conservation and Parks (MECP) (Project Review Supervisor (Acting))	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Town of Kirkland Lake	Meagan Elliott - Town of Kirkland Lake Pat Kiely - Town of Kirkland Lake (Mayor)	2021-08-25	Email	Outgoing	Hydro One emailed the Mayor and Members of Council of the Town of Kirkland Lake to invite them to the Community Information Centre, including attached login details.
Township of Black River-Matheson	Cassandra Childs - Township of Black River-Matheson (Treasurer) Gilles Laderoute - Township of Black River-Matheson (Mayor)	2021-08-25	Email	Outgoing	Hydro One emailed the Mayor and Members of Council of the Township of Black River-Matheson to invite them to the Community Information Centre, including attached login details for the event.
Town of Iroquois Falls	Julie Belhumeur - Town of Iroquois Falls (Interim Treasurer)	2021-08-25	Email	Outgoing	Hydro One emailed the Mayor and Members of Council of the Town of Iroquois Falls to invite them to the Community Information Centre, including login details for the event.
Town of Kirkland Lake	Meagan Elliott - Town of Kirkland Lake	2021-09-21	Email	Outgoing	Hydro One emailed a representative of the Town of Kirkland Lake to provide information about the draft Environmental Assessment study report. Hydro One stated that this report will be available on their website, a mailed public notice to residents of the area, and a copy will be provided on a USB to the Town of Kirkland to improve document accessibility.
Town of Kirkland Lake	Meagan Elliott - Town of Kirkland Lake	2021-09-22	Email	Outgoing	Hydro One emailed a representative of the Town of Kirkland Lake to provide information about the draft Environmental Assessment study report. Hydro One stated that this report will be available on their website, a mailed public notice to residents of the area, and a copy will be provided on a USB to the Town of Kirkland to improve document accessibility.

Elected Officials - Record of Consultation

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Town of Kirkland Lake	Meagan Elliott - Town of Kirkland Lake Pat Kiely - Town of Kirkland Lake (Mayor)	2021-10-13	Email	Outgoing	Hydro One emailed representatives of the Town of Kirkland to provide a copy of the Environmental Study Report. Hydro One noted that the document outlines the Environmental Assessment process and will be open for a public review and comment period beginning on October 18, for 30 days. Hydro One stated that a Notice of Public Review will be mailed to residents in the project area.
Township of Black River-Matheson	Cassandra Childs - Township of Black River-Matheson (Treasurer) Gilles Laderoute - Township of Black River-Matheson (Mayor)	2021-10-13	Email	Outgoing	Hydro One emailed the Mayor of the Township of Black River Matheson to provide notice that the Draft ESR is available for a 30 day public review beginning on October 18. Hydro One provided the Notice of Public Review for the Draft ESR which was mailed to residents in the project area.
Town of Iroquois Falls	Julie Belhumeur - Town of Iroquois Falls (Interim Treasurer)	2021-10-13	Email	Outgoing	Hydro One emailed the Mayor of Iroquois Falls to provide notice that the Draft ESR is available for a 30 day public review beginning on October 18. Hydro One provided the Notice of Public Review for the Draft ESR which was mailed to residents in the project area.

Provincial Agencies - Record of Consultation

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Independent Electricity System Operator (IESO)	Brett Smith - Independent Electricity System Operator (IESO)	2019-12-09	Email	Outgoing	Attached is a letter to IESO regarding the A8K/A9K upgrade.
Ministry of the Environment, Conservation and Parks (MECP)	Annamaria Cross - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment, Environmental Assessment Branch (EAB))	2020-06-01	Email	Outgoing	Attached letter regarding Taykwa Tagamou Nation's Engagement Protocol.
Olthuis Kleer Townshend (OKT LLP)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief)				
Shared Value Solutions Ltd	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer)				
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)				
Vires Capital VII	Don Richardson - Shared Value Solutions Ltd (Managing Partner)				
	Dwight Sutherland - Taykwa Tagamou Nation (TTN)				
	Environmental Approvals Access And Service Integration Branch - Ministry of the Environment, Conservation and Parks (MECP) (Environmental Approvals Access and Service Integration Branch)				
	Howard Archibald - Taykwa Tagamou Nation (TTN)				
	Justine Morgan - Taykwa Tagamou Nation (TTN) (Executive Assistant)				
	Keegan Mcgrath - Taykwa Tagamou Nation (TTN) (Fisheries and Aquatic Biologist, Environmental Consultant)				
	Liora Zimmerman - Taykwa Tagamou Nation (TTN)				
	Mark Garfield - Taykwa Tagamou Nation (TTN)				
	Mike Gaul - Vires Capital VII (Senior Partner & Chief Relations Officer)				
	Muir Tony				
	Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel)				
	Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)				
	Vincent Buron - Vires Capital VII (Managing Partner)				
Ministry of the Environment, Conservation and Parks (MECP)	Annamaria Cross - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment, Environmental Assessment Branch (EAB))	2020-06-11	Email		TTN to review attached letter.
Olthuis Kleer Townshend (OKT LLP)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief)				
Shared Value Solutions Ltd	Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer)				
Taykwa Tagamou Nation (TTN)	Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor)				
Vires Capital VII	Don Richardson - Shared Value Solutions Ltd (Managing Partner)				
	Dwight Sutherland - Taykwa Tagamou Nation (TTN)				
	Environmental Approvals Access And Service Integration Branch - Ministry of the Environment, Conservation and Parks (MECP) (Environmental Approvals Access and Service Integration Branch)				
	Howard Archibald - Taykwa Tagamou Nation (TTN)				
	Justine Morgan - Taykwa Tagamou Nation (TTN) (Executive Assistant)				
	Keegan Mcgrath - Taykwa Tagamou Nation (TTN) (Fisheries and Aquatic Biologist, Environmental Consultant)				
	Liora Zimmerman - Taykwa Tagamou Nation (TTN)				
	Mark Garfield - Taykwa Tagamou Nation (TTN)				
	Mike Gaul - Vires Capital VII (Senior Partner & Chief Relations Officer)				
	Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel)				
	Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)				
	Vincent Buron - Vires Capital VII (Managing Partner)				
Independent Electricity System Operator (IESO)	Jeffrey Schnuerer - Independent Electricity System Operator (IESO) (Advisor, First Nation and Metis Relations)	2020-06-12	Email	Outgoing	Devi sent Jeffrey Schnuerer documents previously sent to Brett.
Independent Electricity System Operator (IESO)	Jeffrey Schnuerer - Independent Electricity System Operator (IESO) (Advisor, First Nation and Metis Relations)	2020-06-17	Email	Incoming	Stephanie Aldersley is the current supervisor and has created remote connection of Indigenous files. Jeff informed Stephanie of HONI's desire to follow up and next steps.
Ministry of the Environment, Conservation and Parks (MECP)	Agni Papageorgiou - Ministry of the Environment, Conservation and Parks (MECP) (Project Review Supervisor (Acting))	2020-07-29	Email	Incoming	MECP received the attached correspondence from TTN on July 27, 2020. They are contacting HONI to follow up on the status of the A8K/A9K, D2H/D3H/D6T/D4, H8K/H9K, transmission line refurbishment projects as well as the IAMGOLD Cote Gold Connection project.
	Andrew Evers - Ministry of the Environment, Conservation and Parks (MECP) (Manager (A), Environmental Assessment Services)				
	Jordan Hughes - Ministry of the Environment, Conservation and Parks (MECP) (Project Evaluator)				
Ministry of Energy, Northern Development and Mines (MENDM)	Clare Pineau - Ministry of Energy, Northern Development and Mines (MENDM) (Initiatives Coordinator (Acting))	2020-07-30	Email	Outgoing	To Ms. Perry regarding that the attached letter is to provide a project update to follow up to the previous project notice regarding the A8K/A9K Transmission Line Refurbishment Project.
	Mary Perry - Ministry of Energy, Northern Development and Mines (MENDM) (Manager (Acting), Strategic Support Unit)				
Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI)	Karla Barboza - Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) (Team Lead (Acting) - Heritage Planning, Culture Division)	2020-07-30	Email	Outgoing	To Ms. Barboza regarding that the attached letter is to provide a project update to follow up to the previous project notice regarding the A8K/A9K Transmission Line Refurbishment Project.
Ministry of Natural Resources and Forestry (MNRF)	Robin Stewart - Ministry of Natural Resources and Forestry (MNRF) (District Planner, Cochrane)	2020-07-30	Email	Outgoing	To Robin Stewart regarding that the attached letter is to provide a project update to follow up to the previous project notice regarding the A8K/A9K Transmission Line Refurbishment Project.
Ministry of Natural Resources and Forestry (MNRF)	Rick Gordon - Ministry of Natural Resources and Forestry (MNRF) (District Planner, Kirkland Lake)	2020-07-30	Email	Outgoing	To Mr. Gordon regarding that the attached letter is to provide a project update to follow up to the previous project notice regarding the A8K/A9K Transmission Line Refurbishment Project.
	Shaun Walker - Ministry of Natural Resources and Forestry (MNRF) (Resource Operations Supervisor, Kirkland Lake)				

Provincial Agencies - Record of Consultation

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Ministry of the Environment, Conservation and Parks (MECP)	Barbara Slattery - Ministry of the Environment, Conservation and Parks (MECP) (EA/Planning Coordinator, Project Review Unit, Environmental Assessment Branch)	2020-07-30	Email	Incoming	Barb Slattery inquiring on why she was copied on this email to whether she had previous involvement with the project.
Ministry of the Environment, Conservation and Parks (MECP)	Barbara Slattery - Ministry of the Environment, Conservation and Parks (MECP) (EA/Planning Coordinator, Project Review Unit, Environmental Assessment Branch)	2020-07-30	Email	Outgoing	Email to Barb stating that Ellen Cramm was the Environmental Planner/EA Coordinator who was contacted for this project but she isn't at that position anymore. We are not sure who this project got re-assigned to so hoping that Barb could assist or pass it along to the appropriate contact.
Ministry of the Environment, Conservation and Parks (MECP)	Barbara Slattery - Ministry of the Environment, Conservation and Parks (MECP) (EA/Planning Coordinator, Project Review Unit, Environmental Assessment Branch)	2020-07-30	Email	Incoming	Barbara stating that Agni Papageorgiou should be the one copied.
Ministry of the Environment, Conservation and Parks (MECP)	Barbara Slattery - Ministry of the Environment, Conservation and Parks (MECP) (EA/Planning Coordinator, Project Review Unit, Environmental Assessment Branch)	2020-07-30	Email	Outgoing	Sarah thanking Barbara Slattery.
Ministry of the Environment, Conservation and Parks (MECP)	Barbara Slattery - Ministry of the Environment, Conservation and Parks (MECP) (EA/Planning Coordinator, Project Review Unit, Environmental Assessment Branch) Shelley Wainio - Ministry of the Environment, Conservation and Parks (MECP) (Environmental Planner & EA Coordinator)	2020-07-30	Email	Incoming	Barb states that Ellen retired last fall. The Northern Region also lost their other EA person to another ministry a few weeks ago. Shelley Wainio is my counterpart in Northern Region.
Ministry of the Environment, Conservation and Parks (MECP)	Barbara Slattery - Ministry of the Environment, Conservation and Parks (MECP) (EA/Planning Coordinator, Project Review Unit, Environmental Assessment Branch) Shelley Wainio - Ministry of the Environment, Conservation and Parks (MECP) (Environmental Planner & EA Coordinator)	2020-07-30	Email	Outgoing	Sarah inquiring if Agni Papageorgiou be the supervisor for this project.
Ministry of the Environment, Conservation and Parks (MECP)	Barbara Slattery - Ministry of the Environment, Conservation and Parks (MECP) (EA/Planning Coordinator, Project Review Unit, Environmental Assessment Branch) Kathleen O'Neill - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment Branch) Kimberly Yu - Ministry of the Environment, Conservation and Parks (MECP) (Administrative Assistant, Environmental Assessment Services, Environmental Assessment and Permissions Branch)	2020-07-30	Email	Outgoing	To Ms. O'Neill regarding that the attached letter is to provide a project update to follow up to the previous project notice regarding the A8K/A9K Transmission Line Refurbishment Project.
Ministry of Transportation of Ontario (MTO)	John Fraser - Ministry of Transportation of Ontario (MTO) (Manager - Engineering, Northeastern Region)	2020-07-30	Email	Outgoing	To Mr. Fraser regarding that the attached letter is to provide a project update to follow up to the previous project notice regarding the A8K/A9K Transmission Line Refurbishment Project.
Ministry of the Environment, Conservation and Parks (MECP)	Barbara Slattery - Ministry of the Environment, Conservation and Parks (MECP) (EA/Planning Coordinator, Project Review Unit, Environmental Assessment Branch) Shelley Wainio - Ministry of the Environment, Conservation and Parks (MECP) (Environmental Planner & EA Coordinator)	2020-07-31	Email	Incoming	Shelley responds stating that Agni is the supervisor. She inquires if we have you sent the email/notice to the regional EA coordinators email (eanotification.nregion@ontario.ca). As well that as of May 1, 2018, there is a new process for submitting streamlined environmental assessment notices and updates to MECP by provision of a Project Information Form, and a PDF version of the notice to the appropriate e-mail address (or addresses) for MECP's regional offices. (website: https://www.ontario.ca/page/preparing-environmental-assessments)
Ministry of the Environment, Conservation and Parks (MECP)	Barbara Slattery - Ministry of the Environment, Conservation and Parks (MECP) (EA/Planning Coordinator, Project Review Unit, Environmental Assessment Branch) Shelley Wainio - Ministry of the Environment, Conservation and Parks (MECP) (Environmental Planner & EA Coordinator)	2020-07-31	Email	Outgoing	To Shelley stating that this is a project update notification, and did not include the regional EA notification email address. Sarah also did not include a PIF as the original notification would have included one.
Ministry of the Environment, Conservation and Parks (MECP)	Barbara Slattery - Ministry of the Environment, Conservation and Parks (MECP) (EA/Planning Coordinator, Project Review Unit, Environmental Assessment Branch) Shelley Wainio - Ministry of the Environment, Conservation and Parks (MECP) (Environmental Planner & EA Coordinator)	2020-07-31	Email	Incoming	Shelley Wainio inquiring if Sarah could you re-send the email to me with the attachment.
Ministry of the Environment, Conservation and Parks (MECP)	Barbara Slattery - Ministry of the Environment, Conservation and Parks (MECP) (EA/Planning Coordinator, Project Review Unit, Environmental Assessment Branch) Shelley Wainio - Ministry of the Environment, Conservation and Parks (MECP) (Environmental Planner & EA Coordinator)	2020-07-31	Email	Outgoing	Sarah includes Project Update document to Shelley.
Ministry of Natural Resources and Forestry (MNRF)	Geoffrey St. Cyr - Ministry of Natural Resources and Forestry (MNRF) (Lands & Waters Technical Specialist) Justin Black - Ministry of Natural Resources and Forestry (MNRF) (Lands & Water Technical Specialist (Acting)) Rick Gordon - Ministry of Natural Resources and Forestry (MNRF) (District Planner, Kirkland Lake) Robin Stewart - Ministry of Natural Resources and Forestry (MNRF) (District Planner, Cochrane) Shaun Walker - Ministry of Natural Resources and Forestry (MNRF) (Resource Operations Supervisor, Kirkland Lake)	2020-08-05	Email	Incoming	From Rick Gordan stating that since the project now spans two MNRF Districts and that he has copied Cochrane District staff member Robin Stewart for their consideration. MNRF Kirkland Lake is not concerned with the refurbishment activities that will be conducted within the Hydro One ROW corridor. If work is required outside of the existing ROW or waterbody work within the ROW impact land outside of the ROW; then Hydro One will need to submit a work permit application with site specific mapping and details for review and authorization.
Ministry of the Environment, Conservation and Parks (MECP)	Agni Papageorgiou - Ministry of the Environment, Conservation and Parks (MECP) (Project Review Supervisor (Acting)) Andrew Evers - Ministry of the Environment, Conservation and Parks (MECP) (Manager (A), Environmental Assessment Services) Jordan Hughes - Ministry of the Environment, Conservation and Parks (MECP) (Project Evaluator)	2020-08-06	Meeting	Outgoing	HONI and MECP met to discuss TTN and the 4 projects they are challenging HONI on. Specifically, IAMGold was discussed given a quickly approaching customer connection.

Provincial Agencies - Record of Consultation

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Ministry of Natural Resources and Forestry (MNRF)	Geoffrey St. Cyr - Ministry of Natural Resources and Forestry (MNRF) (Lands & Waters Technical Specialist) Justin Black - Ministry of Natural Resources and Forestry (MNRF) (Lands & Water Technical Specialist (Acting)) Rick Gordon - Ministry of Natural Resources and Forestry (MNRF) (District Planner, Kirkland Lake) Robin Stewart - Ministry of Natural Resources and Forestry (MNRF) (District Planner, Cochrane) Shaun Walker - Ministry of Natural Resources and Forestry (MNRF) (Resource Operations Supervisor, Kirkland Lake)	2020-08-13	Email	Outgoing	To Rick from Sarah thanking him for the information.
Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI)	Joseph Harvey - Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) (Heritage Planner - Heritage Planning Unit)	2020-09-15	Email	Incoming	From Joseph stating that their records do not indicate any PIFs which fully encompassed the current project area. Inquiring if an archeological assessment is being undertaken for the additional project area.
Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI)	Joseph Harvey - Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) (Heritage Planner - Heritage Planning Unit) Karla Barboza - Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) (Team Lead (Acting) - Heritage Planning, Culture Division)	2020-09-15	Email	Incoming	From Joseph stating that MHSTCI's comments on the above referenced project update are attached.
Ministry of the Environment, Conservation and Parks (MECP) Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Jordan Hughes - Ministry of the Environment, Conservation and Parks (MECP) (Project Evaluator) Justine Morgan - Taykwa Tagamou Nation (TTN) (Executive Assistant) Kathleen O'Neill - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment Branch) Keegan Mcgrath - Taykwa Tagamou Nation (TTN) (Fisheries and Aquatic Biologist, Environmental Consultant) Linda Job Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Poweska Mark Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-01-11	Email	Outgoing	Hydro One (Devi Shantilal) emailed Chief Archibald with responses to the comments from the SVS for the A8K/A9K Project and project specific shapefiles.
Ministry of the Environment, Conservation and Parks (MECP) Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Howard Archibald - Taykwa Tagamou Nation (TTN) Jordan Hughes - Ministry of the Environment, Conservation and Parks (MECP) (Project Evaluator) Justine Morgan - Taykwa Tagamou Nation (TTN) (Executive Assistant) Kathleen O'Neill - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment Branch) Keegan Mcgrath - Taykwa Tagamou Nation (TTN) (Fisheries and Aquatic Biologist, Environmental Consultant) Mark Garfield - Taykwa Tagamou Nation (TTN) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Poweska Mark Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-01-12	Email	Incoming	OKT Law (Oliver MacLaren) responded to Hydro One's email requesting the zip file be re-sent.
Ministry of the Environment, Conservation and Parks (MECP) Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Howard Archibald - Taykwa Tagamou Nation (TTN) Jordan Hughes - Ministry of the Environment, Conservation and Parks (MECP) (Project Evaluator) Justine Morgan - Taykwa Tagamou Nation (TTN) (Executive Assistant) Kathleen O'Neill - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment Branch) Keegan Mcgrath - Taykwa Tagamou Nation (TTN) (Fisheries and Aquatic Biologist, Environmental Consultant) Mark Garfield - Taykwa Tagamou Nation (TTN) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Poweska Mark Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-01-13	Email	Outgoing	Hydro One sent an email to OKT LLP to share a copy of converted shapefiles. Hydro One noted that shapefiles can be viewed in a .pdf document in Appendix C.

Provincial Agencies - Record of Consultation

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Ministry of the Environment, Conservation and Parks (MECP) Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Jordan Hughes - Ministry of the Environment, Conservation and Parks (MECP) (Project Evaluator) Justine Morgan - Taykwa Tagamou Nation (TTN) (Executive Assistant) Kathleen O'Neill - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment Branch) Linda Job Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Poweska Mark Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief) Ygoulais Christine	2021-01-27	Email	Incoming	TTN (Justine Morgan) on behalf of Chief Archibald sent a letter as a follow-up to Hydro One's correspondence on December 24, 2020.
Ministry of the Environment, Conservation and Parks (MECP) Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Candice - Cathy Guirguis - Olthuis Kleer Townshend (OKT LLP) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Dwight - Howard Archibald - Taykwa Tagamou Nation (TTN) Jordan Hughes - Ministry of the Environment, Conservation and Parks (MECP) (Project Evaluator) Justine Morgan - Taykwa Tagamou Nation (TTN) (Executive Assistant) Kathleen O'Neill - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment Branch) Lands - - Taykwa Tagamou Nation (TTN) Liora Zimmerman - Taykwa Tagamou Nation (TTN) Mark Garfield - Taykwa Tagamou Nation (TTN) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Poweska Mark Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-02-05	Email	Incoming	OKT Law (Oliver MacLaren) contacted Hydro One to ensure two specified contacts are copied on all correspondence moving forward.
Ministry of the Environment, Conservation and Parks (MECP) Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Cathy Guirguis - Olthuis Kleer Townshend (OKT LLP) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Dwight Sutherland - Taykwa Tagamou Nation (TTN) Howard Archibald - Taykwa Tagamou Nation (TTN) Jordan Hughes - Ministry of the Environment, Conservation and Parks (MECP) (Project Evaluator) Justine Morgan - Taykwa Tagamou Nation (TTN) (Executive Assistant) Kathleen O'Neill - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment Branch) Lands - - Taykwa Tagamou Nation (TTN) Liora Zimmerman - Taykwa Tagamou Nation (TTN) Mark Garfield - Taykwa Tagamou Nation (TTN) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Poweska Mark Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-02-05	Email	Outgoing	Hydro One agreed to copy OKT LLP employees on all correspondences moving forward and apologized for sending out redundant emails due to email address errors.
Ministry of the Environment, Conservation and Parks (MECP) Olthuis Kleer Townshend (OKT LLP) Shared Value Solutions Ltd Taykwa Tagamou Nation (TTN)	Bruce Archibald - Taykwa Tagamou Nation (TTN) (Chief) Candice Tourville - Taykwa Tagamou Nation (TTN) (Business Development Officer) Cathy Guirguis - Olthuis Kleer Townshend (OKT LLP) Derek Archibald - Taykwa Tagamou Nation (TTN) (Councillor) Don Richardson - Shared Value Solutions Ltd (Managing Partner) Jordan Hughes - Ministry of the Environment, Conservation and Parks (MECP) (Project Evaluator) Justine Morgan - Taykwa Tagamou Nation (TTN) (Executive Assistant) Kathleen O'Neill - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment Branch) Oliver MacLaren - Olthuis Kleer Townshend (OKT LLP) (Legal Counsel) Victor Linklater - Taykwa Tagamou Nation (TTN) (Deputy Chief)	2021-04-01	Email	Outgoing	HONI (Devi Shantilal) emailed TTN (Candice Tourville) a response letter to TTN's March 12, 2021 correspondence. Enclosed with this letter was A8K/A9K Technical Review Response Table, IAMGOLD Technical Review of EPP and EMP Response Table, IAMGOLD TTN Concerns to ENDM Response Table, IAMGOLD DFO approvals, and IAMGOLD Notice of Completion of Class EA Screening process to MECP.
Ministry of Natural Resources and Forestry (MNRF)	Al Winters - Ministry of Natural Resources and Forestry (MNRF) (District Manager, Cochrane) Mike Mazzetti - Ministry of Natural Resources and Forestry (MNRF) (District Manager, Kirkland Lake)	2021-05-31	Email	Incoming	Town of Kirkland Lake emailed Hydro One to thank them for sharing the project update.

Provincial Agencies - Record of Consultation

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Ministry of the Environment, Conservation and Parks (MECP)	Andrew Evers - Ministry of the Environment, Conservation and Parks (MECP) (Manager (A), Environmental Assessment Services) Jordan Hughes - Ministry of the Environment, Conservation and Parks (MECP) (Project Evaluator) Katy Potter - Ministry of the Environment, Conservation and Parks (MECP) (Supervisor (Acting) EA Services Project Review) Shelley Wainio - Ministry of the Environment, Conservation and Parks (MECP) (Environmental Planner & EA Coordinator)	2021-05-31	Email	Incoming	Ministry of Environment, Conservation and Parks thanked Hydro One for the project update.
Independent Electricity System Operator (IESO)	Brett Smith - Independent Electricity System Operator (IESO)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Independent Electricity System Operator (IESO)	Jeffrey Schnuerer - Independent Electricity System Operator (IESO) (Advisor, First Nation and Metis Relations)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of Energy, Northern Development and Mines (MENDM)	Tracey Dawson-Kinnonen - Ministry of Energy, Northern Development and Mines (MENDM) (Manager - Strategic Services Branch)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of Energy, Northern Development and Mines (MENDM)	Jennifer Paetz - Ministry of Energy, Northern Development and Mines (MENDM) (Initiatives Coordinator - Strategic Services Branch, Mines and Minerals Division)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of Energy, Northern Development and Mines (MENDM)	Clare Pineau - Ministry of Energy, Northern Development and Mines (MENDM) (Initiatives Coordinator (Acting))	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of Energy, Northern Development and Mines (MENDM)	Mary Perry - Ministry of Energy, Northern Development and Mines (MENDM) (Manager (Acting), Strategic Support Unit)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI)	Karla Barboza - Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) (Team Lead (Acting) - Heritage Planning, Culture Division)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI)	Joseph Harvey - Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) (Heritage Planner - Heritage Planning Unit)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of Natural Resources and Forestry (MNRF)	Al Winters - Ministry of Natural Resources and Forestry (MNRF) (District Manager, Cochrane)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of Natural Resources and Forestry (MNRF)	Robin Stewart - Ministry of Natural Resources and Forestry (MNRF) (District Planner, Cochrane)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of Natural Resources and Forestry (MNRF)	Mike Mazzetti - Ministry of Natural Resources and Forestry (MNRF) (District Manager, Kirkland Lake)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of Natural Resources and Forestry (MNRF)	Rick Gordon - Ministry of Natural Resources and Forestry (MNRF) (District Planner, Kirkland Lake)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of Natural Resources and Forestry (MNRF)	Shaun Walker - Ministry of Natural Resources and Forestry (MNRF) (Resource Operations Supervisor, Kirkland Lake)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of Natural Resources and Forestry (MNRF)	Justin Black - Ministry of Natural Resources and Forestry (MNRF) (Lands & Water Technical Specialist (Acting))	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of the Environment, Conservation and Parks (MECP)	Megan Inacio - Ministry of the Environment, Conservation and Parks (MECP) (Administrative Assistant - Environmental Assessment and Permissions Branch)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of the Environment, Conservation and Parks (MECP)	Carroll Leith - Ministry of the Environment, Conservation and Parks (MECP) (Manager - Timmins District Office, Northern Region)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of the Environment, Conservation and Parks (MECP)	Mansoor Mahmood - Ministry of the Environment, Conservation and Parks (MECP) (Manager - Approval Services, Environmental Assessment and Permissions Branch)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of the Environment, Conservation and Parks (MECP)	Kimberly Yu - Ministry of the Environment, Conservation and Parks (MECP) (Administrative Assistant, Environmental Assessment Services, Environmental Assessment and Permissions Branch)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of the Environment, Conservation and Parks (MECP)	EA Notification Northern Region - Ministry of the Environment, Conservation and Parks (MECP) (General Mailbox)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.

Provincial Agencies - Record of Consultation

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Ministry of the Environment, Conservation and Parks (MECP)	Annamaria Cross - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment, Environmental Assessment Branch (EAB))	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of the Environment, Conservation and Parks (MECP)	Kathleen O'Neill - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment Branch)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of the Environment, Conservation and Parks (MECP)	Jordan Hughes - Ministry of the Environment, Conservation and Parks (MECP) (Project Evaluator)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of the Environment, Conservation and Parks (MECP)	Environmental Approvals Access And Service Integration Branch - Ministry of the Environment, Conservation and Parks (MECP) (Environmental Approvals Access and Service Integration Branch)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of the Environment, Conservation and Parks (MECP)	Mark Badali - Ministry of the Environment, Conservation and Parks (MECP) (Environmental Assessment Coordinator)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of the Environment, Conservation and Parks (MECP)	Andrew Evers - Ministry of the Environment, Conservation and Parks (MECP) (Manager (A), Environmental Assessment Services)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of the Environment, Conservation and Parks (MECP)	Brittany Woodhall - Ministry of the Environment, Conservation and Parks (MECP) (Administrative Assistant)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Ministry of Transportation of Ontario (MTO)	John Fraser - Ministry of Transportation of Ontario (MTO) (Manager - Engineering, Northeastern Region)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Independent Electricity System Operator (IESO)	Jeffrey Schnuerer - Independent Electricity System Operator (IESO) (Advisor, First Nation and Metis Relations)	2021-08-05	Email	Incoming	Independent Electricity System Operator emailed Hydro One to inquire about registered for Virtual Information Centre #1.
Independent Electricity System Operator (IESO)	Jeffrey Schnuerer - Independent Electricity System Operator (IESO) (Advisor, First Nation and Metis Relations)	2021-08-05	Email	Outgoing	Hydro One responded back to Independent Electricity System Operator to let them know that Community Relations would assist in registering them for the community information centre event.
Independent Electricity System Operator (IESO)	Jeffrey Schnuerer - Independent Electricity System Operator (IESO) (Advisor, First Nation and Metis Relations)	2021-08-05	Email	Outgoing	Hydro One responded to Independent Electricity System Operator to thank them for their interest in participating in the virtual information centre #1 and their email was added to the registration list. Hydro One provided some details about the event.
Ministry of Transportation of Ontario (MTO)	Brad Thom John Fraser - Ministry of Transportation of Ontario (MTO) (Manager - Engineering, Northeastern Region) Raymond Hong Ryan Herbrand Ryan Herbrand	2021-08-11	Email	Incoming	MTO emailed Hydro One with an appropriate Ministry contract for the project.
	Ryan Herbrand	2021-08-13	Email	Outgoing	Hydro One emailed MTO to let them know that their community relations team will assist them in registering for the virtual information centre #1.
	Ryan Herbrand	2021-08-13	Email	Outgoing	Hydro One emailed MTO to thank them for their interest in participating in the virtual information centre #1 and their email was added to the registration list. Hydro One provided some details about the upcoming event.
	Ryan Herbrand	2021-08-18	Email	Outgoing	Hydro One emailed MTO to thank them for their interest in participating in the virtual information centre #1 and their email was added to the registration list. Hydro One provided some details about the upcoming event.
	Ryan Herbrand	2021-08-26	Email	Outgoing	Hydro One emailed MTO with an attachment of the community information centre #1 presentation slides.
Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI)		2021-09-27	Email	Outgoing	Hydro One emailed a representative of the Ministry of Heritage, Sport, Tourism and Cultural Industries to confirm that the Notice for the Leave to Construct is for the A8K/A9K project.
Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI)		2021-09-27	Email	Incoming	A representative of the Ministry of Heritage, Sport, Tourism, and Cultural Industries emailed Hydro One thanking them for their quick response.
Ministry of Energy, Northern Development and Mines (MENDM)	Clare Pineau - Ministry of Energy, Northern Development and Mines (MENDM) (Initiatives Coordinator (Acting)) Jennifer Paetz - Ministry of Energy, Northern Development and Mines (MENDM) (Initiatives Coordinator - Strategic Services Branch, Mines and Minerals Division) Mary Perry - Ministry of Energy, Northern Development and Mines (MENDM) (Manager (Acting), Strategic Support Unit)	2021-10-18	Email	Outgoing	Dillon Consulting emailed a representative of Ministry of Energy, Northern Development and Mines to provide notice that the draft ESR is available for a 30- day public comment period beginning on October 18. Dillon Consulting provided a copy of the Notice of Completion which provides information about the draft ESR including including how to view and submit comments to Hydro One.
Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI)	Joseph Harvey - Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) (Heritage Planner - Heritage Planning Unit) Karla Barboza - Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) (Team Lead (Acting) - Heritage Planning, Culture Division)	2021-10-18	Email	Outgoing	Dillon Consulting emailed a representative of Ministry of Heritage, Sport, Tourism and Culture Industries to provide notice that the draft ESR is available for a 30- day public comment period beginning on October 18. Dillon Consulting provided a copy of the Notice of Completion which provides information about the draft ESR including including how to view and submit comments to Hydro One.
Ministry of Natural Resources and Forestry (MNRF)	Al Winters - Ministry of Natural Resources and Forestry (MNRF) (District Manager, Cochrane) Robin Stewart - Ministry of Natural Resources and Forestry (MNRF) (District Planner, Cochrane)	2021-10-18	Email	Outgoing	Dillon Consulting emailed a representative of Ministry of Natural Resources and Forestry to provide notice that the draft ESR is available for a 30- day public comment period beginning on October 18. Dillon Consulting provided a copy of the Notice of Completion which provides information about the draft ESR including including how to view and submit comments to Hydro One.

Provincial Agencies - Record of Consultation

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Ministry of Natural Resources and Forestry (MNRF)	Mike Mazzetti - Ministry of Natural Resources and Forestry (MNRF) (District Manager, Kirkland Lake) Rick Gordon - Ministry of Natural Resources and Forestry (MNRF) (District Planner, Kirkland Lake) Shaun Walker - Ministry of Natural Resources and Forestry (MNRF) (Resource Operations Supervisor, Kirkland Lake)	2021-10-18	Email	Outgoing	Dillon Consulting emailed a representative of Ministry of Natural Resources and Forestry to provide notice that the draft ESR is available for a 30- day public comment period beginning on October 18. Dillon Consulting provided a copy of the Notice of Completion which provides information about the draft ESR including including how to view and submit comments to Hydro One.
Ministry of the Environment, Conservation and Parks (MECP)	Josephine Yumbla Kathleen O'Neill - Ministry of the Environment, Conservation and Parks (MECP) (Director, Environmental Assessment Branch) Shelley Wainio - Ministry of the Environment, Conservation and Parks (MECP) (Environmental Planner & EA Coordinator)	2021-10-18	Email	Outgoing	Dillon Consulting emailed a representative of Ministry of Environment Conservation and Parks to provide notice that the draft ESR is available for a 30- day public comment period beginning on October 18. Dillon Consulting provided a copy of the Notice of Completion which provides information about the draft ESR including including how to view and submit comments to Hydro One.
Ministry of Transportation of Ontario (MTO)	John Fraser - Ministry of Transportation of Ontario (MTO) (Manager - Engineering, Northeastern Region)	2021-10-18	Email	Outgoing	Dillon Consulting emailed a representative of Ministry of Transportation of Ontario to provide notice that the draft ESR is available for a 30- day public comment period beginning on October 18. Dillon Consulting provided a copy of the Notice of Completion which provides information about the draft ESR including including how to view and submit comments to Hydro One.
Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI)	Karla Barboza - Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) (Team Lead (Acting) - Heritage Planning, Culture Division)	2021-11-22	Email	Incoming	Ministry of Heritage, Sport, Tourism, and Cultural Industries emailed Hydro One to provide a copy of MHSTCI's letter for the A8K/A9K line refurbishment ESR.
Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI)	Karla Barboza - Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) (Team Lead (Acting) - Heritage Planning, Culture Division)	2021-11-22	Email	Outgoing	Hydro One thanked the Ministry of Heritage, Sport, Tourism, and Cultural Industries for their review of the MHSTCI's letter for the A8K/A9K line refurbishment ESR.

Municipal Staff and Agencies - Record of Consultation

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Town of Iroquois Falls	Town of Iroquois Falls Public Works Department - Town of Iroquois Falls (Public Works Department)	2020-08-04	Email	Outgoing	To Iroquois Falls regarding that the attached letter is to provide a project update to follow up to the previous project notice regarding the A8K/A9K Transmission Line Refurbishment Project.
Town of Kirkland Lake	Ashley Bilodeau - Town of Kirkland Lake	2020-08-04	Email	Outgoing	To Ms. Bilodeau regarding that the attached letter is to provide a project update to follow up to the previous project notice regarding the A8K/A9K Transmission Line Refurbishment Project.
Township of Black River-Matheson	Christopher Ciarrocca - Township of Black River-Matheson	2020-08-04	Email	Outgoing	To Mr. Ciarrocca regarding that the attached letter is to provide a project update to follow up to the previous project notice regarding the A8K/A9K Transmission Line Refurbishment Project.
Township of Black River-Matheson	Gilles Laderoute - Township of Black River-Matheson (Mayor)	2021-05-28	Email	Outgoing	Hydro One emailed Mayor and Members of Council of Black River-Matheson with a Notice of Project Change letter. Hydro One informed them that they are planning to host a virtual Community Information Centre in August and an invitation for the meeting will be shared with members of the community early in the summer.
Township of Black River-Matheson	Gilles Laderoute - Township of Black River-Matheson (Mayor)	2021-08-03	Email	Outgoing	Hydro One emailed the Mayor and Members of Council of Black River-Matheson to invite them to a virtual community meeting on the EA project. Hydro One noted that the attached invitation will be sent to residents in the project area and a notice for the community meeting will be advertised in local media.
Town of Iroquois Falls	Town of Iroquois Falls Public Works Department - Town of Iroquois Falls (Public Works Department)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Town of Kirkland Lake	Ashley Bilodeau - Town of Kirkland Lake	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Town of Kirkland Lake	Don Studholme - Town of Kirkland Lake (Interim Chief Administrative Officer)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Town of Kirkland Lake	Wilfred Hass - Town of Kirkland Lake (Director of Tourism and Economic Development)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Township of Black River-Matheson	Christopher Ciarrocca - Township of Black River-Matheson (Acting Director of Works and Operations)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Township of Black River-Matheson	Cassandra Childs - Township of Black River-Matheson (Treasurer)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Township of Black River-Matheson	Cassandra Childs - Township of Black River-Matheson (Treasurer) Gilles Laderoute - Township of Black River-Matheson (Mayor)	2021-08-25	Email	Outgoing	Hydro One emailed the Mayor and Members of Council of the Township of Black River-Matheson to invite them to the Community Information Centre, including attached login details for the event.
Township of Black River-Matheson	Cassandra Childs - Township of Black River-Matheson (Treasurer)	2021-09-21	Email	Outgoing	Hydro One emailed a representative of the Town of Black River-Matheson to provide information about the draft Environmental Assessment study report. Hydro One stated that this report will be available on their website, a mailed public notice to residents of the area, and a copy will be provided on a USB to the Town of Black River-Matheson to improve document accessibility.
Township of Black River-Matheson	Cassandra Childs - Township of Black River-Matheson (Treasurer) Gilles Laderoute - Township of Black River-Matheson (Mayor)	2021-10-13	Email	Outgoing	Hydro One emailed the Mayor of the Township of Black River Matheson to provide notice that the Draft ESR is available for a 30 day public review beginning on October 18. Hydro One provided the Notice of Public Review for the Draft ESR which was mailed to residents in the project area.
Town of Iroquois Falls	Joel Cyr - Town of Iroquois Falls (office of , Director) Julie Belhumeur - Town of Iroquois Falls (Interim Treasurer) Town of Iroquois Falls Public Works Department - Town of Iroquois Falls (Public Works Department)	2021-10-18	Email	Outgoing	Dillon Consulting emailed a representatives of the Town of Iroquois Falls to provide notice that the draft ESR is available for a 30- day public comment period beginning on October 18. Dillon Consulting provided a copy of the Notice of Completion which provides information about the draft ESR including including how to view and submit comments to Hydro One.

Municipal Staff and Agencies - Record of Consultation

Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Town of Kirkland Lake	Ashley Bilodeau - Town of Kirkland Lake	2021-10-18	Email	Outgoing	Dillon Consulting emailed a representative of the Town of Kirkland Lake to provide notice that the draft ESR is available for a 30- day public comment period beginning on October 18. Dillon Consulting provided a copy of the Notice of Completion which provides information about the draft ESR including including how to view and submit comments to Hydro One.
Township of Black River-Matheson	Cassandra Childs - Township of Black River-Matheson (Treasurer) Chris Ciarroca Christopher Ciarrocca - Township of Black River-Matheson (Acting Director of Works and Operations)	2021-10-18	Email	Outgoing	Dillon Consulting emailed a representatives of the Township of Black River-Matheson to provide notice that the draft ESR is available for a 30- day public comment period beginning on October 18. Dillon Consulting provided a copy of the Notice of Completion which provides information about the draft ESR including including how to view and submit comments to Hydro One.

Interest Groups, Businesses, School Boards, EMS and Tx Customers - Record of Consultation

Categorization	Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Business	Golden Corridor Snowdrifters	Golden Corridor Snowdrifters Snowmobile Club - Golden Corridor Snowdrifters	2020-07-30	Email	Outgoing	To the Golden Corridor Snowdrifters regarding that the attached letter is to provide a project update to follow up to the previous project notice regarding the A8K/A9K Transmission Line Refurbishment Project.
Business	Ontario Northland Transportation Commission	John Thib - Ontario Northland Transportation Commission (Vice President)	2020-07-30	Email	Outgoing	To Mr. Thib regarding that the attached letter is to provide a project update to follow up to the previous project notice regarding the A8K/A9K Transmission Line Refurbishment Project.
Business	Ontario Northland Transportation Commission	Ontario Northland Postmaster - Ontario Northland Transportation Commission (Post Master)	2020-07-30	Email	Incoming	Undeliverable to Ontario Northland
Business	Ontario Northland Transportation Commission	Drew Duquette - Ontario Northland Transportation Commission (Vice President of Transportation)	2020-07-30	Email	Outgoing	To Mr. Duquette regarding that the attached letter is to provide a project update to follow up to the previous project notice regarding the A8K/A9K Transmission Line Refurbishment Project.
Interest Groups	Timiskaming Abitibi Trail Association (OFSC District 14)	Gilbert Fortin - Timiskaming Abitibi Trail Association (OFSC District 14) (District President)	2020-07-30	Email	Outgoing	To OFSC District 14 regarding that the attached letter is to provide a project update to follow up to the previous project notice regarding the A8K/A9K Transmission Line Refurbishment Project.
Business		Bill Tibble Cherell Hackett Chris Ciarroca Chris Wray Erica Werhun - Forbes Bros. Group of Companies Kenton Cahill Kyle Junkin Michael Desjarlais	2021-01-15	Email	Incoming	Forbes thanked Black River-Matheson Township representatives for reviewing the meeting minutes they sent out and informed the Township representatives that Forbes have received responses from Hydro One regarding their inquiries on public health information sessions and the EA review. Forbes noted that there are no upcoming public meetings regarding the project and there will not be an EA report that is publicly available for comment.
Business	Golden Corridor Snowdrifters	Golden Corridor Snowdrifters Snowmobile Club - Golden Corridor Snowdrifters	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Business	Ontario Northland Transportation Commission	John Thib - Ontario Northland Transportation Commission (Vice President)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Business	Ontario Northland Transportation Commission	Drew Duquette - Ontario Northland Transportation Commission (Vice President of Transportation)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Interest Groups	Timiskaming Abitibi Trail Association (OFSC District 14)	Gilbert Fortin - Timiskaming Abitibi Trail Association (OFSC District 14) (District President)	2021-08-04	Smart email	Outgoing	Hydro One sent a Notice of Virtual Meeting #1 to stakeholders on the project contact list. Note this communication does not include Mayors of local municipalities who were contact separately by Hydro One staff.
Business	Ontario Northland Transportation Commission	Drew Duquette - Ontario Northland Transportation Commission (Vice President of Transportation)	2021-08-13	Email	Outgoing	Hydro One emailed Ontario Northland Railway to thank them for their interest in participating in the virtual information centre #1 and their email was added to the registration list. Hydro One provided some details about the upcoming event.
Business		Erica Werhun - Forbes Bros. Group of Companies Randy Lance Ryan Martens - Forbes Bros. Group of Companies	2021-10-06	Email	Outgoing	Hydro One emailed a member of the public to provide the location where trapping is required and to provide the contractor information (Forbes Bros Ltd) so that further details can be discussed.
Business		Erica Werhun - Forbes Bros. Group of Companies Randy Lance Ryan Martens - Forbes Bros. Group of Companies	2021-10-06	Email	Incoming	A representative of Forbes Bros Ltd emailed a member of the public to notify them that a trapper has already been secured for the project. The representative thanked them for their interest.
Business	Ontario Northland Transportation Commission	Drew Duquette - Ontario Northland Transportation Commission (Vice President of Transportation)	2021-10-18	Email	Outgoing	Dillon Consulting emailed a representative of Ontario Northland Transportation Commission to provide notice that the draft ESR is available for a 30- day public comment period beginning on October 18. Dillon Consulting provided a copy of the Notice of Completion which provides information about the draft ESR including including how to view and submit comments to Hydro One.
Business	Ontario Northland Transportation Commission	John Thib - Ontario Northland Transportation Commission (Vice President)	2021-10-18	Email	Outgoing	Dillon Consulting emailed a representative of Ontario Northland Transportation Commission to provide notice that the draft ESR is available for a 30- day public comment period beginning on October 18. Dillon Consulting provided a copy of the Notice of Completion which provides information about the draft ESR including including how to view and submit comments to Hydro One.
Interest Groups	Timiskaming Abitibi Trail Association (OFSC District 14)	Gilbert Fortin - Timiskaming Abitibi Trail Association (OFSC District 14) (District President)	2021-10-18	Email	Outgoing	Dillon Consulting emailed a representative of Timiskaming Abitibi Trail Association to provide notice that the draft ESR is available for a 30- day public comment period beginning on October 18. Dillon Consulting provided a copy of the Notice of Completion which provides information about the draft ESR including including how to view and submit comments to Hydro One.

Property Owners

Categorization	Organisation	Stakeholders	Date	Type of communication	Origin	Summary
Resident	Resident	Resident	2018-07-16	Canada Post Admail Campaign	Outgoing	Hydro One sent a Notice of Commencement (NoC) letter confirming initiation of the Class EA for refurbishment of the existing 115 kV transmission infrastructure on circuits A8K and A9K via Canada Post admail campaign to ~3200 homes and businesses within postal routes of the Project Area.
Resident	Resident	Resident	2020-08-10	Canada Post Admail Campaign	Outgoing	Hydro One sent a Project Update letter providing an update on the project. The Project Update notice detailed the proposed Project undertaking and the streamlined Class EA Screening process and anticipated Community Information Centre. The letter was sent via Canada Post admail campaign to ~3200 homes and businesses within postal routes of the Project Area.
Resident	Resident	Resident	2021-08-16	Canada Post Admail Campaign	Outgoing	Hydro One sent a Notice of Virtual Information Meeting via Canada Post admail campaign to ~3200 homes and business within postal routes of the Project Area.
Resident	Resident	Resident	2021-08-25	Email	Incoming	Hydro One received an email from a Kirkland Lake resident inquiring where the structures will be replaced near their house.
Resident	Resident	Resident	2021-08-27	Email	Outgoing	Hydro One followed up to the resident's inquiry indicating that the project is a refurbishment on circuits A8K/A9K that travel west from the station. Hydro One provided a map showing the station and highlighted the resident's property. Hydro One confirmed that the structures near the resident's home are on a different circuit.
Resident	Resident	Resident	2021-08-28	Email	Incoming	Resident thanked Hydro One for the clarification.

Appendix C1 Taykwa Tagamou Nation (TTN)
Draft ESR Comment Response
Table & Hydro One
Commitments

Taykwa Tagamou Nation (TTN) Draft ESR Comment Response and Hydro One Commitment Table

Comment Number	TTN Comment	TTN Recommendation	Hydro One Response	Technical Meeting #4 Notes	TTN Response (Addressed, Partially Addressed, Not Addressed)	Hydro One Response (01/06/2022)	TTN Response (January 16, 2022)
General Comments							
1. Draft ESR, Section 3.5.1.3, Taykwa Tagamou Nation (p. 3-14).	<ul style="list-style-type: none"> The summary of the consultation with TTN provided in section 3.5.1.3, does not adequately reflect the discussions that took place during Technical Meeting #2 on October 6, 2021, specifically the inclusion of a commitment list within the ESR. HONI has not included a list of commitments made to TTN including, but not limited to environmental management, environmental protection, consultation, engagement, and involvement of TTN in the A8K/A9K Transmission Line Refurbishment Project, as discussed during Technical Meeting #2. 	<p>A. HONI must revise the summary of consultation to include this item under the notes for Technical Meeting #2.</p> <p>B. HONI must include a formal list of commitments made to TTN within the final ESR.</p> <p>C. HONI must commit to providing sufficient time (15 business days) for TTN to review and comment on the commitment list and for both parties to work to resolve any disagreements about its contents, before the final ESR is submitted.</p>	Table 3-1 outlines commitments made during Project consultation with TTN that HONI will adhere to throughout the Project.	TTN will review commitments table and will let HONI know if review can be expedited	<p>A. Addressed (pending inclusion of the suggested edits in Section 3.5.1.3)</p> <p>B. Partially Addressed</p> <p>TTN acknowledges that HONI has provided the requested list of commitments. TTN has provided a number of requested changes/additions to the commitment list that will need to be addressed before the commitment list can be included within the final ESR.</p> <p>C. Partially Addressed</p> <p>TTN requests that the 15 business days be committed to for reviewing, commenting on and confirming the finalization of the commitment list. Further to this TTN requests that this timeline take into consideration the closing of our Lands and Resources Office from December 17th 2021 to January 3rd 2022 and as such request that the deadline for the completion of this activity be on January 13th, 2022.</p>	<p>A. Acknowledged</p> <p>B. Acknowledge</p> <p>C. Hydro One requests that a brief discussion regarding any changes to the commitment list take place during the revision workshop tentatively scheduled for Jan 12, 2022.</p>	<p>A. Addressed</p> <p>B. Addressed</p> <p>C. Addressed - pending</p> <p>Pending discussions regarding changes to the commitment list.</p>
Aquatic Environment							
2. Draft ESR, Section 4.6.6.2, Aquatic and Fish Habitat (p. 4-24)	Of the 46 watercourses identified along the ROW, HONI states that 24 of these are tributaries to the Black River. While HONI does not indicate	TTN requests that HONI provide details on enhanced measures that will be implemented to mitigate potential impacts to watercourses that are upstream of areas	Erosion and sediment control mitigation measures are provided in Section 7.6.4 of the ESR.	HONI to provide clarity on timing of when the ESC Plans will be available. Aiming to provide a more project-specific plan before	Addressed – pending	Acknowledged	Addressed – pending
					Pending receipt of the Erosion and Sediment Control Plans and TTN's		Pending receipt of the Erosion and

Taykwa Tagamou Nation (TTN) Draft ESR Comment Response and Hydro One Commitment Table

	<p>how many of these tributaries to the Black River will need to be crossed for the Project, TTN notes that this watercourse is frequently used by our community members for harvesting northern pike and walleye. TTN is concerned about the impacts that erosion and sedimentation resulting from watercourse crossings may have in these areas, especially where potentially suitable spawning habitat for walleye, northern pike, and forage species exists downstream of the proposed crossing location.</p>	<p>harvested by TTN. Where possible, TTN would prefer that HONI avoid crossing tributaries to the Black River.</p>	<p>Updated section 4.6.6.2 to indicate that Erosion and Sediment Control (ESC) Plan for watercourse crossings will be determined based on the specific watercourse crossing and permit conditions. HONI will prepare the ESC Plan based on these conditions. HONI commits to providing TTN the opportunity to review the final watercourse crossing permit conditions and updated ESC Plan. This commitment is also listed in Table 3-1.</p>	<p>end of year for TTN's review. Focus to be on the tributaries to the Black River.</p>	<p>review of mitigations for watercourse crossings.</p>		<p>Sediment Control Plans and TTN's review of mitigations for watercourse crossings.</p>
<p>3. Draft ESR, Section 6.3, Maintenance, Operation and Retirement Phases (p. 6-2)</p>	<p>HONI indicates that the transmission line will undergo regular maintenance after being brought into service in 2023. However, HONI provides minimal details on the extent of activities required to maintain the transmission line, and of measures that will be put in place to mitigate the effects of these activities. TTN requires these details as ongoing maintenance activities, such as brush clearing, and watercourse crossings, may impact our rights and interests if adequate mitigation measures are not in place.</p>	<p>A. TTN requires that HONI provide greater detail on the extent of activities required to maintain the transmission line (e.g., if brush clearing and watercourse crossings are required, what type of vehicles will be used for maintenance activities, how often maintenance activities will be required, etc.). B. If brush clearing is necessary, TTN requires that this be completed outside the migratory bird breeding season (April 15 to August 31). Where brush clearing is necessary during the migratory bird breeding seasons, TTN requires that HONI commit to completing nest sweeps within 24 hours of commencing activities. C. TTN requests that HONI clarify if watercourse crossings will be required for ongoing maintenance activities. If required, TTN requests that HONI provide the location of these watercourse crossings, and that watercourse crossings be completed in adherence to the DFO's Interim Code of Practice: Temporary Stream Crossings and the in-water work restricted timing windows for the species present.</p>	<p>A. Section 8 of the ESR commits to development of an "as constructed" ongoing operation and maintenance plan for the project. This plan will document maintenance requirements. B. Updated section 6.3 to include: "If brush clearing is necessary, HONI will complete the work outside of the migratory bird breeding season (April 15 to August 31) and where brush clearing is required during migratory bird breeding season, HONI commits to completing nest sweeps within 24 hours of commencing activities." This commitment is also outlined in Table 3-1. C. If watercourse crossings will be required for ongoing maintenance activities, HONI will adhere to the DFO's Interim Code of Practice. D. Updated Section 6.3 to include: "On-going maintenance</p>	<p>A. HONI will provide clarity on timelines for when this will be available for TTN review. B. Acknowledged C. Acknowledged D. HONI commits to have further discussions on vegetation maintenance taking into consideration TK study. This commitment will be added to Table 3-1. Mechanical or hand clearing will only be used during this project.</p>	<p>A. Addressed – pending Pending receipt of details regarding ongoing operation and maintenance for the Project. B. Addressed C. Addressed D. Not Addressed TTN maintains that HONI should avoid the use of herbicides for vegetation management during both the construction and maintenance phase of the Project. TTN is very concerned by any use of herbicides for Project activities as this could have adverse impacts to the traditional land use practices of our community (e.g. plant gathering, fishing) and our rights and interests.</p>	<p>A. Acknowledged B. Acknowledged C. Acknowledged D. HONI commits to avoiding the use of herbicides for vegetation maintenance during the construction phase of the Project. HONI commits to consulting with TTN and providing justification for the use of herbicides if required for future maintenance activities.</p>	<p>A. Addressed B. Addressed C. Addressed D. Partially Addressed TTN acknowledges that herbicides use will be avoided for vegetation maintenance during the construction phase. TTN remains concerned by the potential use of herbicides during the maintenance phase for this Project. Specifically, TTN is concerned by the potential volume of herbicides that could be used, the potential methods</p>

Taykwa Tagamou Nation (TTN) Draft ESR Comment Response and Hydro One Commitment Table

		<p>D. TTN requests that HONI commits to using only mechanical methods for vegetation control in the ROW throughout the operations period, unless for emergency reasons. If the latter, HONI must commit to notifying and providing justification for use of non-mechanical methods on a case-by-case basis, including why it is considered an emergency need to do so.</p>	<p>activities may include inspection, replacement of components and vegetation management. These activities may include the requirement to establish access and watercourse crossings. All activities will be conducted in adherence to applicable laws.”</p> <p>Hydro One commits to providing justification for use of non-mechanical methods to limit disturbance and impacts to the environment. This commitment is included in Table 3-1.</p>				<p>used in the application of herbicides and potential impacts to environmentally sensitive areas. We reiterate our request that HONI commit to avoid the use of herbicides during the maintenance phase of the Project.</p>
<p>4. Draft ESR, Section 7.6.1.2, Spills, (pp. 7-7 – 7-8)</p>	<p>HONI acknowledges that spills may occur during construction and maintenance activities, especially from construction / maintenance vehicles and equipment. While HONI has provided a number of mitigation measures to reduce the risk of spills and to minimize the effects of spills that occur, they have not provided details on notifying TTN of these incidents. The occurrence of spills, especially near waterbodies and other ecologically sensitive areas, are a significant concern to our community. We require notification of these occurrences so that this information can be shared with our community members who may harvest in the area.</p>	<p>A. TTN requests that a copy of the Emergency Response Plan be provided for review.</p> <p>B. TTN requires that HONI notify the Lands and Resources Department (lands@taykwatagamou.com) of any spills reported to the MECP’s Spills Action Centre. Information shared in these notifications should reflect the information reported to the MECP and include:</p> <ul style="list-style-type: none"> • Date and time of the incident • Source and/or location of the incident • Current status of the incident • Type of pollutant involved • What impact the pollutant is having on the environment • Weather conditions (for example, precipitation, temperature, wind direction, etc.) <p>TTN also requires that HONI provide updates on the cleanup and remediation of spills.</p>	<p>A. The Emergency Response Plan is included in the EMP in Appendix H.</p> <p>B. HONI commits to notifying the Lands and Resources Department of any spills reported. This commitment is also outlined in Table 3-1.</p>	<p>A. Acknowledged</p> <p>B. Acknowledged. HONI commits to working with TTN to revise the EMP including the Emergency Response Plan.</p>	<p>A. Addressed</p> <p>B. Addressed</p>	<p>Acknowledged</p>	<p>A. Addressed</p> <p>B. Addressed</p>
<p>5. Draft ESR, Section 7.6.4.1, Potential Effects on Water Quantity (pp. 7-10 – 7-14)</p>	<p>HONI indicates that construction activities may include the discharge of construction water from dewatering activities and the installation of temporary stream crossing structures. While several mitigation measures have been provided, HONI does</p>	<p>A. TTN requires that HONI sample construction water discharge for TSS, and ensure that water discharged to the environment does not exceed TSS concentrations of 25 mg/L. HONI should also include in the ESR adaptive measures for treating construction water that</p>	<p>A. If a permit to take water is required for construction dewatering activities, the requirements dictated by MECP relating to Provincial Water Quality Objectives would be adhered to (typical requirements are 25 mg/L of less). Erosion and</p>	<p>A. Acknowledged</p> <p>B. HONI commits to including this recommendation in the construction management plan. Anything related to TSS, filtration bags will be</p>	<p>A. Partially Addressed</p> <p>TTN appreciates that HONI will be adding construction dewatering to the EMP, if required; however, HONI has not indicated if contingency measures for treating water</p>	<p>A. HONI does not anticipate the need for treating water that exceeds 25 mg/L TSS. Contingency measures for treating water that exceeds 25 mg/L TSS will be</p>	<p>A. Addressed</p> <p>B. Addressed</p> <p>C. Addressed</p> <p>D. Partially Addressed –</p>

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	<p>not indicate if construction water discharge will be sampled to ensure it meets acceptable limits for total suspended solids (TSS), or if turbidity monitoring will be completed during the installation of temporary watercourse crossings. This is concerning to TTN as discharge high in TSS / turbid water can result in the smothering of eggs, spawning habitat, and benthic macroinvertebrates, damage to fish gills, behavioural changes in fish, and increase the vulnerability of fish to toxins, infection and disease</p>	<p>exceeds 25 mg/L. B. TTN requires that all construction water be treated using a filtration bag prior to discharge to the receiving environment, and that HONI avoid discharging construction water into, or upgradient of, environmentally sensitive areas (e.g., wetlands, watercourses, rare vegetation communities, etc.). C. If permits and / or approvals from MECP are required for the discharge of construction water (e.g., Environmental Compliance Approvals), TTN requires that these be provided for review. D. TTN requires that HONI complete real-time turbidity monitoring during the installation and removal of watercourse crossings, using a control-impact approach (i.e., using an upstream reference site and downstream impact site). HONI must ensure that construction-based turbidity increases (where construction-based turbidity increase (measured downstream turbidity) – (measured upstream turbidity) do not persist for durations exceeding those prescribed in Table 10-3 of the Erosion and Sediment Control Guideline for Urban Construction (Toronto and Region Conservation Authority, 2019). E. In Table 7-1, HONI indicates that a construction water management plan will be developed prior to construction. TTN requires that HONI provide this plan for review, prior to its implementation.</p>	<p>sediment control measures to be implemented during construction will also help to achieve these requirements, if dewatering is necessary. If dewatering will be required, it will be added to the final EMP which HONI will be working with TTN to finalize.</p> <p>B. HONI commits to treating construction water using a filtration bag prior to discharge to the receiving environment, and avoiding discharging construction water into or upgradient of environmentally sensitive areas. This can be included in the EMP.</p> <p>C. HONI commits to providing permits and/or approvals from MECP required for the discharge of construction water for TTN’s review. This commitment is also outlined in Table 3-1.</p> <p>D. To be discussed</p> <p>E. The Construction Water Management Plan is included in the EMP in Appendix I.</p>	<p>included. Anything else for mitigation will be included in the ESC Plan.</p> <p>C. Acknowledged</p> <p>D. HONI commits to having further discussions on turbidity monitoring.</p> <p>E. HONI commits to reviewing and revising the Construction Water Management Plan with TTN</p>	<p>that exceeds 25 mg/L TSS will be included.</p> <p>B. Addressed</p> <p>C. Addressed</p> <p>D. Not Addressed</p> <p>TTN maintains that real-time turbidity monitoring is necessary during the installation of watercourse crossings to confirm the performance of erosion and sediment control measures. TTN looks forward to having further discussions with HONI regarding turbidity monitoring. Considering that some watercourse crossings will occur in proximity to fish habitat, TTN has concerns about the impact that increased TSS levels may have.</p> <p>E. Addressed – pending</p> <p>Pending TTN’s review of the Construction Water Management Plan and follow-up discussions with HONI.</p>	<p>provided, if required.</p> <p>B. Acknowledged</p> <p>C. Acknowledged</p> <p>D. Acknowledged. Hydro One looks forward to discussing turbidity monitoring further with TTN.</p> <p>E. Acknowledged</p>	<p>pending</p> <p>Pending further discussions with HONI with regard to turbidity monitoring.</p> <p>E. Addressed – pending</p> <p>Pending TTN’s review of the Construction Water Management Plan and follow-up discussions with HONI.</p>
<p>6. Draft ESR, Section 7.6.6.2, Fish and Aquatic Habitat (pp. 7-17 – 7-18)</p>	<p>HONI indicates that the Project will cross several watercourses identified as fish habitat. However, they have not noted the type of habitat present in these watercourses. This is concerning to TTN, as certain</p>	<p>TTN requires that HONI provide a description of the fish habitat present at each watercourse crossing location. This information can be provided in table or map format and should include:</p> <ul style="list-style-type: none"> Proposed Crossing Details 	<p>This information is included in the Aquatic Habitat Crossing Assessment Report.</p>	<p>HONI commits to reviewing and revising the Fish and Fish Habitat Value component (referencing potential downstream impacts to fish and fish habitat) in the Aquatic</p>	<p>Partially Addressed</p> <p>TTN acknowledges that some of the requested information has been included in Aquatic Habitat Crossing Assessment Report, Version 2.0 (dated</p>	<p>Hydro One commits to following up with this information once crossing methodologies have been finalized.</p>	<p>Addressed – pending</p> <p>Addressed pending the provision of further details</p>

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	types of fish habitat are more susceptible to impacts than others. Specifically, fish spawning and nursery areas are critical habitats that contribute to a stream’s productivity and can be spatially limited. Therefore, it is important that appropriate identification, avoidance and/or mitigation measures are implemented to reduce or minimize potential project-related effects.	<p>Crossing Type</p> <ul style="list-style-type: none"> - In-stream footprint (if applicable) - If fording is required - Proposed construction / decommission timing <ul style="list-style-type: none"> • Biophysical Habitat Data <ul style="list-style-type: none"> - Bankfull Width - Bankfull Depth - Wetted Width - Wetted Depth • Fish and Fish Habitat Value <ul style="list-style-type: none"> - Habitat Types Present and Relative Proportion of Habitat by Type - Species Present • Proposed Restricted Activity Timing Window 		Habitat Crossing Assessment Report, using existing data.	November 16, 2021). However, other information requested by TTN has not been included, specifically Proposed Crossing Details and Proposed Restricted Activity Timing Window. TTN requires this information to further understand what impacts the crossing may have on aquatic impact and if HONI’s proposed mitigations are sufficient for the species present.		with regard to watercourse crossings.
Terrestrial Environment							
7. Draft ESR, Table 3-1, Summary of Key Comments and Concerns from Indigenous Communities (p. 3-19)	<p>Within Table 3-1, HONI states that Indigenous communities have “Concerns about the impact the Project could have to Species at Risk in the area. The following Species at Risk have the potential to occur within the Project Area:</p> <ul style="list-style-type: none"> • Birds (Eastern Whip-poor-will, Bobolink, Barn Swallow, Banks Swallow, Chimney Swift) • Bats (Little Brown Myotis, Eastern SmallFooted Myotis, Northern Myotis) • Gypsy Cuckoo Bumble Bee • Caribou (Boreal population) • Eastern Cougar” (pg. 3-19) <p>TTN had brought forward concerns about impacts on Pitcher’s Thistle (<i>Cirsium pitcheri</i>) and Blanding’s Turtle (<i>Emydoidea blandingii</i>) in previous technical reviews, which are not included in this table.</p> <p>This is concerning to TTN as this table is supposed to summarize</p>	<p>HONI must update Table 3-1 to include all species that TTN has noted concerns for with relation to impacts of the Project, which includes Pitcher’s Thistle and Blanding’s Turtle.</p>	Included Pitcher’s Thistle in list of SAR which have the potential to occur in the Project Area in Table 3-1 (Table 3-2 in Final ESR).	HONI can include Blandings Turtles in Table 3-1 (Table 3-2 in Final ESR). HONI commits to providing TTN with documentation regarding Blandings Turtle Habitat and occurrence.	Addressed	Acknowledged	Addressed

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	the concerns and comments regarding the Project and in its current condition this table does not adequately reflect TTN's comments and concerns.						
8. Draft ESR, Section 4.6.6.3, Birds (p. 4-24)	Within section 4.6.6.3 HONI states that "Through desktop review, it was determined that three SAR birds; Eastern Whip-poor-will, Bobolink and Barn Swallow." (p. 4-24). This sentence appears to be incomplete.	HONI should revise this sentence to identify what the desktop review identified about the three SAR.	Revised incomplete sentence (added text in blue): 'Through desktop review, it was determined that three SAR birds; Eastern Whip-poor-will, Bobolink and Barn Swallow have the potential to occur within the Project Area.'	Acknowledged	Addressed	Acknowledged	Addressed
9. Draft ESR, Section 4.6.6.3, Birds (p. 4-24)	HONI states that "breeding bird surveys completed by NBS were focused on SAR species with potential occurrence within the Project Study Area. Bird surveys completed by NBS focused on confirming presence/absence of SAR and assessing habitat use by breeding birds. Bird monitoring/assessment completed along the ROW included morning point counts, crepuscular/nocturnal surveys, marsh bird surveys, and incidental observations." (p. 4-24). HONI does not provide rationale as to how late season single visit surveys, which do not adhere to ideal timeframes for surveys or do not adhere to survey protocol methodology, are sufficient to characterize the baseline environmental conditions. It is concerning to TTN that these surveys will not provide as fulsome data as multi-season field surveys conducted within ideal timeframes, with multiple visits and adhering to full survey protocols. Partial data of baseline conditions present within the Project Area could lead to adverse impacts to the natural	In light of the limited scope of the baseline surveys conducted by HONI, TTN requests that HONI commit to using the precautionary principle and assuming that all potential habitat related to SAR or species of conservation concern are assumed to be inhabited by those species and thereby all relevant avoidance, protection and mitigation measures be adhered to during both construction and operation/maintenance phases of the Project.	Added the following to Section 4.6.6.3: HONI acknowledges that due to time and schedule constraints, single visit morning point counts, crepuscular/nocturnal surveys, marsh bird surveys were completed to assess presence/absence of SAR and breeding birds within the Project Area as opposed to multi-season field surveys. The single visit surveys did not fully adhere to ideal timeframes for surveys or to survey protocol methodology. Given this, HONI is committed to using a precautionary approach to impact mitigation, assuming that all potential habitat related to SAR or species of conservation concern are inhabited by the species noted in the desktop review and field surveys. To mitigate potential disturbance SAR or species of conservation concern, relevant avoidance, protection and mitigation measures will be adhered to during both construction and operation/maintenance phases of the Project.	Acknowledged	Addressed	Acknowledged	Addressed

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	environment which TTN community members rely upon to practice their rights and interests.						
10. Draft ESR, Section 4.6.6.8, Species at Risk (p. 4-26) –Draft ESR, Appendix D, Section 2.2. Field Surveys (p.1) Draft ESR, Appendix D, Appendix 1, (p. 41) Draft ESR, Appendix E, Taykwa Tagamou Nation Technical Reviews	<p>Within section 4.6.6.8, HONI states that screening was performed to identify potential SAR and SAR habitat present within the Project Study Area (PSA). The results of the desktop analysis were used to inform the field surveys undertaken as part of this Project. For Blanding’s Turtle, HONI states that the rationale for not undertaking targeted surveys is that the “project is outside known range, although there are observations of this species approximately 100 km to the east in Quebec near Macamic and to the south near Temiskaming Shores in Ontario. Opportunistic visual surveys will be conducted in potentially suitable habitat” (p. 41). HONI has provided an additional map titled “A8K/A9K Transmission Line Refurbishment Project: Species at Risk Map” within Appendix E that illustrates that Blanding’s Turtle have been observed within 10 km of the PSA. This contradiction is concerning to TTN as it appears that the field surveys for this Project were scoped inappropriately as observations of Blanding’s Turtles have been made within 10 km of the Project. Blanding’s Turtles can carry out long distance movements greater than 10 km (Government of Canada, 2021). With observations being made within 10 km of the PSA, and potential habitats (e.g., wetlands) for Blanding’s Turtle being present within the PSA, it</p>	<p>A. HONI must commit to undertaking appropriately timed visual encounter/basking surveys for Blanding’s Turtles that adhere to survey techniques, survey period (i.e., after ice cover has melted and no later than June 15), timing, environmental conditions, and search effort (Ontario Ministry of Natural Resources and Forestry, 2015) B. HONI must commit to updating the Endangered Species Act (ESA) Mitigation Plan to include Blanding’s Turtle along with appropriate avoidance, protection and mitigation measures. C. If HONI is unable to commit to undertaking appropriately timed visual encounter/basking surveys to confirm presence or absence of Blanding’s Turtles, then HONI must commit to assuming that all potential Blanding’s Turtle habit, as defined under the General Habitat Description (Ministry of the Environment, Conservation and Parks, 2021), is being inhabited by the species and adhere to the policies of the Endangered Species Act, 2007. If HONI is already taking this approach, please confirm. D. If HONI is unable to adequately protect potential Blanding’s Turtle habit from impacts of the Project, they must further undertake, and consult with MECP and TTN, an application for authorization under the Endangered Species Act, 2007.</p>	To be discussed	HONI commits to providing TTN with documentation regarding Blanding’s Turtle Habitat and occurrence.	<p>Not Addressed</p> <p>TTN has reviewed the documentation provided by HONI regarding Blanding’s Turtle habitat and occurrence.</p> <p>The documentation provides a description of the ecology of Blanding’s Turtles and HONI highlighted portions of this that support their argument while ignoring or being dismissive of portions that do not support their argument (e.g. >10km overland movements). The documentation and arguments provided by HONI do not mean that they have sufficiently discharged their responsibility to confirm the presence or absence of Blanding’s Turtle and their habitat within the Project Study Area.</p> <p>As such TTN proposes the following:</p> <ul style="list-style-type: none"> • HONI organize a meeting with all parties to discuss this matter with representatives from MECP and extend this meeting invitation Joe Crowley and Mike Oldham (who are the individuals cited in the note on the NHIC data). • If HONI is unable or 	<p>HONI commits to undertaking appropriately timed visual encounter/basking surveys for Blanding’s Turtles that adhere to survey techniques, survey period, timing, environmental conditions, and search effort.</p>	<p>Partially Addressed</p> <p>TTN acknowledges that HONI commits to undertaking the appropriately timed visual encounter/basking surveys for Blanding’s Turtles that adhere to survey techniques, survey period, timing, environmental conditions, and search effort.</p> <p>TTN requests that HONI confirm whether the ESA Mitigation Plan will be updated to reflect the information regarding historical Blanding’s Turtle sightings and that visual encounter / basking surveys will be conducted.</p> <p>HONI commits to including information regarding historical Blanding’s Turtle sightings and visual encounter/basking</p>

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	is unclear why appropriate field surveys were not performed to determine presence or absence of this species.				unwilling to commit to the above meeting, then HONI must commit to undertaking the actions outlined in recommendations A, B, C, and D.		surveys and pre-construction sweeps will be conducted in the EMP.
11. Draft ESR, Section 4.6.6.8, Species at Risk (p. 4-26)	<p>HONI states that “Throughout the 2021 field season, the following four SAR were observed within the Project Study Area:</p> <ul style="list-style-type: none"> • Eastern Whip-poor-will • Bobolink • Barn Swallow • Little Brown Myotis” (p. 4-26) <p>HONI has omitted to include five SAR that were observed during their field assessments in July 2021: Olive-sided Flycatcher, Canada Warbler, Common Nighthawk, Bald Eagle and Monarch.</p> <p>Additionally, HONI did not include lake sturgeon within section 4.6.6.8, which was listed within their ESA Mitigation Plan. While TTN recognizes lake sturgeon are not present in watercourses crossed by the Project, some watercourses that are upstream of the Abitibi River (in which lake sturgeon are present) will require crossing. Furthermore, while not indicated on DFO’s aquatic species at risk mapping, the Black River may provide suitable habitat for lake sturgeon. HONI must take a precautionary approach for these watercourse crossings to ensure any potential impacts to lake sturgeon are avoided. It is unclear why these species were omitted from this section of the draft ESR, as most of them (excluding lake sturgeon) are</p> 	<p>A. TTN requests that HONI update this section of the report to include Olive-sided Flycatcher, Canada Warbler, Common Nighthawk, Bald Eagle, Monarch and lake sturgeon.</p> <p>B. TTN requests that HONI commit to providing details of the observations or potential occurrences of the six species within this section.</p>	<p>4.6.6.9: Added observation information from the 2021 field studies for Olive-sided Flycatcher, Canada Warbler, Common Nighthawk, Bald Eagle and Monarch. Also included observation information related to number of individuals, specific location and behavior.</p> <p>Added the following text to 4.6.6.9:</p> <p>While DFO’s Aquatic Species at Risk mapping does not show potential for Lake Sturgeon within the Project Area, comments from Taykwa Tagamou Nation (TTN) indicated potential presence in the Black River and its tributaries. Given this potential, HONI will take a precautionary approach for watercourse crossings over the Black River and its tributaries to ensure potential impacts to Lake Sturgeon are avoided through the application of protections and mitigation measures.</p>	<p>A. HONI will add section 4.6.6.8.1 to include subsection that will include this list of species</p>	Addressed	Acknowledged	Addressed

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	listed under both the Species at Risk Act and they Endangered Species Act. TTN is concerned that as the draft ESR is misrepresenting the presence of SAR within the ROW.						
12. Draft ESR, Section 4.6.6.8, Species at Risk (p. 4-27)	<p>Within section 4.6.6.8, HONI states that for the assessing the presence of Eastern Whip-poor-will in recordings from Automated Recording Units (ARUs), that the “Analysis of acoustic recordings is on-going.” (p. 4-26). HONI does not state when this analysis will be completed or how the results of the analysis will be incorporated into the ESR or other Project documents.</p> <p>This is concerning to TTN as it appears that the full extent of the data collected from the short and inappropriately timed field season has not been completed. Without this information it is unclear how adverse impacts to SAR will be avoided and mitigated</p>	<p>A. HONI must commit to completing their analysis of the acoustic recording data associated with SAR surveys and migratory bird survey and commit to updating the draft ESR and ESA Mitigation Plan with the results of this analysis.</p> <p>B. HONI must update the draft ESR to include the following commitment: HONI will complete their analysis of the acoustic recording data and update the ESA Mitigation Plan, Environmental Protection Plan and Environmental Management Plan accordingly to identify potential and confirmed habitat for SAR and apply appropriate avoidance, protection and mitigation measures. As well, HONI must provide a copy of these updated documents to TTN for their review and comment.</p>	<p>Analysis of acoustic recording data was completed prior to the final NBS report being issued. Text regarding ‘further analysis required’ was included in the draft NBS report and carried through to the ESR. Updated the text in Section 4.6.6.8 related to the Eastern Whip-poor Will occurrence (from final NBS report): Eastern Whip-poor Will: A single eastern whip-poor-will was observed foraging near a private driveway north of Kirkland Lake at 22:00 on 8th July 2021. It was sitting on the ground and sallying forth to catch flying insects. No eastern whip-poor-will were detected during point-in-time nocturnal surveys. A single, very faint call that may have been a whip-poor-will was detected on July 7 at ARU Micro #7 deployed in potentially suitable rock barren habitat along the Sesekinika Road (556992E 5340234N). No other potential whip-poor-will calls were detected later in the night or on the previous or following night either.</p>	Acknowledged	Addressed	Acknowledged	Addressed
13. Draft ESR, Section 4.6.6.9, Wildlife and Significant Habitat (p. 4-28), Section 4.6.6.13, Habitat for Species of Conservation	<p>Within section 4.6.6.9, HONI states that Species of Conservation Concern (SCC) are defined as:</p> <ul style="list-style-type: none"> • Species listed as Special Concern, Threatened, or Endangered under SARA. • Species that are provincially rare/tracked (i.e., have a 	<p>A. TTN requests that HONI update this section of the report to include these four species: Eastern Whip-poor-will, Bobolink, Barn Swallow, and Little Brown Myotis.</p> <p>B. TTN requests that HONI commit to providing details of the observations or potential</p>	<p>Eastern Whip-poor-will, Bobolink, Barn Swallow, and Little Brown Myotis are discussed in detail in Section 4.6.6.8 as part of SAR. HONI does not feel the need to include them again in Section 4.6.6.9.</p>	HONI will include a reference to 4.6.6.8 in section 4.6.6.8.1 regarding observation of species listed in 4.6.6.8.1	Addressed	Acknowledged	Addressed

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<p>Concern (p. 4-31)</p>	<p>Sub-national (provincial) Rank of S1 - Critically Imperiled, S2 – Imperiled, or S3 – Vulnerable). <ul style="list-style-type: none"> Species that are designated as Special Concern under the ESA.” (pg. 4-28) <p>Then in section 4.6.6.13 HONI states that four Species of Conservation Concern (Common Nighthawk, Olive-sided Flycatcher, Canada Warbler and Monarch) were identified within the PSA during field studies. This is erroneous and misrepresents that number of Species of Conservation Concern that were identified within the PSA during field studies, as HONI did not include:</p> <ul style="list-style-type: none"> Eastern Whip-poor-will (listed as threatened under SARA) Bobolink (listed as threatened under SARA) Barn Swallow (listed as threatened under SARA) Little Brown Myotis (listed as endangered under SARA) </p>	<p>occurrences of these four species within this section.</p>					
<p>14. Draft ESR, Section 4.6.6.9, Wildlife and Significant Habitat (p. 4-28)</p>	<p>Within section 4.6.6.9, HONI states that “Based on desktop background review previously summarized in the Natural Environment Field Program TOR, the following 14 SCC were identified as having the potential to occur within the general vicinity of the Project Study Area” (p. 4-28). HONI does not provide details of the Natural Environment Field Program Terms of Reference (TOR), nor do they include this document in the appendices. This is concerning to TTN as to date HONI has not shared a document with this title with us, and this document appears to play an important part within the</p>	<p>TTN requests that HONI clarify whether the Natural Environment Field Program TOR is synonymous with Appendix D, and if not, share the Natural Environment Field Program TOR with us for our review and comment.</p>	<p>The TOR for the Field Program is included in the methods section. The methods section was derived from NBS’ scope of work which essentially formed the terms of reference/methods. The Natural Environment Field Program TOR is synonymous with Appendix D (NBS Field Report).</p>	<p>Acknowledged</p>	<p>Addressed</p>	<p>Acknowledged</p>	<p>Addressed</p>

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	ESR.						
15. Draft ESR, Section 4.6.6.9, Specialized Habitat for Wildlife (p. 4-30), Appendix D, A8K/A9K Transmission Line Refurbishment Project Iroquois Falls to Kirkland Lake: 2021 Field Surveys Summary, Section 3.3.3, Specialized Habitat for Wildlife (p. 21)	<p>Within section 4.6.6.12, HONI states that “the potential for turtle nesting was observed during the 2021 field program within sandy areas; however, no turtle nests or turtles were observed during the 2021 field program. In accordance with the Ecoregion 3E Criterion Schedules (MNR, 2015a), turtle nesting areas must have evidence of at least one turtle nest to be considered significant. Therefore, no SWH for turtle nesting was observed within the PSA.” (p. 4-30). This statement contradicts the assertion within Appendix D: “Several occurrences of potential turtle nesting habitat were observed during 2021 fieldwork consisting of exposed sandy areas near wetlands (Table 5). No turtle nesting was observed however, so these areas could only be considered candidate SWH. Confirmation of turtle nesting and SWH would require targeted repeat surveys earlier in the season.” (p. 21) This contradiction is concerning to TTN, as we agree that the precautionary principle should be used, and these areas should be considered candidate significant Wildlife Habitat (SWH) until targeted repeat surveys can be completed earlier in the season</p>	<p>HONI must commit to using the precautionary principle by including these locations as candidate turtle nesting habitat and providing appropriate avoidance, protection and mitigation measures.</p>	<p>Added the following text to Section 4.6.6.12: While no turtle nests were observed within the PSA, several occurrences of potential turtle nesting habitat were observed consisting of sandy areas near wetlands as these areas would be considered candidate turtle nesting habitat (NBS Report - Table 5 [Appendix D]). Considering no further surveys will be conducted to confirm turtle nesting habitat, HONI is committed to using a precautionary approach to impact mitigations and will include these areas as candidate turtle nesting habitat and will provide appropriate avoidance, protection and mitigation measures accordingly.</p> <p>These areas will be identified in the EMP and will use the precautionary approach to avoid, protect and mitigate where possible.</p>	Acknowledged	Addressed	Acknowledged	Addressed
16. Draft ESR, Section 4.6.6.9, Specialized Habitat for Wildlife (p. 4-31), Appendix D,	<p>Within section 4.6.6.9, HONI states that “no specific observations of amphibians were recorded” (p. 4-31). While within Appendix D, HONI states that “spring peepers (Pseudacris</p>	<p>HONI must update this section of the ESR to include the data collected regarding amphibian observations within wetlands in the PSA.</p>	<p>Correction – Specialized Habitat for Wildlife is shown in Section 4.6.6.12, not 4.6.6.9.</p> <p>Added the following to Section 4.6.6.12 based on TTN comment</p>	Acknowledged	Addressed	Acknowledged	Addressed

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<p>A8K/A9K Transmission Line Refurbishment Project Iroquois Falls to Kirkland Lake: 2021 Field Surveys Summary, Section 3.3.3, Specialized Habitat for Wildlife (p. 21-22)</p>	<p>crucifer), American toads (<i>Anaxyrus americanus</i>), and/or mink frogs (<i>Lithobates septentrionalis</i>) were heard at most wetlands that were surveyed..." (p. 21-22). This contradiction by HONI is concerning as it appears that they did not adequately assess the data they collected during field surveys when drafting the content of this draft ESR.</p>		<p>and further review of NBS report:</p> <p>Spring peepers (<i>Pseudacris crucifer</i>), American toads (<i>Anaxyrus americanus</i>), and/or mink frogs (<i>Lithobates septentrionalis</i>) were heard at most wetlands that were surveyed (NBS Report Appendix 5, Appendix 8 [Appendix D]); some may be candidate SWH for wetland amphibian breeding habitat (NBS Report - Figure 14 [Appendix D]).</p> <p>Removed reference to 'no specific observations of amphibians were recorded'.</p>				
<p>17. . Draft ESR, Section 4.6.6.13, Habitat for Species of Conservation Concern (p. 4-31)</p>	<p>Under section 4.6.6.13, regarding protection of habitat for species of conservation concern HONI states that "habitats containing the locations of the SCC birds listed above will be considered as Candidate SWH" (p. 4-31). HONI does not state whether appropriate habitat for species of conservation concern where no individuals were seen during the limited breeding bird surveys will be considered as Candidate SWH or at the minimum receive the same protections and mitigations as Candidate SWH. This is concerning to TTN as the lateness of the breeding bird surveys and the lack of multi-year baseline studies means that species of conservation concern present within the landscape may have been missed. These species represent a valued and important part of the natural environment, which TTN community members rely upon to practice their rights and</p>	<p>HONI must commit to using the precautionary principle by providing all appropriate habitat for species of conservation concern (whether an individual was seen during the limited breeding bird surveys or not) with the same avoidance, protections and mitigation measures as Candidate SWH.</p>	<p>Added the following text to Section 4.6.6.13:</p> <p>Considering that the field program consisted of single site surveys rather than multi-day or multi-year surveys to confirm breeding behaviour, HONI is committed to using the precautionary principle by providing all appropriate habitat for species of conservation concern (whether an individual was seen during the limited breeding bird surveys or not) with the same avoidance, protections and mitigation measures as candidate SWH.</p>	<p>Acknowledged</p>	<p>Addressed</p>	<p>Acknowledged</p>	<p>Addressed</p>

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	interests						
18. Draft ESR, Section 7.6.6., Natural Heritage Features (p. 7-16)	<p>Within section 7.6.6, HONI states that “Temporary laydown areas will be constructed, and these areas will be restored following removal of the laydown areas post-construction.” (p. 7-16). HONI does not state whether a Project-specific restoration plan will be developed to guide all restoration activities on both municipal and non-municipal lands.</p> <p>This is concerning to TTN as a Project-specific restoration plan is an important document to ensure that restoration objectives are met, activities are effective, plant species are appropriate, ecosystem function is replicated effectively, and monitoring is appropriately scoped to confirm restoration objectives have been achieved.</p>	<p>HONI must commit to developing a Project-specific restoration plan and consulting with TTN during the development of this plan and providing a draft for our review and comment. TTN expects at a minimum that this Project-specific restoration plan will include:</p> <ul style="list-style-type: none"> • Restoration objectives • List of plant species to be used during restoration • Activities/measures that will be used during restoration (e.g., plant saplings, hand seeding, contouring, providing coarse woody debris) • Planned monitoring activities/schedule to confirm effectiveness of restoration activities • Adaptive management strategy and thresholds for the use of adaptive management 	<p>Hydro One has committed to undertaking a Biodiversity Initiative to compensate for habitat loss that cannot otherwise be avoided. This wording has also been added to Section 7.6.6. to reflect this commitment and is included in Table 3-1.</p>	<p>HONI commits to working with TTN on developing a project-specific restoration plan. This commitment will also be outlined in Table 3-1.</p>	Addressed	Acknowledged	Addressed
19. Draft ESR, Section 7.6.6.1, Wetlands (p. 7-17)	<p>With regards to impacts to wetlands, HONI states that “Hydro One will undertake a Biodiversity Initiative to offset habitat loss that cannot otherwise be avoided or mitigated” (p. 7-17). HONI does not provide details of what this Biodiversity Initiative will entail, nor do they provide details of consultation or engagement with TTN on the initiative.</p> <p>This is concerning to TTN as wetlands are important areas as they provide habitat for important wildlife (e.g., moose, waterfowl) and adverse impacts to these locations have the potential to adversely impacts the rights and interests of TTN community members.</p>	<p>A. TTN requests that HONI provide details and relevant mapping of the specific wetland locations and areas of these wetlands that are anticipated to be impacted.</p> <p>B. HONI must provide details of what the Biodiversity Initiative will entail. TTN expects that at a minimum this will include:</p> <ul style="list-style-type: none"> • Creating new wetland habitat within the local landscape to offset the loss of existing wetlands • Ensuring that created wetland habitat includes features and functions that benefit SAR and species of conservation concern (e.g., Blanding’s Turtle, Olive-sided Flycatcher) • Habitat offsets will be provided at a ratio of 2:1 • Monitoring of offset habitat to confirm it provides the require 	<p>A. Added the following to Section 7.6.6.1:</p> <p>As proposed work associated with Alternative 1 does not require widening of the ROW and re-uses existing hydro poles/steel lattices structures that are in good condition, impacts to wetlands are anticipated to be minimal. No impacts to wetlands outside of the existing ROW are expected. Furthermore, should pole or steel lattices require replacement or repair/refurbishment, the footprints are anticipated to be in close proximity to existing structures and generally within pre-disturbed areas.</p>	<p>A. HONI commits to providing mapping with specific wetland locations and areas of these wetlands that are anticipated to be impacted. This commitment will be added to the Table 3-1. HONI will follow up with when these maps can be expected.</p> <p>B&C. Acknowledged.</p>	<p>A. Addressed</p> <p>B. Addressed</p> <p>C. Addressed</p>	Acknowledged	<p>A. Addressed</p> <p>B. Addressed</p> <p>C. Addressed</p>

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		<p>ecological features and functions</p> <p>C. HONI must commit to consulting and engaging with TTN on the Biodiversity Initiative. TTN expects that at a minimum this will include consultation on:</p> <ul style="list-style-type: none"> • The specific wetland areas that will be impacted, and the details of the impacts • The proposed area for wetland habitat offsets • The proposed functions provided by and features present within the wetland habitat offsets • The methods used to construct the wetland habitat offsets • The monitoring methods used to confirm the effectiveness of the wetland habitat offsets 	<p>B&C. HONI commits to developing a Biodiversity Initiative in collaboration with TNN. This commitment is also outlined in Table 3-1.</p>				
<p>20. Draft ESR, Section 7.6.6.4, Species at Risk (Pp. 7-18 – 7-19)</p>	<p>HONI provides scant details on the location and extent of potential SAR habitat and candidate / confirmed significant wildlife habitat within the PSA. This is concerning to TTN as it makes it difficult to determine the potential nature and extent of impacts to these valuable components of the natural environment.</p>	<p>HONI must provide mapping showing the location of potential SAR habitat and candidate confirmed significant wildlife habitat in relation to proposed Project infrastructure and construction areas (e.g., access roads, areas required to be cleared for equipment, laydowns).</p>	<p>Maps/figures and coordinates for candidate SWH, SAR occurrences, and SCC occurrences are provided in the NBS report. However, they don't show locations in relation to proposed infrastructure areas. They are all shown along the ROW and access points. HONI commits to following up with a detailed SAR map that shows potential SAR habitat and candidate confirmed significant wildlife habitat in relation to proposed Project infrastructure. This commitment is also outlined in Table 3-1.</p>	<p>Acknowledged. HONI will follow up with timelines on when TTN can expect this map</p>	<p>Addressed (pending receipt of the detailed SAR map that shows potential SAR habitat and candidate confirmed significant wildlife habitat in relation to proposed Project infrastructure)</p>	<p>Acknowledged</p>	<p>Addressed</p>
<p>21. Draft ESR, Section 7.6.6.4, Species at Risk (p. 7-18)</p>	<p>HONI states that “Habitat removal during the migratory bird breeding season (April 15 to August 31 in nesting zone C4/5: ECCC, 2018) and the bat active period (May 1 to September 30) would be avoided to the extent feasible. With respect to birds, a non-intrusive nest survey would be undertaken by a qualified individual if habitat removal is</p>	<p>A. HONI must include a commitment to complete nest sweeps a maximum 24 hours in advance of commencing activities that involve clearing vegetation during the restricted timing window (April 15 to August 31). B. HONI must include the following details outlining the methods employed for these bat maternity roost habitat inspections: if a tree is</p>	<p>Included the following wording in Section 7.6.6.4:</p> <p>A. HONI is committed to completing a non-intrusive nest survey/sweep by a qualified individual a maximum of 24 hours in advance of vegetation removal if clearing is required during the restricted timing window of April 15 to August 31.</p>	<p>A. Acknowledged B. Acknowledged</p>	<p>A. Addressed B. Addressed</p>	<p>Acknowledged</p>	<p>Addressed</p>

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	<p>required during the April 15 to August 31 period” (p. 7-18). HONI does not identify the timeframe under which nest surveys will be conducted, meaning that possible adverse impacts to SAR birds are possible.</p> <p>As well, HONI does not provide a description of surveys that will be conducted for SAR bats. TTN is concerned by these gaps in mitigation measures as it means that adverse impacts to both SAR birds and SAR bats are possible under the current draft ESR.</p>	<p>identified as suitable for bat maternity roosting and the tree must be felled during the bat active season, then “bat exit surveys” will be performed by a qualified environmental professional. The environmental professional will observe the tree for 90 minutes at sunset (and during appropriate weather conditions) for two nights in June. The survey will involve both a visual (to witness bats emerging from the tree cavities) and ultrasonic acoustic (to identify the bats to species) assessment of the potential roost habitat.</p>	<p>B. If a tree is identified as suitable for bat maternity roosting and the tree must be felled during the bat active season (May 1 to September 30), then “bat exit surveys” will be performed by a qualified environmental professional. The environmental professional will observe the tree for 90 minutes at sunset (and during appropriate weather conditions) for two nights in June. The survey will involve both a visual (to witness bats emerging from the tree cavities) and ultrasonic acoustic (to identify the bats to species) assessment of the potential roost habitat.</p>				
<p>22. Draft ESR, Section 7.6.6.4, Species at Risk (p. 7-19)</p>	<p>Regarding significant wildlife habitat/wildlife habitat HONI states that “During project construction activities, the following would be taken into consideration as a mechanism to avoid and/or mitigate impacts to wildlife habitat:</p> <ul style="list-style-type: none"> • Retention of snags and cavity trees with potential to support bats where feasible. • Tree/vegetation clearing will be avoided during the breeding bird and bat active period, where possible. • General avoidance of wildlife habitats, where practical; • Exclusionary fencing (i.e. silt fencing to serve as dual purpose) where necessary; • Promotion of wildlife habitat through vegetation control; • Retention of natural vegetation, where possible; • Use of native plant species where seeding or planting is 	<p>A. HONI must action the following changes (additions/changes shown in bold) to ensure that impacts to significant wildlife habitat will be avoided and mitigated:</p> <p>During project construction activities, the following mechanisms will be used to avoid and/or mitigate impacts to wildlife habitat:</p> <ul style="list-style-type: none"> • During the detailed design phase of candidate/confirmed significant wildlife habitat should be identified and avoided through micro siting Project activities (equipment locations) and infrastructure (e.g., laydowns, access roads) to avoid these areas • Where it is not possible to avoid candidate/confirmed significant wildlife habitat, these areas must be restored to baseline conditions or better following construction activities or compensated for through enhancements of the local landscape 	<p>A. Added the following measures to Section 7.6.6.4:</p> <ul style="list-style-type: none"> • During the detailed design phase, candidate/confirmed significant wildlife habitat should be identified and avoided through micro siting Project activities (equipment locations) and infrastructure (e.g., laydowns, access roads) to avoid these areas. • Where it is not possible to avoid candidate/confirmed significant wildlife habitat, these areas must be restored to baseline conditions or better following 	<p>A. Acknowledged</p> <p>B. Acknowledged</p>	<p>A. Addressed</p> <p>B. Addressed</p>	<p>Acknowledged</p>	<p>Addressed</p>

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	<p>completed.” (p. 7-19). HONI uses non-committal language here, provides limited potential mechanisms to avoid or mitigate potential impacts to significant wildlife habitat/wildlife habitat and does not provide mechanisms to consult with TTN on relevant avoidance/mitigation mechanisms</p> <p>This is concerning to TTN as it is unclear what if any avoidance and mitigation measures will actually be used on the ground and the limited scope of these measures means that potential adverse impacts to significant wildlife habitat could occur.</p>	<ul style="list-style-type: none"> Retention of snags and cavity trees with potential to support bats, unless the snags pose a risk to human safety or interfere/pose a risk to the transmission line Where snags and cavity trees with potential to support bats cannot be retained, bat rocket boxes will be established following construction activities to provide similar roosting habitat <p>Tree/vegetation clearing will be avoided during the breeding bird and bat active period, where possible</p> <p>Where tree/vegetation clearing cannot be avoided during the breeding bird and bat active period, a nest sweep will be undertaken by a qualified professional a maximum 24 hours in advance of commencing activities that involve clearing vegetation, and a bat maternity roost habitat inspections will be undertaken by a qualified professional for two nights in June.</p> <ul style="list-style-type: none"> Exclusionary fencing (i.e., silt fencing to serve as dual purpose) where Project activities are adjacent to habitats that have the potential to contain amphibians or reptiles <p>Exclusion fencing once installed must be inspected regularly to ensure that no holes or other defects are present that could impact its effectiveness as a barrier</p> <ul style="list-style-type: none"> Retention of natural vegetation, where possible; Where retention of natural vegetation is not possible the area must be restored following Project activities to baseline conditions or better following construction activities Use of native plant species present within the local landscape 	<p>construction activities or compensated for through enhancements of the local landscape.</p> <ul style="list-style-type: none"> Retention of snags and cavity trees with potential to support bats, unless the snags pose a risk to human safety or interfere/pose a risk to the transmission line. Where snags and cavity trees with potential to support bats cannot be retained, bat rocket boxes will be established following construction activities to provide similar roosting habitat. Exclusionary fencing (i.e., silt fencing to serve as dual purpose) where Project activities are adjacent to habitats that have the potential to contain amphibians or reptiles. Exclusion fencing once installed must be inspected regularly to ensure that no holes or other defects are present that could impact its effectiveness as a barrier. Where retention of natural vegetation is not possible the area must be restored following Project activities to 				
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		<p>where seeding or planting is completed</p> <p>B. HONI must commit to consulting with TTN on the proposed list of plant species that will be used during restoration activities. TTN expects that this list will include plant species present within the local landscape (e.g., red maple), and plant species of conservation concern (e.g., black ash).</p>	<p>baseline conditions or better following construction activities.</p> <ul style="list-style-type: none"> • Use of native plant species present within the local landscape where seeding or planting is completed. <p>B. HONI commits to consulting with TTN on the list of plant species that will be used during restoration activities. This commitment is also outlined in Table 3-1.</p>				
23. Draft ESR, Section 7.6.6.5, Invasive Species (p. 7-20)	<p>Within section 7.6.6.5, HONI identifies measures that would be undertaken to reduce the potential spread of invasive species through Project activities. HONI does not state whether they will be adhering to the Clean Equipment Protocol for Industry (Halloran et al., 2013). This is concerning to TTN as the Clean Equipment Protocol for Industry provides a comprehensive protocol to prevent the spread of invasive species via vehicles and equipment and is an industry standard document.</p>	<p>HONI must commit to adhering to the Clean Equipment Protocol for Industry (Halloran et al., 2013) to prevent the spread of invasive species via equipment and vehicles used as part of project activities</p>	<p>Commitment to follow the Clean equipment protocol for industry was added to Section 7.6.6.5. The commitment is also outlined in Table 3-1.</p>	Acknowledged	Addressed	Acknowledged	Addressed
24. Draft ESR, Section 7.6.6.5, Invasive Species (p. 7-20)	<p>Within section 7.6.6.5, HONI identifies measures that would be undertaken to reduce the potential spread of invasive species through Project activities. HONI does not state whether a Project-specific Invasive Species Management Plan will be developed. This is concerning to TTN as a Project-specific Invasive Species Management Plan is an important part of ensuring that protocols and mechanisms for</p>	<p>A. HONI must commit to producing a Project-specific Invasive Species Management Plan, which outlines all measures and protocols that will be adhered to during Project activities. TTN requests that HONI commits to the use of only mechanical methods for invasive species control in the ROW throughout the construction and operations periods, unless for emergency reasons. If the latter, HONI must commit to notifying and providing justification for use of</p>	<p>Commitment to create a project specific Invasive Species Management Plan has been added to Section 7.6.6.5 of the ESR. The commitment is also outlined in Table 3-1.</p>	<p>HONI commits to having further discussions regarding the use of herbicide. HONI will update the commitment in the commitment table to include review of the plan by TTN. This plan can be discussed during EMP workshop reviews.</p>	<p>A. Partially Addressed</p> <p>TTN acknowledges that HONI has committed to creating a project specific Invasive Species Management Plan and that this will be shared with us for our review and comment.</p> <p>TTN maintains that HONI should avoid the use of herbicides for vegetation management during both</p>	<p>A. HONI commits to avoiding the use of herbicides for vegetation maintenance during the construction phase of the Project. HONI commits to consulting with TTN and providing justification for the use of herbicides if required for future maintenance</p>	<p>A. Partially Addressed</p> <p>See response to Comment / Recommendation 3 D) above.</p> <p>B. Addressed</p>

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	the control of invasive species are actioned consistently and appropriately during all Project activities	non-mechanical methods on a case-by-case basis, including why it is considered an emergency need to do so. B. HONI must commit to providing this document to TTN for our review and comment.			the construction and maintenance phase of the Project. TTN is very concerned by any use of herbicides for Project activities as this could have adverse impacts to the traditional land use practices of our community (e.g. plant gathering , fishing) and our rights and interests	activities. B. Acknowledged	
25. Draft ESR, Table 7-1, Summary of Potential Effects, Mitigation Measures and Net Effects (p. 7-31)	Within Table 7-1, HONI states that “if avoidance of SAR and/or SAR habitat is not possible, MECP and/or DFO will be consulted to mitigate the impact of the activities and/or assess the need for permitting/approvals under the ESA, SARA or the Fisheries Act” (p. 7-31). HONI does not commit to consulting with TTN regarding impacts to SAR habitat that cannot be avoided. This is concerning to TTN as SAR and the habitat they rely upon play in important and valued role in the natural environment, which TTN community members rely upon to practice their rights and interests.	HONI must commit to consulting and engaging with both TTN, MECP and/or DFO regarding impacts to SAR and SAR habitat that cannot be avoided and permitting/approvals. At a minimum TTN expects that this consultation and engagement will include: <ul style="list-style-type: none"> • Details of potential impacts to SAR • Details of the potential area of SAR habitat (e.g., 10 m2 of potential SAR bat habitat) that will be impacted as part of the Project • Nature of these impacts (e.g., complete removal of habitat, potential removal of specific vegetation that poses a risk to human health of interferes with the transmission line) • Details of potential SAR habitat enhancements and habitat compensation (at a 2:1 ratio) that will be undertaken to offset these impacts 	Hydro One commits to consulting and engaging with both TTN, MECP and/or DFO regarding impacts to SAR and SAR habitat that cannot be avoided and permitting/approvals. This consultation and engagement will include: <ul style="list-style-type: none"> • Details of potential impacts to SAR • Details of the potential area of SAR habitat (e.g., 10 m2 of potential SAR bat habitat) that will be impacted as part of the Project • Nature of these impacts (e.g., complete removal of habitat, potential removal of specific vegetation that poses a risk to human health of interferes with the transmission line) • Details of potential SAR habitat enhancements and habitat compensation (at a 2:1 ratio) that will be undertaken to offset these impacts <p>This commitment is also included in Table 3-1.</p>	Acknowledged	Addressed	Acknowledged	Addressed
26. Draft ESR, Table 7-1, Summary of Potential	Within Table 7-1, HONI states that “Snags (dead standing trees) and cavity trees with the	TTN requests that should snags and cavity trees require removal that they are compensated for with	Compensation for snag removals has been included in the form of bat rocket boxes. Commitment	Acknowledged	Partially Addressed TTN requests that this	Hydro One will update this commitment to	Addressed

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Effects, Mitigation Measures and Net Effects (p. 7-31)	potential to provide SAR habitat that do not pose a risk to the operation of the transmission line will be identified and retained to the extent practical;" (p. 7-31). HONI does not outline measures to compensate for the loss of these important SAR habitat features, if they require removal. This is concerning to TTN as the loss of these SAR habitat features could degrade the quality of the habitat and impact their local presence.	habitat enhancements (e.g., bat rocket boxes) to allow for their important function to be restored to the local area.	has been added in Section 7.6.6.4 of the ESR and Table 7-1. The commitment is also included in Table 3-1.		commitment be updated to include compensation for snag and cavity tree removals has been included in the form of bat rocket boxes.	include snag and cavity tree removals.	
27. Draft ESR, Table 7-1, Summary of Potential Effects, Mitigation Measures and Net Effects (p. 7-31)	Within table 7-1, HONI states that if SAR are harmed or killed as a result of Project activities or SAR are observed that MECP will be notified. HONI does not note whether TTN will also be notified in these instances.	TTN requests that HONI notify our Lands and Resources Department (lands@taykwatagamou.com) when SAR are harmed or killed as a result of Project activities or SAR are observed. TTN assumes that these notifications will include endangered, threatened and special concern species.	HONI commits to notifying the Lands and Resources Department when SAR are harmed or killed as a result of Project activities. This commitment will be included in Table 3-1.	Acknowledged	Partially Addressed TTN requests that this commitment be updated to include notifying our Lands and Resources Department when SAR are observed , harmed or killed as a result of Project activities.	Hydro One will update this commitment to include notifying the Lands and Resources Department when SAR are observed, harmed or killed as a result of Project activities.	Addressed
Land Use and Occupancy Features							
28. General Comment	A preliminary review of TTN's Traditional Knowledge data, which was collected to inform potential impacts of the project on our treaty rights and interests, indicates that there are several land use and occupancy features within 1-5 km of the ROW. These features represent areas where TTN community members hunt, fish, forage and gather plants, and overnight. Specifically, land use and occupancy features within 1 km of the ROW are located near Val Gagné, Matheson, southwest of Ramore, and west of Kirkland Lake. Land use and occupancy features within 5 km of the ROW are more widely distributed	It is TTN's expectation that HONI will work with our community to develop measures to avoid any impact to land use and occupancy features identified through the completion of our TKLUS. As an example, TTN expects HONI to avoid undertaking construction activities in areas used for hunting during the time of year that our community members typically harvest in these areas.	HONI commits to working with TTN to develop measures to avoid impact to land use and occupancy features identified through the completion of the TKLUS, where reasonably possible. This commitment is also outlined in Table 3-1.	TTN/SVS will discuss whether to include this during EMP workshops or discuss at separate meetings. TTN/SVS will also follow up with timelines.	Addressed (pending scheduling and conducting a workshop on the Environmental Management Plan that includes discussions to develop measures to avoid impact to land use and occupancy features from the TKLUS)	Acknowledged	Addressed (pending scheduling and conducting a workshop on the Environmental Management Plan that includes discussions to develop measures to avoid impact to land use and occupancy features from the TKLUS)

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	throughout the Project area. In addition, the ROW intersects a hunting area used by our community. Any impacts, perceived or otherwise, to these land use and occupancy features are unacceptable to TTN. We also note that this information is based on a preliminary review of the Traditional Knowledge and Land Use Study (TKLUS) data, and that additional land use and occupancy features, and required avoidances, may be identified upon completion of the Study.						
Archaeology and Culture Heritage							
29. Draft ESR, Figure 1-1, Project Location Map (p. 1-3)	HONI's Figure 1-1, does not map does not include a scale bar, which means that distances cannot be measured.	HONI must update Figure 1-1 to include a scale bar.	Figure 1-1 will be updated to include a scale bar.	Acknowledged	Addressed	Acknowledged	Addressed
30. Draft ESR, Section 1.2, Description of the Undertaking (p. 1-4)	HONI states that "the majority of work for the proposed Project will involve the replacement and/or modification of a number of aging/damaged wood poles along with some steel lattice structures, and the replacement of sections of the conductor that do not meet ampacity upgrade and sections of shield wire along the existing ROW." (p. 1-4). HONI does not provide details of where these development footprints located, what area (in hectares) will be impacted by the refurbishments, or what Project components these impacted areas include (e.g., stream crossings, drainage, lay down areas, or improvements to corridor access routes). This is concerning as these impacted areas could have impacts on potential archaeological features.	HONI should provide maps showing the construction footprints along the transmission line, as well as any construction associated with entrance roads, and road improvements, and other Project components.	HONI will follow up to provide maps showing the construction footprints along the transmission line, as well as any other project components. This commitment is also outlined in Table 3-1.	Acknowledged	Addressed	Acknowledged	Addressed

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<p>31. Draft ESR, Table 1-1, Potentially Required Permits, Licences and Approvals (p. 1-10)</p>	<p>Within Table 1-1, HONI notes that road entrance permits may be “Required for new permanent and temporary entrances onto any provincial Highway corridor.” (p. 1-10). This is concerning as any new construction in this regard should include stage 1 Archaeology Assessment (AA) and 2 AA if needed.</p>	<p>HONI should include within Table 1-1 that Stage 1 AA property inspection, and Stage 2 AA if needed, should precede any new ground-altering activities associated with the refurbishment, including road entrances, drainage improvements, stream crossings, and lay down areas</p>	<p>Table 1-1 does identify that archaeology acceptance is required prior to new ground disturbance in areas with archaeological potential.</p>		<p>Not addressed. Presumably HONI is referring to receipt of MHSTCI review and acceptance letter already received for the Stage 1 AA, and is expecting one for the recently completed Stage 2 AA. But the TTN recommendation refers to the need for <i>further</i> Stage 1&2 AAs at road entrances improvements, and any drainage improvements, stream crossings, and lay down areas where the soil might be altered.</p>	<p>Hydro One commits to performing additional Stage 1 and 2 AA as required at road entrances improvements, and any drainage improvements, stream crossings, and lay down areas where ground disturbance will be occurring.</p>	<p>Addressed</p>
<p>32. Draft ESR, Section 2, Study Area (p. 1-12)</p>	<p>Within Section 2, HONI did not provide the length of the study area and width of the corridor.</p>	<p>HONI should update the ESR to provide length, width, and area of the study area and transmission corridor.</p>	<p>Section 2 has been updated to reflect the approximate corridor length.</p>		<p>Addressed</p>	<p>Acknowledged</p>	<p>Addressed</p>
<p>33. Draft ESR, Table 3-1, Summary of Key Comments and Concerns from Indigenous Communities (p. 3-18)</p>	<p>Within Table 3-1, the summary question regarding Archaeological Resources states “How will assessment of potential Archaeological resources be conducted for the Project.” (p. 3-18). HONI’s response to this question does not define the purpose of a Stage 1 AA, and appears to confuse the purpose of a Stage 1 AA and Stage 2 AA. HONI’s response to this question should define the four stages of archaeological assessment that may apply to this project.</p>	<p>HONI’s response to this question should be revised to “Stage 1 Archaeological Assessment was conducted for the Preferred Alternative to confirm known archaeological sites and identify features and areas of archaeological potential within the transmission line corridor. If any areas are identified during the Stage 1 Archaeological Assessment as requiring further assessment, a Stage 2 Archaeological Assessment will be conducted for those areas as required, before any construction begins. If artifacts are found during Stage 2, the locations will be recorded as archaeological sites, and analyzed to determine if they have sufficient cultural heritage value or interest (CHVI) to warrant further Stage 3 archaeological assessment. A Stage 3 assessment is a site-specific excavation of 1x1 m units, based on a permanent datum point, to determine the site deposit</p>	<p>Table 3-1 revised to include recommended wording from TTN.</p>		<p>Addressed</p>	<p>Acknowledged</p>	<p>Addressed</p>

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		limits and nature. (Note: even if the Stage 2 AA recommends further Stage 3 work at specific locations, it may recommend partial clearance for construction footprints where no archaeological material was found.) If Stage 3 excavation confirms a site's CHVI, then Stage 4 mitigation will be required. The preferred method of Stage 4 mitigation is perpetual preservation of the site through avoidance; but, if avoidance is not feasible, Stage 4 excavation to remove the archaeological deposit will be necessary. Should archaeological artifacts be encountered during construction, work in the vicinity will cease and a licensed archaeologist will be engaged immediately to ensure compliance with the provincial Heritage Act. Likewise, should any human remains be encountered during construction, work in the vicinity will cease and the police and coroner will be notified immediately, as well as the Registrar of Cemeteries to ensure compliance with the Funeral, Burial and Cremation Services Act."						
34. Draft ESR, Section 4.3.2, Archaeology (p. 4-5)	From the content provided in Section 4.3.2 by HONI, it is not clear when the Stage 1 AA report was submitted to MHSTCI and for how long it would have been available for review as a draft document. HONI states that the Stage 1 AA was completed in June 2018, (yet it is dated July 13, 2018) and "provided to MHSTCI and entered into the Ontario Public Register of Archaeological Reports on June 11, 2021" (p. 4-5). As well, HONI states that "a Stage 2 AA which was completed in September 2021". (p. 4-5).	<p>A. HONI should clarify when the Stage 1 AA report was submitted to the OMHSTCI and whether was it made available for review by TTN before being submitted.</p> <p>B. HONI should clarify that the Stage 2 AA fieldwork has been completed, but not the report itself, and that it will be made available for review by TTN.</p>	<p>A. The Stage 1 AA was submitted to MHSTCI as documented in Section 4.3.2 and by evidence of the acceptance letter provided in Appendix F of the ESR. The Stage 1 AA was submitted to TTN on June 14, 2019, June 25, 2019, July 8, 2019, October 30, 2019, November 19, 2019 for their review, however HONI did not receive any comments at any time.</p> <p>B. Updated Section 4.3.2 of the ESR to reflect the fieldwork associated with the Stage 2 AA investigations and pending</p>	HONI commits to incorporating TTN's suggested revisions to the existing Stage 1 AA report into additional Stage 1&2 AA for the 15 km portion of this project. This commitment is included in Table 3-1.	Addressed	Note: the additional Stage 1&2 AA work that TTN requests in #31, above, can be done at the same time.	Acknowledged	Addressed

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	HONI does not state that just the fieldwork was completed in September 2021, and that the draft report has not been completed.		report.				
35. Draft ESR, Figure 4-5: Quaternary Geology (p. 4-13)	In Figure 4-5, the blue and yellow are both identified in the legend as "Glaciolacustrine Deposits." HONI has not defined the difference between the two categories.	HONI should update the legend in Figure 4-5 should differentiate the two types of glaciolacustrine deposits	Figure 4-5 will be updated to depict the difference in deposit type.		Addressed	Acknowledged	Addressed
36. Draft ESR, Table 7-1, Summary of Potential Effects, Mitigation Measures and Net Effects (p. 7-23)	Within Table 7-1, HONI provides an overview of the Mitigation Measures and Net Effects for Archaeological Resources. The content provided in this table is concerning as over 15 km of the PSA was not subject to Stage 1 AA. Under the Net Effects, HONI states that "investigations will be completed prior to construction, as required." (p. 7-23). This is concerning to TTN as it appears that HONI has not adequately assessed the potential archaeological resources within the PSA.	A. HONI must commit to updating this table to reflect the need for another Stage 1 and Stage 2 AA to address the missing 15 km section of corridor, and accommodations to these recommendations. If this work has been completed, please confirm and provide copies of all relevant reports to TTN. B. HONI must provide in their formal list of commitments the following: HONI commits to undertaking another Stage 1 AA and Stage 2 AA to address the missing 15 km section of the corridor and that these new assessments will include accommodations to the recommendations provided by TTN in the Draft ESR Technical Review.	HONI commits to undertaking a combined Stage 1 and 2 AA for any areas in the additional 15 km section if ground disturbance will be occurring within areas of archaeological potential. This commitment is outlined in Table 3-1.	HONI commits to incorporating TTN's suggested revisions to the existing Stage 1 AA report into additional Stage 1&2 AA for the 15 km portion of this project. This commitment is included in Table 3-1.	Addressed	Acknowledged	Addressed
37. Draft ESR, Appendix F, Stage 1 AA Report, Section 1.4.2 Physiography (p. 14)	Within Section 1.4.2, CAGI claims that "the Circuit A8K/A9K line extends northwards and ends just west of the Town of Val Gagne." (p. 14). This is incorrect, the study area ends at the Ansonville Transformer Station (TS), another 16 km (at least) to the north.	A. HONI must commit to undertaking a new Stage 1 AA. B. If the Stage 2 AA did not cover the study area between Val Gagné and the Ansonville TS, TTN recommends that HONI undertake a combined Stage 1 AA and Stage 2 AA for the entire line as well as any additional areas like laydowns, entrance road, and improvements to road and drainage. This will allow for the following recommendations to be accommodated.	HONI commits to undertaking a combined Stage 1 and 2 AA for any areas in the additional 15 km section if ground disturbance will be occurring within areas of archaeological potential, however the existing Stage 1 AA report for the remainder of the section has been submitted to MHSTCI. MHSTCI provided acceptance of the report in June 2021. Changes are not proposed to the Stage 1 AA at this time.	HONI commits to incorporating TTN's suggested revisions to the existing Stage 1 AA report into additional Stage 1&2 AA for the 15 km portion of this project. This commitment is included in Table 3-1.	Addressed	Acknowledged	Addressed
38. Draft ESR, Appendix F, Stage 1 AA Report, Title	The report title for Central Archaeology Group Inc.'s (CAGI's) Stage 1 AA does not include sufficient	HONI must ensure that all future archaeology report titles list all the lots, concessions, and names of the	Stage 1 AA report has been submitted to MHSTCI. MHSTCI provided acceptance of the report in June 2021. Changes are	HONI commits to incorporating TTN's suggested revisions to the existing Stage 1 AA report	Addressed	Acknowledged	Addressed

Taykwa Tagamou Nation (TTN) Draft ESR Comment Response and Hydro One Commitment Table

<p>Page and Cover Page (PDF pp. 206-207)</p>	<p>geographic location—specifically it does not identify the geographic township names, concessions, and lots. Although it may seem tedious and unwarranted at first glance, the title should provide this information. The reason is the archaeological standards & guidelines require an assessment to consider all previous work that may have taken place both in the current development zone, or within 50 m of it. The Ontario Archaeological Site Database maintained by MHSTCI is not searchable in that respect. As a result, in order to satisfy that standard, archaeological consultants must systematically read the titles of all the archaeological assessment report titles in the Public Register of Archaeological Reports to glean any past history of research in the geographic townships where their proposed development is located. Although CAGI has not missed a standard by omitting this information, it would facilitate future research by providing it. Given that future users of the Public Register of Archaeological Reports will include Indigenous researchers, TTN is concerned that this report title and potentially future report titles will not be sufficiently detailed and thereby impact the ability of TTN community members to query the Public Register of Archaeological Reports and access relevant reports.</p>	<p>geographic townships that are crossed by the transmission line corridor.</p>	<p>not proposed to the Stage 1 AA at this time.</p> <p>However, Hydro One commits to ensuring any future archaeological report titles for the project list all the lots, concessions and names of the geographic townships that are crossed by the transmission line corridor. This commitment is outlined in Table 3-1.</p>	<p>into additional Stage 1&2 AA for the 15 km portion of this project. This commitment is included in Table 3-1.</p>			
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Taykwa Tagamou Nation (TTN) Draft ESR Comment Response and Hydro One Commitment Table

39. Draft ESR, Appendix F, Stage 1 AA Report, Section 1.2, Development Context (p. 1) and Section 2.0, Field Methods (p. 23)	Within the report, CAGI states that “private property was not accessed for this project. Photographs were taken from along each road right-of-way with public property access.” (p. 1). This is concerning as it appears that CAGI may be inadvertently misrepresenting the sufficiency of the property inspection. Additional transparency about methods/limitations would address this	Since the property inspection is optional, and CAGI substituted with the best-possible alternative procedure, the new Stage 1 AA report (if following similar methods) could simply state that a property inspection was not possible and an alternative procedure of “visual inspection” was used.	Stage 1 AA report has been submitted to MHSTCI. MHSTCI provided acceptance of the report in June 2021. Changes are not proposed to the Stage 1 AA at this time.	HONI commits to incorporating TTN’s suggested revisions to the existing Stage 1 AA report into additional Stage 1&2 AA for the 15 km portion of this project. This commitment is included in Table 3-1.	Addressed	Acknowledged	Addressed
40. Draft ESR, Appendix F, Stage 1 AA Report, Section 1.3.1, Historic Documentation (p. 18) and Section 1.2.4 Study Area History, (p. 11)	CAGI appears to have included some erroneous content within Section 1.3.1 and section 1.3.4: “The study area is situated within the GToTe, GToBe and GToM, TD and GToB, GToCo, GToP, GToH, GToBo, GToC and GToT, CD.” (p. 18).	CAGI’s new Stage 1 AA report should correct this erroneous content.	Stage 1 AA report has been submitted to MHSTCI. MHSTCI provided acceptance of the report in June 2021. Changes are not proposed to the Stage 1 AA at this time.	HONI commits to incorporating TTN’s suggested revisions to the existing Stage 1 AA report into additional Stage 1&2 AA for the 15 km portion of this project. This commitment is included in Table 3-1.	Addressed.	Acknowledged	Addressed
41. Draft ESR, Appendix F, Stage 1 AA Report, Section 1.3.3 Post Contact Period (p. 5)	In section 1.3.3, CAGI provides a subtitle “Euro-Canadian Cultural” (p. 5) summary, when in fact Indigenous People too experienced history in this period.	CAGI’s new Stage 1 AA report should have an updated subtitle to eliminate ethnicity.	Stage 1 AA report has been submitted to MHSTCI. MHSTCI provided acceptance of the report in June 2021. Changes are not proposed to the Stage 1 AA at this time.	HONI commits to incorporating TTN’s suggested revisions to the existing Stage 1 AA report into additional Stage 1&2 AA for the 15 km portion of this project. This commitment is included in Table 3-1.	Addressed	Acknowledged	Addressed
42. Draft ESR, Appendix F, Stage 1 AA Report, Section 1.3.3 Post Contact Period (p. 5-10)	Within section 1.3.3, CAGI provides no history of local Indigenous groups. In particular there is no mention of the TTN and other Indigenous groups mentioned in the draft ESR	CAGI’s new Stage 1 AA report should include a fulsome history and description of the TTN, and other Indigenous groups discussed in the draft ESR.	Stage 1 AA report has been submitted to MHSTCI. MHSTCI provided acceptance of the report in June 2021. Changes are not proposed to the Stage 1 AA at this time.	HONI commits to incorporating TTN’s suggested revisions to the existing Stage 1 AA report into additional Stage 1&2 AA for the 15 km portion of this project. This commitment is included in Table 3-1.	Addressed	Acknowledged	Addressed
43. Draft ESR, Appendix F, Stage 1 AA Report, Section 1.4.2	Within Section 1.4.2, CAGI refers to the “discovery of archaeological sites along the edges of ancient shorelines (palaeoshorelines) across North	CAGI’s new Stage 1 AA report should include an update to discuss any relict shorelines of the Tyrell Sea that may cross the study area, which should be part of a fulsome	Stage 1 AA report has been submitted to MHSTCI. MHSTCI provided acceptance of the report in June 2021. Changes are not proposed to the Stage 1 AA	HONI commits to incorporating TTN’s suggested revisions to the existing Stage 1 AA report into additional Stage 1&2	Addressed	Acknowledged	Addressed

Taykwa Tagamou Nation (TTN) Draft ESR Comment Response and Hydro One Commitment Table

<p>Physiography (p. 16)</p>	<p>America” CAGI’s discussion here does not mention if any palaeoshorelines of the Tyrell Sea cross the transmission line.</p>	<p>narrative of Hudson Bay Lowland archaeology.</p>	<p>at this time.</p>	<p>AA for the 15 km portion of this project. This commitment is included in Table 3-1.</p>			
<p>44. Draft ESR, Appendix F, Stage 1 AA Report, Section 1.4.2 Physiography (p. 17), Draft ESR Map 4-4, Bedrock Geology (p. 4-12).</p>	<p>Within Section 1.4.2, CAGI says the study area “is characterized by high, rolling, and often flat-topped hills of Precambrian granite, marble, or gneiss bedrock. The bedrock of this region is composed of carbonate sedimentary formations dating primarily back to the Silurian Period but also to the Ordovician and Devonian Periods” (p. 17). While within the draft ESR, HONI’s Map 4-4 Bedrock Geology does not show any carbonate sedimentary formations of the Silurian, Ordovician, or Devonian Periods. This is concerning as it appears that these two pieces of information contradict one another.</p>	<p>CAGI’s new Stage 1 AA report should correct the information about the bedrock geology of the transmission line in the Stage 1 AA.</p>	<p>Stage 1 AA report has been submitted to MHSTCI. MHSTCI provided acceptance of the report in June 2021. Changes are not proposed to the Stage 1 AA at this time.</p>	<p>HONI commits to incorporating TTN’s suggested revisions to the existing Stage 1 AA report into additional Stage 1&2 AA for the 15 km portion of this project. This commitment is included in Table 3-1.</p>	<p>Addressed.</p>	<p>Acknowledged</p>	<p>Addressed</p>
<p>45. Draft ESR, Appendix F, Stage 1 AA Report, Section 3.1 Archaeological Potential (p. 27)</p>	<p>Within Section 3.1, CAGI states that “as this project is located within Northern Ontario, alternative buffers have been identified by the MTCS and are specifically indicated in Section 2.1.5 of the S&Gs (OMHSTCI, 2011).” (p. 27). This Stage 1 AA uses the “Northern Alternative” methodology, which drastically reduces the area to test for archaeological sites. This method is a choice (the archaeological standards & guidelines says it “may” be used in northern Ontario) not a standard. The northern alternative reduces survey to within 50 m of a modern water source and 150 m from an ancient source, instead of the normal or standard 300 m. This reduction of over 80% is not</p>	<p>A. HONI/CAGI must commit to consulting with TTN and seek our approval on methodologies used in any future archaeological assessments with our Traditional Territory. TTN expects that HONI/CAGI will not undertake any future archaeological assessments that use the “Northern Alternative” methodology within our Traditional Territory. B. HONI must commit to undertaking these consultation activities well in advance (a minimum of 30 days) of planned assessments and include fulsome and detailed information on the proposed methods.</p>	<p>A. HONI will commit to consulting with TTN on methodologies used in any future archaeological assessments. This commitment is outlined in Table 3-1. B. HONI commits to undertaking these consultation activities in advance of planned assessments and provide fulsome and detailed information on the proposed methods. This commitment is outlined in Table 3-1.</p>		<p>Addressed</p>	<p>Acknowledged</p>	<p>Addressed</p>

Taykwa Tagamou Nation (TTN) Draft ESR Comment Response and Hydro One Commitment Table

	<p>based on empirical evidence, nor has it been validated by any Indigenous community, including TTN.</p> <p>TTN is concerned that we were not consulted on the use of the “Northern Alternative” methodology, and the fact that the choice to use this method may mean that archaeological resources of importance to our people may be overlooked</p>						
46. Draft ESR, Appendix F, Stage 1 AA Report, Section 3.1 Archaeological Potential (p. 27) and Section 3.3 Conclusions (p.28)	<p>In the report, CAGI states that the “features of archaeological potential found on or in the vicinity of the Project Area include: water sources (modern and ancient).” (p. 27). CAGI does not identify the features or their location in this section or in section 3.3.</p>	<p>CAGI’s new Stage 1 AA report should identify and locate all instances of ancient water sources in the study area.</p>	<p>Stage 1 AA report has been submitted to MHSTCI. MHSTCI provided acceptance of the report in June 2021. Changes are not proposed to the Stage 1 AA at this time.</p>	<p>HONI commits to incorporating TTN’s suggested revisions to the existing Stage 1 AA report into additional Stage 1&2 AA for the 15 km portion of this project. This commitment is included in Table 3-1.</p>	Addressed	Acknowledged	Addressed
47. Draft ESR, Appendix F, Stage 1 AA Report, Section 4.0, Recommendations (p. 30)	<p>CAGI’s fourth recommendation states that “should construction activities associated with this development extend beyond those areas assessed during this project, further archaeological investigation will be required.” (p. 30).</p>	<p>A. HONI should undertake a new Stage 1 AA and it should cover the entire study area so that the recommendations noted above can be accommodated. B. HONI must provide a draft version of the new Stage 1 AA report to TTN for review and comment prior to submission to MHSTCI. C. HONI should confirm whether the Stage 2 AA did not cover the Val Gagné to Ansonville TS section of the project, and if not, the new study should be a combined Stage 1 and Stage 2 AA</p>	<p>Stage 1 AA report has been submitted to MHSTCI. MHSTCI provided acceptance of the report in June 2021. Changes are not proposed to the Stage 1 AA at this time.</p>	<p>HONI commits to incorporating TTN’s suggested revisions to the existing Stage 1 AA report into additional Stage 1&2 AA for the 15 km portion of this project. This commitment is included in Table 3-1.</p>	Addressed	Acknowledged	Addressed
48. Draft ESR, Appendix F, Stage 1 AA Report, Map 2, First Nations and Treaties (p. 50)	<p>CAGI’s Map 2 is scaled too small, the legend and labels are illegible and TTN is not identified here.</p>	<p>CAGI new Stage 1 AA report should update the legends and labels of maps used in the report so that they are legible and TTN should be included on this map</p>	<p>Stage 1 AA report has been submitted to MHSTCI. MHSTCI provided acceptance of the report in June 2021. Changes are not proposed to the Stage 1 AA at this time.</p>	<p>HONI commits to incorporating TTN’s suggested revisions to the existing Stage 1 AA report into additional Stage 1&2 AA for the 15 km portion of this project. This commitment is included in Table 3-1.</p>	Addressed	Acknowledged	Addressed

Taykwa Tagamou Nation (TTN) Draft ESR Comment Response and Hydro One Commitment Table

49. Draft ESR, Appendix F, Stage 1 AA Report, Map 4, Limits of the Tyrell Sea (p. 52)	CAGI's Map 4 does not include the PSA.	CAGI new Stage 1 AA report should include the location of the PSA on map 4.	Stage 1 AA report has been submitted to MHSTCI. MHSTCI provided acceptance of the report in June 2021. Changes are not proposed to the Stage 1 AA at this time.	HONI commits to incorporating TTN's suggested revisions to the existing Stage 1 AA report into additional Stage 1&2 AA for the 15 km portion of this project. This commitment is included in Table 3-1.	Addressed	Acknowledged	Addressed
50. Draft ESR, Appendix F, Stage 1 AA Report, Map 11-23, Site Conditions (pp. 59-71)	CAGI's Maps 11-23 are almost identical to plans of the project area, with the exception of photograph location/direction markers.	CAGI's new Stage 1 AA report should present more information on one set of maps to prevent duplication.	Stage 1 AA report has been submitted to MHSTCI. MHSTCI provided acceptance of the report in June 2021. Changes are not proposed to the Stage 1 AA at this time.	HONI commits to incorporating TTN's suggested revisions to the existing Stage 1 AA report into additional Stage 1&2 AA for the 15 km portion of this project. This commitment is included in Table 3-1.	Addressed	Acknowledged	Addressed
51. Draft ESR, Appendix F, Stage 1 AA Report, Map 24-36, Archaeological Potential (pp. 72-84)	CAGI's Maps 24-36, indicate areas of archaeological potential and low archaeological potential even though there has been no property inspection. This error should have been addressed by MHSTCI before accepting the Stage 1 AA report. Specifically, MHSTCI should have instructed CAGI to give the entire corridor a "blanket" estimate of archaeological potential, that a Stage 2 AA be conducted for the entire route and that this would be preceded by a property inspection.	CAGI undertake a new Stage 1 AA as per previous recommendations and that this include a property inspection.	Stage 1 AA report has been submitted to MHSTCI. MHSTCI provided acceptance of the report in June 2021. Changes are not proposed to the Stage 1 AA at this time.	HONI commits to incorporating TTN's suggested revisions to the existing Stage 1 AA report into additional Stage 1&2 AA for the 15 km portion of this project. This commitment is included in Table 3-1.	Addressed	Acknowledged	Addressed

Appendix D Iroquois Falls to Kirkland Lake 2021 Field Surveys Summary

A8K/A9K Transmission Line Refurbishment Project Iroquois Falls to Kirkland Lake 2021 Field Surveys Summary



October 7, 2021

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ABSTRACT

Desktop review and field surveys for species at risk (SAR) and significant wildlife habitat were conducted in July 2021 to support the class environmental assessment for the A8K/A9K Transmission Line Refurbishment Project between Iroquois Falls and Kirkland Lake, Ontario. A total of 176 morning point counts, 22 marsh monitoring surveys, and 70 crepuscular/nocturnal surveys were conducted for birds, bats, anurans, and other taxa. In addition, automated recording units were used at 42 locations for 112 deployment-nights to survey bats, crepuscular/nocturnal birds, and anurans. Targeted surveys were also conducted for SAR such as bobolink and swallows, as well as wildlife trees, furbearer dens, and other significant wildlife habitat

Five species of bats were detected at or near the Project including foraging Endangered little brown myotis. No bat hibernacula are known near the Project, but several cavity trees were observed in adjacent areas that could potentially be suitable for roosting bats. No other mammalian SAR were observed nor are anticipated in the Project area. A total of 101 bird species were observed during 2021 fieldwork, including the three Threatened species: eastern whip-poor-will, bobolink, and barn swallow. Significant wildlife habitat observed included habitat for the following provincially and/or federally listed Special Concern species: common nighthawk, Canada warbler, and olive-sided flycatcher. Special Concern bald eagle and monarch were observed during 2021 fieldwork, but no breeding habitat or larval habitat was found so no SWH was identified for these species. Other potentially significant wildlife habitat may also occur near the Project area, such as wetland amphibian breeding habitat, turtle nesting habitat, regionally rare tree communities, and bat maternity roosts.

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1 INTRODUCTION

Hydro One Networks Inc. (HONI) is proposing the A8K/A9K Transmission Line Refurbishment Project (the “Project”). The Project area spans from the Town of Kirkland Lake, Timiskaming District (Unorganized), Cochrane District (Unorganized), to the Township of Black River-Matheson and the Town of Iroquois Falls (Figure 1). The proposed work includes refurbishing the existing 115 Kilovolt (kV) transmission infrastructure on circuits A8K and A9K that run between the Kirkland Lake Transformer Station (TS) and Ansonville TS. The transmission line is nearing its end of life and has been designated for refurbishment. In addition, the Independent Energy System Operator (IESO) requires an ampacity¹ increase on circuits A8K/A9K as it would be cost-beneficial in the long run for the system. If approved, the proposed Project will involve the replacement and/or modification of some aging/damaged wood pole and steel lattice structures, and the replacement of the conductor (wire) along the existing right-of-way (ROW). In addition, the overhead shield² wire will be replaced. It is anticipated that most of this work would be carried out within the existing transmission ROW. Where possible, access to the transmission structures will be achieved using existing access roads and trails. There will be little noticeable difference in the appearance of the transmission line after the Project has been completed.

The Project is subject to the Class EA for Minor Transmission Facilities (Class EA for MTF, 2016) in accordance with the Ontario Environmental Assessment Act. The Class EA for MTF is a streamlined process for planning transmission projects that have a predictable range of environmental effects and feasible mitigation measures that can be applied. HONI has identified potential transmission alternatives for this transmission line refurbishment, which would meet the need for the Project as identified by the IESO. During the Class EA process, these transmission alternatives will be assessed and evaluated on natural environment, socio-economic environment, and technical/cost factors to select the preferred alternative for the undertaking. The transmission alternatives include; (i) building a new 115 kV transmission line parallel to the existing, ii) refurbishment of the existing transmission line, and (iii) not undertaking the refurbishment completely. These alternatives will form the basis for the Class EA study area. Available background data collection is planned to occur within 500 m on each side of the existing transmission line, and field studies are being undertaken within approximately 120 m on each side. Once the Class EA and other approval processes have been successfully completed, construction could commence as early as January 2022 and be completed by Spring 2023.

This report summarizes the methods and preliminary findings of environmental field studies conducted by Northern Bioscience in July 2021 in support of this EA process.

¹ Ampacity refers to the current that a conductor (wire) carries

² Shield wire does not carry electricity and serves to protect the equipment from lightning strikes.

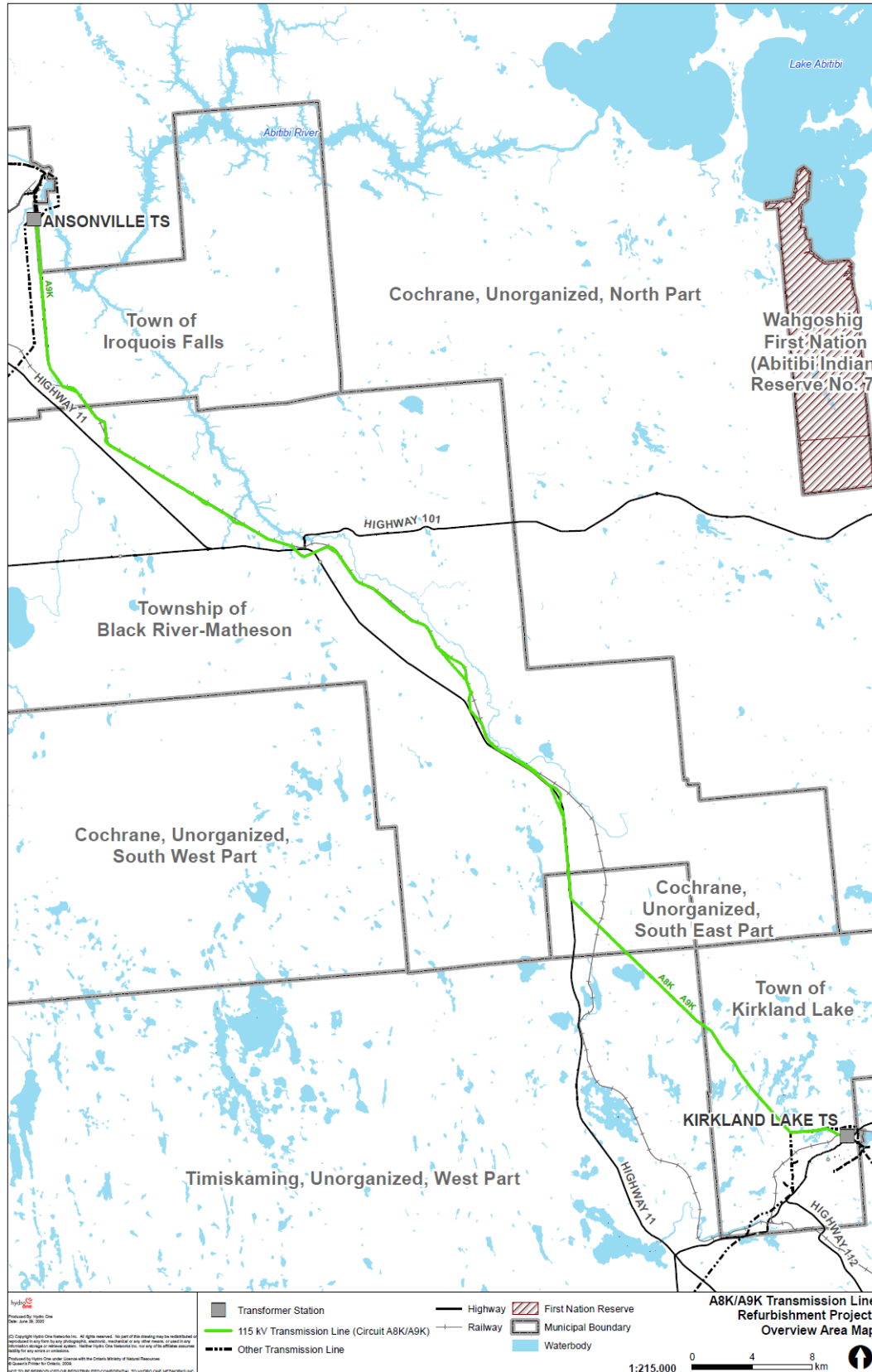


Figure 1. Location of A8K/A9K Transmission Line Refurbishment Project.

2 METHODS

2.1 Desktop Review

An initial review was undertaken by a senior biologist of available reports and information available for valued components along and near (i.e., within 500 m) of the Project ROW and potential access roads and trails. An annotated list of species at risk (SAR) was compiled (Appendix 1) based on the most current available literature and online sources for species distribution and habitat preference including (among others):

- Atlas of Lake Sturgeon Waters in Ontario (Kerr 2002),
- Atlas of the Mammals of Ontario (Dobbyn 1994),
- BugGuide (www.bugguide.net),
- Bumble Bees of North America (Williams et al. 2014),
- Bumble Bee Watch (<https://www.bumblebeewatch.org/>),
- Committee on the Status of Endangered Wildlife (COSEWIC) status reports,
- eBird: An online database of bird distribution and abundance (<https://ebird.org/home>),
- eButterfly: a citizen-based butterfly database in the biological sciences. (<http://www.e-butterfly.org/>),
- forest management plans (i.e., Timiskaming Forest, Abitibi Forest),
- Freshwater Fishes of Ontario (Holm et al. 2009),
- iNaturalist (<https://www.inaturalist.org/>),
- Ontario Breeding Bird Atlas (Cadman et al. 2019),
- Ontario Butterfly Atlas (http://www.ontarioinsects.org/atlas_online.htm),
- Ontario Reptile and Amphibian Atlas (<https://ontarionature.org/programs/citizen-science/reptile-amphibian-atlas/>),
- Natural Heritage Information Centre (<https://www.ontario.ca/page/natural-heritage-information-centre>),
- The Natural History of Canadian Mammals (Naughton 2012),
- NatureServe (<https://www.natureserve.org/>),
- Rare Vascular Plants of Ontario (Oldham and Brinker 2009), and
- Species at Risk in Ontario (SARO) List (<https://www.ontario.ca/page/species-risk-ontario>).

2.2 Field Surveys

Results of the desktop analysis were used to guide 2021 field surveys to maximize survey efficiency during the remainder of the breeding bird season. Surveys were conducted July 2-July 10 by a two-person field crew (L. Spenceley, A. Spenceley), with logistic and survey design support from R. Foster.

2.3 Bats

Eastern small-footed bat, little brown myotis and northern long-eared bats are potentially found along or near the Project ROW. SAR bats could potentially:

- a) hibernate in caves or adits along the transmission corridor (most sensitive);
- b) have maternity or roosting colonies in cavity trees or buildings along the transmission corridor (sensitive); or
- c) forage along the transmission corridor (least sensitive);

A desktop review of the Ministry of Northern Development and Mines³ databases for abandoned mines, adits, or other potential hibernacula was conducted and it was determined that no hibernacula were known along or near the Project ROW.

Concurrent with other fieldwork, field crews documented any potential maternity or roosting colonies observed in naturally-occurring cavity trees near the Project. Visual and/or acoustic surveys were conducted of any human structures along the proposed corridor with high potential to be used as maternity or roosting colonies (e.g., abandoned buildings).

Acoustic surveys of foraging bats were conducted to determine the general distribution and abundance of SAR bat activity in the study area using two methods:

- a) Four Wildlife Acoustics MiniBat ultrasonic autonomous recording units (ARUs) (Figure 2) were deployed at 12 locations in the Project study area (Figure 3) for a total of 28 recorder-nights. Each ARU was programmed to be active from 30 minutes before sunset until 30 minutes after sunrise and was triggered by sounds greater than 16,000 Hz. Bats were identified using the Auto ID feature in Kaleidoscope Pro software (version 5.1.9g) and a subset was confirmed visually.
- b) Handheld Wildlife Acoustics Echo Meter Touch2 ultrasonic bat detectors (Figure 2) were used during point-in-time crepuscular/nocturnal surveys at 70 locations (Figure 4), typically in conjunction with whip-poor-will and other nocturnal bird monitoring (see *2.4.2 Crepuscular/Nocturnal Surveys*).

See Appendix 2 and Appendix 3 for details of ARU deployment and nocturnal surveys, respectively.

³ now known as the Ministry of Northern Development, Mines, Natural Resources and Forestry



Figure 2. Wildlife Acoustics MiniBat autonomous recording unit (left) deployed for ultrasonic surveys of bats and hand-held Echo Meter Touch 2 (right) used for point-in-time surveys.

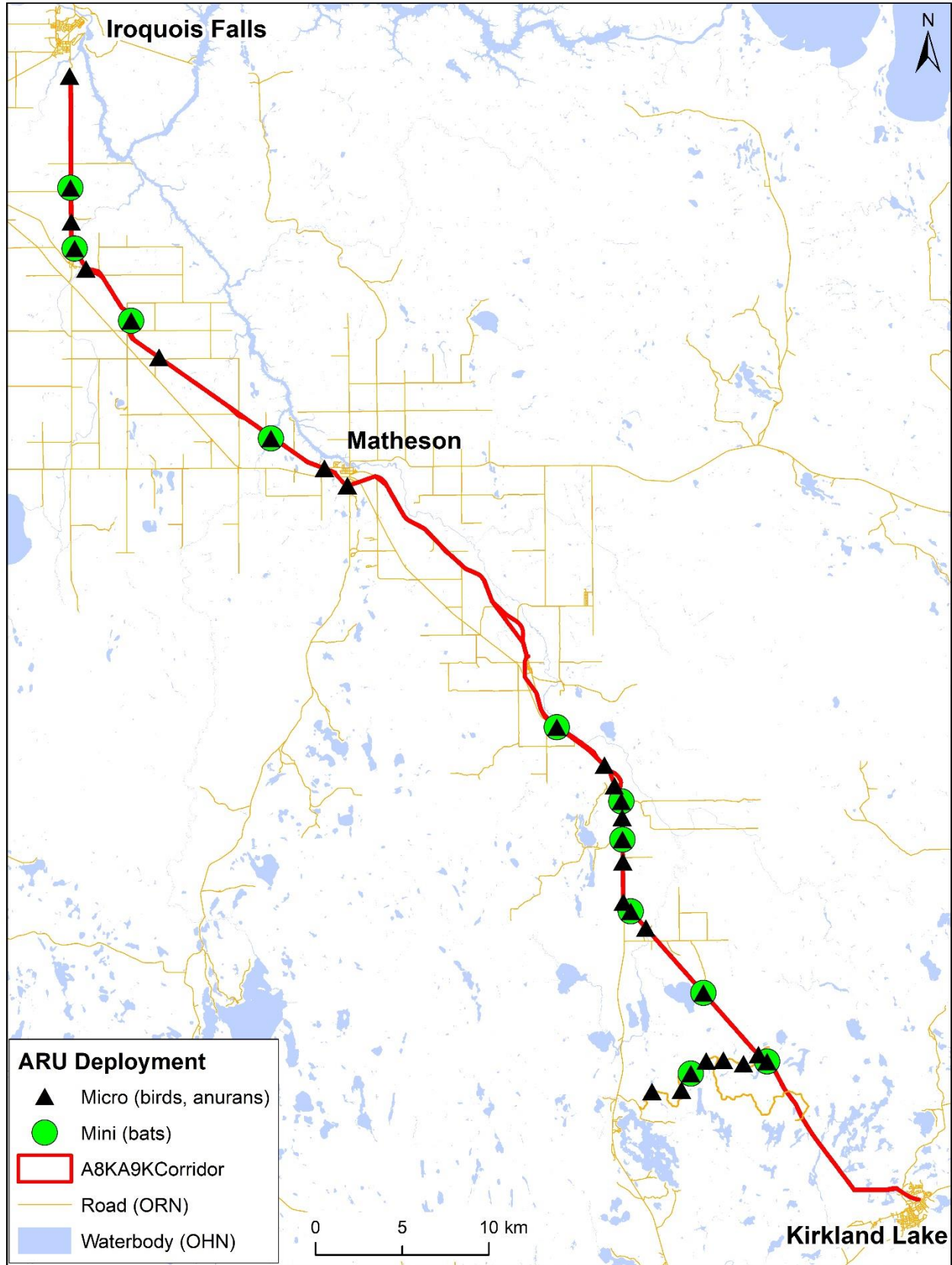


Figure 3. Deployment locations of autonomous recording units, July 2021.

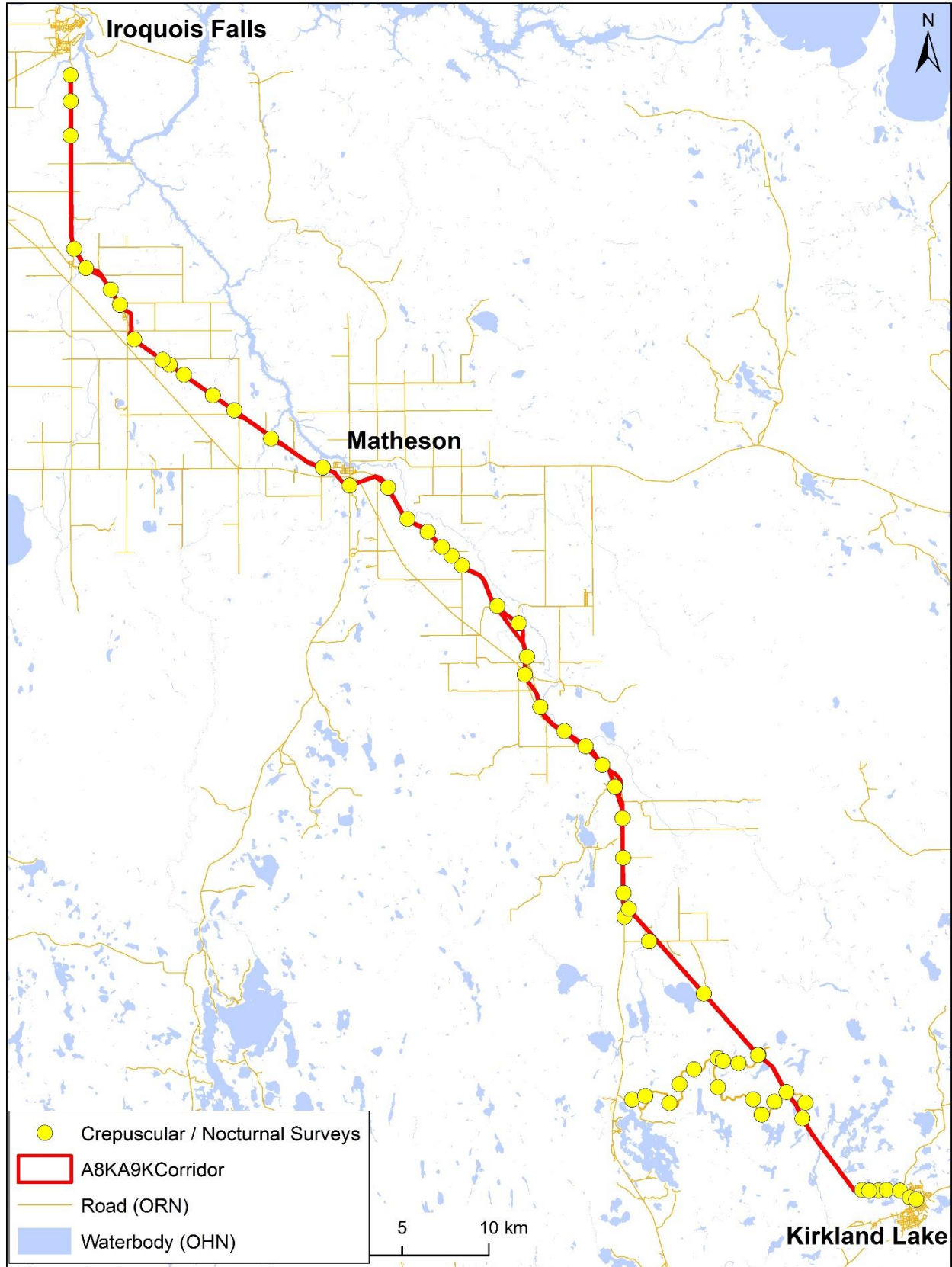


Figure 4. Location of surveys for bats and other crepuscular/nocturnal taxa, July 2021.

2.4 Birds

Bird monitoring focussed on confirming presence/absence of SAR and assessing habitat use by breeding birds. Monitoring will provide baseline information for permitting under the provincial *Endangered Species Act* (if required) and impact assessment with respect to the *Migratory Birds Convention Act*. Bird monitoring included the following: morning point counts, crepuscular/nocturnal surveys, marsh bird surveys, and incidental observations.

2.4.1 Morning Point Counts

Standard early-morning point counts were used to assess the avian community and detect SAR on and along the Project ROW (Appendix 4). These consisted of single visit point count of 5-minute duration during the breeding bird survey window which ended July 10. Single-visit point counts of 5-minute duration were used, consistent with the 2021-2025 Ontario Breeding Bird Atlas protocol (OBBA 2021). This allowed field crew to maximize the number of plots and geographic coverage in what remained of the breeding bird survey window (which ended July 10). Point counts were conducted from just before sunrise to no later than 4 hours after sunrise under good weather conditions (i.e., light or no wind (Beaufort ≤ 4) and little or no precipitation). All birds seen or heard were recorded separately for the following: within 50 m of the observer, at a distance of 50-100m, >100 m away, and flyovers.

Point counts were conducted along the edge of the ROW to capture both breeding birds in the adjacent landscape (forested or otherwise) as well as open habitats in the ROW. Point counts were also conducted along roads and trails that will be used to access the ROW. See Figure 6 for locations of point counts and Appendix 4 for details. Due to time constraints with respect to the breeding bird season, survey locations were prioritized based on the outcome of the desktop review to assess habitats and locations with the greatest potential sensitivity to Project operations e.g., habitats that may potentially harbour SAR such as wetlands, rock barrens, and hayfields (e.g., bobolink). See Appendix 1 for a preliminary list of SAR occurring in the Project area and review/survey methods.

A total of 176 morning point counts were conducted on or immediately adjacent to the Project ROW depending on land tenure and access, as well as health and safety considerations (e.g., traffic). Plot spacing was typically with a spacing of at least 500 m to avoid overlap of birds detected on adjacent plots⁴. Plots were accessed by foot, truck, and/or ATV.

2.4.2 Crepuscular/Nocturnal Surveys

Crepuscular and nocturnal surveys were conducted at selected locations for eastern whip-poor-will, common nighthawk, and crepuscular/ nocturnal marsh birds (Figure 3, Appendix 3).

⁴ The inter-plot distance was greater than some survey protocols due to greater detection distance in the open habitat along the ROW compared to forested habitats, but less than the 1.6 km inter-plot distance used in the Breeding Bird Survey (which is designed for long-term monitoring of population trends rather than impact assessment).

Where practical, crepuscular and nocturnal surveys for eastern whip-poor-will (*Antrostomus vociferus*) and common nighthawk (*Chordeiles minor*) consisted of 5-minute listening and observing periods consistent with the 5-minute survey period used by OMNR's (2013) draft guidelines for eastern whip-poor-will surveys. Where possible, surveys began 30 minutes before sunset to capture the peak in common nighthawk activity as recommended in the Canadian Nightjar Survey Protocol (Knight 2021), with surveys later in the evening (i.e., 30 minutes or more after sunset) targeting eastern whip-poor-will as per OMNR (2013). Although OMNR (2013) uses June 30 as the end of the recommended survey period, the survey period recommended by the national protocol extends until July 15; 2021 surveys for the Project were within this survey window. Survey stops were of variable distance depending on access and health & safety concerns but were at least 500 m apart as recommended by OMNR (2103). Where possible to estimate, the distance and direction to the observed bird were recorded.

In addition to 70 point-in-time surveys (Figure 4), ten Wildlife Acoustic Song Meter Micro ARUs (Figure 5) were used at 30 locations for a total of 80 deployment-nights (Figure 3, Appendix 2). Each unit was programmed to record for a 5-minute interval every 30 minutes beginning from 3 hours before sunset until 3 hours after sunset. Acoustic recordings were analyzed manually by



ear and the use of sonograms in Wildlife Acoustic's Kaleidoscope Pro software program. For acoustic interpretation, at least two 5-minute recordings were analyzed each unit's nightly deployment: one at or near sunset to capture peak common nighthawk calling activity and another at least 1 hour after sunset to capture the peak whip-poor-will calling period. Where necessary (e.g., rain, excessive road noise), additional earlier or later 5-minute survey periods were also interpreted.

Figure 5. Song Meter Micro autonomous recording unit deployed along the transmission right-of-way, July 2021.

2.4.3 Marsh Birds

A total of 22 surveys were conducted for marsh birds (Figure 7, Appendix 5). Surveys for marsh birds generally followed the Marsh Monitoring Program (MMP) protocol (Environment Canada) to the degree practical recognizing the lateness of the season, limitations of a single visit, and differing purpose of the surveys (impact assessment vs. long-term monitoring). Point counts facing accessible marshes along the ROW and access roads were conducted using one-minute passive listening periods followed by playbacks with a portable speaker of the following marsh bird species most likely to be encountered within the Project area and/or SAR i.e., Virginia rail

(*Rallus limicola*), sora (*Porzana carolina*), least bittern (*Ixobrychus exilis*), pied-billed grebe (*Podilymbus podiceps*), and yellow rail (*Coturnicops noveboracensis*). As with the MMP, surveys were conducted within the 4 hours prior to sunset or after sunrise. All marsh birds and amphibians seen or heard during the surveys were recorded, as well as approximate distance from the observer. Marsh birds and amphibians were also surveyed using the Wildlife Acoustic Micro ARUs discussed above.

2.4.4 Targeted SAR Surveys

Targeted surveys were conducted for SAR that may not be adequately surveyed by morning point counts such as bobolink (*Dolichonyx oryzivorus*), bank swallow (*Riparia riparia*), and barn swallow (*Hirundo rustica*).

OMNR's (2011) standard protocol for bobolink recommends 10-minute point counts conducted between dawn and 9:00 am, located at 250 m apart with three separate sets of point count surveys are recommended between the last week of May and the first week of July with each survey separated by a week or more from previous surveys. Due to the lateness of the season, this protocol could not be followed. Instead, 5-minute point counts described in 2.4.1 *Morning Point Counts* were used. Targeted visual and acoustic surveys were also conducted in later morning or afternoon at potentially suitable fields. Given appropriate weather conditions, bobolinks are often active and conspicuous outside OMNR's (2011) recommended early morning survey period (Foster pers. obs.). Where landowner permission had not been secured; surveys were conducted where possible from the nearest public roadway.

Barn swallows often nest on manmade structures and may nest on bridges and even inside large culverts, whereas bank swallows nest in burrows along sandy riverbanks, bluffs, and gravel pits. In conjunction with other fieldwork, these habitats were checked at water crossings along the ROW and along access roads and aggregate pits for the presence of nesting swallows. Fields, barns, and other outbuildings near the ROW were also surveyed with binoculars for foraging and/or nesting swallows.

Targeted surveys were not conducted for other SAR e.g., chimney swift (*Chaetura pelagica*), American white pelican (*Pelecanus erythrorhynchos*) although their presence was to be recorded if observed.

2.4.5 Incidental Observations

Observations of bird species were recorded opportunistically during other fieldwork in 2021 particularly for species that are difficult to detect with point counts or acoustic monitoring (e.g., raptors, waterfowl). Although too late in the season to follow Birds Canada's owl monitoring protocol (which is done in April), any owls observed opportunistically during crepuscular or nocturnal surveys targeting other species were recorded. Owls were also surveyed using Song Meter Micro ARUs discussed above. Breeding evidence codes from the Ontario Breeding Bird Atlas (e.g., Cadman et al. 2007; OBBA 2021) were used.

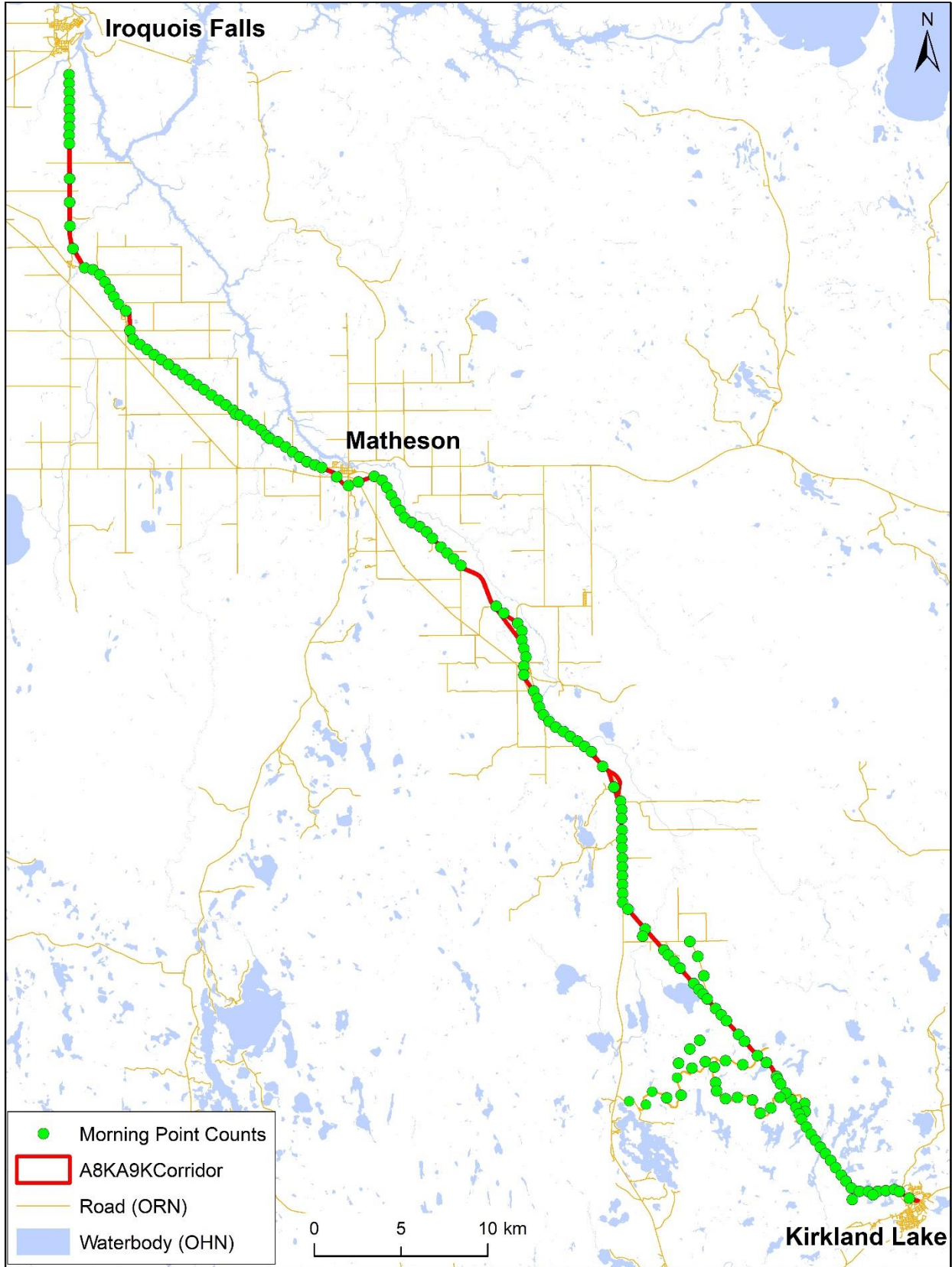


Figure 6. Location of 2021 early morning point counts.

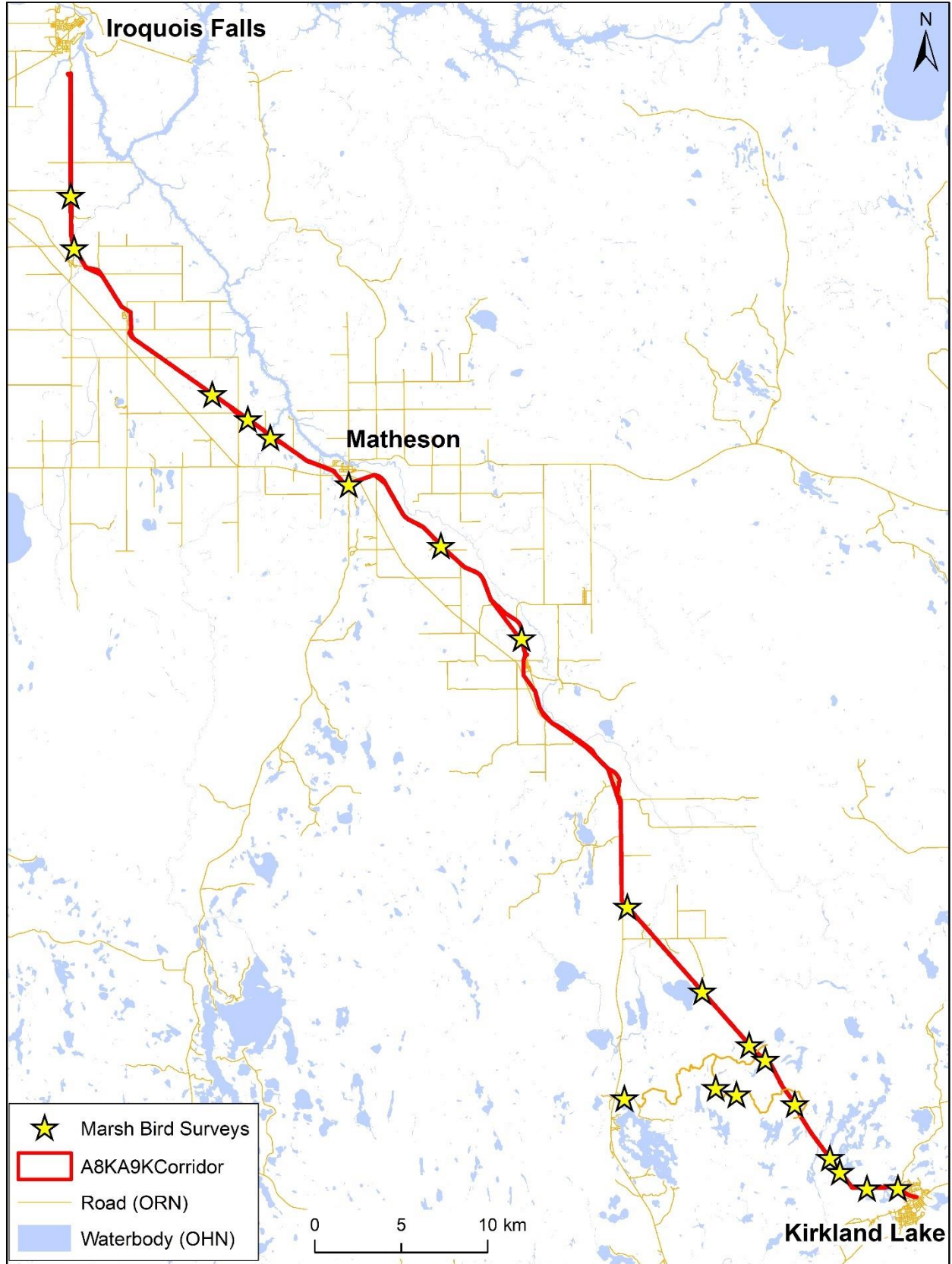


Figure 7. Location of 2021 marsh bird surveys.

2.5 Other Taxa

Reptiles and amphibians were observed opportunistically while conducting fieldwork for SAR and significant wildlife habitat. This included acoustic monitoring during nocturnal surveys, searching small ponds and other waterbodies for adults, larvae, and egg masses, targeted surveys for basking turtles, and random encounter surveys for adults. Visual surveys were also conducted for SAR insects such as monarch (*Danaus plexippus*) and yellow-banded bumblebee (*Bombus terricola*), as well as searches for potential larval host plants (i.e., milkweed, *Asclepias* spp.) and nectar sources.

2.6 Significant Wildlife Habitat

To the extent possible given the timing of the fieldwork, significant wildlife habitat (SWH), as defined by OMNR (2005, 2015b), was assessed along the ROW. Field methods were consistent with those in the Ecoregion 3E Criterion Schedules (OMNRF 2015a) to the extent practical. For example, sticks nests⁵ on transmission structures as well as along the margins of the ROW were visually assessed concurrent with other fieldwork. Surveys were conducted for significant wildlife habitat as defined by the Ontario Ministry of Natural Resources and Forestry's *Significant Wildlife Habitat Criteria Schedules for Ecoregion 3E* (OMNRF 2015a) and OMNR's *Stand and Site Guide* (OMNR 2009), including features such as:

- migration stopover habitat (waterfowl, shorebirds),
- vernal pools (amphibian breeding habitat),
- furbearer habitat,
- turtle habitat (e.g., snapping turtle, *Chelydra serpentina*),
- bat roosting colonies,
- raptor nests,
- great blue heron nesting colonies, and
- colonial waterbird colonies (e.g., Bonaparte's gull, *Chroicocephalus philadelphia*).

Other significant species were also surveyed in 2021. Target species included provincially and regionally rare vascular plants, birds, mammals, butterflies, and odonates (dragonflies and damselflies). Significant species and communities included those:

- tracked by NHIC or ranked S1-S3,
- regionally rare,
- locally or regionally features species by OMNR,
- species of special management concern,
- species near the limits of their range, and
- significant concentrations or sensitive habitat (e.g., staging areas, calving areas, bat or snake hibernacula).

⁵ these may include species protected under the federal *Migratory Bird Convention Act* or the provincial legislation e.g., raptors, owls.

2.7 Vegetation and Wetlands

Vegetation, including wetlands, was quantified for the study area using available Forest Resource Inventory (FRI) for the Timiskaming Forest. FRI data was clipped to the A8/A9K ROW buffered out 500 m. FRI was not available for a small portion of the line near Iroquois Falls that is located on the Abitibi Forest. Vegetation types for this portion of the study area was assessed in the field and through review of available satellite imagery; however, they were not quantitatively assessed.

Where time and access allowed, mapped ecosites (Banton et al. 2009) were confirmed in the field at bird point counts. Due to health and safety considerations, soil augers were not used; rather soil texture was inferred from screefing, windthrow or other natural soil exposure. Reference photos were taken at bird monitoring locations.

Wetlands along the ROW were not formally evaluated (OMNRF 2013), but a desktop screening exercise was done to identify potentially provincially significant wetlands (PSW). Surveys for provincially rare plants (NHIC 2021; Oldham and Brinker 2009) were done concurrent with other fieldwork using the random meander method (ANPC 2000) along the ROW and adjacent habitats.

3 RESULTS

3.1 Bats

Five species of bats were detected in the Project study area in July 2021 using either the hand-held EchoMeter Touch2 or deployed MiniBat ultrasonic recorders. A total of 621 passes from the five species were recorded between July 3 and July 9 using the four ARUs (Table 1); another 247 detections could not be classified. Each pass represents a bat flying within about 50 m of the recorder. Of these, most detections (3/4) were of hoary and silver-haired bats, however it is not known if the detections represented more than one bat or were multiple passes of the same individual. Using the hand-held recorder, several passes of these species, as well as one of little brown myotis, were also detected during in-person point-in-time nocturnal surveys (Appendix 6).

A total of 123 detections of little brown myotis (Figure 8) were recorded during the 28 deployment-nights⁶ of the ARUs. This equates to a mean of only 4.4 detections per ARU per night for little brown myotis. However, the vast majority of detections (73/123) were from one ARU (MiniBat #3) deployed near Monteith on 2nd July 2021 (Figure 9). Given that each detection does not necessarily represent a separate individual (it could be multiple passes from one bat),



Figure 8. Little brown myotis (R. Foster photo).

this suggests there was relatively limited use of the Project site by this species, at least near the locations surveyed with ARUs. Only one little brown myotis was detected during 70 nocturnal in-person surveys, despite targeting locations near water that would be more suitable for foraging little brown myotis. Endangered northern myotis were not detected in July 2021 either with deployed ARUs or during in-person surveys.

Table 1. Bats identified using the Auto ID feature in Kaleidoscope Pro software at the Project study area from four ultrasonic autonomous recording units deployed July 3-9, 2021.

Common Name	Species	n
Big Brown Bat	<i>Eptesicus fuscus</i>	9
Red Bat	<i>Lasiurus borealis</i>	23
Hoary Bat	<i>Lasiurus cinereus</i>	276
Silver-haired Bat	<i>Lasionycteris noctivagans</i>	190
Little Brown Myotis	<i>Myotis lucifugus</i>	123
	Grand Total	621

⁶ 4 units x 7 nights deployed each

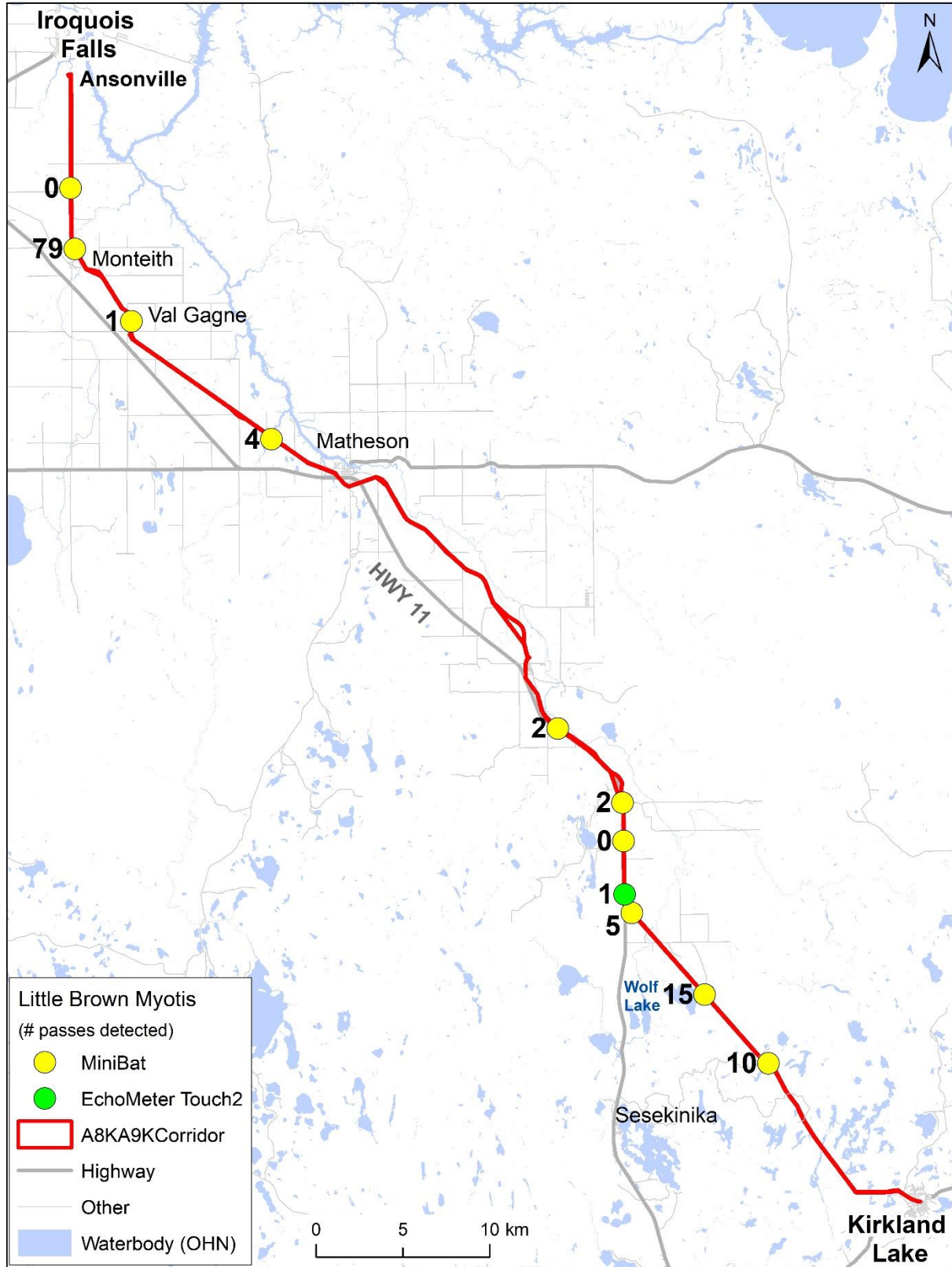


Figure 9. Number of detections at MiniBat automated recording units and hand-held Echo Meter Touch2 during July 2021. See Appendix 2 for deployment details.

3.2 Birds

A total of 101 species of birds was observed during 2021 fieldwork, of which 87 were detected on morning point counts and the remaining species during crepuscular, nocturnal, MMP, and/or targeted SAR surveys, or incidentally during fieldwork (Appendix 7). A total of 2643 individuals were observed on the 176 point counts, for a mean of approximately 15.3 birds per morning point count. The most commonly observed species on morning point counts were birds typical of the southern boreal forest (Table 2). Additional species may use the Project study area, at least in migration, based on known ranges (Cadman et al 2017; eBird 2021) and available habitat.

Table 2. The 15 most common birds on 2021 morning point counts in the Project study area.

Common Name	Scientific Name	AOU Code	Total # of Point Counts	Total # of Individuals
Red-eyed Vireo	<i>Vireo olivaceus</i>	REVI	154	289
White-throated Sparrow	<i>Zonotrichia albicollis</i>	WTSP	153	263
Veery	<i>Catharus fuscescens</i>	VEER	94	137
Common Yellowthroat	<i>Geothlypis trichas</i>	COYE	92	130
American Robin	<i>Turdus migratorius</i>	AMRO	89	123
American Crow	<i>Corvus brachyrhynchos</i>	AMCR	79	145
Nashville Warbler	<i>Oreothlypis ruficapilla</i>	NAWA	70	88
American Redstart	<i>Setophaga ruticilla</i>	AMRE	57	76
Black-capped Chickadee	<i>Poecile atricapillus</i>	BCCH	56	93
Swainson's Thrush	<i>Catharus ustulatus</i>	SWTH	49	72
Song Sparrow	<i>Melospiza melodia</i>	SOSP	48	65
Lincoln's Sparrow	<i>Melospiza lincolnii</i>	LISP	40	54
Ovenbird	<i>Seiurus aurocapilla</i>	OVEN	40	49
American Goldfinch	<i>Spinus tristis</i>	AMGO	37	53
Magnolia Warbler	<i>Setophaga magnolia</i>	MAWA	37	41

Approximately 15 SAR bird species have broad ranges that overlap the Project study area (Appendix 1). For many of those species however, suitable habitat may not be present in the study area and, if present, potentially suitable habitat may not actually be occupied. Fieldwork in 2021 confirmed the presence of seven avian species at risk within the Project study area, three of which are listed as Threatened (Figure 13). Only Endangered and Threatened SAR have habitat protection under Ontario's SAR and the federal SARA; these species are discussed below. Four Special Concern bird species were observed in the Project study area during 2021. Habitat of Special Concern species is not protected under the ESA or SARA, however it is considered Significant Wildlife Habitat; these species are discussed under 2.6 *Significant Wildlife Habitat*.

3.2.1 Threatened Species

3.2.1.1 *Eastern Whip-Poor-Will*

Eastern whip-poor-wills (Figure 10) have been documented in the Kirkland Lake - Iroquois Falls area (Mills 2007; eBird 2021) and are known to nest along hydro rights of way (Mills 2007; Sandilands 2010). A single eastern whip-poor-will was observed foraging near a private driveway north of Kirkland Lake at 22:00 on 8th July 2021. It was sitting on the ground and sallying forth to catch flying insects. No eastern whip-poor-will were detected during point-in-time nocturnal surveys. A single, very faint call that may have been a whip-poor-will was detected on July 7 at ARU Micro #7 deployed in potentially suitable rock barren habitat along the Sesekinika Road (556992E 5340234N). No other potential whip-poor-will calls were detected later in the night or on the previous or following night either.



Figure 10. Eastern whip-poor-will (R. Foster photo).

3.2.1.2 *Bobolink*

One male and two female bobolinks were observed in a field near Monteith on 4th July 2021 and a single male bobolink was observed in grassy ROW to the west of the Val Gagne sewage lagoon on 4th July 2021 (Figure 12, Figure 13). Bobolinks were previously known from the Ramore to Iroquois Falls area where they breed in open pasture habitats (eBird; Gahbauer 2007).

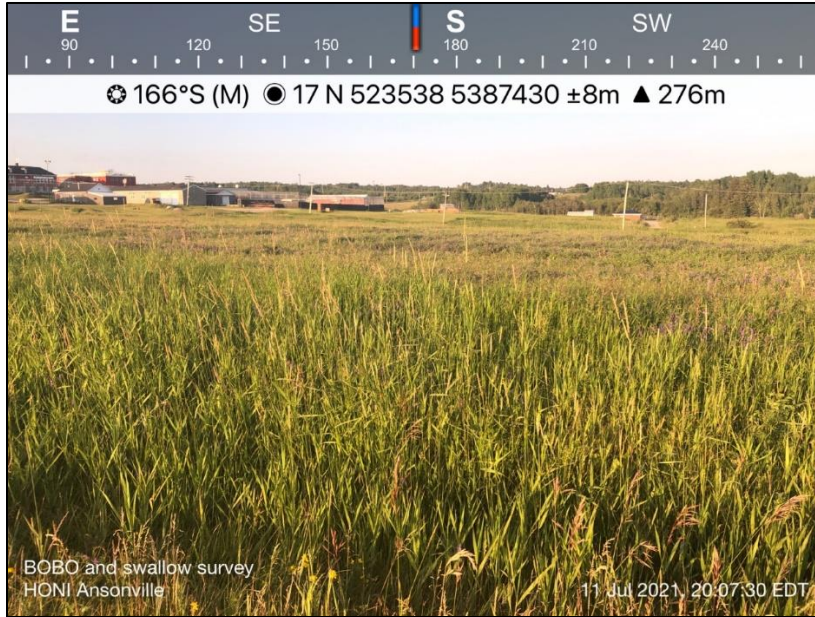


Figure 11. Confirmed bobolink habitat near Monteith, July 2021.



Figure 12. Confirmed bobolink habitat near Val Gagne, July 2021.

3.2.1.3 Barn and Bank Swallows

A single adult barn swallow was observed perched roadside on a telephone wire near Monteith on 4th July 2021. No evidence of breeding was observed on or near the ROW or Project access road. No bank swallows were observed during 2021 fieldwork.

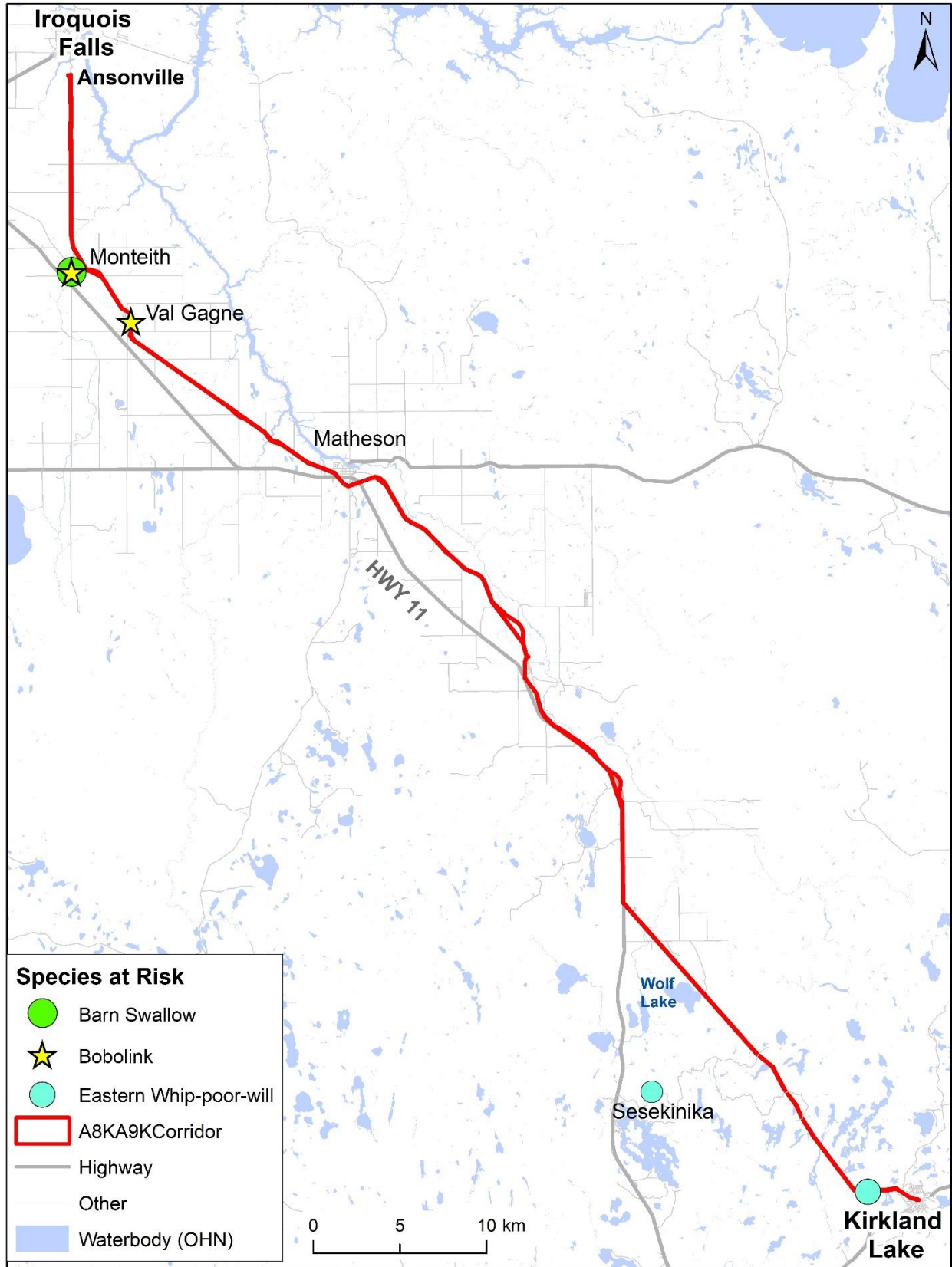


Figure 13. Location of Threatened avian species at risk observed during 2021 fieldwork.

3.3 Significant Wildlife Habitat

OMNR's *Significant Wildlife Habitat Technical Guide* (SWHTG) (OMNR 2000) is a detailed technical manual that provides recommended approaches for identifying, describing and prioritizing significant wildlife habitat (SWH). In recognition of the variability of the Ontario landscape, an addendum to the SWHTG has been developed that provides ecoregion-specific criteria for determining the significance of wildlife habitat. The Significant Wildlife Habitat criteria schedule for Ecoregion 3E (OMNRF 2015b), which overlaps the Project study area, provides significance thresholds for significant wildlife habitat. As per the SWHTG, there are four general types of significant wildlife habitat:

- habitats of seasonal concentrations of animals;
- rare vegetation communities or specialized habitat for wildlife;
- habitat of species of conservation concern; and
- animal movement corridors.

These are discussed in more detail in the following sections.

3.3.1 Habitats of Seasonal Concentrations of Animals

According to the SWHTG (OMNR 2000), seasonal concentration areas are areas where wildlife species occur annually in aggregations at certain times of the year. Such areas are sometimes highly concentrated with members of a given species, or several species, within relatively small areas. In spring and autumn, migratory wildlife species will concentrate where they can rest and feed. Other wildlife species require habitats where they can survive winter. OMNR (2015) provides criteria for determining if seasonal concentrations of wildlife should be considered significant wildlife habitat.

A small number of snags with old woodpecker holes that could potentially serve as bat roosts were observed during 2021 fieldwork and may be considered SWH even though presence of bats was not confirmed through exit surveys (Table 3). The candidate SWH encompasses the entire forested ecosite in which the snag trees were located.

Three Bonaparte's gull were observed flying over a small boggy lake approximately 150 m from the ROW; the shoreline was black spruce forest that is potentially suitable breeding habitat (555993E 5350776N). However, a minimum of four nests for a Bonaparte's gull colony to be considered SWH in Ecoregion 3E.

No other potentially significant habitats of seasonal concentrations of animals were observed during the Project study area during 2021 fieldwork, nor are documented by NHIC or in the relevant forest management plans.

Table 3. Candidate significant wildlife habitat for significant seasonal concentrations of animals observed in the Project area during July 2021 field surveys.

Habitat/Feature	Date Observed	Easting	Northing	Notes
Possible bat roosting tree	2021-07-06	569516	5334609	Woodpecker hole in old conifer snag at edge of wetland.
Possible bat roosting trees	2021-07-08	570486	5334513	Larch snags in marsh. Woodpecker holes
Possible bat roosting trees	2021-07-09	564583	5340162	Snag in clearcut. Woodpecker hole.
Potential bat roost tree	2021-07-06	561707	5342063	1 snag TA 7m, 1 hole 25cm DBH
Potential bat roost tree	2021-07-06	561616	5342114	1 snag TA 6m, 1 cavity, loose bark, 35cm DBH
Potential bat roost tree	2021-07-06	560992	5342067	1 snag tree 10m height 30cm DBH, 1 cavity 6m.

3.3.2 Rare Vegetation Communities

According to OMNRF (2000, 2015b), rare vegetation communities often contain rare species, particularly plants and small invertebrates, that depend on such habitats for their survival and cannot readily move to or find alternative habitats. When assessing rare vegetation communities, one of the most important criteria is the current representation of the community in the planning area based on its area relative to the total landscape or the number of examples within the planning area. There are a number of criterion used to define rare vegetation communities, however the OMNRF's Natural Heritage Information Centre (NHIC) uses a system that considers the provincial rank of a species or community type as a tool to prioritize protection efforts. These ranks are not legal designations but have been assigned using the best available scientific information, and follow a systematic ranking procedure developed by The Nature Conservancy (U.S.). The ranks are based on three factors: estimated number of occurrences, estimated community aerial extent, and estimated range of the community within the province:

- S1 Extremely rare - usually 5 or fewer occurrences in the province, or very few remaining hectares.
- S2 Very rare - usually between 5 and 20 occurrences in the province, or few remaining hectares.
- S3 Rare to uncommon - usually between 20 and 100 occurrences in the province; may have fewer occurrences, but with some extensive examples remaining.

The setting of criteria for significant wildlife habitat (SWH) has incorporated NHIC's ranking system into its process of determining rare vegetation communities and requires the vegetation community be considered dominant (i.e., absolute cover is >10% and/or relative cover is >35%; Lee 1998). As such, a rare vegetation community is defined to include areas that contain a provincially rare vegetation community and/or areas that contain a vegetation community that is rare within the planning area.

Several occurrences of black ash (*Fraxinus nigra*) and red maple (*Acer rubrum*) were observed in the Project study area during 2021 fieldwork (Table 4). These species are uncommon to rare in

central and northern areas of Ecoregion 3E and stands with >10% absolute cover or >35% relative cover of these species qualify as significant wildlife habitat (the entire mapped ecosite is considered SWH). There is only one black ash stand within 500 m of the Project ROW that might meet the significance threshold; 2.7 ha stand has a relative cover of 50% black ash. There are also 12 stands within 500 m of the ROW with 30% cover of red maple encompassing 18.1 ha; the red maple cover is less than the threshold for significance, however. The 2021 field observations of these black ash and red maple may similarly have too low a relative cover of at the ecosite scale to meet the threshold for significance.

Table 4. Candidate significant wildlife habitat for rare vegetation types observed in the Project area during July 2021 field surveys.

Habitat/Feature	Date Observed	Easting	Northing	Notes
Black ash	2021-07-09	564564	5340058	4 partially dead trees in clearcut
Black ash stand	2021-07-05	565700	5339500	Several dead and dying trees in old clearcut about 250m apart along access road to PC140
Black ash stand	2021-07-06	561393	5342112	approximately 50 black ash 10-15cm dbh in cutover, dead and alive.
Black ash stand	2021-07-06	561118	5342020	Black ash stand 25-40cm dbh 10-12 m
Red maple stand	2021-07-06	561286	5342009	230 m x 200 m stand, small DBH 25-30cm
Red maple stand	2021-07-09	564282	5341015	w white spruce, black spruce, balsam fir, and larch
Red maple stand	2021-07-09	559743	5346166	w white spruce, black spruce, balsam fir, and larch

3.3.3 Specialized Habitat for Wildlife

According to the OMNR (2000), some wildlife species require large areas of suitable habitat for their long-term survival. Many wildlife species require substantial areas of suitable habitat for successful breeding. Their populations decline when habitat becomes fragmented and reduced in size. Specialized habitat for wildlife is a community or diversity-based category, therefore, the more wildlife species a habitat contains, the more significant the habitat becomes to the planning area. The largest and least fragmented habitats within a planning area will support the most significant populations of wildlife.

Several occurrences of potential turtle nesting habitat were observed during 2021 fieldwork consisting of exposed sandy areas near wetlands (Table 5). No turtle nesting was observed however, so these areas could only be considered candidate SWH. Confirmation of turtle nesting and SHW would require targeted repeat surveys earlier in the season.

A seep and a spring were observed at separate locations during 2021 fieldwork (Table 5). To be considered SWH in Ecoregion 3E, at least two springs or seeps must be present at a site.

The Project ROW crossed wetlands at a number of locations (see 3.4.2 3.4.2 Wetlands). Spring peepers (*Pseudacris crucifer*), American toads (*Anaxyrus americanus*), and/or mink frogs

(*Lithobates septentrionalis*) were heard at most wetlands that were surveyed (Appendix 5, Appendix 8); some may be candidate SWH for wetland amphibian breeding habitat (Figure 14).

No other specialized habitat for wildlife was observed during the Project study area during 2021 fieldwork, nor is any documented by NHIC or in the relevant forest management plans.

Table 5. Candidate significant wildlife habitat for specialized habitat for wildlife observed in the Project area during July 2021 field surveys.

Habitat/Feature	Date Observed	Easting	Northing	Notes
Potential turtle nesting habitat	2021-07-05	560766	5340327	Sandy margin of forest access road adjacent to pond with basking logs and rocks.
Potential turtle nesting habitat	2021-07-06	559444	5346506	Extensive sandy area N. of PC 155-154
Potential turtle nesting habitat	2021-07-06	571006	5334640	Sandy margin of forest access road. Adjacent to large wetland.
Potential turtle nesting habitat	2021-07-12	555274	5350320	In proposed laydown yard next to wetland
Potential turtle nesting habitat	2021-07-12	539470	5375186	Wetland with suitable turtle nesting substrate.
Seep	2021-07-06	561629	5342097	Aeep with iron precipitates flowing under road to south
Spring (artesian well)	2021-07-09	559324	5348747	On road to Wolf L. Used by local community as drinking water source.

3.3.4 Habitat of Species of Conservation Concern

According to OMNR (2000), species of conservation concern include the following:

- 1 species that are identified as Special Concern under the ESA on the SARO List, which were formally referred to as “Vulnerable” in the Significant Wildlife Habitat Technical Guide;
- 2 species identified as nationally Endangered or Threatened by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) but which are not protected in regulation under Ontario’s ESA;
- 3 species that are rare or substantially declining in Ontario; and
- 4 species that have a high percentage of their global population in Ontario.

Special Concern species are discussed below. Species of conservation concern does not include habitats of provincially Endangered and Threatened species covered under PPS policy 2.1.3(a).

Black ash is the only species identified as nationally Endangered or Threatened by COSEWIC, but which are not protected in regulation under Ontario’s ESA that is known from the Project study area. It has been discussed above under rare vegetation communities but is mentioned below to highlight its potential listing under the ESA and SARA.

No species that are rare or substantially declining in Ontario are documented by NHIC for the Project area, nor were any observed during 2021 field surveys. The Ecoregion 3E criteria schedules also identifies breeding habitat for marsh, open country, and shrub/early successional birds as potential SWH under this category. Although some of these species were observed during fieldwork including two three wetlands with Sora and/or Virginia Rail, no habitat met the criteria for SWH.

No species that have a high percentage of their global population in Ontario are known from the Project area.

3.3.4.1 Common Nighthawk

Common nighthawks were observed in the evening (20:40 to 21:50) on July 6, 8, and 9 during crepuscular/nocturnal surveys or incidentally. They were observed at 10 locations, primarily in upland habitat (often jack pine-dominated) in the southern portion of the study areas, particularly the Sesekinika Road used to access the ROW near Kirkland Lake. Lone individuals were often observed flying overhead, calling, and displaying (peenting), and one group of four was also observed. Common nighthawk were also detected on 28 occasions at nine locations (Figure 13) using ARUs deployed throughout the study area (Appendix 8), typically single individuals peenting but also multiple birds were heard on several occasions.

3.3.4.2 Olive-sided Flycatcher

Lone male olive-sided flycatchers (*Contopus cooperi*) were heard singing on territory on July 5, 2021 at two locations along the Sesekinika Road used to access the southern portion of the ROW near Kirkland Lake.

3.3.4.3 Canada Warbler

Male Canada warblers (*Cardellina canadensis*) were recorded on plots or incidentally at seven locations along the ROW on multiple dates in July 2021. Males were heard singing (apparently on territory) in mixedwood forest adjacent to the ROW, rather in the ROW itself.

3.3.4.4 Bald Eagle

A single adult bald eagle (*Haliaeetus leucocephalus*) was flying overhead on 7th July 2021 near Wolf Lake along the Project ROW. No evidence of nesting was observed. This species is listed as Special Concern in Ontario, but Not At Risk federally. As this species was only observed flying overhead, no candidate SWH was identified.

3.3.4.5 Black Ash

Black Ash (*Fraxinus nigra*) has been assessed as Threatened by COSEWIC, primarily due to the risk from emerald ash borer (*Agrilus planipennis*), an invasive pest. However, this species has not yet been added to Schedule 1 under SARA. Provincially, black ash has been assessed as Endangered (COSSARO 2020), but the province is proposing a Minister's regulation to temporarily pause the protections for black ash under the ESA, for two years from the time it is

added to the Species at Risk in Ontario List regulation⁷. This would allow time to develop an approach to support Black Ash protection and recovery that considers social and economic impacts. See Table 4 for details of black ash observations during 2021 fieldwork.

3.3.4.6 Monarch

Two adult monarchs were observed flying in fields near the ROW at Matheson in July 2021 (Figure 13). However, no milkweed or larvae were observed in or near the Project, and therefore no candidate SWH was identified. Monarch is listed as Special Concern under Ontario's ESA; federally it is listed as Special Concern under Schedule 1 of the SARA⁸, although the species was recently assessed as Endangered by COSEWIC (COSEWIC 2016).

3.3.5 Animal Movement Corridors

Animal movement corridors are defined by the SWHTG as animal “elongated, naturally vegetated parts of the landscape used by animals to move from one habitat to another” and are often associated with shorelines, riparian areas (OMNR 2000). These corridors are typically linear habitats that are traditionally used by wildlife to move to one habitat from another. This is usually in response to different seasonal habitat requirements. Some examples are trails used by deer to move to wintering areas, and areas used by amphibians between breeding and summering habitat.

Migration corridors are particularly important in the heavily developed landscapes of southern and central Ontario where forested riparian corridors can link patches of intact forest or other natural habitats in an otherwise urban or agricultural matrix. In the northern Ontario context, migration corridors are more difficult to identify and map due to limited animal movement data the larger, less fragmented landscapes. Riparian and other buffers and Areas of Concern (AOC) used in forest management planning provide migration corridors for some species in areas that are commercially harvested.

No evidence of animal movement corridors were observed during the Project study area during 2021 fieldwork, nor are documented in the relevant forest management plans. Much of the Project ROW parallels existing linear features such as roads or is in an area undergoing active forest management, which may limit the potential for this type of SWH.

⁷ <https://ero.ontario.ca/notice/019-4278>

⁸ <https://laws.justice.gc.ca/eng/acts/S-15.3/page-17.html#h-435647>

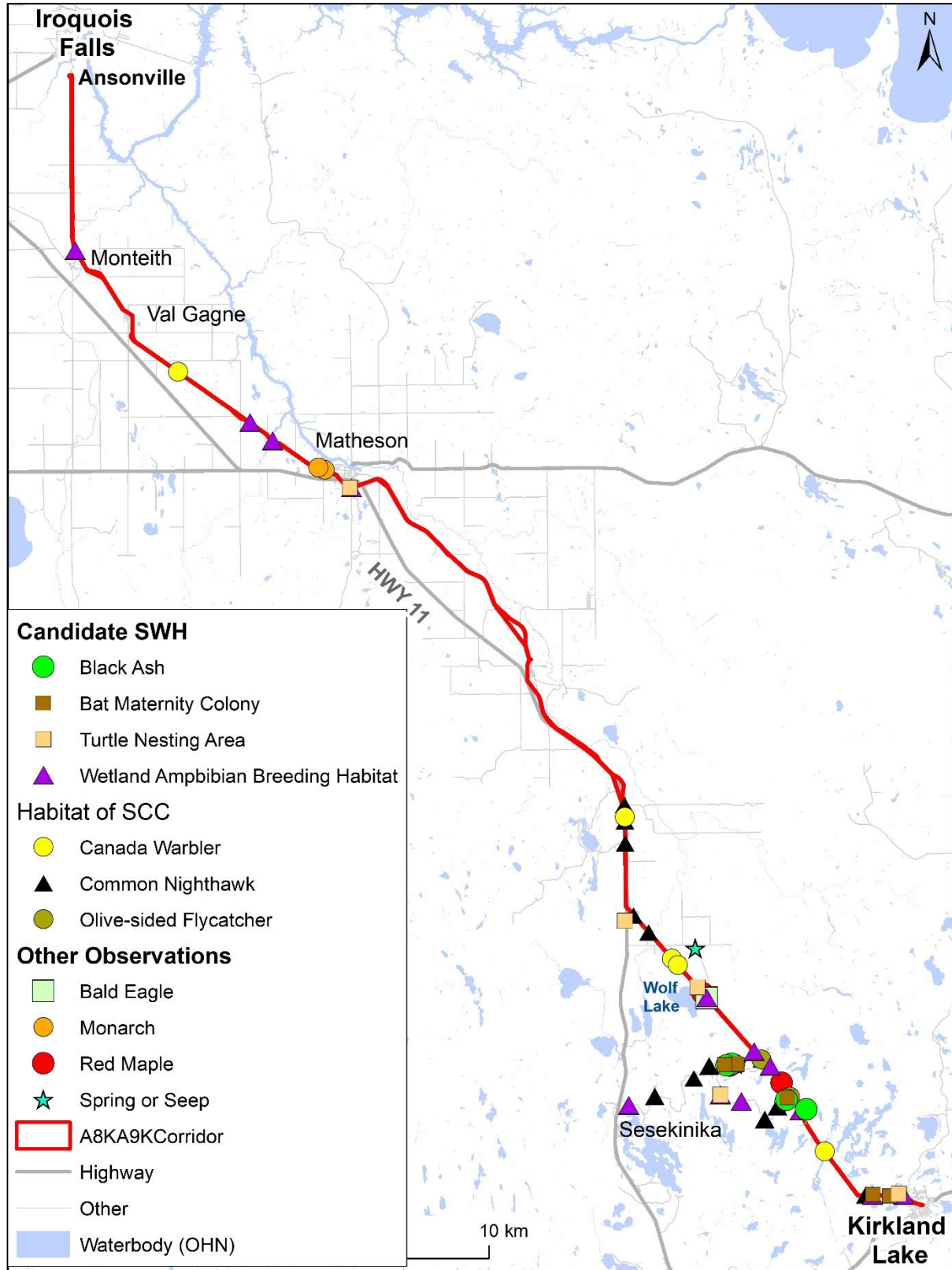


Figure 14. Special concern species and other candidate significant wildlife habitat observed in the Project area during July 2021 fieldwork.

3.4 Vegetation

The A8/A9K ROW is generally dominated by herbaceous, gramineous, and/or low woody vegetation as a result of the initial clearing of the ROW and subsequent vegetation activities to prevent the growth of trees and shrubs that could potentially interfere with the overhead transmission lines. In the absence of topographic discontinuity or roads, agriculture, or other development, soils in the ROW are generally similar to adjacent habitats. As a result, where open habitats such as wetlands and fields are adjacent, the vegetation in the ROW is often comparable. Where the adjacent habitat is forested, ROW vegetation may share similarities with the understory composition, but with a shift to species that are more tolerant of the greater sunlight, wind, and competition in the ROW. Plant species that are tolerant of open, disturbed habitats and the periodic vegetation management along the ROW predominate, often including non-native species.

Most of the ROW is bordered by upland habitats, with approximately 70% of the 500 m ROW buffer comprised of either upland forest or non-forested habitats (Figure 15, Table 6). Treed and open wetlands encompass approximately 13% of adjacent habitats, with waterbodies and watercourses (and associated islands) accounting for an additional 2.8%. The remaining 13% of the adjacent ROW buffer was anthropogenic habitats such as the transmission lines, roads, and other developed areas.

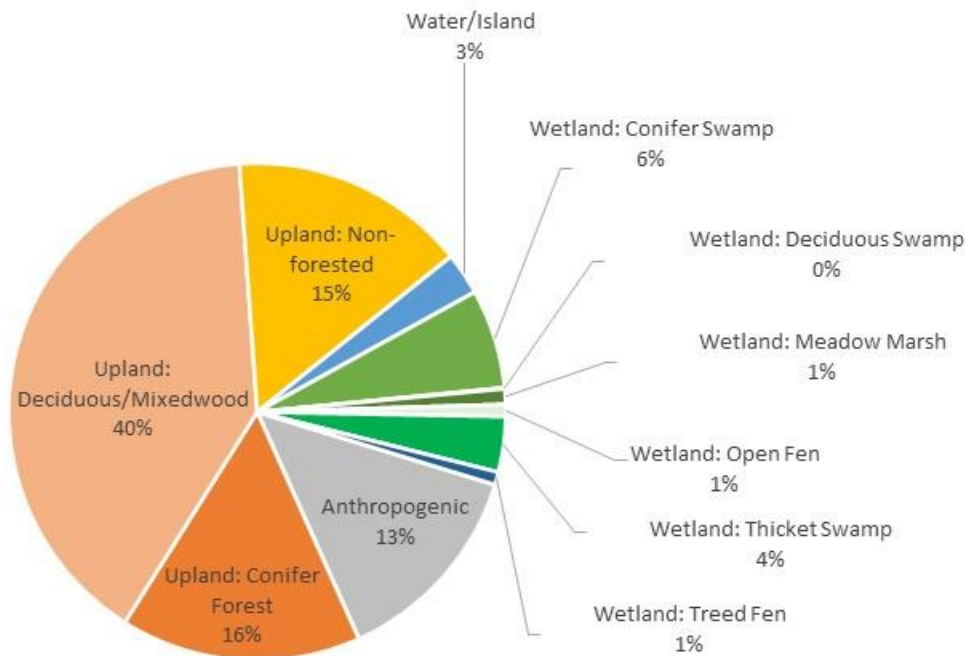


Figure 15. Approximate proportion of habitat types in the Project ROW and 500 m buffer⁹.

⁹ based on Timiskaming Forest Resource Inventory ecosite data

Table 6. Summary of ecosite abundance in the A8/A9K ROW and adjacent 500 m buffer¹⁰.

Boreal Ecosite	Ecosite Name	Total Area (ha)	% of Total
B007	Active Mineral Barren	14.2	0.16
B012	Very Shallow Dry/Fresh Pine-Black Spruce Conifer	32.4	0.37
B016	Very Shallow Dry/Fresh Aspen-Birch Deciduous	8.9	0.10
B033	Dry Sandy Red Pine-White Pine Conifer	3.5	0.04
B034	Dry Sandy Black Spruce-Jack Pine Dominated	192.9	2.18
B035	Dry Sandy Pine-Black Spruce Conifer	57.7	0.65
B040	Dry Sandy Aspen-Birch Deciduous	181	2.04
B044	Coarse Dry/Fresh Field	10.1	0.11
B046	Coarse Dry/Fresh Sparse Shrub	21.3	0.24
B049	Coarse Dry/Fresh Black Spruce-Jack Pine Dominated	355.3	4.01
B050	Coarse Dry/Fresh Pine-Black Spruce Conifer	391.5	4.42
B052	Coarse Dry/Fresh Spruce-Fir Conifer	14.5	0.16
B055	Coarse Dry/Fresh Aspen-Birch Deciduous	1056.1	11.93
B063	Coarse Moist Shrub	7.7	0.09
B065	Coarse Moist Pine-Black Spruce Conifer	167.3	1.89
B070	Coarse Moist Aspen-Birch Deciduous	78.6	0.89
B093	Fresh Silty/Fine Loamy Field	794.7	8.98
B095	Fresh Silty/Fine Loamy Sparse Shrub	441.1	4.98
B096	Fresh Silty/Fine Loamy Shrub	53.6	0.61
B098	Fresh Silty/Fine Loamy Black Spruce-Jack Pine Dominated	54	0.61
B099	Fresh Silty/Fine Loamy Pine-Black Spruce Conifer	43.8	0.49
B101	Fresh Silty/Fine Loamy Spruce-Fir Conifer	49.5	0.56
B104	Fresh Silty/Fine Loamy Aspen-Birch Deciduous	2073.6	23.42
B112	Fine Moist Shrub	18.9	0.21
B114	Fine Moist Pine-Black Spruce Conifer	4.7	0.05
B116	Fine Moist Spruce-Fir Conifer	19.6	0.22
B119	Fine Moist Aspen-Birch Deciduous	131.8	1.49
B120	Fine Moist Elm-Ash Deciduous	2.8	0.03
B127	Organic Poor Conifer Swamp	97.9	1.11
B128	Organic Intermediate Conifer Swamp	435.5	4.92
B129	Organic Rich Conifer Swamp	37.7	0.43
B133	Deciduous Swamp	7.1	0.08
B135	Organic Thicket Swamp	318.4	3.60
B136	Sparse Treed Fen	73.4	0.83
B139	Poor Fen	36.2	0.41
B140	Open Moderately Rich Fen	32.9	0.37
B142	Mineral Meadow Marsh	88.5	1.00

¹⁰ based on Timiskaming Forest Resource Inventory ecosite data

Boreal Ecosite	Ecosite Name	Total Area (ha)	% of Total
B191	Active Waste Disposal/Landfill	20.5	0.23
B192	Waste Disposal/Landfill	7.2	0.08
B197	Pavement/Concrete	630.3	7.12
U997	Developed Area	6.5	0.07
U998	Transmission Line	409.7	4.63
U999	Unclassified Developed Area	126.3	1.43
	Water / Island	243	2.75
	Total	8852.2	100.00

3.4.1 Upland Habitats

Upland forest or open vegetation communities comprise the majority of habitat adjacent to the ROW. Deciduous forests or mixedwoods make up about 55% of adjacent habitats, with Boreal Ecosite B104 Fresh Silty/Fine Loamy Aspen-Birch Deciduous the most abundant, representing almost ¼ of the habitats within 500 m of the ROW (Table 6)(Figure 16). This ecosite has an overstory dominated by trembling aspen (*Populus tremuloides*) and/or white birch (*Betula papyrifera*), with white spruce (*Picea glauca*), balsam fir (*Abies balsamea*) as common subdominants. Jack pine (*Pinus banksiana*) and black spruce (*Picea mariana*) may also be present. There are often well-developed shrub and herbaceous layers. Mountain maple is a common, as are sarsaparilla (*Aralia nudicaulis*), bunchberry (*Cornus canadensis*), bluebead lily (*Clintonia borealis*), and Canada mayflower (*Maianthemum canadense*) in a well-developed herbaceous layer. Ground cover is typically feathermoss, broom mosses (*Dicranum* spp.), and leaf litter.



Figure 16. Upland deciduous forest (B104) along the Project ROW.

Ecosite B055 was the next most common upland vegetation community, accounting for about 12% of the adjacent habitats. It has a slightly drier moisture regime than B104, with beaked hazel (*Corylus cornuta*) and bush honeysuckle common shrubs, with bunchberry, Canada mayflower, and feathermosses common in the understory.

On well-drained upland sites such as Ecosite B044 and B055, ground cover in the ROW is often sparse and dominated bracken fern (*Pteridium aquilinum*), sheep laurel (*Kalmia angustifolia*), bearberry (*Arctostaphylos uva-ursi*), and reindeer lichen (*Cladina* spp.) (Figure 17, Figure 18).



Figure 17. ROW and adjacent Boreal Ecosite 34 with sparse ground cover (left) and dense bracken fern (right).



Figure 18. B050 with black spruce along the ROW.

3.4.2 Wetlands

3.4.2.1 Ecosites

Wetlands account for approximately 13% of habitats within 500 m of the Project ROW, with open wetlands representing less than 2% of the total. The most abundant wetland type adjacent (i.e., within 500 m) to the ROW are Boreal Ecosite B128 consisting of intermediate conifer swamp on organic substrate (Table 6)¹¹. There is over 435 ha of this treed wetland (~40% of total wetland area) that has black spruce (*Picea mariana*) and tamarack (*Larix laricina*) dominating the overstory. The understory for this ecosite is typically comprised of speckled alder (*Alnus incana*) and ericaceous shrubs such as Labrador tea (*Rhododendron groelandicum*), leatherleaf (*Chamaedaphne calyculata*), and blueberries (*Vaccinium* spp.). Ground cover is typically fairly diverse and abundant with herbaceous species such as bunchberry (*Cornus canadensis*), three leaved false Solomon's seal (*Maianthemum trifolium*), woodland horsetail (*Equisetum sylvaticum*). Feathermosses (e.g., *Pleurozium*, *Ptilium*) and Sphagnum are abundant. Many of the understory species persist in the cleared ROW, particularly those that are less shade-tolerant (Figure 19). Poor conifer swamp (B127) on organic deposits accounts for another 100 ha of wetlands along the ROW; nutrients are less available in this treed wetland so floristic diversity is typically lower. Graminoids such as three-seeded sedge (*Carex trisperma*) may be abundant, and often dominate the adjacent ROW (Figure 19).



Figure 19. Conifer swamp along ROW with abundant ericaceous shrubs (left) or graminoids (right).

Thicket swamps on organic substrate (B135) was the next most abundant wetland ecosite with over 318 ha or about 28% of the wetland area (Figure 20). This ecosite is dominated by speckled alder with scattered black spruce or tamarack (i.e., <25% cover). Other shrubs may include willows (*Salix* spp.), red osier dogwood (*Cornus sericea*), bog birch (*Betula pumila*), meadowsweet (*Spiraea alba*), and others. Graminoids such as bluejoint grass (*Calamagrostis*

¹¹ FRI data for the ROW on the Abitibi Forest near Iroquois Falls unavailable

canadensis), manna grass (*Glyceria* spp.), and sedges (*Carex* spp.), with violets (*Viola* spp.), horsetails (*Equisetum* spp.), and dwarf raspberry (*Rubus pubescens*) often present.



Figure 20. Thicket swamp (B135) along margins of the Project ROW.

Meadow marsh account for approximately 90 ha of wetland under or near the ROW, typically associated with watercourses or the margins of waterbodies. They often occur interspersed with thicket swamps but have a greater degree of seasonal flooding that prevents succession to shrub-dominated communities. Where they occur on mineral substrate (typically fine-textured) they are classed as B142; pockets of B144 occur on organic substrates, sometimes overlying mineral substrates. These are graminoid or forb-dominated communities; bluejoint grass and sedges such as *C. aquatilis*, *C. stricta*, and *Scirpus cyperinus* are typical. Sweet flag (*Iris versicolor*), marsh marigold (*Caltha palustris*), and marsh bedstraw (*Galium asprellum*) are common associates.



Figure 21. Meadow marsh (B142) along the Project ROW.

Although not fully delineated in the Timiskaming FRI, there are small patches of emergent and other marshes in or near the Project ROW. Cattail (*Typha latifolia*) (Figure 22) occur on mineral (B148) or organic (B149) substrates in shallow water along the margins of watercourses and waterbodies, as do graminoid-dominated marshes or shore fens (Figure 23).



Figure 22. Cattail marsh at Point Count 158.



Figure 23. Graminoid marsh along the shore of Wendtright Lake.

3.4.2.2 Provincially Significant Wetlands (PSWs)

No provincially significant wetlands have been identified by OMNRF (2021a) along or within 1 km of the Project ROW or potential access routes (e.g., North or South Sesekinika roads). The ROW does, HOWEVER, pass through or nearby a couple of large unevaluated wetlands as well as smaller ones.

The largest contiguous wetland is near Wolf Lake east of Bourkes (Figure 25) and another one that extends to the west of Bourkes and north of Meyers Lake (Figure 26). The wetland near Wolf Lake covers approximately 1800 ha depending on how it is delineated. More than half (56%) is intermediate conifer swamp, with poor and rich conifer swamps accounting for another 21% of the wetland area. Thicket swamp covers over 220 ha and treed fen another 97 ha. Meadow marsh (Figure 24) and floating marsh account for only 3.4 and 1.1 ha respectively.



The contiguous wetland near Meyers Lake is approximately 2000 ha in size, with conifer swamps representing 80% of the area. Most are intermediate swamp dominated by black spruce and tamarack. Thicket swamp and treed fen each account for about 7% of the wetland and there is very little bog (35 ha) or marsh (< 3ha).

Figure 24. Meadow marsh (B142) along the Project ROW near Wolf Lake.

Neither the Meyers Lake nor Wolf Lake wetlands have been formally evaluated under the Northern Ontario Wetland Evaluation System (OMNR 2013). Both have large areas that are planned or eligible for harvest in the 2021-2031 Timiskaming Forest Management Plan (Appendix 9). It is possible that one or both wetlands is provincially significant, depending on how they are delineated, and which hydrological, biological, cultural, and other features are found to be present. Extensive wetlands in northern Ontario often surpass the significance threshold if they contain multiple wetland classes, particularly if large marshes and/or fens are present. Criteria in Chisolm et al. (1995) suggest that these wetlands could be provincially significant, particularly if they are complexed across multiple watersheds.

The ROW also passes adjacent to a 300-ha wetland just north of Val Gagne (Figure 27). This wetland is primarily poor or intermediate conifer swamp (122 ha) and organic thicket swamp (156 ha), with only 3 ha of treed fen and 11 ha of open poor fen. The relatively small size, limited diversity of wetland types, and lack of marshes, known SAR, or documented special features makes it unlikely that this wetland would meet the threshold of provincial significance.

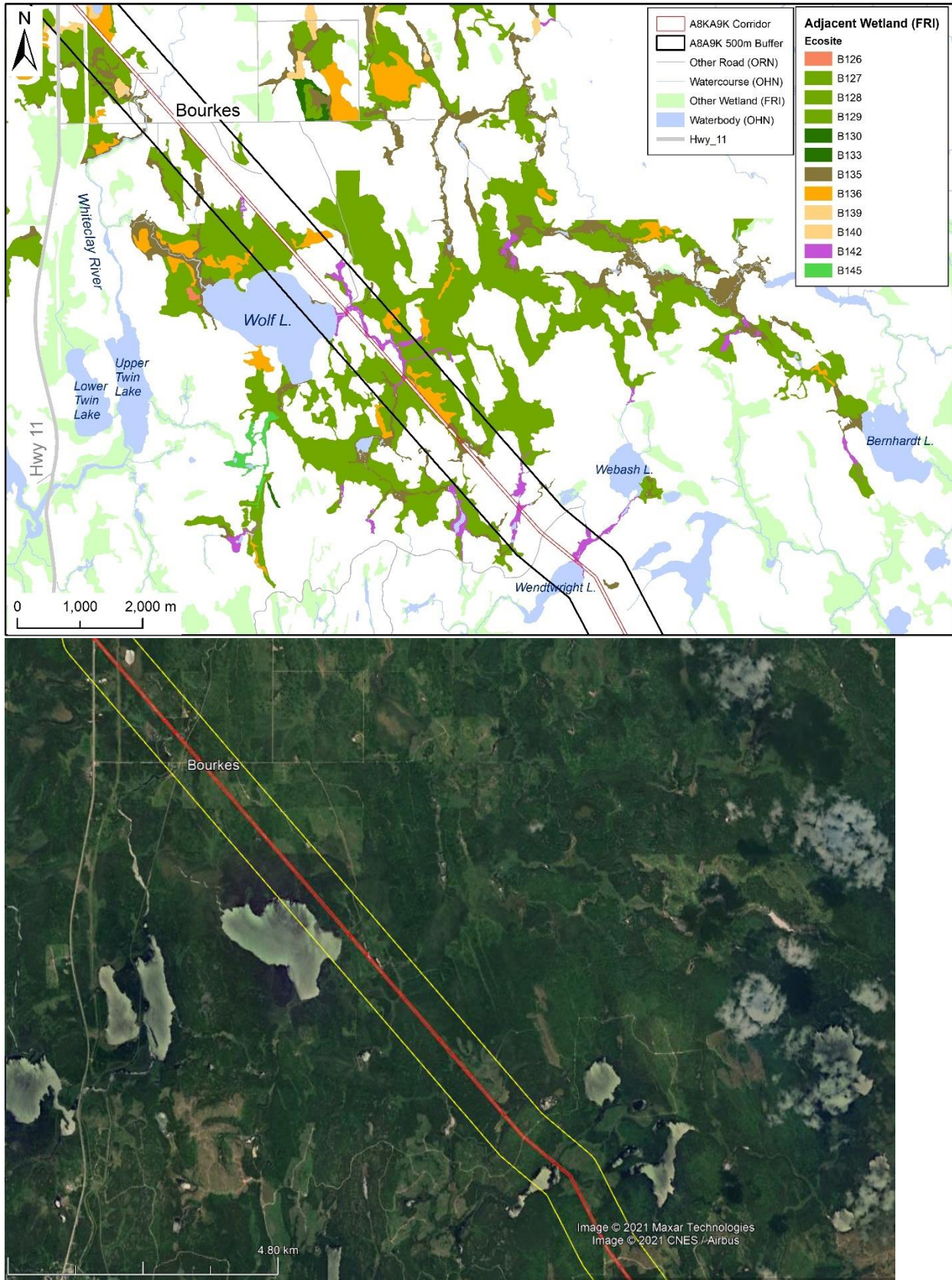


Figure 25. Large, non-evaluated wetland near Wolf Lake.

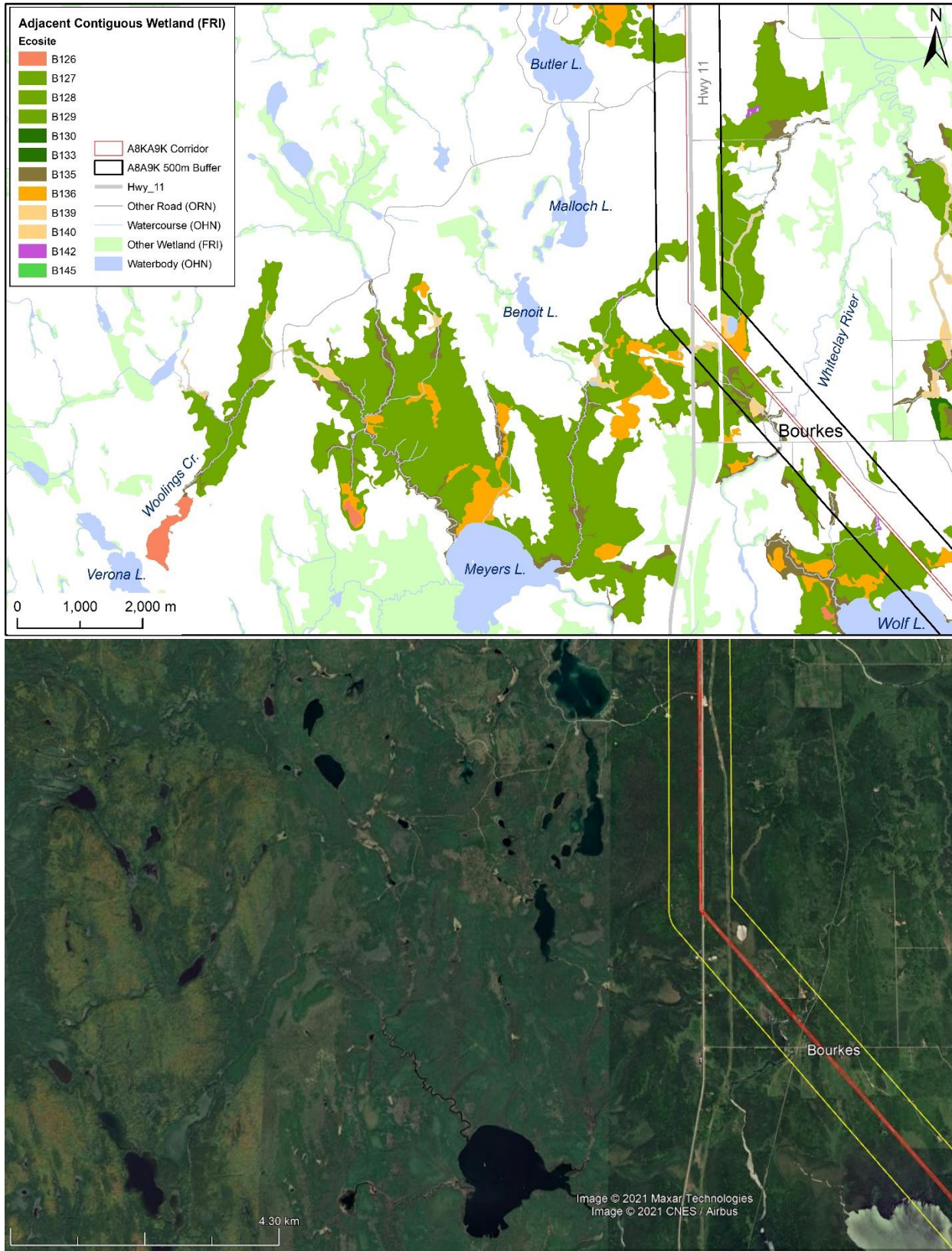


Figure 26. Large, non-evaluated wetland near Meyers Lake west of Bourkes.

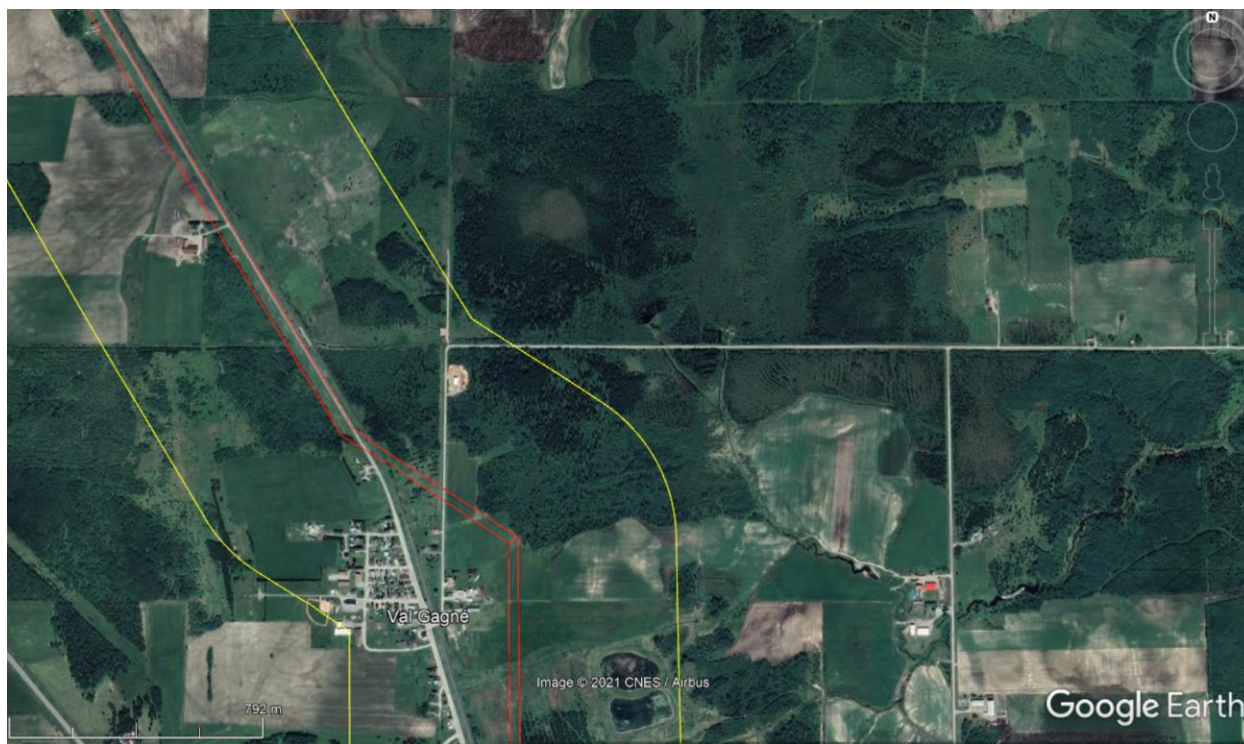
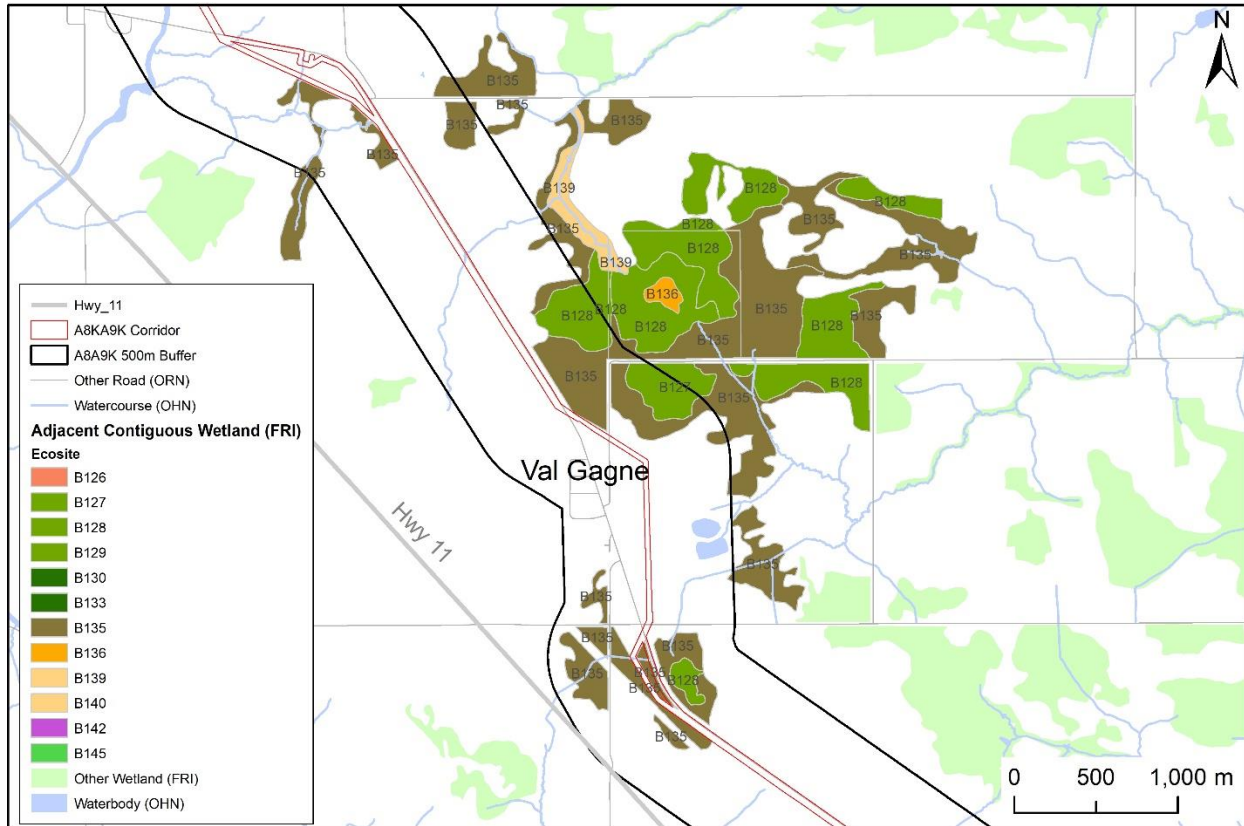


Figure 27. Wetland near Val Gagne unlikely to meet provincial significance.

4 SUMMARY AND CONCLUSIONS

Desktop review and field surveys for SAR and significant wildlife habitat were conducted in July 2021 to support the Class EA for the A8K/A9K Transmission Line Refurbishment Project between Iroquois Falls and Kirkland Lake, Ontario. A total of 176 morning point counts, 22 marsh monitoring surveys, and 70 crepuscular/nocturnal surveys were conducted for birds, bats, anurans, and other taxa. In addition, automated recording units were used at 42 locations for 112 deployment-nights to survey bats, crepuscular/nocturnal birds, and anurans. Targeted surveys were also conducted for SAR such as bobolink and swallows, as well as other significant wildlife habitat.

Five species of bats were detected at or near the Project including foraging Endangered little brown myotis. No bat hibernacula are known near the Project, but several cavity trees were observed in adjacent areas that could potentially be suitable for roosting bats, at least for non-breeding individuals. No other mammalian SAR were observed nor are anticipated in the Project area. A total of 101 bird species were observed during 2021 fieldwork, including the three Threatened species: eastern whip-poor-will, bobolink, and barn swallow. Significant wildlife habitat observed included habitat for the following provincially and/or federally listed Special Concern species: common nighthawk, Canada warbler, and olive-sided flycatcher. Special Concern bald eagle and monarch were observed during 2021 fieldwork, but no breeding habitat or larval habitat was found so no SWH was identified for these species. Other potentially significant wildlife habitat may also occur near the Project area, such as wetland amphibian breeding habitat, turtle nesting habitat, regionally rare tree communities, and bat maternity roosts. However, with appropriate mitigation, no significant impacts on the values observed during 2021 fieldwork are anticipated.

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Appendix 1. Preliminary list of potentially-occurring provincial/federal species at risk in the A8K/A9K Transmission Line study area and field methods.

Species	ESA Rank	Targeted Survey	Rationale / Proposed Approach
American White Pelican	THR	N	suitable habitat unlikely along ROW; visual surveys on any large watercourses in Project area
Bald Eagle	SC	Y	visual surveys along ROW and waterbodies for stick nests and foraging eagles
Bank Swallow	THR	Y	visual surveys of gravel pits and riverbanks in Project area
Barn Swallow	THR	Y	visual surveys of bridges, culverts, and structures in Project area
Black Ash	SC	Y	Visual surveys along ROW
Black Tern	SC	Y	visual surveys during day if suitable wetland habitat observed in Project area
Blanding's Turtle	THR	N	Project is outside known range, although there are observations of this species approximately 100 km to the east in Quebec near Macamic and to the south near Temiskaming Shores in Ontario. Opportunistic visual surveys will be conducted in potentially suitable habitat
Bobolink	THR	Y	point count surveys during morning as part of breeding bird surveys; visual surveys in suitable habitat
Canada Warbler	SC	Y	point count surveys during morning as part of breeding bird surveys
Chimney Swift	THR	N	suitable habitat unlikely along ROW
Common Nighthawk	SC	Y	evening visual and acoustic surveys in suitable habitat in Project areas; use of song recorders for non-road accessible locations
Eastern Cougar	END	N	landscape level issues; no targeted field surveys planned but will record any sign (e.g., tracks, pellets) if found
Eastern Small-footed Bat	END	Y	acoustic surveys during whip-poor-will monitoring; desktop review of hibernacula
Eastern Wood Pee-wee	SC	Y	point count surveys during morning as part of breeding bird surveys; visual surveys in suitable habitat
Eastern-Whip-poor-will	THR	Y	night acoustic surveys in suitable habitat in Project area; use of song recorders for non-road accessible locations
Flooded Jellyskin	THR	Y	visual surveys in Project area
Gypsy Cuckoo Bumble Bee	End	N	no targeted surveys but will photograph and collect if any observed during fieldwork
Silver/Northern Brook Lampreys	SC	N	no targeted surveys - desktop review
Lake Sturgeon	THR	N	no targeted surveys - desktop review
Little Brown Myotis	THR	Y	acoustic surveys during whip-poor-will monitoring; hibernacula surveys
Monarch Butterfly	SC	Y	field survey for larval host plant milkweed in suitable habitats in Project area; opportunistic visual surveys of adults

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Species	ESA Rank	Targeted Survey	Rationale / Proposed Approach
Northern Long-eared Bat	THR	Y	acoustic surveys during whip-poor-will monitoring; desktop review of hibernacula
Olive-sided Flycatcher	SC	Y	point count surveys during morning as part of breeding bird surveys
Rusty Blackbird	SC	Y	point count surveys during morning as part of breeding bird surveys; visual surveys in suitable habitat
Short-eared Owl	SC	P	visual surveys during day and night acoustic surveys if suitable habitat observed in Project area
Snapping Turtle	SC	Y	visual surveys if suitable habitat observed in Project area
Woodland Caribou	THR	N	The Project is south of the Kesagami Range, but any observations of this species during fieldwork will be documented
Yellow Rail	SC	P	night acoustic surveys if suitable habitat observed in Project area

Appendix 2. Deployments details for ultrasonic (MiniBat) and acoustic (Micro) autonomous recording units used to survey bats, birds, and anurans in the Project study area, July 2021.

Recorder ID	Date Installed	Time Installed	Date Removed	Round	Eastings	Northing	Habitat Notes
Micro 1	2021-07-02	13:45	2021-07-04	1	523425	5398778	At Ansonville HONI TS
Micro 1	2021-07-04	17:10	2021-07-06	2	551517	5361240	La Sb upland
Micro 1	2021-07-06	18:45	2021-07-09	3	559959	5345926	Sedge meadow marsh at creek at Wolf L.
Micro 2	2021-07-02	14:45	2021-07-04	1	523474	5392335	Adjacent to road on forest edge, Sb La swamp
Micro 2	2021-07-04	17:30	2021-07-06	2	554250	5359044	La Sw Bf upland 30m from hwy, upset Merlin nearby
Micro 2	2021-07-06	20:10	2021-07-09	3	563627	5341965	Lake with emergent vegetation around perimeter
Micro 3	2021-07-02	15:45	2021-07-04	1	523521	5390365	On rocky outcrop on ROW, La Sb adjacent
Micro 3	2021-07-04	17:50	2021-07-06	2	554825	5357860	La, Bw Pj upland, coarse substrate
Micro 3	2021-07-06	20:25	2021-07-09	3	563135	5342355	Exposed bedrock, Bracken fern, adjacent to young Spruce, Pj upland
Micro 4	2021-07-02	16:25	2021-07-04	1	523712	5388838	Adjacent habitat is La Bf upland
Micro 4	2021-07-04	18:40	2021-07-06	2	555282	5356029	La Sb Pj, 30m from hwy. Upset Merlin nearby.
Micro 4	2021-07-06	20:40	2021-07-09	3	562272	5341833	Young Pj with exposed bedrock outcrops.
Micro 5	2021-07-02	17:15	2021-07-04	1	524365	5387665	Meadow and river to W, mixedwood surrounding
Micro 5	2021-07-04	18:10	2021-07-06	2	555239	5356973	<100m from hwy La, Bw, Pj upland.
Micro 5	2021-07-06	20:45	2021-07-09	3	561800	3341950	Next to creek and clearcut wit snags. Herbicided cut.
Micro 6	2021-07-02	17:50	2021-07-04	1	526970	5384670	Wet meadow, Tall graminoids and vetch. BOBO observed.
Micro 6	2021-07-04	19:00	2021-07-06	2	555289	5354760	La Pj upland 50 m from hwy
Micro 6	2021-07-06	20:55	2021-07-09	3	561110	5342041	In herbicided clearcut. CONI heard calling and diving to the NW.
Micro 7	2021-07-02	18:15	2021-07-04	1	528573	5382567	In edge of farm field, Tall grass
Micro 7	2021-07-04	19:10	2021-07-06	2	555318	5353478	Pj stand, sandy soils
Micro 7	2021-07-06	21:03	2021-07-09	3	560115	5341991	Pj plantation 20-30' Tall with rock outcrops. CONI heard calling flying high above
Micro 8	2021-07-02	18:35	2021-07-04	1	535030	5377886	Riparian shrubby vegetation; Mixedwood on both sides (La, Po, Sw, Bf).
Micro 8	2021-07-04	19:20	2021-07-06	2	555340	5351156	Pj upland, sandy soils
Micro 8	2021-07-06	21:16	2021-07-09	3	559237	5341271	On edge of clearcut
Micro 9	2021-07-02	18:56	2021-07-04	1	538114	5376162	Mixedwood adjacent
Micro 9	2021-07-04	19:50	2021-07-06	2	555773	5350624	Sb, La swamp, waterbody to E w BOGU
Micro 9	2021-07-06	21:25	2021-07-09	3	558693	5340312	On edge of clearcut
Micro 10	2021-07-02	19:15	2021-07-04	1	539440	5375176	On edge of large pond, mixedwood adjacent
Micro 10	2021-07-04	20:00	2021-07-06	2	556642	5349660	La Sb mixedwood
Micro 10	2021-07-06	21:40	2021-07-09	3	556992	5340234	On rock barren between wetlands. CONI calling and displaying 200m N.
MiniBat 1	2021-07-02	14:45	2021-07-04	1	523474	5392335	Adjacent to road on forest edge, Sb La swamp on W side, fallow field on east

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Recorder ID	Date Installed	Time Installed	Date Removed	Round	Easting	Northing	Habitat Notes
MiniBat 1	2021-07-04	17:10	2021-07-06	2	551517	5361240	La Sb upland
MiniBat 1	2021-07-06	18:45	2021-07-09	3	559959	5345926	Sedge meadow marsh at creek at Wolf L.
MiniBat 3	2021-07-02	16:25	2021-07-04	1	523712	5388838	Adjacent habitat is La Bf upland
MiniBat 3	2021-07-04	18:10	2021-07-06	2	555239	5356973	<100m from hwy La, Bw, Pj upland.
MiniBat 3	2021-07-06	20:10	2021-07-09	3	563627	5341965	Lake with emergent vegetation around perimeter
MiniBat 4	2021-07-02	17:50	2021-07-04	1	526970	5384670	Wet meadow, Tall graminoids and vetch. BOBO observed.
MiniBat 4	2021-07-04	19:00	2021-07-06	2	555289	5354760	La Pj upland 50 m from hwy
MiniBat 4	2021-07-06	20:45	2021-07-09	3	561800	3341950	Next to creek and clearcut with snags. Herbicided cut.
MiniBat 5	2021-07-02	18:35	2021-07-04	1	535030	5377886	Riparian shrubby vegetation; Mixedwood on both sides (La, Po, Sw, Bf).
MiniBat 5	2021-07-04	19:50	2021-07-06	2	555773	5350624	Sb, La swamp, waterbody to E w BOGU
MiniBat 5	2021-07-06	21:16	2021-07-09	3	559237	5341271	On edge of clearcut

Appendix 3. Details of surveys conducted for crepuscular and nocturnal taxa, July 2021.

Survey ID	Date	Easting	Northing	Start Time	End Time	Observer ¹	Air Temp. (°C)	Cloud Cover (%)	Wind (Beauf.)
LS-174	2021-07-08	565671	5338701	20:13	20:18	LVHS	12.5	0	0
LS-175	2021-07-08	565839	5339605	20:23	20:28	LVHS	12.1	0	0
LS-176	2021-07-08	564744	5340212	20:31	10:36	LVHS	9.9	0	0
LS-176	2021-07-08	569111	5334578	21:50	21:57	AES	12.8	0	1
LS-177	2021-07-08	564052	5339661	20:40	20:45	LVHS	12.9	0	0
LS-178	2021-07-08	563310	5338917	10:48	10:53	LVHS	10.4	0	0
LS-179	2021-07-08	562822	5339797	10:57	11:02	LVHS	11.7	0	0
LS-180	2021-07-08	560787	5340495	11:11	11:06	LVHS	13.5	0	0
LS-181	2021-07-08	563105	5342353	11:25	11:30	LVHS	12.5	0	0
LS-182	2021-07-08	561986	5341879	11:35	11:40	LVHS	10.2	0	0
LS-183	2021-07-08	561088	5342021	11:43	11:48	LVHS	9.8	0	0
LS-187	2021-07-12	555406	5350323	21:35	21:41	AES	20.0	0	0
LS-188	2021-07-09	572221	5334040	21:05	21:10	LVHS	18.1	0	0
LS-188	2021-07-12	556823	5348912	21:45	21:50	AES	18.0	0	0
LS-189	2021-07-12	555845	5339788	22:30	22:35	AES	16.0	0	0
LS-190	2021-07-12	556607	5339996	22:43	22:48	AES	17.0	0	0
LS-191	2021-07-12	557995	5339577	22:56	23:01	AES	17.0	0	0
LS-192	2021-07-12	558574	5340674	23:08	23:13	AES	17.0	0	0
LS-193	2021-07-12	559406	5341526	23:20	23:25	AES	16.0	0	0
LS-194	2021-07-12	560783	5342176	23:36	23:40	AES	10.0	0	0
LS-196	2021-07-10	545444	5371138	21:34	21:39	LVHS	19.9	5	1
LS-197	2021-07-10	542896	5373248	21:58	22:03	LVHS	18.7	5	1
PC-001	2021-07-10	523468	5398830	21:24	21:29	AES	19.1	10	1
PC-001	2021-07-10	523468	5398830	21:50	21:56	AES	19.1	10	1
PC-004	2021-07-10	523487	5397320	22:00	22:06	AES	19.1	10	1
PC-008	2021-07-10	523478	5395340	22:11	22:17	AES	17.5	5	0
PC-011	2021-07-10	555331	5353720	22:21	22:25	AES	18.0	20	0
PC-014	2021-07-10	555664	5350783	22:38	22:43	AES	18.0	20	0
PC-020	2021-07-10	523699	5388810	23:09	23:14	AES	17.0	25	0
PC-021	2021-07-10	524362	5387710	23:37	23:42	AES	14.0	20	0
PC-025	2021-07-10	525794	5386460	23:48	23:53	AES	14.1	20	1
PC-027	2021-07-10	526327	5385610	23:47	23:52	LVHS	17.8	10	0
PC-030	2021-07-10	527140	5383600	23:35	23:40	LVHS	18.2	10	0
PC-034	2021-07-10	528784	5382420	23:25	23:30	LVHS	18.4	10	0
PC-037	2021-07-10	530006	5381560	23:15	23:20	LVHS	18.4	10	0
PC-041	2021-07-10	531680	5380380	23:03	23:08	LVHS	18.5	10	0
PC-044	2021-07-10	532910	5379520	22:54	22:59	LVHS	18.8	10	0
PC-051	2021-07-10	535034	5377880	22:40	22:45	LVHS	18.3	5	0

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Survey ID	Date	Easting	Northing	Start Time	End Time	Observer ¹	Air Temp. (°C)	Cloud Cover (%)	Wind (Beauf.)
PC-058	2021-07-10	538019	5376220	22:28	22:33	LVHS	19.2	5	0
PC-060	2021-07-10	539567	5375180	22:19	22:24	LVHS	19.6	5	0
PC-064	2021-07-10	541779	5375060	22:04	22:09	LVHS	18.2	5	0
PC-071	2021-07-10	544064	5372510	21:52	21:57	LVHS	21.9	5	1
PC-073	2021-07-10	544885	5371640	21:41	21:46	LVHS	18.9	5	1
PC-076	2021-07-10	546034	5370570	21:26	21:31	LVHS	20.0	5	1
PC-077	2021-07-11	548069	5368230	22:08	22:13	AES	16.0	0	0
PC-079	2021-07-11	549310	5367240	21:33	21:38	AES	18.0	0	0
PC-083	2021-07-11	549791	5365310	21:44	21:51	AES	17.0	0	0
PC-085	2021-07-11	549660	5364280	21:55	22:00	AES	17.0	0	0
PC-088	2021-07-11	550556	5362420	22:26	22:31	AES	14.0	0	0
PC-092	2021-07-11	551936	5361020	22:37	22:42	AES	14.0	0	0
PC-095	2021-07-11	553166	5360150	22:48	22:53	AES	13.0	0	0
PC-099	2021-07-11	554134	5359079	23:03	23:08	AES	13.0	0	0
PC-101	2021-07-11	554852	5357810	23:13	23:19	AES	15.0	0	0
PC-104	2021-07-11	555298	5356000	23:41	23:46	AES	13.0	0	0
PC-108	2021-07-11	555331	5353720	23:57	0:02	AES	14.0	0	0
PC-112	2021-07-11	555354	5351690	0:10	0:16	AES	12.0	0	0
PC-112	2021-07-11	555354	5351690	0:10	0:16	AES	12.0	0	0
PC-112	2021-07-11	555354	5351690	0:10	0:16	AES	12.0	0	0
PC-114	2021-07-12	555664	5350780	21:19	21:25	AES	21.0	0	0
PC-114	2021-07-09	555664	5350780	21:32	21:37	AES	16.2	10	0
PC-114	2021-07-12	555664	5350780	22:10	22:15	AES	18.0	0	0
PC-116	2021-07-12	529188	5382140	21:55	22:01	AES	18.0	0	0
PC-124	2021-07-09	559979	5345900	20:50	20:55	AES	19.5	10	0
PC-133	2021-07-10	563135	5342355	22:52	22:57	AES	18.0	30	1
PC-153	2021-07-09	569510	5334540	21:19	21:26	LVHS	15.8	1	1
PC-153	2021-07-08	569510	5334540	22:10	22:16	AES	12.5	0	0
PC-154	2021-07-08	570054	5334550	22:37	22:43	AES	12.5	0	0
PC-155	2021-07-08	570516	5334580	22:48	22:54	AES	12.5	0	0
PC-157	2021-07-08	571862	5334150	23:36	23:42	AES	13.0	0	0
PC-158	2021-07-08	571288	5334540	23:10	23:25	AES	13.0	0	0

¹ LVHS = Lindsay Spenceley; AES = Ashley Spenceley

Appendix 4. Details of morning point counts for surveying birds in the Project study area, July 2021.

Plot	Date	Observer ¹	Easting	Northing	Start Time	Air Temp (°C)	Cloud Cover (%)	Beauf.
LS-110	2021-07-03	LVHS	523496	5391480	7:21	16.3	5	2
LS-128	2021-07-06	LVHS	557893	5339928	6:52	18.2	95	2
LS-129	2021-07-06	LVHS	558720	5340087	7:00	18.3	100	2
LS-131	2021-07-06	LVHS	559348	5341640	7:20	18.3	100	2
LS-132	2021-07-06	LVHS	560124	5341999	7:30	18.4	100	2
LS-133	2021-07-06	LVHS	561278	5342060	7:39	18.0	100	2
LS-134	2021-07-06	LVHS	562272	5341831	7:50	17.7	100	2
LS-152	2021-07-07	LVHS	559228	5348928	7:40	7.1	10	2
LS-153	2021-07-07	LVHS	559685	5348070	7:52	7.4	10	2
LS-164	2021-07-08	LVHS	568581	5334066	7:42	10.0	15	1
LS-175	2021-07-10	LVHS	565839	5339605	7:35	14.5	20	0
LS-190	2021-07-10	LVHS	559225	5342740	6:00	12.0	0	0
LS-191	2021-07-10	LVHS	559791	5343236	6:15	13.3	1	0
LS-194	2021-07-10	LVHS	565874	5339144	7:50	15.5	20	0
PC-001	2021-07-03	LVHS	523468	5398830	5:17	10.2	5	1
PC-002	2021-07-03	LVHS	523473	5398330	5:27	10.3	5	1
PC-003	2021-07-03	LVHS	523479	5397830	5:35	10.4	5	1
PC-004	2021-07-03	LVHS	523487	5397320	5:42	9.9	5	0
PC-005	2021-07-03	LVHS	523486	5396810	5:50	9.7	5	0
PC-006	2021-07-03	LVHS	523487	5396310	5:57	10.5	5	0
PC-007	2021-07-03	LVHS	523488	5395820	6:13	12.3	5	0
PC-008	2021-07-03	LVHS	523478	5395340	6:23	13.6	5	0
PC-009	2021-07-03	LVHS	523484	5394850	6:32	13.4	1	0
PC-013	2021-07-03	LVHS	523494	5392840	7:05	15.5	1	2
PC-018	2021-07-03	LVHS	523517	5390110	7:40	16.3	5	2
PC-020	2021-07-03	LVHS	523699	5388810	8:00	18.0	5	2
PC-021	2021-07-03	AES	524362	5387710	5:06	11.1	5	0
PC-022	2021-07-03	AES	524848	5387600	5:45	12.4	5	0
PC-023	2021-07-03	AES	525250	5387310	5:55	12.8	5	0
PC-024	2021-07-03	AES	525527	5386890	6:12	12.4	5	1
PC-025	2021-07-03	AES	525794	5386460	6:19	13.5	5	1
PC-026	2021-07-03	AES	526058	5386030	6:28	14.1	5	0
PC-027	2021-07-03	AES	526327	5385610	6:38	14.3	0	0
PC-028	2021-07-03	AES	526743	5385230	6:52	14.5	5	2
PC-029	2021-07-03	AES	526977	5384100	7:04	17.5	5	1
PC-030	2021-07-03	AES	527140	5383600	7:18	16.2	5	1
PC-031	2021-07-03	AES	527550	5383290	7:29	16.5	5	2
PC-032	2021-07-03	AES	527969	5383000	7:38	22.2	5	1

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Plot	Date	Observer ¹	Easting	Northing	Start Time	Air Temp (°C)	Cloud Cover (%)	Beauf.
PC-033	2021-07-03	AES	528375	5382710	7:52	18.0	5	2
PC-034	2021-07-03	AES	528784	5382420	8:03	17.8	5	2
PC-035	2021-07-03	AES	529188	5382140	8:12	18.2	5	2
PC-036	2021-07-03	AES	529599	5381850	7:24	18.5	5	1
PC-037	2021-07-03	AES	530006	5381560	8:35	20.0	5	1
PC-038	2021-07-03	AES	530419	5381270	8:47	21.7	5	1
PC-039	2021-07-03	AES	530830	5380980	8:57	22.0	5	2
PC-040	2021-07-03	AES	531240	5380700	9:10	22.0	2	0
PC-041	2021-07-04	AES	531680	5380380	5:10	12.0	0	0
PC-042	2021-07-04	AES	532088	5380100	5:20	12.0	0	0
PC-043	2021-07-04	AES	532501	5379810	5:28	11.8	0	0
PC-044	2021-07-04	AES	532910	5379520	5:38	14.1	0	0
PC-045	2021-07-04	AES	533059	5379290	5:48	15.2	0	0
PC-046	2021-07-04	AES	533324	5379230	5:55	12.5	0	0
PC-047	2021-07-04	AES	533737	5378940	6:05	12.7	0	0
PC-048	2021-07-04	AES	534119	5378670	6:13	12.2	0	0
PC-049	2021-07-04	AES	534529	5378380	6:21	12.6	0	0
PC-050	2021-07-04	AES	534827	5378060	6:30	13.6	0	0
PC-051	2021-07-04	AES	535034	5377880	6:40	13.5	0	0
PC-052	2021-07-04	AES	535497	5377700	6:49	13.7	0	0
PC-053	2021-07-03	LVHS	535931	5377400	9:27	20.8	1	2
PC-054	2021-07-03	LVHS	536338	5377110	9:19	20.2	1	2
PC-055	2021-07-03	LVHS	536746	5376820	9:09	20.5	1	2
PC-056	2021-07-03	LVHS	537165	5376540	9:01	20.2	1	2
PC-057	2021-07-03	LVHS	537629	5376360	8:55	19.1	1	2
PC-058	2021-07-03	LVHS	538019	5376220	8:44	18.9	1	2
PC-059	2021-07-03	LVHS	538890	5375670	8:28	20.2	1	2
PC-060	2021-07-04	LVHS	539567	5375180	5:32	12.6	0	0
PC-061	2021-07-04	LVHS	540136	5375380	5:41	13.3	0	0
PC-062	2021-07-04	LVHS	541046	5375700	5:52	13.6	0	0
PC-063	2021-07-04	LVHS	541502	5375470	6:04	13.7	0	0
PC-064	2021-07-04	LVHS	541779	5375060	6:15	13.1	0	0
PC-065	2021-07-04	LVHS	542023	5374610	6:22	14.2	0	0
PC-066	2021-07-04	LVHS	542284	5374180	6:31	13.0	0	0
PC-067	2021-07-04	LVHS	542533	5373740	6:40	13.3	0	0
PC-068	2021-07-04	LVHS	542796	5373320	6:56	12.9	0	0
PC-069	2021-07-04	LVHS	543209	5373040	7:02	14.5	0	0
PC-070	2021-07-04	LVHS	543658	5372810	7:15	16.0	0	0
PC-071	2021-07-04	LVHS	544064	5372510	7:28	17.3	0	0
PC-072	2021-07-04	LVHS	544400	5372140	7:35	17.6	0	0

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Plot	Date	Observer ¹	Easting	Northing	Start Time	Air Temp (°C)	Cloud Cover (%)	Beauf.
PC-073	2021-07-04	LVHS	544885	5371640	7:43	18.0	0	1
PC-074	2021-07-04	LVHS	545248	5371290	7:54	18.6	0	1
PC-075	2021-07-04	LVHS	545619	5370950	8:00	18.8	0	1
PC-076	2021-07-04	LVHS	546034	5370570	8:07	19.0	0	2
PC-077	2021-07-04	LVHS	548069	5368230	8:27	20.1	0	2
PC-078	2021-07-04	LVHS	548514	5367830	8:40	20.9	0	2
PC-079	2021-07-04	LVHS	549310	5367240	8:50	22.0	1	2
PC-080	2021-07-04	LVHS	549558	5366800	8:57	22.3	1	3
PC-081	2021-07-04	LVHS	549550	5366290	9:04	22.4	1	2
PC-082	2021-07-04	LVHS	549661	5365790	9:12	22.7	1	2
PC-083	2021-07-04	LVHS	549791	5365310	9:20	23.9	1	2
PC-084	2021-07-04	AES	549659	5364780	9:12	23.5	0	2
PC-085	2021-07-04	AES	549660	5364280	9:01	23.2	0	2
PC-086	2021-07-04	AES	550231	5363350	7:18	17.5	0	0
PC-087	2021-07-04	AES	550428	5362900	8:25	19.0	0	0
PC-088	2021-07-04	AES	550556	5362420	7:34	19.2	0	0
PC-089	2021-07-04	AES	550785	5361980	7:44	19.3	0	0
PC-090	2021-07-04	AES	551114	5361600	7:52	19.7	0	0
PC-091	2021-07-04	AES	551499	5361270	8:00	21.0	0	0
PC-092	2021-07-04	AES	551936	5361020	8:10	20.6	0	0
PC-093	2021-07-04	AES	552348	5360730	8:20	21.0	0	3
PC-094	2021-07-04	AES	552763	5360460	8:28	20.8	0	3
PC-095	2021-07-04	AES	553166	5360150	9:35	21.0	0	3
PC-097	2021-07-04	AES	553560	5359860	8:45	21.0	0	3
PC-099a	2021-07-05	AES	554205	5359005	5:35	19.5	20	3
PC-101	2021-07-05	AES	554852	5357810	5:44	19.3	20	3
PC-102	2021-07-05	AES	555228	5357000	5:56	19.8	40	2
PC-103	2021-07-05	AES	555304	5356510	6:40	18.5	25	3
PC-104	2021-07-05	AES	555298	5356000	6:22	17.6	25	2
PC-105	2021-07-05	AES	555316	5355340	6:10	19.5	20	3
PC-106	2021-07-05	LVHS	555293	5354810	5:40	18.7	30	2
PC-107	2021-07-05	LVHS	555315	5354320	5:46	18.8	30	2
PC-108	2021-07-05	LVHS	555331	5353720	5:53	18.5	30	2
PC-109	2021-07-05	LVHS	555331	5353210	6:00	18.4	20	2
PC-110	2021-07-05	LVHS	555336	5352700	6:08	18.5	10	2
PC-111	2021-07-05	LVHS	555346	5352200	6:15	18.4	10	2
PC-112	2021-07-05	LVHS	555354	5351690	6:22	18.6	5	2
PC-113	2021-07-05	LVHS	555361	5351180	6:34	19.2	10	2
PC-114	2021-07-05	LVHS	555664	5350780	6:56	19.7	15	2
PC-115	2021-07-05	AES	556654	5349650	0:3	19.5	25	1

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Plot	Date	Observer ¹	Easting	Northing	Start Time	Air Temp (°C)	Cloud Cover (%)	Beauf.
PC-116	2021-07-07	LVHS	529188	5382140	5:35	5.0	10	1
PC-117a	2021-07-07	AES	557734	5348433	7:00	5.5	5	2
PC-118	2021-07-07	AES	557978	5348150	5:56	4.0	5	2
PC-119	2021-07-07	AES	558318	5347780	6:17	3.8	5	2
PC-120	2021-07-07	AES	558661	5347390	6:35	7.0	5	2
PC-122a	2021-07-07	AES	559442	5346507	8:24	7.4	10	3
PC-123a	2021-07-07	AES	559741	5346168	8:08	7.7	5	2
PC-124	2021-07-07	AES	559979	5345900	7:56	8.0	5	2
PC-125a	2021-07-07	AES	560228	5345620	9:01	11.0	5	2
PC-126	2021-07-07	AES	560704	5345070	9:25	11.5	5	2
PC-127	2021-07-07	AES	561034	5344700	9:43	10.2	5	2
PC-128a	2021-07-07	AES	561329	5344373	10:00	11.3	10	3
PC-130	2021-07-09	AES	562035	5343570	7:02	9.9	0	0
PC-131	2021-07-09	LVHS	562366	5343180	7:01	9.9	0	0
PC-133	2021-07-06	LVHS	563113	5342360	8:06	16.3	100	2
PC-134	2021-07-09	AES	563628	5341960	7:49	13.0	0	0
PC-136a	2021-07-09	LVHS	564219	5341160	8:02	12.3	0	1
PC-136b	2021-07-09	AES	564282	5341015	8:30	16.1	0	1
PC-137a	2021-07-09	LVHS	564449	5340720	8:17	13.0	0	1
PC-137b	2021-07-10	AES	565060	5339810	7:31	11.0	0	0
PC-138a	2021-07-10	LVHS	564755	5340210	7:14	13.1	10	0
PC-138b	2021-07-10	AES	565340	5339390	7:49	15.0	0	0
PC-139	2021-07-10	AES	565520	5339010	8:09	19.3	0	0
PC-140	2021-07-10	LVHS	565664	5338690	8:00	20.0	0	0
PC-141	2021-07-10	AES	565940	5338250	8:45	23.0	60	0
PC-142	2021-07-10	AES	566210	5337830	9:02	24.7	80	0
PC-143	2021-07-10	AES	566459	5337470	9:20	26.0	90	1
PC-145	2021-07-08	AES	566748	5337080	9:44	16.4	30	3
PC-146	2021-07-08	AES	567034	5336710	9:20	16.2	25	2
PC-147	2021-07-08	AES	567328	5336320	9:00	13.5	20	2
PC-148	2021-07-08	AES	567621	5335910	8:44	15.2	20	2
PC-149a	2021-07-08	LVHS	567949	5335480	8:11	11.0	15	1
PC-150	2021-07-08	AES	568210	5335140	8:00	12.5	10	1
PC-151	2021-07-08	AES	568530	5334730	7:39	13.1	10	1
PC-152	2021-07-08	AES	568993	5334550	7:25	12.8	15	1
PC-153	2021-07-08	AES	569510	5334540	6:56	6.7	20	0
PC-154	2021-07-08	AES	570054	5334550	6:33	6.7	20	1
PC-155	2021-07-08	AES	570516	5334580	6:20	8.2	15	1
PC-156	2021-07-08	AES	571006	5334640	6:10	6.8	25	0
PC-157	2021-07-08	AES	571862	5334150	5:48	11.5	30	0

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Plot	Date	Observer ¹	Easting	Northing	Start Time	Air Temp (°C)	Cloud Cover (%)	Beauf.
PC-158	2021-07-08	AES	571288	5334540	6:00	10.2	30	0
PC-182	2021-07-10	AES	558571	5341916	5:53	10.5	0	0
PC-200	2021-07-06	AES	560638	5341702	6:03	17.4	90	0
PC-201	2021-07-06	AES	560706	5340804	6:12	17.1	100	0
PC-202	2021-07-06	AES	560766	5340327	6:21	17.5	100	0
PC-203	2021-07-06	AES	561277	5339873	6:34	20.0	100	1
PC-204	2021-07-06	AES	561967	5339943	6:45	19.2	100	1
PC-205	2021-07-06	AES	562822	5339800	6:57	16.8	100	2
PC-206	2021-07-06	AES	563275	5339046	7:09	17.4	100	2
PC-207	2021-07-06	AES	563893	5339332	7:20	19.2	100	2
PC-208	2021-07-06	AES	564421	5339947	7:32	19.2	100	3
PC-209	2021-07-07	AES	556507	5349229	5:31	6.0	10	2
PC-210	2021-07-07	AES	560036	5346953	7:48	9.0	5	2
PC-211	2021-07-08	AES	569770	5334345	6:47	6.8	20	1

¹ LVHS = Lindsay Spenceley; AES = Ashley Spenceley

Appendix 5. Details of marsh bird surveys, July 2021.

Plot	Observer ¹	Date	Easting	Northing	Start Time	Wind (Beauf.)	Cloud Cover (%)	Air Temp. (°C)
LS-132	LVHS	2021-07-09	562701	5342803	8:40	0	10	11.6
LS-167	AES	2021-07-09	567363	5336290	21:10	0	10	18.0
LS-171	LVHS	2021-07-08	555495	5339725	20:58	1	1	15.5
LS-173	LVHS	2021-07-08	561967	5339945	21:44	0	10	16.5
LS-186	LVHS	2021-07-09	571293	5334544	20:39	1	1	21.5
PC-015	AES	2021-07-10	523500	5391834	21:05	0	10	23.0
PC-020	AES	2021-07-10	523699	5388811	20:45	0	10	24.0
PC-041	AES	2021-07-10	531680	5380380	20:20	0	30	24.0
PC-047	AES	2021-07-10	533737	5378940	20:00	0	40	24.0
PC-051	LVHS	2021-07-06	535034	5377880	8:13	1	20	16.0
PC-060	AES	2021-07-12	539567	5375180	19:30	0	0	27.0
PC-073	LVHS	2021-07-10	544885	5371640	21:45	0	10	18.0
PC-081	AES	2021-07-10	549550	5366290	19:20	0	20	24.0
PC-081	LVHS	2021-07-10	549550	5366290	20:33	0	10	22.0
PC-114	AES	2021-07-09	555664	5350780	21:25	0	10	16.2
PC-124	AES	2021-07-09	559979	5345900	20:30	0	10	19.5
PC-134	AES	2021-07-09	563628	5341960	7:49	0	0	13.0
PC-138b	AES	2021-07-10	565340	5339390	7:49	0	0	15.0
PC-149	LVHS	2021-07-08	567949	5335480	8:11	0	15	18.2
PC-153	LVHS	2021-07-09	569510	5334540	21:19	1	1	15.8
PC-202	AES	2021-07-10	560766	5340327	9:45	0	100	17.5
PC-204	AES	2021-07-10	561967	5339943	10:15	1	100	19.2

¹ LVHS = Lindsay Spenceley; AES = Ashley Spenceley

Appendix 6. Bats detected using hand-held Echo Meter Touch2 bat detector, July 2021.

Survey ID	Date	Easting	Northing	Start Time	Bats	# Bats
LS-182	2021-07-08	561986	5341879	11:35	Hoary Bat	1
LS-193	2021-07-12	559406	5341526	23:20	Silver-haired bat	1
LS-194	2021-07-12	560783	5342176	23:36	Hoary bat	1
PC-025	2021-07-10	525794	5386460	23:48	Silver-haired bat	1
PC-108	2021-07-11	555331	5353720	23:57	Hoary bat	1
PC-112	2021-07-11	555354	5351690	0:10	Little brown myotis	1
PC-112	2021-07-11	555354	5351690	0:10	Hoary bat	1
PC-153	2021-07-08	569510	5334540	22:10	Hoary bat	1
LS-189	2021-07-12	555845	5339788	22:30	Hoary bat	2
PC-011	2021-07-10	555331	5353720	22:21	Silver-haired bat	2
PC-021	2021-07-10	524362	5387710	23:37	Hoary bat	2
PC-099	2021-07-11	554134	5359079	23:03	Hoary bat	2
PC-104	2021-07-11	555298	5356000	23:41	Silver-haired bat	2
PC-112	2021-07-11	555354	5351690	0:10	Silver-haired bat	2
PC-154	2021-07-08	570054	5334550	22:37	Hoary bat	2
PC-020	2021-07-10	523699	5388810	23:09	Hoary bat	3
PC-114	2021-07-12	555664	5350780	22:10	Hoary bat	7
PC-101	2021-07-11	554852	5357810	23:13	Hoary bat	12
LS-178	2021-07-08	563310	5338917	10:48	Hoary Bat, Silver Bat	1 each

Appendix 7. Summary of bird species observed during 2021 fieldwork.

Common Name	Scientific Name	AOU ¹ Code	Total # of Point Counts ²	Total # of Individuals ³	Other Surveys ⁴
Alder Flycatcher	<i>Empidonax alnorum</i>	ALFL	21	22	
American Bittern	<i>Botaurus lentiginosus</i>	AMBI	1	1	
American Crow	<i>Corvus brachyrhynchos</i>	AMCR	79	145	
American Goldfinch	<i>Spinus tristis</i>	AMGO	37	53	
American Kestrel	<i>Falco sparverius</i>	AMKE	6	6	
American Redstart	<i>Setophaga ruticilla</i>	AMRE	57	76	
American Robin	<i>Turdus migratorius</i>	AMRO	89	123	
Bald Eagle	<i>Haliaeetus leucocephalus</i>	BAEA			Inc.
Barn Swallow	<i>Hirundo rustica</i>	BARS			SAR
Barred Owl	<i>Strix varia</i>	BADO			C/N
Belted Kingfisher	<i>Megaceryle alcyon</i>	BEKI	4	4	
Black-and-white Warbler	<i>Mniotilta varia</i>	BAWW	13	13	
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	BBCU	15	16	
Blackburnian Warbler	<i>Setophaga fusca</i>	BLBW	8	8	
Black-capped Chickadee	<i>Poecile atricapillus</i>	BCCH	56	93	
Black-throated Blue Warbler	<i>Setophaga caerulescens</i>	BTBW	9	9	
Black-throated Green Warbler	<i>Setophaga virens</i>	BTNW	2	2	
Blue Jay	<i>Cyanocitta cristata</i>	BLJA	6	9	
Blue-headed Vireo	<i>Vireo solitarius</i>	BHVI	8	8	
Bobolink	<i>Dolichonyx oryzivorus</i>	BOBO			SAR
Bonaparte's Gull	<i>Chroicocephalus philadelphia</i>	BOGU	1	1	
Brewer's Blackbird	<i>Euphagus cyanocephalus</i>	BRBL	1	1	
Broad-winged Hawk	<i>Buteo platypterus</i>	BWHA	4	4	
Brown Creeper	<i>Certhia americana</i>	BRCR	9	10	
Canada Goose	<i>Branta canadensis</i>	CANG	1	3	
Canada Warbler	<i>Cardellina canadensis</i>	CAWA	5	5	
Cedar Waxwing	<i>Bombycilla cedrorum</i>	CEDW	19	51	
Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>	CSWA	25	26	
Chimney Swift	<i>Chaetura pelagica</i>	CHSW	2	2	
Chipping Sparrow	<i>Spizella passerina</i>	CHSP	26	30	
Clay-colored Sparrow	<i>Spizella pallida</i>	CCSP	1	1	
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	CLSW	1	8	
Common Grackle	<i>Quiscalus quiscula</i>	COGR	19	66	
Common Loon	<i>Gavia immer</i>	COLO	11	13	
Common Merganser	<i>Mergus merganser</i>	COME	2	5	
Common Nighthawk	<i>Chordeiles minor</i>	CONI			C/N
Common Raven	<i>Corvus corax</i>	CORA	7	12	
Common Yellowthroat	<i>Geothlypis trichas</i>	COYE	92	130	
Dark-eyed Junco	<i>Junco hyemalis</i>	DEJU	5	5	

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Common Name	Scientific Name	AOU ¹ Code	Total # of Point Counts ²	Total # of Individuals ³	Other Surveys ⁴
Double-crested Cormorant	<i>Phalacrocorax auritus</i>	DCCO	1	3	
Downy Woodpecker	<i>Dryobates pubescens</i>	DOWO	4	4	
Eastern Bluebird	<i>Sialia sialis</i>	EABL	1	1	
Eastern Kingbird	<i>Tyrannus tyrannus</i>	EAKI	1	2	
Eastern Whip-poor-will	<i>Antrostomus vociferus</i>	EWPW			C/N
European Starling	<i>Sturnus vulgaris</i>	EUST	5	49	
Golden-crowned Kinglet	<i>Regulus satrapa</i>	GCKI	20	25	
Gray Catbird	<i>Dumetella carolinensis</i>	GRCA	1	1	
Great Horned Owl	<i>Bubo virginianus</i>	GHOW			C/N
Greater Yellowlegs	<i>Tringa melanoleuca</i>	GRYE			Inc.
Hairy Woodpecker	<i>Dryobates villosus</i>	HAWO	2	2	
Hermit Thrush	<i>Catharus guttatus</i>	HETH	36	49	
House Sparrow	<i>Passer domesticus</i>	HOSP	1	2	
Killdeer	<i>Charadrius vociferus</i>	KILL	1	2	
Least Flycatcher	<i>Empidonax minimus</i>	LEFL	22	27	
Lesser Scaup	<i>Aythya affinis</i>	LESC	1	3	
Lincoln's Sparrow	<i>Melospiza lincolni</i>	LISP	40	54	
Magnolia Warbler	<i>Setophaga magnolia</i>	MAWA	37	41	
Mallard	<i>Anas platyrhynchos</i>	MALL	1	1	
Merlin	<i>Falco columbarius</i>	MERL	4	4	
Mourning Dove	<i>Zenaidura macroura</i>	MODO	1	1	
Mourning Warbler	<i>Geothlypis philadelphia</i>	MOWA	24	25	
Nashville Warbler	<i>Oreothlypis ruficapilla</i>	NAWA	70	88	
Northern Flicker	<i>Colaptes auratus</i>	NOFL	19	20	
Northern Harrier	<i>Circus hudsonius</i>	NOHA	1	1	
Northern Parula	<i>Setophaga americana</i>	NOPA	14	14	
Olive-sided Flycatcher	<i>Contopus cooperi</i>	OSFL			Inc.
Ovenbird	<i>Seiurus aurocapilla</i>	OVEN	40	49	
Philadelphia Vireo	<i>Vireo philadelphicus</i>	PHVI	6	7	
Pileated Woodpecker	<i>Dryocopus pileatus</i>	PIWO	15	16	
Purple Finch	<i>Haemorhous purpureus</i>	PUFI	3	3	
Red-breasted Nuthatch	<i>Sitta canadensis</i>	RBNU	15	16	
Red-eyed Vireo	<i>Vireo olivaceus</i>	REVI	154	289	
Red-tailed Hawk	<i>Buteo jamaicensis</i>	RTHA			Inc.
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	RWBL	9	21	
Ring-billed Gull	<i>Larus delawarensis</i>	RBGU	2	3	
Rock Pigeon	<i>Columba livia</i>	ROPI	1	15	
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	RBGR	2	2	
Ruby-crowned Kinglet	<i>Regulus calendula</i>	RCKI	16	19	
Ruby-throated Hummingbird	<i>Archilochus colubris</i>	RTHU	1	1	
Ruffed Grouse	<i>Bonasa umbellus</i>	RUGR			Inc.

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Common Name	Scientific Name	AOU ¹ Code	Total # of Point Counts ²	Total # of Individuals ³	Other Surveys ⁴
Sandhill Crane	<i>Antigone canadensis</i>	SACR	8	12	
Savannah Sparrow	<i>Passerculus sandwichensis</i>	SAVS	33	49	
Song Sparrow	<i>Melospiza melodia</i>	SOSP	48	65	
Sora	<i>Porzana carolina</i>	SORA			MMP
Spotted Sandpiper	<i>Actitis macularius</i>	SPSA	1	1	
Spotted Sandpiper	<i>Actitis macularius</i>	SPSA			Inc.
Swainson's Thrush	<i>Catharus ustulatus</i>	SWTH	49	72	
Swamp Sparrow	<i>Melospiza georgiana</i>	SWSP	9	14	
Tennessee Warbler	<i>Oreothlypis peregrina</i>	TEWA	6	7	
Tree Swallow	<i>Tachycineta bicolor</i>	TRES	4	13	
Turkey Vulture	<i>Cathartes aura</i>	TUVU	1	1	
Veery	<i>Catharus fuscescens</i>	VEER	94	137	
Virginia Rail	<i>Rallus limicola</i>	VIRA			MMP
White-throated Sparrow	<i>Zonotrichia albicollis</i>	WTSP	153	263	
White-winged Crossbill	<i>Loxia leucoptera</i>	WWCR	9	119	
Wilson's Snipe	<i>Gallinago delicata</i>	WISN	8	8	
Winter Wren	<i>Troglodytes hiemalis</i>	WIWR	25	28	
Yellow Warbler	<i>Setophaga petechia</i>	YEWA	3	3	
Yellow-bellied Flycatcher	<i>Empidonax flaviventris</i>	YBFL	1	1	
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	YBSA	12	16	
Yellow-rumped Warbler	<i>Setophaga coronata</i>	YRWA	11	13	

¹ American Ornithological Union standard 4-letter codes

² total number of morning point counts on which the species was recorded

³ total number of individuals of the species observed on morning point counts

⁴ C/N = crepuscular/nocturnal surveys; Inc. = incidental observation; MMP = Marsh Monitoring Program surveys with call playback; SAR = targeted species at risk survey

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Appendix 8. Results of autonomous recording unit (ARU) deployments for crepuscular/nocturnal birds and anurans in the Project study area, July 2021. Empty cells indicate no target birds or anurans calling.

ARU#	Date	Start Time	Stop Time	Anurans	Birds	# of birds
1	2021-07-02	22:02	22:07			
1	2021-07-02	22:32	22:37			
1	2021-07-03	22:02	22:07			
1	2021-07-03	22:32	22:37			
1	2021-07-04	22:01	22:06			
1	2021-07-04	22:31	22:36			
1	2021-07-05	22:01	22:06			
1	2021-07-05	22:31	22:36			
1	2021-07-06	22:00	22:05			
1	2021-07-06	20:30	20:35			
1	2021-07-07	20:00	22:05			
1	2021-07-07	22:30	22:35	mink frog		
1	2021-07-08	21:59	22:05			
1	2021-07-08	22:29	22:34			
2	2021-07-02	22:02	22:07			
2	2021-07-02	22:32	22:37			
2	2021-07-03	22:02	22:07			
2	2021-07-03	22:32	22:37	spring peeper, American toad		
2	2021-07-04	22:01	22:06			
2	2021-07-04	22:31	22:36			
2	2021-07-05	22:01	22:06			
2	2021-07-05	22:31	22:36			
2	2021-07-06	22:00	22:05		common nighthawk	1
2	2021-07-06	20:30	20:35	spring peeper		
2	2021-07-07	20:00	22:05			
2	2021-07-07	22:30	22:35	spring peeper, mink frog	common nighthawk	1
2	2021-07-08	21:59	22:05		common nighthawk	1
2	2021-07-08	22:29	22:34	spring peeper, mink frog	common nighthawk	>1
3	2021-07-02	22:02	22:07			
3	2021-07-02	22:32	22:37			
3	2021-07-03	22:02	22:07			
3	2021-07-03	22:32	22:37			
3	2021-07-04	22:01	22:06			
3	2021-07-04	22:31	22:36			
3	2021-07-05	22:01	22:06			
3	2021-07-05	22:31	22:36			
3	2021-07-06	22:00	22:05			
3	2021-07-06	20:30	20:35	spring peeper		
3	2021-07-07	20:00	22:05			
3	2021-07-07	22:30	22:35	spring peeper		

A8K/A9K Transmission Line Refurbishment Project – 2021 Field Surveys Summary

ARU#	Date	Start Time	Stop Time	Anurans	Birds	# of birds
3	2021-07-08	21:59	22:05		common nighthawk	1
3	2021-07-08	22:29	22:34			
4	2021-07-02	22:02	22:07			
4	2021-07-02	22:32	22:37			
4	2021-07-03	22:02	22:07			
4	2021-07-03	22:32	22:37			
4	2021-07-04	22:01	22:06			
4	2021-07-04	22:31	22:36			
4	2021-07-05	22:01	22:06			
4	2021-07-05	22:31	22:36			
4	2021-07-06	22:00	22:05			
4	2021-07-06	20:30	20:35			
4	2021-07-07	20:00	22:05		common nighthawk	1
4	2021-07-07	22:30	22:35			
4	2021-07-08	21:59	22:05			
4	2021-07-08	22:29	22:34		common nighthawk	1
5	2021-07-02	22:02	22:07			
5	2021-07-02	22:32	22:37			
5	2021-07-03	22:02	22:07			
5	2021-07-03	22:32	22:37			
5	2021-07-04	22:01	22:06			
5	2021-07-04	22:31	22:36			
5	2021-07-05	22:01	22:06			
5	2021-07-05	22:31	22:36			
5	2021-07-06	22:00	22:05			
5	2021-07-06	20:30	20:35		common nighthawk	1
5	2021-07-07	20:00	22:05			
5	2021-07-07	22:30	22:35			
5	2021-07-08	21:59	22:05		common nighthawk	1
5	2021-07-08	22:29	22:34		common nighthawk	1
6	2021-07-02	22:02	22:07	spring peeper		
6	2021-07-02	22:32	22:37	spring peeper		
6	2021-07-03	22:02	22:07			
6	2021-07-03	22:32	22:37			
6	2021-07-04	22:01	22:06			
6	2021-07-04	22:31	22:36			
6	2021-07-05	22:01	22:06			
6	2021-07-05	22:31	22:36			
6	2021-07-06	22:00	22:05		common nighthawk	1
6	2021-07-06	20:30	20:35			
6	2021-07-07	20:00	22:05		common nighthawk	1
6	2021-07-07	22:30	22:35		common nighthawk	1
6	2021-07-08	21:59	22:05		common nighthawk	1
6	2021-07-08	22:29	22:34			
7	2021-07-02	18:32	18:37			
7	2021-07-02	19:02	19:07			
7	2021-07-02	19:32	19:37			

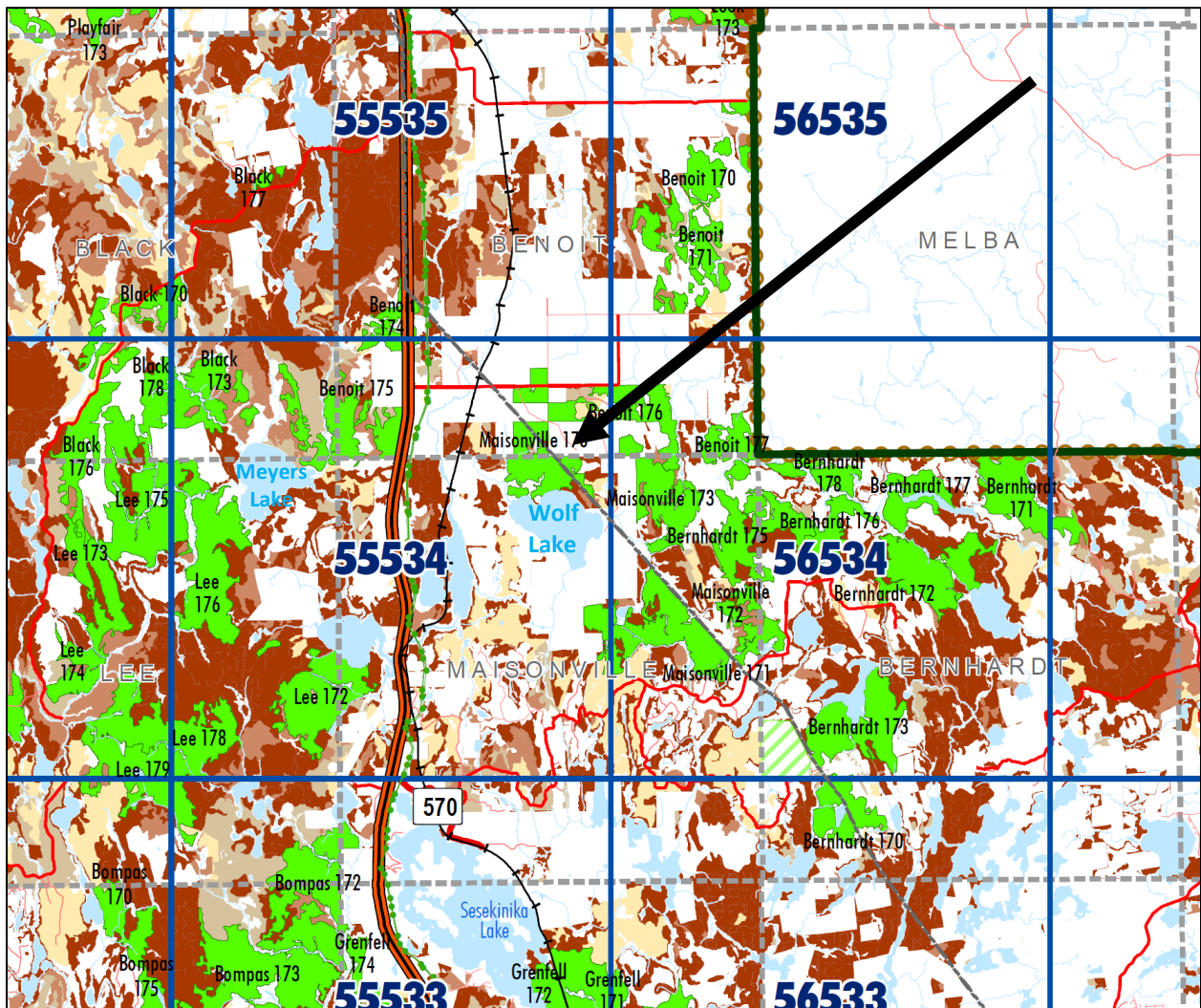
A8K/A9K Transmission Line Refurbishment Project – 2021 Field Surveys Summary

ARU#	Date	Start Time	Stop Time	Anurans	Birds	# of birds
7	2021-07-02	20:02	20:07			
7	2021-07-02	20:32	20:37			
7	2021-07-02	21:02	21:07			
7	2021-07-02	21:32	21:37			
7	2021-07-02	22:02	22:07			
7	2021-07-02	22:32	22:37			
7	2021-07-02	23:02	23:07			
7	2021-07-02	23:32	23:37			
7	2021-07-03	00:02	00:07			
7	2021-07-03	18:32	18:37			
7	2021-07-03	19:02	19:07			
7	2021-07-03	19:32	19:37			
7	2021-07-03	20:02	20:07			
7	2021-07-03	20:32	20:37			
7	2021-07-03	21:02	21:07			
7	2021-07-03	21:32	21:37			
7	2021-07-03	22:02	22:07			
7	2021-07-03	22:32	22:37			
7	2021-07-03	23:02	23:07			
7	2021-07-03	23:32	23:37			
7	2021-07-04	00:02	00:07			
7	2021-07-04	18:31	18:36			
7	2021-07-04	19:01	19:06			
7	2021-07-04	19:31	19:36			
7	2021-07-04	20:01	20:06			
7	2021-07-04	20:31	20:36			
7	2021-07-04	21:01	21:06			
7	2021-07-04	21:31	21:36			
7	2021-07-04	22:01	22:06			
7	2021-07-04	22:31	22:36			
7	2021-07-04	23:01	23:06			
7	2021-07-04	23:31	23:36			
7	2021-07-05	0:01	0:06			
7	2021-07-05	18:31	18:36			
7	2021-07-05	19:01	19:06			
7	2021-07-05	19:31	19:36			
7	2021-07-05	20:01	20:06			
7	2021-07-05	20:31	20:36			
7	2021-07-05	21:01	21:06			
7	2021-07-06	22:30	22:35			
7	2021-07-07	22:30	22:35			
7	2021-07-07	22:00	22:05		common nighthawk	>1
7	2021-07-07	23:00	23:05			
7	2021-07-08	22:29	22:34			
8	2021-07-02	22:02	22:07			
8	2021-07-02	22:32	22:37		sora	
8	2021-07-02	22:32	22:37	mink frog		

A8K/A9K Transmission Line Refurbishment Project – 2021 Field Surveys Summary

ARU#	Date	Start Time	Stop Time	Anurans	Birds	# of birds
8	2021-07-03	22:02	22:07			
8	2021-07-03	22:32	22:37			
8	2021-07-04	22:01	22:06			
8	2021-07-04	22:31	22:36			
8	2021-07-05	22:01	22:06			
8	2021-07-05	22:31	22:36			
8	2021-07-06	22:00	22:05			
8	2021-07-06	22:30	22:35		common nighthawk	>1
8	2021-07-07	22:00	22:05		common nighthawk	>1
8	2021-07-07	22:30	22:35			
8	2021-07-08	21:59	22:04		common nighthawk	
8	2021-07-08	22:31	22:36		common nighthawk	>2
9	2021-07-02	22:02	22:07	mink frog		
9	2021-07-02	22:32	22:37	mink frog		
9	2021-07-02	22:32	22:37	American Toad		
9	2021-07-03	22:02	22:07			
9	2021-07-03	22:32	22:37			
9	2021-07-04	22:01	22:06			
9	2021-07-04	22:31	22:36			
9	2021-07-05	22:01	22:06			
9	2021-07-05	22:31	22:36			
9	2021-07-06	22:00	22:05			
9	2021-07-06	22:30	22:35		common nighthawk	1
9	2021-07-07	22:00	22:05		common nighthawk	>2
9	2021-07-07	22:30	22:35			
9	2021-07-08	21:59	21:04		common nighthawk	1
9	2021-07-08	22:29	22:34		common nighthawk	>3
10	2021-07-02	22:02	22:07	American Toad		
10	2021-07-02	22:32	22:37	mink frog		
10	2021-07-03	22:02	22:07			
10	2021-07-03	22:32	22:37	mink frog		
10	2021-07-04	22:01	22:06			
10	2021-07-04	22:31	22:36			
10	2021-07-05	22:01	22:06			
10	2021-07-05	22:31	22:36			
10	2021-07-06	22:00	22:05			
10	2021-07-06	22:31	22:36			
10	2021-07-07	22:00	22:05			
10	2021-07-07	22:30	22:35	mink frog		
10	2021-07-07	22:30	22:35		eastern whip-poor-will?	
10	2021-07-07	11:00	11:05			
10	2021-07-07	11:30	11:35	mink frog		
10	2021-07-08	12:00	12:05	mink frog		
10	2021-07-08	21:59	22:04		common nighthawk	>1
10	2021-07-08	22:29	22:34	mink frog		

Appendix 9. Planned (bright green) or eligible (rust) areas for forest harvest near Bourkes (arrow) in the 2021-2031 Timiskaming Forest Management Plan



Appendix E Taykwa Tagamou Nation Technical Reviews



**REVIEW OF HYDRO ONE'S RESPONSES
TO THE TECHNICAL REVIEW OF HYDRO ONE NETWORK INC.'S
AQUATIC HABITAT CROSSING ASSESSMENT REPORT
FOR THE A8K/A9K TRANSMISSION LINE REFURBISHMENT PROJECT**

October 15, 2021

Shared Valued Solutions Ltd. (SVS) completed the "Technical Review of Hydro One Networks Inc.'s Aquatic Habitat Crossing Assessment Report for the A8K/A9K Transmission Line Refurbishment Project" (SVS Technical Review) on behalf of Taykwa Tagamou Nation (TTN) in September 2021. Their review identified 7 comments and 23 recommendations.

Hydro One Networks Inc. ("Hydro One") received a copy of the SVS Technical Review on September 23, 2021. Hydro One has reviewed and summarized the comments and recommendations of SVS and provided a summary of Hydro One's responses below.

Hydro One is committed to ongoing consultation with TTN throughout the duration of this project to ensure that TTN's interests are considered and appropriate mitigations are applied.

Table 1: Shared Value Solutions (SVS) Comments and Recommendations

Item No.	SVS Comment	SVS Recommendation	Hydro One Response (10/15/2021)
<p>1.</p> <p>Section 1.2 (Crossing Locations), pg. 1</p>	<p>HONI indicates that, if possible, warmwater waterbodies will be crossed using snow and ice bridges, whereas cool and cold-water waterbodies will be crossed with temporary clear-span bridges above the high-water mark. However, TTN notes that there are several watercourses where the morphology and bank stability may not allow for</p>	<p>1a. TTN requests that HONI clarify that the preferred crossing method will be based on site-specific conditions (e.g., stream morphology, bank stability, etc.), and not just thermal regime.</p>	<p>Hydro One can confirm that multiple site-specific variables are considered when selecting the preferred crossing method. While thermal regime is considered, bank stability / steepness of banks, stream morphology, riparian vegetation, substrate, bankfull width, velocity, etc. is all considered when selecting a crossing methodology.</p>

	<p>the use of the preferred crossing method. As an example, HONI describes crossing WC_230-231 A8K / 231-232 A9K as having banks that are 2 meters (m) in height, very unstable, and actively eroding. Because this this watercourse crossing was identified as having a warmwater thermal regime, the preferred crossing method would be to use a snow and ice bridge. However, due to the nature of the banks at this location, the watercourse may be better crossed using a temporary clear-span bridge with sufficient set back from the banks, to avoid further erosion and degradation of bank conditions.</p>	<p>1b. Based on the criteria of site-specific conditions and thermal regime, TTN requests that HONI include the preferred crossing method in Table 2 (Summary of Aquatic Habitat Existing Conditions).</p>	<p>Determination of the preferred crossing method for each water crossing is currently underway. This information can be provided once crossing methodology has been finalized. Currently, the water crossings that have been assessed are anticipated to be either avoided or the preferred crossing types include primarily snow bridges and timber mats, with a few potential CSP culverts. These crossing methodologies are subject to change based on correspondence with MNRF and DFO.</p>
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		<p>1c. TTN requests details on the types of equipment that will be using the watercourse crossings (e.g., ATVs, half-ton pick-up trucks, etc.) and the weight specifications for this equipment.</p>	<p>Equipment that may potentially utilize an installed watercourse crossing will include ATVs, argos, snowmobiles, light trucks, bucket trucks, cranes, back hoes, excavators, loaders, stringing equipment (pullers/tensioners). The weight specifications of this equipment will range from 550 kgs to 36,000 kgs.</p>
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		<p>1d. TTN requires further details regarding the proposed snow and ice bridges. Information that TTN requires includes:</p> <ul style="list-style-type: none"> I. Confirmation that HONI will construct approaches and crossings perpendicular to the watercourse wherever possible. II. Confirmation that ice and snow bridges using clean, compacted snow and ice to a sufficient depth to protect the banks of the watercourse. III. If logs and / or timber matting will be used to stabilize the approaches for snow and ice bridges, IV. Details on the erosion and sediment controls that will be installed prior to the construction of snow and ice bridges to prevent the entry of sediment and other deleterious substances into watercourses. V. Anticipate dates of use for snow and ice bridges. VI. Anticipated removal 	<ul style="list-style-type: none"> I. Confirmed. All water crossings will be installed perpendicular to the watercourse wherever possible. II. Confirmed. All ice crossings and snow bridges will use clean, compacted snow and ice to a sufficient depth to protect the banks of the watercourse. III. Confirmed. Timber matting may be used to stabilize snow bridges and ice crossings. Logs are not anticipated to be utilized for this purpose. IV. Erosion and sediment control measures will be site-specific based on the conditions of each watercourse. Hydro One will follow up with details. V. Snow bridges and ice crossings are typically installed when conditions allow (i.e., adequate snowfall and suitable temperatures). Once the snow bridges
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		<p>dates for snow and ice bridges.</p> <p>VII. Further details on how snow and ice bridges will be decommissioned (e.g., creating a v-notch in the centre of the ice bridge to allow melting from the centre and to also allow for fish passage during spring freshet).</p>	<p>and ice crossings are installed they are utilized throughout the winter months.</p> <p>VI. Snow bridges and ice crossings are removed prior to spring freshet and before the in-water timing window for the specific water crossing based on thermal regime; whichever date comes first.</p> <p>VII. Confirmed. When snow bridges and ice crossings are decommissioned, any timber matting that was utilized as stability within the crossing is removed and a v-notch is installed in the centre of the crossing.</p>
2.	HONI indicates that snow or ice bridges and temporary	2a. Prior to the ESR being issued, TTN requests that HONI confirm	Hydro One can confirm that we will be adhering to the DFO's interim

<p>Section 1.2 (Crossing Locations), pg. 1</p>	<p>clear-span bridges will be used to cross watercourses for the Project. The construction of snow and ice bridges will require HONI to work below the high-water mark, which is also likely to be required for the installation of temporary clear-span bridges. Despite this requirement to work below the high-water mark, HONI has not described any mitigation measures that will be used to prevent the death of fish, the harmful alteration, disruption or destruction of fish habitat, or the entry of deleterious substances in water. Considering that watercourse crossings are likely to pose the greatest risk to aquatic habitat as a result of the Project, TTN requires that HONI provide measures that will be used to prevent adverse effects to fish and fish habitat.</p>	<p>that they will be adhering to the DFO's interim Code of Practice for Temporary Stream Crossings and Measures to Protect Fish and Fish Habitat.</p>	<p>Code of Practice for Temporary Stream Crossings and Measures to Protect Fish and Fish Habitat.</p>
		<p>2b. TTN requires that HONI confirm if fording will be required at any of the watercourse crossings, particularly those that will be crossed during the open water season using a temporary</p>	<p>Determination of the preferred crossing method for each water crossing is currently underway. This information can be provided once crossing methodology has been finalized.</p>

		clear-span bridge.	
		<p>2c. If fording is required to install temporary clear-span bridges, TTN requires that this be limited to a one-time ford (once over and back) and that HONI provide the location of watercourses at which this will be required.</p> <p>2d. TTN requires that an Erosion and Sediment Control Plan and a Spill Prevention and Contingency Plan be developed for work occurring below the high-water mark.</p> <p>2e. TTN requires that HONI provide the reclamation measures and post-constructing monitoring that will be implemented at watercourse crossings, particularly where there is a requirement to clear riparian vegetation and / or modify the bank structure.</p>	<p>Acknowledged. Any fording would meet the DFO requirements of the <i>DFO Interim code of practice: temporary stream crossings, Section 2.2: Fords</i>, that dictates only one-time (over and back) crossings of a flowing watercourse.</p> <p>At this point in time, work occurring below the high-water mark will be minimal or none. However, Hydro One will follow up with this information.</p> <p>Reclamation and post-construction monitoring may differ depending on the type of crossing installed. Removal of riparian vegetation is anticipated to be minimal and modifying banks is not anticipated at this time.</p>

<p>3.</p> <p>Section 2 (Methods), pg. 4</p>	<p>HONI indicates that fish communities were assessed using a combination of minnow trapping, dip netting and electrofishing. The description of the fish community assessments is insufficient to determine the adequacy of the surveys. This information is necessary to determine if the techniques used by HONE are defensible, repeatable, or comparable through time. This will allow TTN to determine if post-construction monitoring results are comparable to baseline surveys, should post-construction monitoring be required to confirm no effects to fish and fish habitat have occurred as a result of the Project.</p>	<p>3a. TTN requests that HONI clarify if block nets were used for the single pass electrofishing surveys, the linear length of each site, and the number of individuals per electrofishing crew (e.g., one netter, two netters, or the unit operator alone acting as netter).</p>	<p>Block nets were not used. The electrofishing surveys were single-pass using a two-person crew (unit operator plus one netter). In general, sampling was completed in the area within the ROW unless otherwise indicated.</p>
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		<p>3b. TTN requires that HONI provide the amount of effort employed at each site (i.e., by set hours for minnow traps, shocking seconds for electrofishing, and time spent per unit of distance for dip netting), and that HONI calculate catch-per-unit-effort by gear type and species for each watercourse sampled.</p>	<p>Acknowledged. Hydro One will follow up with this information once received from our consultant.</p>
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		<p>3c. TTN requires that HONI provide the specific dates that watercourses were sampled, to allow for a better interpretation of the in-situ water quality measurements and fish community assessments.</p>	<p>Acknowledged. Hydro One will follow up with this information once received from our consultant.</p>
<p>4.</p> <p>Table 2 – Summary of Aquatic Habitat Existing Conditions</p>	<p>TTN notes that HONI has identified the thermal regime for all watercourses as unknown or unaddressed, and has only suggested a potential thermal regime based on field results. In addition, the field results for some watercourses appear to contradict the suggested thermal regime. For example, HONI has identified crossing WC_688-689 A8K /675-676 A9K as having a</p>	<p>4a. TTN requires that HONI describe the criteria used for identifying the thermal regime of watercourses.</p>	<p>Tulloch followed the <i>MTO/DFO/MNRF Protocol for protecting Fish and Fish Habitat on Provincial Transportation Undertakings</i> and the <i>MTO Environmental Guide for Fisheries</i>. Thermal regime was determined based on secondary source information (provincial / federal databases, where applicable), known thermal regimes / fish communities of adjacent waterbodies, or based on the fish</p>

	<p>warmwater thermal regime based on field results. However, the in-situ water temperatures for the upstream and downstream sections of this crossing location were 16.7°C and 17.0°C, respectively, which may suggest a cold or cool water thermal regime depending on the timing of sampling. While TTN does recognize that there is no single, accepted definition for thermal regimes, it is unclear what system HONI has used to determine thermal regimes for the A8K / A9K Refurbishment Project. This is a concern to TTN, as HONI notes that the crossing method will be determined based on the thermal regime of the water course.</p>	<p>4b. TTN requests that HONI estimate the summer maximum temperature under baseflow conditions using the methods described in Section 5, Module 1 of the Ontario Stream Assessment Protocol, where possible.</p> <p>4c. TTN suggests that HONI classify the thermal regime of watercourses using the nomogram developed by Chu et al. (2009) or, alternatively, the more simplified nomogram developed by Stoneman & Jones (1996).</p> <p>4d. TTN notes that Forest Management Plans include mapping of fisheries and wetland values, which includes the thermal regime of watercourses. TTN suggests that HONI cross-reference the results of their 2021 field surveys with mapping</p>	<p>community observed in the field.</p> <p>The primary purpose of determining the thermal regime of the proposed water crossings was to determine the appropriate in-water work window for the protection of fish and fish habitat. Identifying the fish community at or near the crossing is sufficient and a widely accepted method for this purpose. The requested methodology will not provide any additional useful information for this purpose.</p> <p>The primary purpose of determining the thermal regime of the proposed water crossings was to determine the appropriate in-water work window for the protection of fish and fish habitat. Identifying the fish community at or near the crossing is sufficient and a widely accepted method for this purpose. The requested methodology will not provide any additional useful information for this purpose.</p> <p>A query of provincial and federal data sets and a request for any additional information was submitted to MNRF prior to undertaking field surveys. Fisheries and wetland values information contained in Ontario Forest Management Plans is included in the</p>
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		<p>completed for the relevant FMPs, to confirm the thermal regime of watercourses crossed by the Project.</p> <p>4e. TTN requires that HONI provide mapping that illustrates the thermal regimes of watercourses crossed by the Project.</p>	<p>publicly available data sets.</p> <p>Hydro One can provide the mapping based on the thermal regimes that are indicated within the Report. We will follow up with this mapping once received from our consultant.</p>
<p>5.</p> <p>Table 2 – Summary of Aquatic Habitat Existing Conditions</p>	<p>TTN notes that in some instances, HONI visually confirmed fish habitat but did not conduct any fish sampling to confirm the presence of fishes (e.g., WC_688-689 A8K / 675-676 A9K). In other instances, fish were visually observed but no fish sampling was completed in order to confirm the species (e.g., WC_678-679 A8K / 665-666 A9K). This is concerning to TTN, especially for watercourses identified as coldwater, as the watercourse could support sensitive species and / or life stages (e.g., young-of-year brook trout) or the species present may help to confirm the thermal regime.</p>	<p>TTN requires that HONI complete fish collections where fish habitat was visually confirmed or where fish were visually observed but not sampled.</p>	<p>The primary purpose of identifying the fish community of the proposed water crossings was to determine sensitive fish habitat and the appropriate in-water work window for the protection of fish and fish habitat. Identifying the fish community at or near the crossing is sufficient and a widely accepted method for this purpose.</p>

<p>6.</p> <p>Table 2 – Summary of Aquatic Habitat Existing Conditions</p>	<p>At several watercourses, HONI indicated that dense vegetation and water levels may create seasonal barriers to fish passage. The result is that the presence of fish is unknown in several watercourses that will need to be crossed for the Project. This is concerning to TTN, as fish may be seasonally present in these watercourses.</p>	<p>6a. Where low water levels and dense vegetation were present during the 2021 sampling season, resulting in the presence of fish being unknown, TTN requires that HONI undertake supplemental surveys following the spring freshet to determine if high-water levels in these watercourses support a fish community.</p> <p>6b. TTN requires that HONI also provide the mean annual flows, minimum instream flow requirements, and bankfull flows for watercourses crossed by the Project.</p>	<p>Where an area was found to not contain fish but connected to offsite fish-bearing watercourses, and in the absence of fish community data, MNRF / DFO would typically impose a conservative in-water work timing window that covers both spring and fall spawning species. If in-water work is required and this conservative timing window cannot be adopted for these crossings, additional field visits may be warranted.</p> <p>Where an area was found to not contain fish and no connection to an offsite fish-bearing watercourse was identified, the assumption of not fish habitat an accepted approach.</p> <p>Bankfull measurements and flow data acquired from the Ontario Flow Assessment Tool (OFAT) are included in the Report. For the purposes of water crossings and permit applications, the mean annual flows and minimum instream flow requirements data is not required.</p>
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		<p>6c. TTN requires that HONI classify watercourses as being permanent, intermittent or ephemeral, and that this information be mapped out for the Project.</p>	<p>Hydro One will follow up with this information.</p>
<p>7. General Comment</p>	<p>In a previous technical review completed on the Project, TTN requested that HONI provide the types of existing structures, new structures anticipated, whether in-water work or fording is necessary, anticipated timing of crossings, and mitigation measures to be implemented for each watercourse crossing. While HONI has provided information on existing culverts and the structures they anticipate using, the other details request by TTN are not included.</p>	<p>7a. TTN requests that HONI clarify if there are any existing structures that can be used at the proposed crossing locations. 7b. TTN requires that HONI provide the anticipated timing of crossings for each watercourse. Based on the species present in each watercourse, TTN expects that the proposed timing of crossing adheres to the In-water Work Timing Window Guidelines (MNRF, 2013).</p>	<p>This is currently being verified. Hydro One will follow up with this information once it is available. It is anticipated and preferred that in-water works will respect the MNRF sensitive timing windows. If this is not possible approval through DFO will be required and sought.</p>



**REVIEW OF HYDRO ONE'S RESPONSES
TO THE TECHNICAL REVIEW OF HYDRO ONE'S
ESA MITIGATION PLAN FOR THE
A8K/A9K TRANSMISSION LINE REFURBISHMENT PROJECT**

October 14, 2021

Shared Valued Solutions Ltd. (SVS) completed the "Technical Review of Hydro One's ESA Mitigation Plan for the A8K/A9K Transmission Line refurbishment Project" (SVS Technical Review) on behalf of Taykwa Tagamou Nation (TTN) in August 2021. Their review identified 14 comments and 19 recommendations.

Hydro One Networks Inc. ("Hydro One") received a copy of the SVS Technical Review on August 11, 2021. Hydro One and TTN discussed the recommendations and Hydro One responses during the Technical Meeting held on August 18, 2021. Hydro One has reviewed and summarized the comments and recommendations of SVS and provided a summary of Hydro One's responses below.

Hydro One is committed to ongoing consultation with TTN throughout the duration of this project to ensure that TTN's interests are considered and appropriate mitigations are applied.

Table 1: Shared Value Solutions (SVS) Comments and Recommendations

Item No.	SVS Comment	SVS Recommendation	Hydro One Response (10/14/2021)
1.	<p>In Section 1.3 (Description of the Undertaking), HONI states that “The full scope of these activities is in the process of finalization, but certain actions include water crossings, brush clearing, rig matting, and crane pad installations...” (emphasis added). This statement indicates that the Project may require activities of which TTN is currently unaware and has not been consulted on to date. To ensure that TTN’s assessment of how the Project may impact our rights, claims, and interests is fulsome and complete, it is necessary that we are aware of, and informed on, all activities required to complete the Project. HONI does not note in the ESA Mitigation Plan how, or if, they will inform TTN of changes to Project activities, or how they will work with our community to update environmental management and monitoring plans to ensure the proposed mitigation measures are</p>	<p>TTN requests that HONI state in the ESA Mitigation Plan that if activities that were not previously identified are required to complete the Project, that HONI will notify TTN of these activities and work with our community to understand how these activities may impact our rights, claims and interests, and to update environmental management and monitoring plans, as required.</p>	<p>Hydro One commits to notifying TTN of any additional project activities or change in project, to engage with the community on any project changes and their impacts and update environmental management and monitoring plans, as required.</p>

<p>2.</p>	<p>protective of our rights and interests.</p>	<p>In Section 1.3 (Description of Undertaking), HONI states that the "Permitting process was initiated at the beginning of January. Agencies are being contacted to obtain necessary permits." (pg. 2). HONI does not identify what specific permits are being sought for the Project nor do they identify when TTN will be provided with these permits for their review. It is important that these be shared with TTN so that a review can be completed to ensure adequate environmental monitoring and mitigation measures are in place.</p>	<p>TTN requests that HONI note in the ESA Mitigation Plan that any environmental permit applications will be provided to TTN for advanced review and comment ahead of permit submission by HONI. As well, TTN requests that HONI provide at minimum of three weeks for TTN's review once TTN has been provided with a draft permit application.</p>	<p>HONI commits to notifying TTN prior to environmental permit applications being submitted so that a review and comment(s) can be provided ahead of the permit submission. However, HONI recommends noting this commitment in the project-specific Environmental Management Plan so that the contents of the ESA Mitigation Plan reflect the requirements of O.Reg 242/08. As discussed during previous technical meetings, there are some permit applications that are unable to be reviewed due to the format of the application submission, such as the MTO applications. At this point in time, water crossing applications are unable to be reviewed for 3 weeks</p>
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<p>due to long lead times and project schedule, however TTN has reviewed the Aquatic Habitat Assessment Report which summarizes details that will be included in the water crossing applications.</p>			
<p>Hydro One anticipates that TTN's Environmental Liaison will be notifying the Lands and Resources Department of observed species in the project areas within 3 months of the observation, however Hydro One can also provide notification, if required.</p>	<p>TTN requests that HONI notify our Lands and Resources Department (lands@raykwatagamou.com) of observations of threatened / endangered species within three months of the observation. We also request that HONI keep a record of special concern species observations and that TTN is also notified of these.</p>	<p>As described in Section 1.4 (Qualification for Registry), the Proponent is required to meet a number of regulatory conditions to receive exemption from Clause 9(1)a and subsection 10(1) of the ESA. One of these conditions is to report observations of threatened / endangered species to the MECP within three months of the observation. It is not noted if TTN will also be notified of observations of threatened / endangered species.</p>	<p>3.</p>
<p>Hydro One will follow up with a fulsome list of commitments made to TTN on the project to date following the submission of outstanding Hydro One responses to TTN's technical reviews.</p>	<p>TTN Requests that HONI include a list of the previous applicable commitments made to TTN on the Project (i.e. permit and approval reviews).</p>	<p>In Section 1.5 (Conditions of Registration), HONI notes the regulatory conditions that they are required to meet related to species at risk. HONI does not include a list of the commitments</p>	<p>4.</p>

	<p>made to TTN regarding species at risk for this Project. This is concerning to TTN, as the absence of these commitments within the ESA Mitigation Plan, means that they may not be followed through on.</p>		
<p>5.</p>	<p>In Section 2.0 (Species Included in This Plan) HONI indicates that the ESA Mitigation Plan was developed based on a desktop assessment that included the identification of water crossings, collection of known critical fish habitat and species at risk (SAR) from Fisheries and Oceans Canada (DFO) SAR Mapping tool, collection of thermal regime information from Aquatic Resource Area (ARA) data and a review Ontario GeoHub natural heritage features data within 1000m of the existing corridor / line access routes. Natural Heritage Information Centre (NHIC) data was also queried for SAR records within 1000m of the existing corridor. HONI does not indicate if the ESA Mitigation Plan will be updated upon the completion of TTN's Traditional Knowledge and Land Use Study.</p>	<p>TTN requires that HONI commit to updating the ESA Mitigation Plan, in addition to all other environmental management and monitoring plans for the Project, upon completion of our TKLUS for the Project. This is necessary to ensure that the proposed mitigation measures are sufficiently protective of our rights and interests.</p>	<p>Hydro One will update the ESA Mitigation Plan as necessary upon the completion of the TKLUS, however as discussed, these changes will notably be made in the Environmental Management Plan.</p>

<p>6.</p>	<p>In Section 2.0 (Species Included in This Plan) HONI indicates that no field investigations have been performed to confirm species at risk presence or absence. However, in responses received from HONI on TTN's technical review of the class EA documents for the Project, HONI noted that a "SAR field observation study" was completed. This contradiction is concerning to TTN as it appears that not all available data was used in drafting this ESA Mitigation Plan.</p>	<p>6a. TTN requests that HONI share the results of the SAR field observation study and confirm whether these results were used to inform to ESA Mitigation Plan. TTN expects that the SAR observation study will include data collection efforts from multiple seasons and multiple years to ensure that an adequate assessment of species at risk occurrence has been performed.</p> <p>6b. TTN requests that should any future field studies be required for the Project, that TTN is provided at minimum three weeks advanced notice of the study commencing.</p> <p>6c. TTN requests that HONI provide a schedule for upcoming field studies for the Project.</p>	<p>Hydro One has shared the results of the Natural Environmental Study Report with TTN and has received their review of that report. Hydro One will update the ESA Mitigation Plan if there are findings that would impact the Plan, such as the addition of Bobolink. As previously discussed, any applicable changes will also be included in the Environmental Management Plan.</p> <p>No additional studies are planned for the project, however, in the case that additional field studies are warranted, Hydro One commits to notifying TTN and providing three weeks-notice.</p> <p>Hydro One provided an update and schedule regarding upcoming field studies during the Technical Meeting held on August 17, 2021.</p>
<p>7.</p>	<p>In Section 2.0 (Species</p>	<p>7a. HONI must commit to</p>	<p>As discussed during the Technical</p>

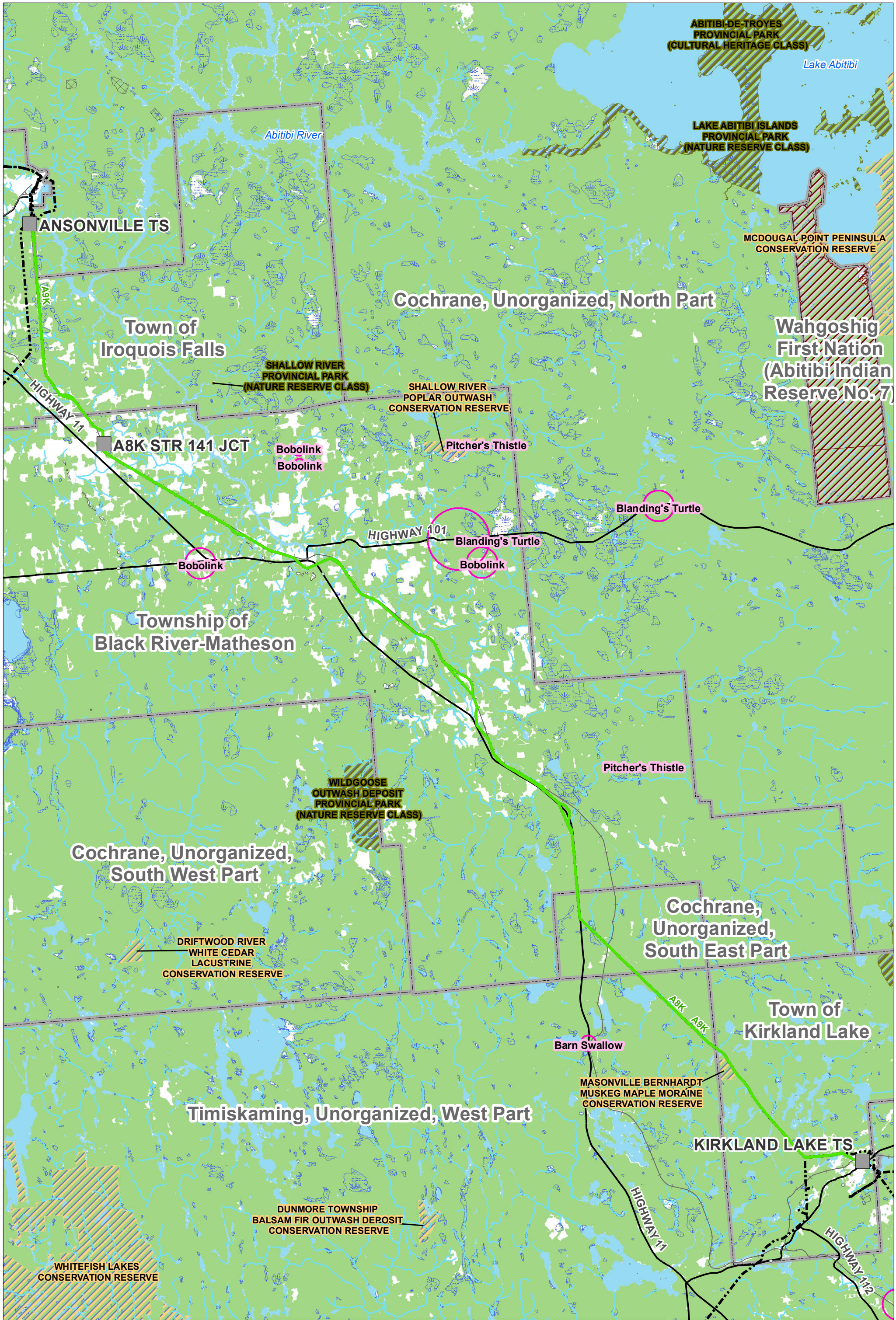
	<p>Included in This Plan) HONI indicates that Eastern Whip-poor-will, Little Brown Myotis, Northern Long-eared Bat and Lake Sturgeon were identified as potentially impacted by this Project. However, in HONI's "HYDRO ONE – A8K/A9K Transmission Refurbishment Project TTN Information Package" HONI states that Pitcher's Thistle, Barn Swallow, Eastern Whip-poor-will, Bobolink, and Blanding's Turtle have been observed in the vicinity of the Project area. This discrepancy is concerning to TTN as it appears that not all species at risk that have been observed within the vicinity of the Project area are accounted for within the ESA Mitigation Plan.</p> <p>As well, on June 30, 2021 HONI noted that fieldwork was occurring as part of the Environmental Assessment for the Project and that afternoon SAR surveys would target Bobolink, swallows, Blanding's Turtle, Monarch and Yellow-banded Bumblebee, and</p>	<p>including Pitcher's Thistle, Barn Swallow, Bobolink, and Blanding's Turtle within the ESA Mitigation Plan.</p>	<p>Meeting on August 17, 2021, additional species identified in the Info Package were observed within a larger project area. The species included in the ESA Mitigation Plan are the species that have the potential to be impacted by the project within the direct project footprint.</p>
	<p>7b. HONI must confirm whether the results of the fieldwork mentioned in the June 30, 2021 e-mail were used in the creation of the ESA Mitigation Plan. TTN request that if the results of these field investigations were not used in the creation of the ESA Mitigation Plan, that HONI will commit to updating the plan and sharing the updated version with TTN for their review and comment. As well, TTN requests that HONI share the results of the fieldwork mentioned in the June 30, 2021 e-mail.</p>	<p>7c. TTN requests that HONI provide SAR mapping of the transmission corridor that identifies observation locations of the species at risk and their associated habitat within and/or in the vicinity of the Project area.</p>	<p>The fieldwork associated with the Natural Environment Study Report and the drafted ESA Mitigation Plan were created independently. However, the ESA Mitigation Plan is being revised and updated based on the findings of the fieldwork.</p>
			<p>A SAR overview map outlining observations within the greater project area is provided in Appendix A.</p> <p>Additional resources that were used to map SAR within the project area for the ESA Mitigation Plan include:</p>

	<p>nocturnal surveys would include bats, whip-poor-wills, and Common Nighthawk. It is not clear from the ESA Mitigation Plan whether the results of these surveys informed the content that was presented.</p> <p>As well, HONI has not provided mapping of SAR locations or habitat within the ESA Mitigation Plan.</p>		<ul style="list-style-type: none"> • MNRF NHIC Make-a-map • MNRF Species at Risk List • Ontario Breeding Bird Atlas • Ontario Reptile and Amphibians Atlas • iNaturalist • eBird • Global Biodiversity Information Facility • Ontario Geohub
<p>8.</p>	<p>In Section 2.2 (Endangered Bats), HONI notes that for Myotis bats the “Forested areas abutting the corridor could be suitable for day roosting and foraging.” (pg 7). HONI notes that potential impacts of the Project include night work interfering with foraging ability along the corridor. HONI does not identify the impact of noise disturbance from brushing or construction on day-roosting bats.</p>	<p>TTN requests that HONI include impacts of noise disturbance on day roosting bats in the abutting forest in the list of known or potential impacts. This is necessary to ensure that proposed mitigation measures are sufficient to address impacts on the species.</p>	<p>Hydro One and associated consultants are under the impression that this update is not required because day-roosting habitat is plentiful on the landscape and is not a limiting factor in the species’ ecology. Myotis bats regularly day-roost in urban and suburban habitats so they are moderately tolerant to human activity. Any impacts of noise are expected to be minor and temporary.</p>
<p>9.</p>	<p>Section 3.2 (Eastern Whip-poor-will) provides avoidance strategies intended to minimize impacts and threats to Eastern Whip-poor-will and its habitat. In TTN’s review of the IAMGOLD Transmission Line</p>	<p>TTN requests that HONI commit to completing nest sweeps within 24 hours of commencing activities that involve clearing vegetation during the restricted timing window (May 17 to July 26).</p>	<p>Hydro One typically performs nest sweeps within 7 days of vegetation clearing within restricted timing windows as these are industry best practices in Ontario and other provinces. We can discuss this topic further if necessary.</p>

	<p>Environmental Protection Plan and Environmental Management Plan, we requested that HONI commit to completing nest sweeps within 24-hours of commencing construction activities that involve clearing vegetation during restricted timing windows, to which HONI committed. This request was made to reduce the potential for birds to reestablish nest sites in the interim period. It is unclear if HONI will also adhere to the same standard for nest sweeps required for the A8K/A9K Transmission Line.</p>		
<p>10.</p>	<p>Section 3.2 (Eastern Whip-poor-will), HONI notes that they will notify the MECP if Eastern Whip-poor-will nests, young or eggs are required to be relocated, and if injured or deceased individuals are found. HONI does not commit to notifying TTN of these occurrences.</p>	<p>TTN requests that HONI commit to notifying TTN and MECP if Eastern Whip-poor-will nests, young or eggs are required to be relocated, and if injured or deceased individuals are found. This will provide TTN with greater confidence that they are up to date on potential impacts of the Project to species at risk.</p>	<p>Hydro One anticipates that TTN's Environmental Liaison will be notifying TTN if Eastern Whip-poor-will nests, young or eggs are required to be relocated, and if injured or deceased individuals are found. However Hydro One will notify TTN and MECP, as required.</p>
<p>11.</p>	<p>Section 3.3 (Endangered Myotis Bats), HONI notes that they will notify the MECP if Myotis Bat adults are required to be relocated, and if injured or deceased individuals are found.</p>	<p>TTN requests that HONI commit to notifying TTN and MECP if Myotis Bat adults are required to be relocated, and if injured or deceased individuals are found. This will provide TTN with greater</p>	<p>Hydro One anticipates that TTN's Environmental Liaison will be notifying TTN if Myotis Bat adults are required to be relocated, and if injured or deceased individuals are found. However Hydro One will</p>

<p>12.</p>	<p>HONI does not commit to notifying TTN of these occurrences.</p> <p>Section 3.3 (Endangered Myotis Bats), HONI notes that if large cavity trees "...must be removed or altered from May through July, it should be inspected by a qualified environmental professional for the presence of bat roosting." (pg. 13). HONI does not provide details of this inspection. This is concerning to TTN as improper inspection could mean that a potential maternity roost could be impacted.</p>	<p>confidence that they are up to date on potential impacts of the Project to species at risk.</p> <p>TTN requests that HONI provide details of the methods employed by the qualified environmental professional to inspect the tree (e.g. visual inspect of all holes, cracks and sloughing bark present on the tree).</p>	<p>notify TTN and MECP, as required.</p> <p>A detailed methodology of this type is not within the scope of the ESA Mitigation Plan, however, Hydro One can share some additional details below:</p> <p>If a tree is identified as suitable for bat maternity roosting and the tree must be felled during the bat active season, then 'Bat Exit Surveys' are performed. Environmental professionals observe the tree for 90 minutes at sunset (and during appropriate weather conditions) for two nights in June. The survey is visual (to witness bats emerging from the tree cavities) and acoustic (to identify the bats to species). Acoustic equipment is ultrasonic in order to capture and depict spectrograms of the high-frequency bat calls.</p>
<p>13.</p>	<p>Section 3.4 (Lake Sturgeon) describes avoidance strategies that have been prepared to minimize impacts and threats to Lake Sturgeon and its habitat. In our review of the Class EA documents for the A8K/A9K Transmission Line, HONI responded that a site-specific</p>	<p>13a. TTN requests that HONI commit to developing a site-specific mitigation plan where work within 30 meters of the high-water mark is required, and that the ESA Mitigation Plan be updated to reflect this commitment. Site-specific mitigation plans should include a</p>	<p>Hydro One will develop a project-specific mitigation plan to be incorporated into the Environmental Management Plan for works within 30 meters of the high-water mark.</p>

	<p>mitigation plan would be developed where work within 30 meters of the high-water mark is required. This is not reflected in the avoidance strategies for lake sturgeon, though Tulloch has recommended that a site-specific erosion and sediment control plan be developed where work within 30 meters of the high-water mark is required.</p>	<p>description of planned activities / crossings to occur, erosion and sediment control measures, spill prevention and contingency measures, the proposed reclamation plan for the site, and any follow-up monitoring requirements.</p> <p>13b. TTN requests that HONI notify our Lands and Resources Department (lands@raykwatagamu.com) of spills (MECP reportable spills and non-reportable spills) that occur within the Project Area.</p>	<p>Hydro One anticipates that TTN's Environmental Liaison will be notifying TTN's Land and Resources Department of any spills that occur within the project area, however Hydro One can notify the Lands and Resources Department, as required.</p>
<p>14.</p>	<p>Section 5.2 (The Contractor) indicates that it is the responsibility of the Contractor to maintain records of actions taken to accomplish the avoidances and mitigations contained within the ESA Mitigation Plan. It is not noted if TTN will be provided with these records, to demonstrate adherence to the ESA Mitigation Plan.</p>	<p>TTN requests that HONI commit to regularly (e.g., every three months) providing our Lands and Resources Department with records of actions taken to accomplish the avoidances and mitigations contained within the ESA Mitigation Plan, including identification of avoidances and mitigations that were deemed inappropriate, inadequate or ineffective, and any corrective actions taken.</p>	<p>Hydro One anticipates that TTN's Environmental Liaison will regularly notify TTN of records of actions taken to accomplish the avoidances and mitigations contained with the ESA Mitigation Plan.</p>



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	Station or Junction		Highway		Provincial Park		Watercourse
	115 kV Transmission Line (Circuit A8K/A9K)		Railway		Conservation Reserve		Waterbody
	Other Transmission Line		First Nation Reserve		Species at Risk Area		Wetland
	Municipal Boundary		Pit or Quarry		Wooded Area		

A8K/A9K Transmission Line Refurbishment Project: Species at Risk Map

1:215,000

0 2.5 5 km



**REVIEW OF HYDRO ONE'S RESPONSES
TO THE TECHNICAL REVIEW OF HYDRO ONE'S
NATURAL ENVIRONMENT STUDY REPORT
FOR THE A8K/A9K TRANSMISSION LINE REFURBISHMENT PROJECT**

October 14, 2021

Shared Valued Solutions Ltd. (SVS) completed the "Technical Review of Hydro One's Natural Environment Study Report for the A8K/A9K Transmission Line refurbishment Project" (SVS Technical Review) on behalf of Taykwa Tagamou Nation (TTN) in September 2021. Their review identified 9 comments and 11 recommendations.

Hydro One Networks Inc. ("Hydro One") received a copy of the SVS Technical Review on September 15, 2021. Hydro One has reviewed and summarized the comments and recommendations of SVS and provided a summary of Hydro One's responses below.

Hydro One is committed to ongoing consultation with TTN throughout the duration of this project to ensure that TTN's interests are considered and appropriate mitigations are applied.

Table 1: Shared Value Solutions (SVS) Comments and Recommendations

Item No.	SVS Comment	SVS Recommendation	Hydro One Response (10/14/2021)
<p>1. NESR, Section 2.2 (Field Studies, pg. 1)</p>	<p>HONI states that “Results of the desktop analysis were used to guide 2021 field surveys to maximize survey efficiency during the remainder of the breeding bird season. Surveys were conducted July 2-July 10 by a two-person field crew (L. Spenceley, A. Spenceley), with logistic and survey design support from R. Foster.” (pg. 1)</p> <p>HONI does not provide rationale as to why surveys were restricted to one field season as opposed to multiple field seasons. As well, HONI provides no rationale as to why they used a restrictive field season July 2 to July 10th, 2021, which are not ideal timeframes to conduct a fulsome breeding bird survey.</p> <p>This is concerning to TTN as restricted single season baseline surveys will not provide as fulsome data as</p>	<p>1a. TTN recommends that HONI undertake multi-season confirmatory studies to confirm and accurately characterize environmental conditions and collect fulsome baseline data. These confirmatory studies should adhere to appropriate protocols provided by agencies / other organizations (e.g. Environment and Climate Change Canada, Ministry of Northern Development, Mines, Natural Resources and Forestry, Ontario Breeding Bird Atlas). TTN further recommend that if confirmatory studies identify sensitive environmental features (e.g. Species at Risk), that HONI use an adaptive management approach to update and incorporate this new information into existing plans (e.g. Environmental Protection Plan). Should this adaptive management approach be used HONI must consult with TTN on proposed updates.</p>	<p>While the field program did not span the full breeding bird season, surveys for breeding birds and other species (i.e. turtles) were completed within appropriate timing windows as per the approved protocols. Due to the project construction timing, additional surveys will not be possible. However, as discussed during the Technical Meeting on October 6, 2021, where appropriate, habitats have been considered SAR habitat or candidate significant wildlife habitat and appropriate measures to protect them have been established and will be implemented through the Environmental Study Report and Environmental Monitoring Plan. As a result, further field work would not likely result in a change to the effects assessment or mitigation plan as it is currently presented.</p>

	<p>multi-season field surveys conducted during the breadth of ideal survey timing. Partial data of baseline conditions present within the Project Area could lead to adverse impacts to the natural environment which TTN community members rely upon to practice their rights and interests.</p>	<p>1b. TTN requests that HONI provide rationale as to why baseline surveys were restricted to July 2 to July 10, 2021 rather than the full breadth of the breeding bird season June 1 to July 10, ideally with multiple survey visits.</p>	<p>While the field program did not span the full breeding bird season, surveys for breeding birds and other species (i.e. turtles) were completed within appropriate timing windows as per the approved protocols.</p>
<p>2.</p>	<p>HONI states that "Surveys for marsh birds generally followed</p>	<p>TTN requests that HONI provide rationale as to why their marsh</p>	<p>Breeding bird surveys were done within the breeding bird timing</p>

<p>NESR, Section 2.4.3 (Marsh Birds, pg. 7)</p>	<p>the Marsh Monitoring Program (MMP) protocol (Environment Canada) to the degree practical recognizing the lateness of the season, limitations of a single visit, and differing purpose of the surveys (impact assessment vs. long-term monitoring)." (pg. 7). HONI did not provide sufficient rationale as to why they could not commit to adhering to the full methodology of the MMP, nor did they provide rationale as to how their simplified version of the MMP was appropriate.</p> <p>This is concerning to TTN as inadequate field methods for marsh birds could lead to adverse impacts to marsh ecosystems, which provide TTN community members rely upon to practice their rights and interests.</p>	<p>bird monitoring methods (i.e. short field season, single site visit, late season) are sufficient to adequately assess the presence or absence of marsh birds, including SAR.</p>	<p>window to identify the potential for birds within the Study Area, generally following the Marsh Monitoring Protocol. Marsh birds were also captured (where present) using acoustic monitoring equipment. In addition to this, habitat assessments were conducted to determine whether there was the potential for significant wildlife habitat or habitat for SAR along the Project Study Area. Where habitat was possible, mitigation measures were incorporated to address potential impacts. It should also be noted that there were few wetlands (13% total area) within the Study Area due to the existing nature of the corridor (previously cleared; open, herbaceous or low woody species.</p>
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<p>3. NESR, Section 2.4.4 (Targeted SAR Surveys, pg. 8)</p>	<p>HONI states that "OMNR's (2011) standard protocol for bobolink recommends 10-minute point counts conducted between dawn and 9:00 am, located at 250 m apart with three separate sets of point count surveys are recommended between the last week of May and the first week of July with each survey separated by a week or more from previous surveys. Due to the lateness of the season, this protocol could not be followed." (pg. 8). HONI does not provide a rationale as to why they could not commit to adhering to the full OMNR methodology, nor did they provide rationale as to how their simplified version these methods were appropriate.</p> <p>This is concerning to TTN as inadequate field methods for important grassland birds like Bobolink (<i>Dolichonyx oryzivorus</i>) could lead to adverse impacts to grassland ecosystems, which provide TTN community members rely upon to practice their rights and</p>	<p>TTN requests that HONI provide rationale as to why their methods for surveying for Bobolink (i.e. short field season, single site visit, late season) are sufficient to adequately assess the presence or absence of Bobolink.</p>	<p>Given the timing of project initiation, the three required surveys for Bobolink could not be completed, however targeted surveys were completed in July, in addition to acoustic surveys to capture any Bobolink near potentially suitable breeding sites. Provided Bobolink were observed in suitable breeding locations, mitigation measures for Bobolink have/ will be incorporated into the ESR and EMP. The ESA Mitigation Plan is also being updated to reflect the presence of Bobolink within the project area and ensure appropriate mitigation measures are adhered to.</p>
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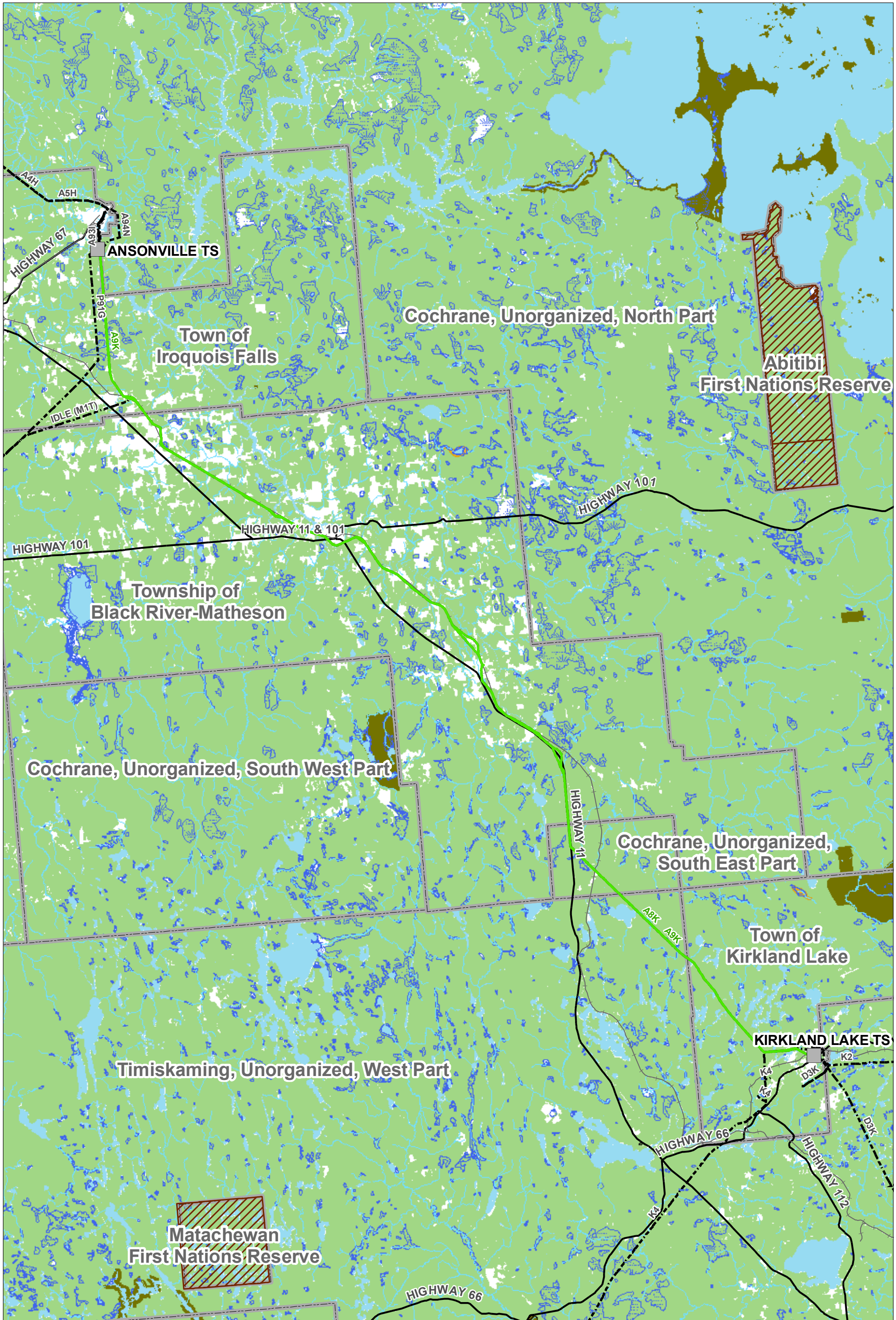
	interests.		
<p>4. NESR, Section 2.5 (Other Taxa, pg. 11)</p>	<p>In HONI's "HYDRO ONE – A8K/A9K Transmission Refurbishment Project TTN Information Package" HONI states that Blanding's Turtle have been observed in the vicinity of the Project area. In section 2.5 of the NESR HONI states that "Reptiles and amphibians were observed opportunistically while conducting fieldwork for SAR and significant wildlife habitat.</p>	<p>HONI must provide the following details of the targeted surveys for basking turtles:</p> <ul style="list-style-type: none"> • methods used, • location sites visited, • number of visits per site, • time of surveys, and • weather conditions for surveys. 	<p>Targeted basking surveys were conducted opportunistically while conducting other field work along the ROW. No turtles were observed within the ROW. Please note that no SAR turtles were identified within habitat range of the ROW (i.e. Blanding's Turtle) but potential significant wildlife habitat for other turtle species (i.e. Snapping Turtle-Special Concern) was considered and addressed as required within the ESR. Where potential habitats</p>

<p>5. NER, Section 2.6.1 (Vegetation and</p>	<p>This included acoustic monitoring during nocturnal surveys, searching small ponds and other waterbodies for adults, larvae, and egg masses, targeted surveys for basking turtles, and random encounter surveys for adults.” (pg. 11). HONI does not provide adequate details of the targeted surveys for basking turtles.</p> <p>This is concerning to TTN as without these details it is not possible to determine whether the presence or absence of Blanding’s Turtles within the Project Area were assessed adequately. Blanding’s Turtles play an important role in wetland ecosystems and potential adverse impacts to these species could adversely impact the rights and interests of TTN community members.</p>	<p>TTN requests that a map be provided identifying the location of wetlands along the ROW. This information will assist in assessing potential impacts to our rights and interests, and help to identify locations that may benefit from the use of bird diverters along</p>	<p>were identified and no definitive observations were made in the field, the habitats were considered candidate and addressed through mitigation, assuming they are present.</p>
	<p>In the NESR, HONI notes that wetlands along the right-of-way (ROW) were not evaluated during field studies, but that a desktop screening exercise will be completed to identify potential provincially significant wetlands.</p>		<p>Hydro One has included a map identifying wetlands along the right of way in Appendix A. It should also be noted that there were few wetlands (13% total area) within the Study Area due to the existing nature of the corridor (previously cleared; open, herbaceous or low</p>

<p>Wetlands, pg. 12)</p>	<p>TTN recognizes wetlands as valued components of the environment, as these areas provide summer feeding habitat for moose, stopovers and nesting habitat for waterfowl, and support diverse vegetation communities that are harvested by TTN. We require information pertaining to wetlands along the ROW to fully assess potential impacts to our community member's rights and interests.</p>	<p>conductors.</p>	<p>woody species.)</p>
<p>6. NESR, Appendix 1 (pg. 25)</p>	<p>HONI states in Appendix 1 that targeted surveys were not performed for Lake Sturgeon and only a desktop review was completed. Within the ESA Mitigation plan for the Project, HONI indicated that Lake Sturgeon (<i>Acipenser fulvescens</i>) may be potentially impacted by the Project.</p> <p>This contradiction is concerning to TTN as it appears that HONI has not adequately assessed the potential presence of Lake Sturgeon through multi-season baseline studies. Lake Sturgeon are a culturally significant species and potential adverse</p>	<p>HONI must commit to performing multi-season baseline studies to assess the presence or absence of Lake Sturgeon within the Project Area, using standardized methodologies such as the Riverine Index Netting protocol (Jones & Yunker, 2009).</p>	<p>Through review of DFO's Aquatic Species at Risk mapping, it was determined that the Lake Sturgeon (<i>Acipenser fulvescens</i>) (Special Concern) is present within the Abitibi River near the northern extent of the Project, east of Ansonville. However, the ROW does not intersect the Abitibi River, and as such, disturbance to Lake Sturgeon is not anticipated. The southernmost extent of the ROW does fall within the Great Lakes- St. Lawrence population which is listed as Threatened under the ESA, however, there are no occurrences records of</p>

	<p>impacts to this species could adversely impact the rights and interests of our community members.</p>		<p>Lake Sturgeon within this area.</p>
<p>7. General Comment</p>	<p>TTN notes there is an absence of information pertaining to the aquatic environment in the NESR. Based on previous commitments made by HONI, TTN understands that field studies will be completed to assess fish and fish habitat at proposed crossing locations, in addition to details being provided on types of existing structures, new structures anticipated, whether in- water work or fording is necessary, anticipated timing of crossings, and mitigation measures. This information is necessary to allow TTN to assess potential adverse impacts on the rights and interests of our community members.</p>	<p>TTN requests that HONI clarify if data collected on the aquatic environment will be included in the Watercourse Crossings Assessment. We also request that HONI provide two-weeks notice in advance of the aquatic field studies, to allow sufficient time to organize community participation.</p>	<p>The Watercourse Crossing Assessment has been provided to TTN and Hydro One has received TTN's review of the report on September 23, 2021.</p>
<p>8.</p>	<p>In TTN's previous review of the Class EA Documents for the</p>	<p>TTN requests that HONI provide an update on the geotechnical</p>	<p>The geotechnical investigations were recently completed and the report is</p>

<p>General Comment</p>	<p>A8K/A9K Transmission Line Refurbishment Project, HONI indicated that geotechnical investigations would be completed for structures requiring replacement. TTN has yet to be provided an update on when this information will be available.</p>	<p>investigations, including when the results can be expected to be provided for review.</p>	<p>provided with this response package in Appendix B.</p>
<p>9. General Comment</p>	<p>TTN note that they were not consulted by HONI on potential environmentally sensitive areas, traditional knowledge, or archaeological locations within the Project area, which could have helped to inform the studies and mitigation/avoidance measures undertaken as part of this Project. This is concerning to TTN as without adequate on the ground consultation with TTN Lands and Resources Department staff potential environmentally sensitive areas or archaeological locations may be overlooked by HONI.</p>	<p>9a. A. TTN requests that HONI consult with the staff of the Lands and Resources Department and provide the opportunity for a review of the Project area through a helicopter flight of the entire ROW in mid-late October. This timing will coincide with the completion of fieldwork from TTN’s traditional knowledge and land-use study.</p> <p>9b. As well, TTN requests that HONI share any imagery (satellite or aerial photographs) they have of the ROW with the Lands and Resources Department.</p>	<p>Hydro One can accommodate an opportunity for a review of the Project area through a helicopter flight of the ROW. Hydro One requests TTN follow up as soon as possible with dates.</p> <p>Hydro One is unable to share imagery files, however can provide a map with imagery along the ROW.</p>



Produced By: Inergi LP, GIS Services

 Date: Feb 27, 2017

 Map 17-22_A8K_A9K_AnsonvilleTSx_KirklandLakeTS_NF

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Station or Junction	Railway	Watercourse	Significant Ecological Area
115 kV Transmission Line (Circuit A8K/A9K)	Highway	Waterbody	Provincial Park
Other Transmission Line	Municipal Boundary	Wetland	Wooded Area
First Nations Reserve			

**A8K/A9K-
Ansonville TS x Kirkland Lake TS:
Natural Features Map**

1:250,000

Line	Structure	Foundation	Anchors	Notes
A8K	1			
A8K	2	Culvert	Slug anchors	Dry but Soft
A8K	3			
A8K	4			
A8K	5			
A8K	6			
A8K	6			
A8K	7			
A8K	8			
A8K	9			
A8K	10	Culvert	Slug	Dry but Soft
A8K	11			
A8K	12			
A8K	13			
A8K	14			
A8K	15			
A8K	16			
A8K	17			
A8K	18			
A8K	19			
A8K	20	Direct embed	Screw Anchors	Good
A8K	21			
A8K	22			
A8K	23			
A8K	24			
A8K	25			
A8K	26			
A8K	27			
A8K	28			
A8K	29			
A8K	30	Culvert	Slug	Dry but Soft
A8K	31			
A8K	32			
A8K	33			

Line	Structure	Foundation	Anchors	Notes
A8K	34	Culvert	Slug	Swamp
A8K	35			
A8K	36	Swamp mat or Culvert	Slug	Swamp
A8K	37			
A8K	38			
A8K	39			
A8K	40			
A8K	41	Direct embed	Screw Anchors	Good
A8K	42			
A8K	43	Direct embed	Screw Anchors	Good
A8K	44			
A8K	45			
A8K	46			
A8K	47			
A8K	48			
A8K	49			
A8K	50	Direct embed	Slug	Dry but Soft
A8K	51			
A8K	52			
A8K	53			
A8K	54			
A8K	55			
A8K	56	Rock	Rock	Rock
A8K	57	Rock	Rock	Rock
A8K	58	Rock	Rock	Rock
A8K	59			
A8K	60			
A8K	61			
A8K	62			
A8K	63			
A8K	64			
A8K	65			
A8K	66	Direct embed	Screw Anchors	Good ground
A8K	67			

Line	Structure	Foundation	Anchors	Notes
A8K	68			
A8K	69			
A8K	70			
A8K	71			
A8K	72			
A8K	73			
A8K	74			
A8K	75			
A8K	76			
A8K	77			
A8K	78			
A8K	79			
A8K	80			
A8K	81			
A8K	82			
A8K	83			
A8K	84			
A8K	85			
A8K	86			
A8K	87			
A8K	88			
A8K	89			
A8K	90			
A8K	91			
A8K	92			
A8K	93	Culvert	Slug anchors	Dry but Soft
A8K	94			
A8K	95			
A8K	96			
A8K	97			
A8K	98			
A8K	99			
A8K	100			
A8K	101	Culvert	Slug	Dry but Soft

Line	Structure	Foundation	Anchors	Notes
A8K	102			
A8K	103			
A8K	104			
A8K	105			
A8K	106			
A8K	107			
A8K	108			
A8K	109			
A8K	110	Culvert	Slug anchors	Dry but Soft
A8K	111	Culvert	Slug anchors	Wet
A8K	112			
A8K	113			
A8K	134	ScrewAnchors		
A8K	134			
A8K	135			
A8K	136			
A8K	137			
A8K	138			
A8K	139			
A8K	140			
A8K	141			
A8K	142			
A8K	143			
A8K	144			
A8K	145			
A8K	146			
A8K	147	Culvert	Slug anchors	Dry but Soft
A8K	148	Culvert	Slug anchors	Dry but Soft
A8K	149			
A8K	150			
A8K	151			
A8K	152			
A8K	153			
A8K	154			

Line	Structure	Foundation	Anchors	Notes
A8K	155			
A8K	156	Culvert	Slug anchors	Dry but Soft
A8K	157			
A8K	158			
A8K	159			
A8K	160			
A8K	161			
A8K	162			
A8K	163			
A8K	164	Direct embed	Screw Anchors	Dry
A8K	165			
A8K	166			
A8K	167			
A8K	168			
A8K	169			
A8K	170			
A8K	171			
A8K	172	Direct embed	Slug	Dry
A8K	173			
A8K	174			
A8K	175			
A8K	176			
A8K	177			
A8K	178	Culvert	Slug	Soft
A8K	179			
A8K	180			
A8K	181			
A8K	182			
A8K	183			
A8K	184			
A8K	185	Culvert	Slug	looks Sandy
A8K	186			
A8K	187			
A8K	188	Possible Swamp matt	Slug anchors	Wet ground

Line	Structure	Foundation	Anchors	Notes
A8K	189	Direct embed	Screw Anchors	Wet on top
A8K	190			
A8K	191	Screw barrel or Swamp matt	4 Slug anchors	Wet
A8K	192	Culvert or Swamp matt	4 Slug anchors	
A8K	193			
A8K	194			
A8K	195			
A8K	196			
A8K	197			
A8K	198			
A8K	199			
A8K	200			
A8K	201			
A8K	202			
A8K	203			
A8K	204			
A8K	205			
A8K	206			
A8K	207	Possible Culvert	Possible Slug	Wet ground
A8K	208			
A8K	209			
A8K	210			
A8K	210			
A8K	211			
A8K	212			
A8K	213	Possible Culvert	Screw Anchors	Dry but Soft
A8K	214			
A8K	215			
A8K	216			
A8K	216			
A8K	216			
A8K	217			
A8K	218			
A8K	219	Screw barrel or Swamp matt	Possible Slug	swamp

Line	Structure	Foundation	Anchors	Notes
A8K	220			
A8K	221			
A8K	222	Possible Culvert	4 screw anchors	Wet ground
A8K	223	Culvert	4 screw anchors	Wet ground
A8K	224			
A8K	225			
A8K	226			
A8K	227			
A8K	228			
A8K	229			
A8K	230			
A8K	231			
A8K	232			
A8K	233			
A8K	234			
A8K	235			
A8K	236			
A8K	237			
A8K	238			
A8K	239			
A8K	240			
A8K	241			
A8K	242			
A8K	243			
A8K	244			
A8K	245			
A8K	246			
A8K	247			
A8K	248			
A8K	249			
A8K	250	Direct embed	Screw Anchors	Dry
A8K	251			
A8K	252			
A8K	253			

Line	Structure	Foundation	Anchors	Notes
A8K	254			
A8K	255			
A8K	256			
A8K	257			
A8K	258			
A8K	259	Possible Culvert	Possible Slug	Soft Dry ground
A8K	260			
A8K	261			
A8K	262			
A8K	263	Direct embed	Screw Anchors	Good ground
A8K	264			
A8K	265			
A8K	266			
A8K	267			
A8K	268			
A8K	269			
A8K	270			
A8K	271			
A8K	272			
A8K	273			
A8K	274			
A8K	275			
A8K	277			
A8K	278			
A8K	279			
A8K	280			
A8K	281			
A8K	282			
A8K	283			
A8K	284			
A8K	285			
A8K	286			
A8K	287			
A8K	288			

Line	Structure	Foundation	Anchors	Notes
A8K	289			
A8K	290			
A8K	291			
A8K	292			
A8K	293			
A8K	294			
A8K	295			
A8K	296			
A8K	297			
A8K	298	Direct embed	Screw Anchors	Dry
A8K	299			
A8K	300			
A8K	301			
A8K	302			
A8K	303			
A8K	304			
A8K	305			
A8K	306			
A8K	307			
A8K	308	Direct embed	Screw Anchors	Good
A8K	309			
A8K	310			
A8K	311			
A8K	312			
A8K	313	Direct embed	Screw Anchors	Good
A8K	314			
A8K	315			
A8K	316	Culvert	Slug	Sand
A8K	317			
A8K	318			
A8K	319			
A8K	320			
A8K	321			
A8K	322	Culvert	Slug	Sand

Line	Structure	Foundation	Anchors	Notes
A8K	323			
A8K	324			
A8K	325			
A8K	326			
A8K	327			
A8K	328			
A8K	329			
A8K	330			
A8K	331			
A8K	332	Direct embed	Slug	Good
A8K	333			
A8K	334			
A8K	335			
A8K	336			
A8K	337			
A8K	338			
A8K	339			
A8K	340			
A8K	341			
A8K	342			
A8K	343			
A8K	344			
A8K	345			
A8K	346			
A8K	346			
A8K	347			
A8K	348	Direct embed	Screw Anchors	Good
A8K	349			
A8K	350			
A8K	351	Direct embed	Screw Anchors	Good
A8K	352			
A8K	353			
A8K	354			
A8K	355			

Line	Structure	Foundation	Anchors	Notes
A8K	356			
A8K	357	Direct embed	Screw Anchors	Good
A8K	358			
A8K	359			
A8K	360			
A8K	361			
A8K	362			
A8K	363			
A8K	364			
A8K	365			
A8K	366			
A8K	367			
A8K	368			
A8K	369			
A8K	370			
A8K	371			
A8K	372			
A8K	373			
A8K	374			
A8K	375			
A8K	376			
A8K	377			
A8K	378			
A8K	379			
A8K	380	Culvert	Slug	Soft Dry
A8K	381			
A8K	382			
A8K	383			
A8K	384			
A8K	385			
A8K	386			
A8K	387			
A8K	388			
A8K	389			

Line	Structure	Foundation	Anchors	Notes
A8K	390			
A8K	391			
A8K	392			
A8K	393			
A8K	394			
A8K	395			
A8K	396			
A8K	397			
A8K	398			
A8K	399			
A8K	400			
A8K	401			
A8K	402			
A8K	403	Direct embed	Screw Anchors	Good
A8K	404			
A8K	405			
A8K	406			
A8K	407	Direct embed	Screw Anchors	Good
A8K	408			
A8K	409	Culvert	Slug	Sand
A8K	410			
A8K	411			
A8K	412			
A8K	426			
A8K	427			
A8K	428			
A8K	430			
A8K	431			
A8K	432			
A8K	433			
A8K	434			
A8K	435			
A8K	436			
A8K	437			

Line	Structure	Foundation	Anchors	Notes
A8K	438			
A8K	439			
A8K	440			
A8K	441			
A8K	442			
A8K	443			
A8K	444			
A8K	445			
A8K	446			
A8K	447			
A8K	448			
A8K	449			
A8K	480	Direct embed	Screw Anchors	Good
A8K	481			
A8K	482			
A8K	483			
A8K	484	Direct embed	Screw Anchors	Dry
A8K	485			
A8K	486			
A8K	487			
A8K	488			
A8K	489	Direct embed	Screw Anchors	Good
A8K	490			
A8K	491	Culvert	4 Slug	Sand
A8K	492			
A8K	493			
A8K	494			
A8K	495			
A8K	496	Direct embed	Screw Anchors	Dry
A8K	497			
A8K	498			
A8K	499			
A8K	500			
A8K	501	Rock	Rock	Rock

Line	Structure	Foundation	Anchors	Notes
A8K	502	Rock	Rock	Rock
A8K	503			
A8K	504			
A8K	505			
A8K	506			
A8K	507			
A8K	508			
A8K	509			
A8K	510			
A8K	511	Direct embed	Screw Anchors	Dry
A8K	512			
A8K	513			
A8K	514			
A8K	515			
A8K	516			
A8K	517			
A8K	518			
A8K	519			
A8K	520			
A8K	521			
A8K	522			
A8K	523			
A8K	524			
A8K	525			
A8K	526			
A8K	527			
A8K	528			
A8K	529			
A8K	530			
A8K	531			
A8K	532	Rock	Rock	Rock
A8K	533	Rock	Rock	Rock
A8K	534	Rock	Rock	Rock
A8K	535	Rock	Rock	Rock

Line	Structure	Foundation	Anchors	Notes
A8K	536	Rock	Rock	Rock
A8K	537	Rock	Rock	Rock
A8K	538			
A8K	539			
A8K	540			
A8K	541	Rock	Rock	Rock
A8K	542			
A8K	543			
A8K	544			
A8K	545			
A8K	546			
A8K	547			
A8K	548	Auger refusal Possible Rock set	Rock or Slug	Gravel potential Rock
A8K	549			
A8K	550	Auger refusal Possible Rock set	Rock or Slug	
A8K	551			
A8K	552	Auger refusal Possible Rock set	Rock or Slug	Gravel potential Rock
A8K	553			
A8K	554			
A8K	555			
A8K	556			
A8K	557			
A8K	558			
A8K	559			
A8K	560			
A8K	561	Direct embed	Screw Anchors	Good
A8K	562			
A8K	563			
A8K	564			
A8K	565			
A8K	566			
A8K	567			
A8K	568			
A8K	569			

Line	Structure	Foundation	Anchors	Notes
A8K	570			
A8K	571			
A8K	572			
A8K	573			
A8K	574			
A8K	575	Direct embed	Slug	Hard ground
A8K	576			
A8K	577			
A8K	578			
A8K	579			
A8K	580			
A8K	581			
A8K	582			
A8K	583			
A8K	584			
A8K	585			
A8K	586	Direct embed	Screw Anchors	Good
A8K	587			
A8K	588			
A8K	589			
A8K	590			
A8K	591			
A8K	592			
A8K	593			
A8K	594			
A8K	595			
A8K	596			
A8K	597			
A8K	598			
A8K	599			
A8K	600			
A8K	601			
A8K	602			
A8K	603	Direct embed	Screw Anchors	Dry

Line	Structure	Foundation	Anchors	Notes
A8K	604	Rock	Rock	Rock
A8K	605			
A8K	606			
A8K	607			
A8K	608			
A8K	609			
A8K	610			
A8K	611			
A8K	612			
A8K	613	Screw barrel or Swamp matt	Screw Anchors	swamp
A8K	614			
A8K	615			
A8K	616	Rock	Rock	Rock
A8K	617			
A8K	618	Rock	Rock	Rock
A8K	619	Direct embed	Slug	Hard gorund
A8K	620			
A8K	621			
A8K	622			
A8K	623			
A8K	624			
A8K	625	Direct embed	Screw Anchors	Dry
A8K	626			
A8K	627			
A8K	628			
A8K	629			
A8K	630			
A8K	631			
A8K	632			
A8K	633			
A8K	634			
A8K	635			
A8K	636	Direct Embed	Slug	Hard deeper down
A8K	637			

Line	Structure	Foundation	Anchors	Notes
A8K	638			
A8K	639			
A8K	640			
A8K	641			
A8K	642			
A8K	643	Culvert	Slug	Hard Ground
A8K	644			
A8K	645			
A8K	646			
A8K	647			
A8K	648	Rock	Rock	Rock
A8K	649			
A8K	650			
A8K	651			
A8K	652			
A8K	653			
A8K	654			
A8K	655	Culvert	Slug	Hard deeper down
A8K	656			
A8K	657			
A8K	658			
A8K	659	Direct Embed	Slug	Hard
A8K	660			
A8K	661			
A8K	662			
A8K	663			
A8K	664	Culvert	Slug	Wet
A8K	665			
A8K	666			
A8K	667			
A8K	668			
A8K	669			
A8K	670			
A8K	671			

Line	Structure	Foundation	Anchors	Notes
A8K	672			
A8K	673			
A8K	674			
A8K	675	Direct embed	Screw Anchors	Dry
A8K	676			
A8K	677			
A8K	678			
A8K	679			
A8K	680	Culvert	Screw Anchors	Wet
A8K	681			
A8K	682			
A8K	683	Culvert	Screw Anchors	Swamp
A8K	684			
A8K	685			
A8K	686	Direct Embed	Screw Anchors	Wet
A8K	687			
A8K	688	Culvert	Slug	swamp
A8K	689			
A8K	690			
A8K	691			
A8K	692	Swamp mat or Culvert	Slug	swamp
A8K	693			
A8K	694			
A8K	695			
A8K	696	Rock	Rock	Rock
A8K	697	Rock	Rock	Rock
A8K	698	Rock	Rock	Rock
A8K	699	Rock	Rock	Rock
A8K	700	Rock	Rock	Rock
A8K	701	Rock	Rock	Rock
A8K	702	Rock	Rock	Rock
A8K	703	Rock	Rock	Rock
A8K	704	Rock	Rock	Rock
A8K	705	Rock	Rock	Rock

Line	Structure	Foundation	Anchors	Notes
A8K	706	Rock	Rock	Rock
A8K	707	Rock	Rock	Rock
A8K	708			
A8K	708			
A8K	709			
A8K	709			
A8K	710	Rock	Rock	Rock
A8K	711	Rock	Rock	Rock
A8K	713	Direct Embed	Screw Anchors	Screw Anchors
A8K	714			
A8K	715			
A8K	717			
A8K	718			
A8K	719	Rock	Rock	Rock
A8K	720	Rock	Rock	Rock
A8K	721	Rock	Rock	Rock
A8K	722	Rock	Rock	Rock
A8K	723			
A8K	723			
A8K	724	Rock	Rock	Rock
A8K	725			
A8K	725			
A8K	726	Rock	Rock	Rock
A8K	727	Rock	Rock	Rock
A8K	728			
A8K	729	Rock	Rock	Rock
A8K	730	Rock	Rock	Rock
A8K	731	Rock	Rock	Rock
A8K	732	Rock	Rock	Rock
A8K	733	Rock	Rock	Rock
A8K	734	Rock	Rock	Rock
A8K	735	Rock	Rock	Rock
A8K	736			
A8K	736			

Line	Structure	Foundation	Anchors	Notes
A8K	737	Screw barrel or Swamp matt	Slug	swamp
A8K	738			
A8K	739	Rock	Rock	Rock
A8K	740			
A8K	741	Rock	Rock	Rock
A8K	742			
A8K	743			
A8K	744			
A8K	745			
A8K	746			
A8K	747	Rock	Rock	Rock
A8K	748	Rock	Rock	Rock
A8K	749	Rock	Rock	Rock
A8K	750	Rock	Rock	Rock
A8K	751	Rock	Rock	Rock
A8K	752	Rock	Rock	Rock
A8K	753	Rock	Rock	Rock
A8K	754	Rock	Rock	Rock
A8K	755	Rock	Rock	Rock
A8K	756	Rock	Rock	Rock
A8K	757	Rock	Rock	Rock
A8K	758	Rock	Rock	Rock
A8K	759	Rock	Rock	Rock
A8K	760	Rock	Rock	Rock
A8K	761	Rock bore	Rock	Soft until 5 feet then Rock
A8K	762	Rock	Rock	Rock
A8K	763			
A8K	764	Rock	Rock	Rock
A8K	765	Rock	Rock	Rock
A8K	766			
A8K	767	Rock	Rock	Rock
A8K	768	Rock	Rock	Rock
A8K	769	Rock	Rock	Rock
A8K	770			

Line	Structure	Foundation	Anchors	Notes
A8K	771	Rock	Rock	Rock
A8K	772	Rock	Rock	Rock
A8K	773	Rock	Rock	Rock
A8K	774	Rock	Rock	Rock
A8K	775			
A8K	776	Rock	Rock	Rock
A8K	777			
A8K	778	Rock	Rock	Rock
A8K	779	Rock	Rock	Rock
A8K	780	Rock	Rock	Rock
A8K	781	Rock	Rock	Rock
A8K	782	Rock	Rock	Rock
A8K	783	Rock	Rock	Rock
A8K	784	Screw barrel or Swamp matt	Slug	Very Wet
A8K	785	Culvert	Slug	Wet
A8K	786	Rock	Rock	Rock
A8K	787	Rock	Rock	Rock
A8K	788	Rock	Rock	Rock
A8K	789	Rock	Rock	Rock
A8K	790	Rock	Rock	Rock
A8K	791			
A8K	792			
A8K	793			
A8K	794	Rock	Rock	Rock
A8K	802			
A8K	803			
A8K	804			
A8K	805			
A8K	806			
A8K	807			
A8K	808			
A8K	86A			
A8K	Kirkland			

Appendix F Cultural Heritage Checklist and Archaeology Acceptance

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Stage 1 Background Study: Circuit A8K/A9K Line from Kirkland Lake to Val Gagne, Geographic Townships of Teck, Bernhardt and Maisonville, District of Timiskaming and Geographic Townships of Benoit, Cook, Playfair, Bowman, Carr and Taylor, District of Cochrane

ORIGINAL REPORT

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Stage 1 Background Study: Circuit A8K/A9K Line from Kirkland Lake to Val Gagne, Geographic Townships of Teck, Bernhardt and Maisonville, District of Timiskaming and Geographic Townships of Benoit, Cook, Playfair, Hislop, Bowman, Carr and Taylor, District of Cochrane

Original Report - July 13, 2018

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Report in PDF format distribution: Hydro One Networks Inc.
Ministry of Tourism, Culture and Sport



Bringing the **past**
to the **present**
for the **future**

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- * Rob von Bitter, Ministry of Tourism, Culture and Sport.
- * The Cochrane and Timiskaming Land Registry Offices.
- * The staff at the Trent University Maps and Geospatial Resources section of the Bata Library, Peterborough.

ACRONYMS

a.s.l.	above sea level	GToM	Geographic Township of Maisonville
AP	Archaeological Potential	GToP	Geographic Township of Playfair
cm	centimeter (s)	GToT	Geographic Township of Taylor
CAGI	Central Archaeology Group Inc.	GToTe	Geographic Township of Teck
CD	Cochrane District	Hwy	Highway
CR	County Road	HONI	Hydro One Networks Inc.
GToB	Geographic Township of Benoit	km	kilometre (s)
GToBe	Geographic Township of Bernhardt	m	metre (s)
GToBo	Geographic Township of Bowman	MTCS	Ministry of Tourism, Culture and Sport
GToC	Geographic Township of Carr	NAP	No Archaeological Potential
GToCo	Geographic Township of Cook	SoW	Statement of Work
GToH	Geographic Township of Hislop	TD	Timiskaming District

EXECUTIVE SUMMARY

The Central Archaeology Group Inc. (CAGI) was retained by Hydro One Networks Inc. (HONI) to conduct a Stage 1 background study on a 75 kilometres section of HONI's 115kV circuit A8L/A9K Line in the Districts of Timiskaming (TD) and Cochrane (CD). The purpose of this study therefore is to provide a baseline level of data on known and potential cultural heritage resources within the subject property and to delineate areas of archaeological potential.

This study involved the examination of records such as historic settlement maps, land titles and documents, historical land use and ownership records, primary and secondary sources, and the Ministry of Tourism, Culture and Sport's archaeological sites database. This report also outlines the First Nations pre-contact and historic archaeological sequence, the Euro-Canadian historic settlement record for the area, physiography of the project area and determines archaeological potential based on the analysis of this information.

Permission to access the area and to carry out the activities necessary for the completion of the Stage 1 background study was granted by Sarah Cohanin, HONI. Given the findings of the archaeological assessment, the following recommendations are made:

- 1) All areas of delineated archaeological potential that will be affected by development must be subject to a Stage 2 archaeological assessment prior to any ground-disturbing activities (Maps 24 to 36).
- 2) A Stage 2 archaeological assessment will be conducted by a licensed consultant archaeologist as per the Standards and Guidelines for Consulting Archaeologists for work in Northern Ontario (Section 2.1.5): a) Test-pitting is required between 0 to 50 metres from a modern water source at intervals of five metres and a survey is not required past 50 metres; b) For features of archaeological potential other than modern water sources, such as the known transportation routes and areas of ancient water sources, test-pitting is required in intervals of five metres 0 to 50 metres from the features. From 50 to 150 metres from the feature, test-pitting intervals can be a maximum of 10 metres; and c) Survey is not required beyond 150 metres.
- 3) The Stage 2 archaeological assessment will follow the requirements set out in the 2011 Standards and Guidelines for Consultant Archaeologists (MTCS 2011).
- 4) Should construction activities associated with this development extend beyond those areas assessed during this project, further archaeological investigation will be required prior to ground-disturbing activities.

- 5) Notwithstanding the results and recommendations presented in this study, The Central Archaeology Group Inc. notes that no archaeological assessment, no matter how thorough or carefully completed, can necessarily predict, account for, or identify every form of isolated or deeply buried archaeological deposit. Therefore, in the event that archaeological remains are found during subsequent construction and development activities, the consultant archaeologist, approval authority, and the Cultural Programs Unit of the Ministry of Tourism, Culture and Sport should be immediately notified.

The MTCS is requested to review, and provide a letter indicating their satisfaction with, the results and recommendations presented herein, with regard to the 2011 Standards and Guidelines for Consultant Archaeologists and the terms and conditions for archaeological licenses, and to enter this report into the Ontario Public Register of Archaeological Reports.

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1.0 PROJECT CONTEXT

1.1 Objectives

The objectives of a Stage 1 background study, as outlined by the *Standards and Guidelines for Consultant Archaeologists* (2011:13), are as follows:

- ✦ Provide information on the subject property's geography, history, previous archaeological fieldwork and current land condition;
- ✦ Evaluate the archaeological potential for the property and support recommendations for a Stage 2 survey; and,
- ✦ Recommend appropriate strategies for future assessments within the property.

1.2. Development Context

The Central Archaeology Group Inc. (CAGI) was retained by Hydro One Networks Inc. to conduct a Stage 1 background study on a 75 kilometres section of HONI's 115kV circuit A8L/A9K Line in the Districts of Timiskaming (TD) and Cochrane (CD). The study area includes lots within the Geographic Townships of Teck, Bernhardt and Maisonville (GToTe, GToBe and GToM), Timiskaming District (TD) and lots within the Geographic Townships of Benoit, Cook, Playfair, Hislop, Bowman, Carr and Taylor (GToB, GToCo, GToP, GToH, GToBo, GToC and GToT), Cochrane District (CD) (Plans 1 to 13; Maps 1 to 5; Image 1). This archaeological assessment was triggered by the Environmental Assessment Act. This project is in the pre-approval stage and the information presented within this report is intended to identify archaeological potential and, in turn, inform future planning decisions regarding the Circuit A9K/A9K Line.

Permission for access to conduct the archaeological assessment was granted by Sarah Cohanin, HONI. Private property was not accessed for this project. Photographs were taken from along each road right-of-way with public property access.

The archaeological assessment was undertaken in accordance with the requirements of the Ontario Heritage Act (R.S.O. 1990), the Standards and Guidelines for Consultant Archaeologists (2011) and the Environmental Assessment Act (R.S.O. 1990). All archaeological consulting activities were performed under the Professional Archaeological License of Laura McRae (P248). The Ontario Ministry of Tourism, Culture and Sport has designated this assessment as PIF P248-0319-2018. This project is further identified as CAGI-2018-LM8 under CAGI records.

1.3 Historical Context

1.3.1 Historic Documentation

There are a few historic literary documents regarding the settlement and development of northern Ontario, from its use by the pre-contact First Nations peoples through to Euro-Canadian settlement. Some of the more useful documents include: *A Vast and Magnificent Land: An Illustrated History of Northern Ontario* (Bray and Epp 1984), *Prehistory of Northern Ontario* (Dawson 1983), *The Shield Archaic* (Wright 1972), *Ontario's Great Clay Belt Hoax* (Pugh 1975) and *The Ecology of a Recently-Deglaciated Terrain: A Geocological Approach to Glacier Forelands and Primary Succession* (Matthews 1992).

There are also a number of consultant reports (archaeological and cultural heritage) available for consultation from Municipal Offices, Historical Societies and the Ministry of Tourism, Culture and Sport. In addition to historical literature and consultant reports, historical maps and plans, orthographic images and photographs may be acquired.

The study area is situated within the GToTe, GToBe and GToM, TD and GToB, GToCo, GToP, GToH, GToBo, GToC and GToT, CD. The history of the area will be discussed below.

1.3.2 Pre-Contact Period

Archaeological investigations in northern Ontario are wrought with limitations. With some difficulty, archaeologists have applied predictive models to First Nations cultural development based on small representative samples. These models may have caused adverse effects in locating areas of high archaeological potential. Acidic soils also hinder archaeological investigation and result in poor preservation of bone and other organic materials, and the thin soil matrix associated with areas within the Canadian Shield obscures stratigraphy and produces a hopeless mixture of chronologically distinct occupations (Wright 1999:731).

Although northern Ontario has a unique deglaciation history, which would have prohibited early occupation (Early Palaeoamerican Period), some of the work done in the Great Lakes region can be extrapolated. In the 1970s archaeologists in southern Ontario began looking at ancient glacial lake beaches for Palaeoamerican and Archaic archaeological sites with positive results (Jackson et al. 2000, Storck 2004). Traditionally, and which is still common practice to this date, archaeological investigations in eastern Ontario were being conducted at modern water levels and archaeologists were only testing easily accessible areas which yielded "likely" locations of past human occupation (Hurley 1971a; 1971b), overlooking the drastic environmental changes that occurred over the past 10,000 years. Some archaeologists are just beginning to realize that sites can be found further inland on the former beaches of glacial meltwaters.

In the first half of the twentieth century, the focus of research in First Nations culture in Canada was primarily on linguistics and ethnology (Trigger 2006:312). As a result, it is not until the beginning of the latter half of the twentieth century did archaeological undertakings begin to focus on building cultural chronologies, primarily technological innovation (Mason 1981:161). In Ontario, three broad cultural periods have been identified based on the material culture that has been left behind by past individuals and cultural groups. These cultural periods are: the Palaeoamerican Period, Archaic Period and the Woodland Period. A cultural summary of these periods, largely focusing on technology, is provided in the following section (Table 1).

Although it is often relegated to an overarching description of the Province, the pre-contact period of northern Ontario, and the people who inhabited the land, is very distinct from the more intensely studied south. This oversight results in a paucity of information for the region. Moreover, research that is conducted in the north tends to be concentrated along major waterways and lakes, creating an information vacuum in the northern interior. One of the reasons why northern Ontario is often disregarded by researchers is this oversight in that aside from poor preservation as a result of acidic soils and the remoteness of some areas of northern Ontario, there were no large sedentary village sites, where a plethora of artifacts could have been left to the archaeological record. Instead, a small number of people lived a semi-nomadic lifestyle, traveling from site to site based up on the acquisition of seasonally available food resources. This seasonal transhumance resulted in a scatter of small, ephemeral sites with little material culture.

Palaeoamerican Period. The Paleo-Indian Period begins late in Northern Ontario because of lingering continental glaciers which formed during the Pleistocene era. The late arrival of people into Northern Ontario led to the development of the distinct, unfluted Plano tradition, possibly indicating a direct entry point from the Plains to the west. The Paleo-Indian groups arrived in Northern Ontario when temperatures began to ascend and extensive glacial lakes began to form (i.e., Glacial Lake Agassiz). Sites from this era tend to be discovered along the former shores of these glacial lakes and the contemporary shorelines of the Great Lakes, which are approximately 10 kilometres from their present position. The majority of examined sites are found along the north shore of Lake Superior and Lake Huron, where people were making tools from local quartzite and taconite. However, a number of isolated projectile points have been found in the interior as well (Fox 1975; MacNeish 1952; Zoltai 1965; McRae and Paauw 2008).

As the glaciers receded, a change in vegetation occurred in northern Ontario. A mixed boreal forest environment emerged, which hosted a larger variety of animals. Plano people hunted caribou, fish, birds, and considering the temperate, and often extreme climatic conditions,

they would have used mammal hides to stay warm, and possibly as coverings for small dwellings. As the glaciers retreated north, so did the caribou, attracting occupation in the far reaches of the Province (Dawson 1983:7).

Archaic Period. The Shield Archaic evolved from the Plano culture by 5,000 BCE. Although they initially carried the same toolkit as the Paleo-Indian people, what defines this culture is the emergence of groundstone tools. As the mixed boreal forests matured, Shield Archaic people began to adapt to the environment by utilizing woodworking tools, such as axes, adzes, and chisels (Wright 1972). Sites occur along major waterways and lakes, and some are found within the interior. The Shield Archaic people lived by hunting, fishing, and food collection. A difference between tool traditions along the Upper Great Lakes and the interior has caused a division among the groups into Northern and Southern Shield Archaic traditions.

The Northern Shield Archaic is defined as a continuation of big game hunting and fishing associated with the Paleo-Indian Period. It is likely that these people were the predecessors to the modern Cree, Ojibway, and Algonquin peoples, and most likely spoke a Proto-Algonkian language (Wright 1972). The Northern Shield Archaic people hunted with thrusting spears topped with stemmed or notched points manufactured from local chert or polished slate (Dawson 1983:11). Whereas, the Southern Shield Archaic people lived along the shores of the Upper Great Lakes and produced predominately pecked and polished tools and native copper artifacts.

Woodland Period. The Woodland Period began around 500 BCE and concludes with the arrival of European traders and explorers. The period is divided between the Initial Woodland Period, which corresponds with the Early and Middle Woodland Periods of Southern Ontario, and the Terminal Woodland Period, which corresponds to the Late Woodland Period to the south. An increase in population that coincides with expansion south of the Great Lakes and the introduction of Laurel pottery to Northern Ontario defines the beginning of the Initial Woodland Period (Dawson 1980).

The people occupying Northern Ontario who adopted pottery sometime between 500 BCE and 200 BCE, are most likely descendants from the Shield Archaic people. Although it is likely that pottery and new lithic technology was introduced from the south, possibly from Saugeen and Point Peninsula groups, local modification formed a distinct Laurel culture tradition (Dawson 1983:15). The greatest number of Initial Woodland Period sites have been found at the western end of Lake Superior in the Border Lakes region, but can be found as far east as the Upper Ottawa River Valley. The Initial Woodland Period people occupied the same land as their Archaic ancestors, along the major waterways and the mouths of rivers emptying into lakes. Sites tend to be seasonal camps occupied by small bands, or families,

perhaps at favorite fishing locations. Archaeological evidence is sparse, but sites often consist of hearths and post moulds, indicating small perishable dwellings (Dawson 1976, 1978).

Aside from fish, Initial Woodland Laurel groups also relied heavily on beaver and moose. In the interior, these groups would have also incorporated caribou, bear, and muskrat into their subsistence strategy (Stoltman 1973). Despite the utilization of pottery, there is no evidence for the exploitation or cultivation of local plant resources (Dawson 1978:17), however, it does suggest that ceramic vessels were used for both cooking and storage. These vessels are often elaborately decorated with varieties of pseudo-scallop shell, dentate, and dragged stamping techniques. Nevertheless, the conical-shaped coil method of manufacture is the defining characteristic of Initial Woodland Laurel culture. Other distinct technological innovations pertinent to this period, include the use of stemmed and notched points, cold-hammered native copper tools, and hafted beaver incisor tools (Dawson 1978:17).

The Terminal Woodland Period is marked by the introduction of new ceramic styles from the south, indicating a continued shift in population and/or the dissemination of goods and ideas to northern groups. The period begins sometime around 700 CE and the people associated with this period can be distinguished as the ancestors to the modern Algonkian culture (Dawson 1983:20). The Terminal Period is divided into three eras: Early, 700-900 CE; Middle, 900-1200 CE; and Late, 1200-1650 CE. Terminal Woodland Algonkian sites tend to be more numerous, and are located around abundant plant resources near major lakes and rivers. They are often found on top of earlier Laurel remains and indicate a continuation in the utilization of the same hunting and fishing grounds. Features at these sites include hearths, cache pits, and post moulds. Also, rock art is often associated with this period (Dewdney and Kidd 1967). Pottery is defined by globular forms with fabric-impressed, cord-impressed, or plain collared designs. The lithic toolkit consists of small scrapers and projectile points. Both notched and unnotched triangular forms are common (Dawson 1978:22).

Table 1. Summary of the First Nations archaeological sequence.

Date	Periods and Cultural Tradition
> 8,500 BP	Palaeoamerican
8,500 BP to 2,500 BP	Archaic
2,500 BP to 350 BP	Woodland
350 BP to present	Historic

1.3.3 Post-Contact Period

Euro-Canadian Cultural Summary. The first European explorers to make contact with the Algonkian-speaking nations of Northern Ontario were Samuel de Champlain and Étienne

Brûlé. Some of the first groups they encountered included the Weskarini, Onontchataronon, Kichesipirini, Matouweskarini, Otaguotouemin, and Nipisiriniens (Morrison 2006:23; Trigger 1976:279). Champlain first met the Algonquians in 1603 at the trading centre of Tadoussac near the mouth of the St. Lawrence River (Hessel 1993:14). According to Morrison (2006:23) Champlain was further informed of the Otaguotouemins Nation to the north, and the Jesuit Relation of 1640 mentions several additional groups, among them, the Timiscimi and Outimagami. However, early eyewitness accounts are lacking.

The beginning of the seventeenth century exhibits the definitive introduction of two European powers to Northern Ontario, England and France. These foreign representatives had already been present on the continent for over a century before venturing into and remaining in the north in 1670. At this time, King Charles II of England, desperately in need of additional revenue, granted a trading charter to the Hudson's Bay Company that encompassed the entire Hudson Bay drainage basin (Bray and Epp 1984:8), entitled Rupert's Land in honour of Prince Rupert, who was also appointed the first governor of the Company. The French response was to send their own expeditions into the area for the North West Company to proclaim the area as their own in 1671 and 1672 (Bray and Epp 1984:8).

According to Bray and Epp (1984:8) neither France nor England physically occupied Northern Ontario in a conventional sense. The French voyageurs, adventurous individuals (trappers, explorers, etc.) hired by fur trading companies who transported goods by the rivers and across land (portage) to and from the remote fur trade stations in the Northwest, made hardly an imprint in Northern Ontario, and the English remained stationed on the shores of Hudson Bay until the French encroachment on fur preserves became unbearable in the 1740s (Bray and Epp 1984:8).

In 1763, with the defeat of the French by the British during the Seven Years War, Northern Ontario was placed entirely in the hands of the British. In 1821, the North West Company and the Hudson's Bay Company amalgamated to form a fur trading monopoly. However, it was not until the mid-1840s and beyond that Canadians became aware of the vast economic potential of the north (Bray and Epp 1984:10) when the great mineral resources were discovered and mining and lumbering replaced the fur trade.

The hunt for timber for housing and shipbuilding is evidenced by logging in the northern forests. By the mid-1800s the timber trade, which had been previously confined to the lower reaches of the St. Lawrence, invaded the forests of Northern Ontario (Pain 1964:41). Soon after, mineral resources were discovered, first at the Bruce Mines and later at Michipicoten (Bray and Epp 1984:10). In order to procure these resources, the Canadian government negotiated with the Ojibway for title to their land. As a result, in 1850, two treaties were signed; one involved the lands west from Batchawana Bay to the Pigeon River and the other

east from Batchawana Bay to Penetanguishene (Bray and Epp 1984:10). Thus, settlement immediately north of the upper Great Lakes began.

The present study area is located in the Timiskaming and Cochrane Districts of Northeastern Ontario. It is comprised of a narrow power transmission line corridor which runs in a northwesterly fashion between Kirkland Lake and Val Gagne.

Political Jurisdictions and the Province of Ontario. The commonly accepted boundary between Northern and Southern Ontario is defined by a line which stretches from the Ottawa River, west along the Mattawa and LaVasse Rivers to Lake Nipissing; and from that Lake southwest along the French River to Georgian Bay. In fact, the exact northern boundary was not clear in 1870 when, three years after Confederation, the Hudson's Bay Company (HBC) transferred its Canadian territory, known as "Rupert's Land", to the Government of Canada. Along with the North West Company (NWC) and a series of smaller outfits, the HBC was a primary organization in control of the fur trade, and its only significant one after it absorbed the NWC in 1821.

Rupert's land encompassed most of Northern Ontario; all of present-day Manitoba, most of Saskatchewan, part of Southern Alberta, and part of the Southern Territory of Nunavut. With respect to Ontario, both the federal and provincial governments were aware of the economic potential presented by the vast timber and mineral resources that lie north of Lake Nipissing and the Great Lakes, and south of Hudson Bay. As such, a jurisdictional battle ensued between the two levels of government. Ontario's Liberal Government, led by Oliver Mowat, claimed all of the territory north to the Albany and English Rivers, and west as far as the Lake of the Woods / Rainy River region. The federal government, led by Conservative Prime Minister John A. Macdonald, disputed this claim in the early 1870s. The matter received little attention during Mackenzie's Liberal federal government of 1873 to 1878, but was pursued with renewed vigour after Macdonald's re-election in 1878. It was not until 1884 that the matter was finally referred to the Judicial Committee of the Privy Council in Britain. The Committee sided with Ontario, although Macdonald continued to object. The matter was laid to rest in 1889, when the Ontario Boundary Act confirmed the Privy Council's decision.

This still left a significant portion of the province's present territory in federal control. Its current north and west boundaries were finally determined in 1912, when Prime Minister Borden ceded part of the District of Keewatin to Ontario.

Treaty 9 (Map 2). The study area land falls within the scope of territory granted to Province of Ontario in the 1884/89 Privy Council decision. The land, however, belonged to the First Nations people a various local tribes, including the Ojibwa, Metis and Cree.

The geographical dispersion of treaties made between the government and the native peoples of Canada, through which the first peoples surrendered their lands in exchange for reserves and compensation, gradually spread north and west from the early nineteenth through to the twentieth century. From the mid-1850s on, this movement reflected the growing interest of Euro-Canadians in the vast resources of Northern Ontario, as well of their progressive settlement and development.

The principal treaties prior to Confederation, in Northern Ontario, were the Robinson-Superior (Treaty 60) and the Robinson-Huron Treaties (Treaty 61) of 1850. These affected the lands north of Lakes Nipissing, Huron and Superior, and the northern portion of the Robinson-Huron Treaty extends into the southern portion of the study area. After Confederation, a series of numbered treaties, applying to lands further north, were signed. The ninth treaty in this series, Treaty 9, or the James Bay Treaty, was signed in 1905 and 1906. It included the James Bay watershed area, the Abitibi River, and the northern portion of the study area (Map 2).

In 1905 and 1906 the Treaty 9 Commission travelled through the territory south of James Bay. It included Commissioners Duncan Campbell Scott, Samuel Stewart, and Daniel G. MacMartin, as well as two police constables and a doctor. With the aid of native guides, they travelled by canoe to fourteen Hudson Bay Company Post, explaining and negotiating the proposal. The James Bay Treaty was signed by the First Nations people of the Fort Albany and Moose Factory areas in August of 1905; and by those of the Abitibi area in June of 1906. The terms of the Treaty were such that each native person received a \$4 annuity, and a \$4 allowance at the signing of the treaty. Reserve lands amounting to 1 square mile (2.5 km²) per individual were promised. While the province assumed annuity payments, the surveying and administering of the reserves fell under federal jurisdiction. Regulations allowed continued hunting, fishing and trapping activities on the new Crown lands. However, the Treaty 9 agreement also opened the territory for the exploitation of resources such as minerals, timber and power generation..

The Fur Trade. The fur trade was the dominant form of economic activity in Northern Ontario in the post-contact era (Map 3). Hunting, trapping, and trading took place primarily along two dominant routes. The first of these, the more southerly route, followed the Ottawa River to Lakes Nipissing and Ontario; and from there through Lake Superior to Lake of the Woods and beyond.

By 1660, Médard Chouart des Groselliers, a lay helper of the French Jesuits, had travelled inland as far as Lake Superior. He and his brother in law, Pierre-Esprit Radisson, are believed to be the first Europeans to make contact with the Sioux Natives, who inhabited the area. From the Sioux they learned of a potentially lucrative trading route further north, based around what are now known as James and Hudson Bays. Upon their return to France,

Groselliers and Radisson attempted to convince the French Government to invest in an expedition which would travel directly to these northern bays by taking a route through the Labrador Sea, north of Newfoundland. Unsuccessful, they turned to merchants in New England. After two abortive attempts to reach Hudson and James Bays from the Eastern Seaboard, an emissary of England's Charles II convinced them to pursue financial backing from London. In 1668 the brothers-in-law accompanied two small vessels, the *Eaglet* and the *Nonsuch*, in a voyage made directly from England to Hudson Bay. The *Eaglet* was damaged and had to return early on, but the *Nonsuch* completed a successful voyage. Its crew wintered at the mouth of the Rupert River and traded with approximately 300 people at a temporary post. When the ship returned to England in October of 1669, it carried a large cargo of beaver skins. The Hudson Bay Company was formed by the British Government the following spring, in May of 1670. The territory it commanded was named Rupert's Land, after the company's first governor and the King's cousin, the Duke of Cumberland, also known as "Prince Rupert of the Rhine."

An intense commercial rivalry developed between the British and the French, which frequently led to conflict. The French, who had hitherto pursued trade along the interior route through Lakes Nipissing and Huron, sent their own expeditions to the Hudson Bay area in 1671 and 1672. They captured English trading posts on James Bay in 1685 and, in 1690, captured a post on the Severn River. In 1694 the British retook Port Albany from its French captors. A major battle over York Factory was decided in the French favour in 1697, although the British held on to their James Bay posts.

In 1713, the Treaty of Utrecht awarded all of the Hudson and James Bay area to the British, including the Abitibi River region. But the competition for furs persisted. The French continued to exploit the more southerly trade routes between the Great Lakes and Montreal, becoming seasoned experts in traversing the interior's myriad of lakes and rivers. Matt Bray made an interesting observation on this period in his 1984 essay on Northern Ontario, "The Place and its People":

In the course of this commercial and imperial competition, neither country "occupied" Northern Ontario in the conventional sense. The French were *voyageurs*, land mariners criss-crossing a great wooded sea. Apart from causing the gradual depletion of the fur-bearing animals, they did not seriously disturb the environment. The British were even less obtrusive; until the French encroachment on their fur preserves became unbearable in the 1740s, they remained firmly anchored to the shores of Hudson Bay. [Bray 1984:8]

War between England and France broke out in 1754. In North America, the outcome of the Seven Year's War (1754-1763) resulted in the expulsion of the French from Canadian territory. This did not, however, bring an end to French, Franco-Canadian, presence in Northern Ontario. Rather, their "knowledge of the land and its inhabitants, of the waterways and of

the mechanics of the trade were vital to the success of their new employers, the Anglo-American and Scottish merchants of Montreal.” (Albanese 1984:35).

The result of this collaboration was a series of smaller commercial partnerships which continued to compete with the Hudson Bay Company. Competition between the Montreal-based partnerships themselves soon led to mergers, the largest of which resulted in the creation of the North West Company (NWC) in 1779. By 1800, the NWC was acquiring more furs than the HBC.

During this period, the Abitibi River was used extensively by fur traders from both companies, as well as independent trappers and traders. The French used it to attack British posts in the late 1600s, ascending the Abitibi from Montreal via the Ottawa River and Lake Timiskaming. While many of the James and Hudson Bay posts were established in the late 1600s, a few were set-up on or near the Abitibi River during 1700s. One was established by the French on Lake Abitibi in 1720, although its use was intermittent. A more permanent outpost, Abitibi House, was established there by George Gladman of the HBC in 1794. Ten years earlier the Pisquochagama Post, believed to have been located near, Clute, ON, was set-up; followed in Frederick House Lake post, established by the HBC’s Phillip Turnor in 1785.

Bitter rivalry between the HBC and NWC led to heavy use of the Abitibi from 1804 until the War of 1812. In 1813, the murder of an HBC trader at Frederick House led to that post’s closure, and a brief period of lesser activity. But trade along the route accelerated again in 1821 when the HBC and NWC merged. This period of intense use continued for about 50 years. Trade continued well into the twentieth century, and indeed continues today on a much lesser scale. However, the principal economic interest in Northern Ontario gradually shifted from the fur trade, to the exploitation of natural resources, since the last quarter of the twentieth century.

Apart from fur trading activities, the Abitibi had been travelled by a wide variety of adventurers, naturalist, geologist, and surveyors. A few of these include American naturalist Charles Drexler, who was sponsored by the Smithsonian Institute in 1860 to canoe from Lake Timiskaming to Moose Factory. In the early 1870s, geological surveyors Walter McOuat and A. S. Cochrane travelled from Lake Timiskaming and Lake Abitibi respectively, to Moose Factory. In 1882 the trip to Moose Factory was made by Anglican Bishop John Horden, who departed from the Ottawa River. Two years later, Fathers Paradis, Proulx and Nedelic, along with Bishop Lorrain and several oblates, canoed from Timiskaming to Moose Factory. Similar trip by clerics were made in 1892, 1894 and 1895 (Hodgins and Hoyle 1994:39-42).

The Clay Belts. The areas known as the Greater and Lesser Clay Belts were first surveyed by Dr. Robert Bell in 1887. The study area falls within the Greater Clay Belt, which is comprised of approximately 120,000 square kilometres in the Cochrane District. It runs north and

eastward from Kapuskasing (Map 3). The more southerly Lesser Clay Belt lies just north of Lake Timiskaming.

The Clay Belts were initially considered ideal agricultural lands, suitable for settlement by farming families. The government heavily promoted their development during and following the First War. As a result, the CD doubled its population between 1911 and 1921, and again between 1921 and 1931. By 1931, 200 of the Clay Belt townships surveyed contained, together, over 50,000 settlers. The survey recorded nearly 12,000 farms totally 1,999,000 acres of land (Pugh 1975:20).

Although they are comprised of very fertile low-lying regions of land, nestled amidst hilly and rocky terrain, conditions for the agricultural development of the Clay Belts proved to be greatly overstated. The short growing season and poor yield contributed to its general demise. By 1935 immigration had ground to a halt, and thousands of farmers had abandoned their land and returned to more established regions. "The advertising campaign was highly effective; reality was tragically different. Small clearings, containing a tiny log dwelling, a stable, and a few acres under cultivation with seeds scattered among the stumps provided a frugal living." (Pugh 1975:24)

1.3.4 Study Area History

Lands within the GToTe, GToBe and GToM, TD and GToB, GToCo, GToP, GToH, GToBo, GToC and GToT, CD were settled quite late by Euro-Canadian pioneers and much of the land within the project area was never settled permanently. Settlements within close proximity to the A8K/A9K corridor include Kirkland Lake, Bourkes, Wavell, Ramore, Vimy Ridge, Matheson, Watabeg and Val Gagne.

Town of Kirkland Lake. Euro-Canadian settlement in the area began in 1911 when William Wright and Ed Hargreaves began prospecting in the area. A large ore-bearing fault was discovered by Wright and movement into the region began in earnest.

Mining was the economic mainstay of Kirkland Lake until the latter half of the twentieth century. Rising production costs and an ongoing decrease in gold prices meant that many of the areas mines were decommissioned and former employees were left with rising economic hardships. An exodus from the area followed soon after. However, the early twenty-first century witnessed a new rise in gold prices and a new boom in the mining industry. The town population has begun to increase as jobs, once again, are plentiful.

Bourkes. Settled around 1911, the community centred on farming and as it was situated close to the railway, it prospered. However, the settlement was gradually abandoned as the mines

closed and lumber was no longer shipped via rail. Farmers began to move from the area in the 1950s and 1960s.

Wavell. Settled after World War I by Russian and Polish immigrants, the Village of Wavell is now comprised of only a couple houses. The village was originally called *Scotty's Spring* and the first house was built in 1907 by the Temiskaming and Northern Ontario Railway (personal communication, Lorna Fleece, 2013).

Ramore. Formerly named *Claybelt*, Ramore was settled before 1915. It was named after a prospector who was believed to have died in the area.

Vimy Ridge. No information could be found on this village.

Matheson. First named *MacDougall's Chute*, after a local First Nations trapper and the areas mining origins, Matheson was first settled in the early 1900s when the Ontario government constructed the Ontario Northland Transportation Commission Railway. Historically, this is a branch of the Temiskaming and Northern Ontario Railway (TNOR), incorporated in 1902. Construction of line started in the Municipality of Temagami in 1903. While building the track, workers had to blast through the Canadian Shield with explosives. This led to the discovery of minerals such as gold, silver, copper and nickel. The railway reached the present site of the Town of Cochrane in 1909. The TNOR Company changed its name to the Ontario Northland Railway in 1946, in part as an attempt to associate it with the Province of Ontario at large, rather than the Timiskaming region. Spur lines were constructed to serve new mines in Temagami (Sherman Mine, 1955), Kirkland Lake (Adams Mine, 1963), and Timmins (Kidd Creek Mine, 1967).

The famous Choesus mine is located in Matheson. Discovered in 1914, the mine held the largest concentration of pure gold ever discovered in the area.

The Great Fire of 1916 had its origins in Matheson. Killing more than 220 people, this fire burned more than 2,000 square kilometres and formed a 64 kilometre front from Porquis Junction to Ramore. From the lives lost and the lands devastated during this fire, the Ministry of Natural Resources formed the Ontario fire protections branch. This fire remains the greatest fire in Canadian history.

Watabeg. No information could be found on this village.

Val Gagne. Formerly Nushka, the Village of Val Gagne was rebuilt following the Great Matheson Fire. It was renamed Val Gagne after a local priest, Wilfrid Gagne, who perished rescuing parishioners from the flames.

1.3.5 Summary

The land registries, census records and historic maps show that this area has always been rural in nature and had a low level of occupancy throughout the eighteenth and nineteenth centuries (and into the twentieth and twenty-first) centuries. Historical background research indicates that there may have been some historic residences and agricultural buildings within the associated properties, however, there is no evidence to suggest that any of the project area (A8K/A9K line) was occupied during the Euro-Canadian settlement of the township.

1.4 Archaeological Context

1.4.1 Current Conditions

The project area is situated within portions of the Great Clay Belt as well as hilly and rocky terrain, thin and poor soils underlain with bedrock and low-lying, swampy areas. Much of the more productive areas have since been abandoned due to a short growing season and poor yields. Many of these subsistence farms are now fallow and have been slowly taken over by ever-growing vegetation.

The subject property also has a number of streams and creeks criss-crossing the area (Map 1). These all appear to drain into the Ottawa River. The northern portion of the project area (Lot 21, Concession 9 and ends on the north side of the Ottawa River) is dominated by lot-lying and wet lands and undeveloped secondary growth forest. Some of the vegetation noted within the project area included: spruce, pine, paper birch, poplar, fir, elm, chokecherry, aspen, pin cherry, tamarack, Queen Anne's lace, yarrow, dandelion, vetch, bedstraw, trefoil, black-eyed Susan, oxeye daisy, bugloss, bull thistle and chicory.

Images 1 to 29 are photographs which illustrate the current conditions of the project area. These can be found in Section 9.0.

1.4.2 Physiography

The assessment of physical and environmental conditions of a region is important to the analysis of past human settlement behaviour as well as for the interpretation of features and site patterns on the landscape. The cultural development of every society is strongly influenced by the surrounding natural environment which provides a finite set of resources that humans use to fulfill a variety of needs. Geomorphology, soils, water sources, climate, and vegetation are all significant factors in understanding patterns on the landscape. Changes in the landscape over time influences the types of cultural materials found during an archaeological assessment as well as their visibility.

Location. Located within northeast Ontario, the study area stretches approximately 75 kilometres. Its southern limit is located between Station Road North and Governmental Road East in the Town of Kirkland Lake. The Circuit A8K/A9K line extends northwards and ends just west of the Town of Val Gagne (Image 1). The line goes through the Districts of Timiskaming and Cochrane as well as ten (10) townships and in many locations, is easily accessible via numerous roadways.

Glacial History and Geomorphology. Landscape features seen today are the result of the most recent period of glaciation. Beginning with the Illinoian glacier and ending with the Wisconsinan, the ice masses advanced as far south as Ohio and as far east as the continental shelf edges. The first interstadial period, the Sangamonian, witnessed ice retreat of the Illinoian glacier as far north as Hudson Bay. At this time, Easton (1992) posits that global temperatures were warmer or similar to that which we experience today. This period extended until approximately 75,000 years BP with the onset of the Wisconsinan glaciation.

The Wisconsinan glaciation is characterized by a series of advances (stadials) and retreats (interstadials), scouring, transporting and depositing surface materials across Ontario. Seven major stadials and six interstadials, along with several minor phases, have been recorded (Table 2).

Table 2. Major stadial and interstadial periods, including timelines and features, of the Wisconsinan glaciation (taken from Remmel 2009:20-23).

Period	Stadial / Interstadial	Years BP	Feature /s
Nicolet	Stadial	70,000	-blocked the St. Lawrence River -caused water to dam into Lake Scarborough -created the Scarborough Bluffs
St. Pierre	Interstadial	67,000	-St. Lawrence is free of ice -Great Lakes waters drain towards the Atlantic Ocean
Guildwood	Stadial	55,000	-ice covers all of Ontario and extends into northern US
Port Talbot	Interstadial	48,000 - 36,000	-two warm intervals separated by a cold phase -palynological studies indicate boreal tree taxa -meltwaters drain through present-day New York

CIRCUIT A8K/A9K LINE

STAGE 1 ARCHAEOLOGICAL ASSESSMENT

Cherrytree	Stadial	35,000 - 28,000	-ice sheet covers most of Southern Ontario -formation of Glacial Lake Thorncliffe
Plum Point	Interstadial	27,000	-ice retreats across Ontario
Nissouri	Stadial	20,000	-ice sheet reaches maximum extent
Erie	Interstadial	15,000	-ice retreats -Lake Erie drains eastward through the St. Lawrence River
Port Bruce	Stadial	14,000	-ice advances across Ontario and into US
Mackinaw	Interstadial	13,000	-ice retreat causes splitting of ice lobes -split exposes a dome of higher land called Ontario Island -Proglacial Lakes Arkona I, II and III form at southern ice margins
Port Huron	Stadial	12,900	-short-lived advance -Glacial Lakes Lake Whittlesey, Warren I, Warren II, Wayne and Warren III form
North Bary	Interstadial	11,840 - 8,100	-warmer climate -ice retreats across Canadian Shield -drainage flows east -formation of Glacial Lake Grassmere
Driftwood	Stadial	8,200 - 8,100	-deposition of clay tills in the Lake Barlow-Ojibway region -about 8,000 Glacial Lakes Ojibway and Agassiz catastrophically drain into Hudson Bay

Retreat during this phase was quite rapid and a number of post glacial lakes developed as a result of meltwater flow and drainage, ice dams and glacial deposits. Consequently, substantial areas would have been inundated by the copious flow of meltwaters at elevations well above modern sea levels before the formation of drainage outlets. The deglaciation of the Hudson Plains occurred in four phases: 1) the development of Lake Agassiz-Ojibway between approximately 13,000 and 8,450 BP along the southern margin of the Laurentide Ice Sheet (Map 4); 2) the development of a calving bay in the Hudson Strait that migrated south

between the Keewatin Ice Sector (KIS) and the Quebec Labrador Ice Sector (QLIS); 3) Cochrane ice surges into Lake Agassiz-Ojibway approximately 400 years before drainage; and, 4) the final drainage of Lake Agassiz-Ojibway and the invasion of the Tyrrell Sea (Jakobsson 2008:152; Lajeunesse 2008:343; Lajeunesse and St. Onge 2008:184) (Figure 5).

The Tyrrell Sea inundated the lands bordering Hudson and James bays into Manitoba, Ontario and Quebec and only began to recede north approximately 6,000 years ago leaving behind remnants of relict coastal landforms. Isostatic rebound of the surface lifted the region as much as 270 to 280 metres and shifted the shoreline between 100 to 250 kilometres north (Lajeunesse 2008). This reshaping of the landscape left a low-lying margin of land surrounding the bays. Approximately 2,000 years ago the present boundaries of Hudson Bay and James Bay emerged.

However, it is important to note that throughout this period glacial retreat was neither uniform nor continuous, and isolated readvances and recessions occurred on multiple occasions during the late Pleistocene and early Holocene Period. This region was shaped and reshaped through glacial scouring of the surface and glacial recession created post glacial lakes, rivers and streams which eventually produced complex glaciofluvial complexes and also resulted in the deposit of till materials across the landscape.

As these glacial water sources drained, the zones created could have supported an extensive variety of animal, insect, bird, and vegetation species. Resource exploitation of these zones by early peoples is supported by the discovery of archaeological sites along the edges of ancient shorelines (palaeoshorelines) across North America.

Palaeoecology. The last ice age completely disturbed vegetational patterns throughout Ontario. Climatic warming marked an official end to the Pleistocene Period and caused an abrupt change in the composition of forests, woodlands and parklands south of the ice sheets.

With deglaciation, vegetation migrated northwards and different species populated the ice free margins. Palynological analysis of pollen grains (Pielou 1991; Remmel 2009:30; Wright 1964) illustrates that more diversified vegetation developed with slight differences noted between the west side of the continent and the lowlands and east side of the continent. Furthermore, the process of recolonization depended on the production rates of different species and their ability to grow on freshly exposed terrain which may have reduced pH levels (Matthews 1992:122). Initially, species more common to herbaceous tundra environs grew (i.e., herbs, mosses and lichens) followed by shrub tundra communities (i.e., sedges and small shrubs) and then to spruce (*Picea* ssp.) and poplar (*Populus* ssp.) woodlands. Warming temperatures also encouraged deciduous growth like hemlock and beech and also caused treelines to shift northward, terrestrial and marine species to increase their range northward, and in the mountains, caused the above to shift to higher elevations.

Climatic upheavals wrought diverse changes amongst terrestrial and marine animal and bird migration patterns and habitats. It may be assumed that mammals typically found today in these environments, would have been present during the late Pleistocene and early Holocene Periods in the project area (i.e., caribou, bear, fox, hare, chipmunk, squirrel, mouse, weasel, lemming, vole, moose, porcupine and bat) (Remmel 2009:32). Today, mammals such as black bear (*Ursus americanus*), moose (*Alces alces*), white-tailed deer (*Odocoileus virginianus*) and wolf (*Canis lycaon*) are commonly seen throughout the region.

Physiography and Geology. Located within Ontario's second northernmost terrestrial ecozone, the region between the Hudson Plains and the Mixed Wood Plains, is the Boreal Shield (Map 5). According to Natural Resources Canada (2011):

"This ecozone is covered with a multitude of lakes and contains about 10% of all Canada's freshwater. The land is well irrigated. The terrain is a massive rolling plain of ancient bedrock. The climate is continental with long cold winters and short warm summers. Precipitation is abundant. Boreal forest, mixed with innumerable bogs, marshes and other wetlands, covers this ecozone."

Although this ecozone is quite young, only emerging with glacial recession, the precambrian nature of the region speaks to much older origin. This is a rugged upland composed of ancient igneous and metamorphic rocks. It is a region of shallow soils, glacial tills, extensive forests, sparse agricultural settlement, dispersed urban centres, and is characterized by high, rolling, and often flat-topped hills of Precambrian granite, marble, or gneiss bedrock. The bedrock of this region is composed of carbonate sedimentary formations dating primarily back to the Silurian Period but also to the Ordovician and Devonian Periods (Baldwin et al. 2000:3).

Bedrock geology within the project area is comprised of Archean Era rocks (Map 6). The Shield is broken into many sections, or "provinces." Almost 3 billion years ago, these provinces began to rub against each other, causing friction and a build up of pressure. Many fissures and faults were created in the area as the Earth's crust twisted, sheared, and folded. Molten material, specifically andesite, a dark grey coloured rock, was forced up through the fissures to the surface. As it reached the ground, the new rock, in some cases carrying precious metals such as gold and silver, cooled and became part of the landmass. These ancient folded rocks are known as Greenstone belts which eventually were overlain with more recent glacial sediments.

The area surrounding the project area is composed of formations from the Superior Province. Specifically, these rocks are comprised of felsic to intermediate metavolcanic rocks, mafic to intermediate metavolcanic rocks, diorite-monzonite-granodiorite suite, mafic and ultramafic intrusive rocks and metasedimentary rocks.

One of the most common characteristics of Palaeoamerican material assemblages is the prevalence of cherts and similarities of lithic tools across wide ranging regions (Mason 1981, 1986; Goodyear 1989). Chert is a fine-grained, siliceous material which is easy to knap and therefore commonly used in the production of stone tools. In addition to chert use, quartz materials were also widely utilized, particularly in more northern regions or within the Canadian Shield, where quartz and quartzite materials were more locally available.

Soils. Soil, in terms of its morphological characteristics, is defined as unconsolidated surface material forming “natural bodies” made up of mineral and organic materials as well as the living matter within them. It is a dynamic entity with materials continually and simultaneously absorbed, released and transformed.

The formation of soils is heavily influenced by its parent material, climate, topography, bio-activity and time, however, it is mainly the combined effects of climate and living matter that convert a material to soil. For example, in moisture-rich environs, the dampness and rich vegetation may lead to deep, richly organic soils, good for agricultural production. However, in desert areas, where precipitation is low, the lack of moisture and vegetation may lead to sparse soil development and where soils exist, they may be thin and highly mineral. Furthermore, human disturbances such as grave sites, dwellings, agricultural activities and garbage dumps may also affect soil development, giving it other unique characteristics.

The soils of the project area formed to their current composition over the past 10,000 years or so; since glacial melting at the end of the last ice age. Soils formed from glacial deposits vary in composition depending on the rock type over which the glacier travelled. Since glaciers advance and retreat with time, the composition and depositional environment of the parent material can be quite complex. Overall, the texture of soil produced in glacial deposits reflects the mode and distance of transport as well as the type of rock scoured. Shale and limestone scouring tends to produce a soil with relatively more clay and silt-size materials, whereas igneous and metamorphic rocks produce mostly sandy soils. Deposits beneath the ice usually result in finer textured, denser materials, whereas outwash and front and side deposits are generally coarser. Furthermore, glacial till, glaciofluvial and glaciolacustrine sediments often occur in close association. With time, soil horizons, or “zones within the soil that parallel the land surface and have distinctive physical, chemical and biological properties” develop (Holliday 2004:3). Soil horizons together, form a profile; a vertical arrangement of horizons seen in a two-dimensional arrangement (what we see during observations).

The soils of TD and CD vary considerably, with glacial surface deposits and deep, well-drained soils (Ontario Institute of Pedology 1978). The only soil maps available provided information for the areas around Kirkland Lake, Porquis and Matheson (Maps 7, 8 and 9). As such, the project areas, within these two regions, are comprised of 18 soil types: Pyne sandy loam (Pysl), Rock (R), Hanna sandy loam (Hnsl), Shetland loam (Shl), Clegg clay loam (Ccl),

Hearst clay loam (Hecl), Shetland clay loam (Shcl), Jeannie gravelly sand (Jngs), Ryland clay loam (Rycl), Alpine silt loam (Apsil), Clegg silt loam (Csil), Hearst silt loam (Hesil), Tunis clay loam (Tcl), Delray clay loam (Decl), Tunis silt loam (Tusil), Pyne silt loam (Psil), Wade (We), Belle Vallee (Bv) (Maps 7 and 8; Table 3).

Table 3. Soil characteristics of the project areas around Kirkland Lake and Matheson.

Soil Type	Texture	Topography	Drainage	Great Group
Pyne sandy loam (Pysl)	stonefree	level to gently sloping	imperfect	Gleyed Humo-Ferric Podzol
Rock (R)	very stony	undulating to rolling		
Hanna sandy loam (Hnsl)	very stony	undulating to rolling	well	Ortho Humic-Ferric Podzol
Shetland loam (Shl)	stonefree	gently sloping	poor	Orthic Humic Gleysol
Clegg clay loam (Ccl)	stonefree	undulating	moderately well	Orthic Gray Luvisol
Hearst clay loam (Hecl)	stonefree	gently sloping	imperfect	Gleyed Gray Luvisol
Shetland clay loam (Shcl)	stonefree	level to gently sloping	poor	Orthic Humic Gleysol
Jeannie gravelly sand (Jngs)	very stony	undulating to rolling	well	Ortho Humic-Ferric Podzol
Ryland clay loam (Rycl)	stonefree	level to gently sloping	moderately poor	Orthic Humic Gleysol
Alpine silt loam (Apsil)	stonefree	moderately to strongly sloping	moderately well	Orthic Gray Luvisol
Clegg silt loam (Csil)	stonefree	gently sloping	moderately well	Orthic Gray Luvisol
Hearst silt loam (Hesil)	stonefree	gently sloping	imperfect	Gleyed Gray Luvisol
Tunis clay loam (Tcl)	stonefree	level to gently sloping	moderately poor	Orthic Humic Gleysol
Delray clay loam (Decl)	stonefree	undulating	well	Orthic Gray Luvisol

Tunis silt loam (Tusil)	stonefree	level to gently sloping	moderately poor	Orthic Humic Gleysol
Pyne silt loam (Psil)	stonefree	level to gently sloping	imperfect	Gleyed Humo-Ferric Podzol
Wade (We)	stonefree	level to gently sloping	Terric Humisol	poor
Belle Vallee (Bv)			Typic Mesisol	

Hydrology. The greatest of the post-glacial lakes in the region was Lake Ojibway- Barlow. This lake was named after the First Nations peoples in the area, and the geologist who discovered its boundaries and suggested its history. While this lake has not existed for many millennia we know that it was larger than the present Great lakes. The shoreline of Lake Ojibway-Barlow stretched from the town of Kapuskasing eastward into Quebec and had an average north-south width of approximately 240 km.

The modern water courses we see today evolved as their ancestral waterways and their tributaries adjusted to the retreat of glacial meltwaters. During glacial melt and ice retreat at the end of the Pleistocene and beginning of the Holocene periods, there was a much larger flow of water through the project area than at present and on several occasions, rivers shifted into new channels.

The project area is now located within various watersheds within the larger Hudson Bay drainage basin (Map 7), and is drained via a number of meandering waterways (Map 1; Image 1). Watersheds are typically defined by the topography of the surrounding landscape and includes such factors as shape, contours and elevations. They are comprised of streams, creeks, brooks, rivers, lakes, ponds, wetlands, estuaries, uplands, forests and meadows and also shorelines.

Present within, or within relative close vicinity to the project area today are lakes (i.e., Kirkland Lake, Lower Kirkland Lake, Wendtwright Lake, Wolf Lake, Colvin Lake, Galloway Lake, , etc.), rivers (i.e., Driftwood River, Black River, Watabeg River, Pike River, Whiteclay River, , etc.), creeks and streams (i.e., Wolf Creek, Malloch Creek, Wildgoose Creek, Russell Creek, Warbler Creek, Amkoungami Creek, etc.) and a number of low-lying and wet areas identified as marsh or swamp in the northern portion of the project area. Although the geography of the area has been largely shaped by the geomorphology of the region, many of these watersheds have been altered by human intervention; a by-product of development.

Water routes played a very important role in the early development of Canada and served as transportation routes for pre-contact First Nations groups prior to, and following, European

arrival. These water sources were used to traverse the interior of the province prior to the construction of railways and roads. The potential for the discovery of archaeological resources increases drastically in particularly difficult areas along these routes, such as at rapids or chutes, where a portage was necessary. In addition, the shores of rivers and creeks were particularly attractive for temporary and semi-permanent settlement, especially in areas of the shore that were easily accessible by water. These areas were of particular interest, not only for their transportation value, but for access to potable water and foodstuffs, especially fish. The presence of secondary water sources, including permanently or seasonally inundated swamps, offered access to a variety of resources, including migratory birds, rice, and reeds for basket-making.

Climate. Modern climatic variation depends almost entirely upon location and human impacts on the environment. The project area, located in eastern Ontario, along the Ottawa River, is influenced by the modifying factor of the Great Lakes. The Great Lakes tend to add moisture to the air in the autumn and winter in conjunction with protecting the region from the worst of the cold during the winter months, and during the spring and summer they act to moderate the temperature of the region. This produces an ideal environment for agricultural practices as the growing season tends to be longer and the cold months not as harsh as through the remainder of Canada.

1.4.3 Previous Archaeological Assessments

Archaeological research within Ontario is often limited to discoveries made during development activities. However, this does not necessarily reflect the known and unknown, yet unrecorded archaeological history of the area. Throughout the nineteenth and early twentieth century, as Euro-Canadian settlers and loggers penetrated the forests and lakes of the region, some would encounter and collect evidence of past First Nations activities, in the form of stone and copper tools, or organic paraphernalia. This practice continued well into the twentieth century and is still carried out to this day by cottagers, tourists, and local residents, some who have amassed significant collections. Furthermore, there are oral references to evidence of pre-contact First Nations occupation made by the first Euro-Canadian settlers to the region, which sometimes results in sites being “recreationally” excavated by non-professional archaeologists.

With increased sensitivity towards the need to preserve cultural heritage within the Province, hundreds of archaeological projects have been recently undertaken within Ontario. Often initiated by development projects, including infrastructure development and improvement, subdivision applications, and construction activity, First Nations and early Euro-Canadian history of the region is being revealed.

A search of the database of archaeological assessments found that no archaeological assessments have been conducted within 100 metres of the study area.

1.4.4 Registered Archaeological Sites

The Ontario Ministry of Tourism, Culture and Sport maintains a database (OASD) of all known registered archaeological sites in the Province. A search of the database within a one (1) kilometre radius around the study area indicates an absence of registered archaeological sites (Rob von Bitter, personal communication, June 2018).

1.4.5 Historical Plaques

Aside from the presence of nearby registered archaeological sites, other indicators of the presence of extant archaeological remains are the proximity of historical plaques to the study area that commemorate important events in a region's past, whether it be the birth of an individual, the site a specific battle, or the construction of a unique building. Generally, historical plaques and markers point to a specific locale on the landscape that can be visited by the public. Although plaques and markers may not be placed in the exact location that the event has occurred, generally it is in close proximity, taking into consideration access to the public. In Ontario, historical plaques may be erected by the federal government through the Historic Sites and Monuments Board of Canada (HSMBC), the Ontario Heritage Trust (OHT), and local heritage agencies or historical societies. One historical plaque was noted within the Town of Matheson (greater than 1 km to the northeast). It denotes the Great Fire of 1916 and was placed by the Archaeological and Historic Sites Board of Ontario.

1.4.6 Summary

Archaeological and cultural heritage work conducted in the immediately surrounding area has not provided any evidence of archaeological remains. However, the physical setting of the project area indicates that it may retain potential for extant cultural materials associated with pre-contact First Nations and Euro-Canadian settlement in the area.

Pre-contact First Nations groups migrated across Ontario, likely following the ice sheet as it receded northwards and adapting to the changing environment. The newly exposed landscape would have been a productive ecozone, with large numbers of terrestrial and marine mammals, birds, insects and vegetation populating the margins. This biomass would have been considerable and would have offered a readily available food source for migrating populations. Archaeological and cultural heritage work conducted in the surrounding area has provided evidence of archaeological remains, dating back to the Late Archaic period and extending into the Historic period.

2.0 FIELD METHODS

A Stage 1 property inspection of the Project Area was undertaken by Laura McRae, Derek Paauw and Yvonne Walford between July 2, 2018 and July 5, 2018 under the professional archaeological consulting license P248 (P248-0319-2018) in order to observe the current land conditions and evaluate the Project Area's archaeological potential. The inspection was undertaken to determine if there were any areas of disturbance which would affect archaeological potential and to determine which survey strategies would be appropriate for a Stage 2 property survey, should one be required.

The site inspection covered all of the study area. Unfortunately, as portions of the study area were comprised of privately owned land, only those areas publicly accessible were visited (Images 1 to 29; Maps 11 to 23).

The weather between July 2 and July 5, 2018 was hot and humid with an average temperature of 29°C. The lighting conditions were good. At no time during the archaeological assessment were weather or lighting conditions detrimental to the observation of features of archaeological potential.

The Project Area is made up of the Circuit A8K/A9K corridor, and is criss-crossed by a variety of highways, gravel roads, creeks, rivers, low-lying and wet marshes and swamps, steep slopes and exposed bedrock. There are no listed or registered heritage properties or cemeteries within the Project Area, or within 50 m of the Project Area.

Topographic maps and orthographic images were examined to confirm if features of archaeological potential were present and if there were any areas of extensive disturbance which would have removed archaeological potential.

Through the course of the property inspection, no archaeological remains were noted within the proposed project area.

Field notes and photographs of the study areas were taken during the inspection by Laura McRae. Image locations and orientations were noted and are illustrated on the site conditions maps (Maps 11 to 23).

The archaeological assessment was carried out following project approval. Therefore, the Proponent was able to provide shapefiles of the study area corridor (showing location and width) in advance of the stage 1 archaeological assessment. These plans and .kmz files (google earth) were used for base mapping of conditions and potential.

Table 4. Photo # and description.

Photo #	Description
1	Viewing south from Monahan Road, across the Watabeg River.
2	Viewing southeast from Monahan Road and Bowman Carr Boundary Road across Russell Creek.
3	Viewing west from 4th Road.
4	Viewing west from Highway 11.
5	Viewing southeast from Vimy Ridge Road towards Granite Road.
6	Viewing northwest along Vimy Ridge Road from Hislop 4 Concession.
7	Viewing northwest from Highway 572.
8	Viewing north from Bastien Street in the Village of Ramore.
9	Viewing south along Old Ferguson Route from south of the Village of Ramore.
10	Viewing northwest from Owl Road and Old Ferguson Route.
11	Viewing north from Highway 11 towards Old Ferguson Route.
12	Viewing north from Highway 11 towards the A8K/ A9K Line fork.
13	Viewing south from North Butler Lake Road towards Malloch Creek.
14	Viewing south from Highway 11 and Butler Lake Road.
15	Viewing south along Highway 11.
16	Viewing southeast from Highway 11 towards Colvin Lake.
17	Viewing northwest from Bourkes Road .
18	Viewing northwest from Goodfish Road towards Kirkland Lake.
19	Viewing east from Station Road in the Town of Kirkland Lake.

3.0 ANALYSIS AND CONCLUSIONS

3.1 Archaeological Potential

Levels of potential archaeological significance are assigned by applying provincial environmental assessment guidelines (Weiler 1980). The information includes the identification and evaluation of any feature that has one or more of the following attributes:

- * Potential can be determined via archaeological exploration, survey, or fieldwork. The information gleaned from these activities can provide answers to hypothesized questions (i.e., relate to particular times and places) regarding events and/or processes that occurred in the past, thereby adding to our knowledge and appreciation of history.
- * Potential may be determined through archaeological exploration, survey, and fieldwork that may contribute to testing the validity of anthropological principles, cultural change and ecological adaptation, thereby contributing to the understanding and appreciation of our human-made heritage.
- * The possibility that various technical, methodological, and theoretical advances might occur during archaeological investigation of a feature, alone or in association with other features exists. This therefore may contribute to the development of better scientific means of understanding and appreciating our human-made heritage.

Evaluating the archaeological potential of an area involves the assessment of various criteria. The most common criterion used to evaluate archaeological potential relates to its physical setting which may include potable water sources, elevated landforms, and well-drained areas to which First Nations settlement was often oriented, as well as the presence of fertile soils suitable for cultivation. Features and characteristics that indicate archaeological potential are defined within Section 1.3.1 of the S&Gs (MTCS 2011:17-18) and include:

- * Previously identified archaeological sites;
- * Water source:
 - * Primary water sources (e.g. lakes, rivers, streams, creeks);
 - * Secondary water sources (e.g. intermittent streams and creeks; springs; marshes; swamps);

- * Features indicating past water sources (e.g. glacial lake shorelines indicated by the presence of raised sand or gravel beach ridges, relic river or stream channels, shorelines of drained lakes or marshes and cobble beaches);
- * Accessible or inaccessible shoreline (e.g. high bluffs, swamps or marsh fields by the edge of a lake, sandbars stretching into marsh);
- * Elevated topography (eskers, drumlins, large knolls, plateaux);
- * Pockets of well drained sandy soil, especially near areas of heavy soil or rocky ground;
- * Distinctive land formations that might have been special or spiritual places, such as waterfalls, rock outcrops, caverns, mounds, and promontories and their bases;
- * Resource areas including:
 - * Food or medicinal plants;
 - * Scarce raw minerals (e.g., quartz, copper, ochre or outcrops of chert);
 - * Early Euro-Canadian industry (fur trade, logging, prospecting, mining);
- * Areas of early Euro-Canadian settlement including:
 - * Early military or pioneer settlement (e.g., pioneer homesteads, isolated cabins, farmstead complexes);
 - * Early wharf or dock complexes, pioneer churches and early cemeteries;
- * Early historical transportation routes (e.g., trails, passes, roads, railways, portage routes);
- * Property listed on a municipal register or designated under the Ontario Heritage Act or that is a federal, provincial or municipal historic landmark or site;
- * Property that local histories or informants have identified with possible archaeological sites, historical events, activities or occupations.

Many of the above features of archaeological potential have a buffer assigned to them, extending the zone of archaeological potential beyond the physical feature. The following buffers are commonly accepted by the MTCS and specifically indicated in Section 1.4 of the S&Gs (MTCS 2011:20-21).

* 300 metre buffer: previously identified archaeological site; areas of early Euro-Canadian settlement; or locations identified through local knowledge or informants;

* 100 metre buffer: early historical transportation route;

* No buffer, potential is restricted to the physical limits of the feature: elevated topography, pockets of well-drained sandy soil, distinctive land formations, resources areas, listed or designated properties and landmark properties.

As this project is located within Northern Ontario, alternative buffers have been identified by the MTCS and are specifically indicated in Section 2.1.5 of the S&Gs (MTCS 2011:35):

* 150 metre buffer: 50 metres from a modern water source; 150 metres from a glacial shoreline.

Features of archaeological potential found on or in the vicinity of the Project Area include: water sources (modern and ancient), areas of early Euro-Canadian settlement and early historical transportation routes.

3.2 Archaeological Integrity

A negative indicator of archaeological potential is extensive below grade land disturbance. This includes widespread earth movement activities that would have eradicated or relocated any archaeological resources to such a degree that their information potential and cultural heritage value or interest has been lost.

Activities that are recognized to cause sufficient disturbance to remove archaeological potential include: quarrying, major landscaping involving grading below topsoil, building footprints and infrastructure development. Activities including agricultural cultivation, gardening, minor grading and landscaping do not necessarily remove archaeological potential (MTCS 2011:18).

Archaeological potential can be determined not to be present for either the entire property or a part(s) of it when the area under consideration has been subject to extensive and deep land alterations that have severely damaged the integrity of any archaeological resources.

Natural physical features can also indicate that all or portions of a Project Area have low or no archaeological potential including: permanently wet areas, exposed bedrock and slopes greater than 20 degrees (except in locations likely to contain pictographs or petroglyphs).

3.3 Conclusions

The Stage 1 archaeological assessment of the Project Area determined that it had general archaeological potential to contain both pre-contact and Euro-Canadian archaeological resources (Maps 11 to 23). Following the criteria outlined above in section 3.1, a number of factors can be highlighted which suggest potential for both Pre and Post-contact First Nations archaeological resources. These include the proximity of a number of potable water sources, both ancient and modern (Lower Kirkland Lake, Amikougami Lake, Amikougami Creek, Wendtwright Lake, Wolf Creek, Wolf Lake, Whiteclay River, Colvin Lake, Malloch Creek, Wildgoose Creek, Little Wildgoose Creek, Black River, Russell Creek, Galloway Lake, Watabeag River, Wabblers Creek), historic concession roads and elevated topography (promontory).

When these potential criteria are applied to the Project Area, it exhibits archaeological potential for both pre-contact and post-contact First Nations sites. While areas of previous disturbance eradicate the potential for the recovery of archaeological resources, areas of no or low disturbance retain their potential.

Following the criteria above (Section 3.1), to determine historical Euro-Canadian archaeological potential, a number of characteristics are indicated: potable water (see water sources named above), early settlement in the area (Kirkland Lake [1911], Matheson [aka MacDougall's Chute <1906], Ramore [early 1900s] and Val Gagne [aka Nushka <1911]) and the presence various historic concession roads. When applying the potential criteria, the Project Area exhibits archaeological potential for historic Euro-Canadian sites. As with pre and post-contact First Nations sites, while areas of previous disturbance eradicate the potential for the recovery of archaeological resources, areas of no or low disturbance retain their potential.

However, some disturbance has occurred within the portions of the Project Area through development of Hwy 11, Monahan Road, Vimy Ridge Road, Hwy 572, Old Ferguson Route, where the A8K/A9K corridor extends alongside, removing some of its archaeological potential (Maps 24 to 36). Disturbance activities also include the construction of side roads.

This conclusion is consistent with the definition of “complete and intensive disturbance” described in Section 1.3.2 of the S&Gs (MTCS 2011:18).

4.0 RECOMMENDATIONS

Based on the background research and the results of the property survey, the archaeological assessment has provided the basis for the following recommendations:

- 1) All areas of delineated archaeological potential that will be affected by development must be subject to a Stage 2 archaeological assessment prior to any ground-disturbing activities (Maps 24 to 36).
- 2) A Stage 2 archaeological assessment will be conducted by a licensed consultant archaeologist as per the Standards and Guidelines for Consulting Archaeologists for work in Northern Ontario (Section 2.1.5): a) Test-pitting is required between 0 to 50 metres from a modern water source at intervals of five metres and a survey is not required past 50 metres; b) For features of archaeological potential other than modern water sources, such as the known transportation routes and areas of ancient water sources, test-pitting is required in intervals of five metres 0 to 50 metres from the features. From 50 to 150 metres from the feature, test-pitting intervals can be a maximum of 10 metres; and c) Survey is not required beyond 150 metres.
- 3) The Stage 2 archaeological assessment will follow the requirements set out in the 2011 Standards and Guidelines for Consultant Archaeologists (MTCS 2011).
- 4) Should construction activities associated with this development extend beyond those areas assessed during this project, further archaeological investigation will be required prior to ground-disturbing activities.
- 5) Notwithstanding the results and recommendations presented in this study, The Central Archaeology Group Inc. notes that no archaeological assessment, no matter how thorough or carefully completed, can necessarily predict, account for, or identify every form of isolated or deeply buried archaeological deposit. Therefore, in the event that archaeological remains are found during subsequent construction and development activities, the consultant archaeologist, approval authority, and the Cultural Programs Unit of the Ministry of Tourism, Culture and Sport should be immediately notified.

The MTCS is requested to review, and provide a letter indicating their satisfaction with, the results and recommendations presented herein, with regard to the 2011 Standards and Guidelines for Consultant Archaeologists and the terms and conditions for archaeological licenses, and to enter this report into the Ontario Public Register of Archaeological Reports.

5.0 ADVICE ON COMPLIANCE WITH LEGISLATION

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

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

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

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

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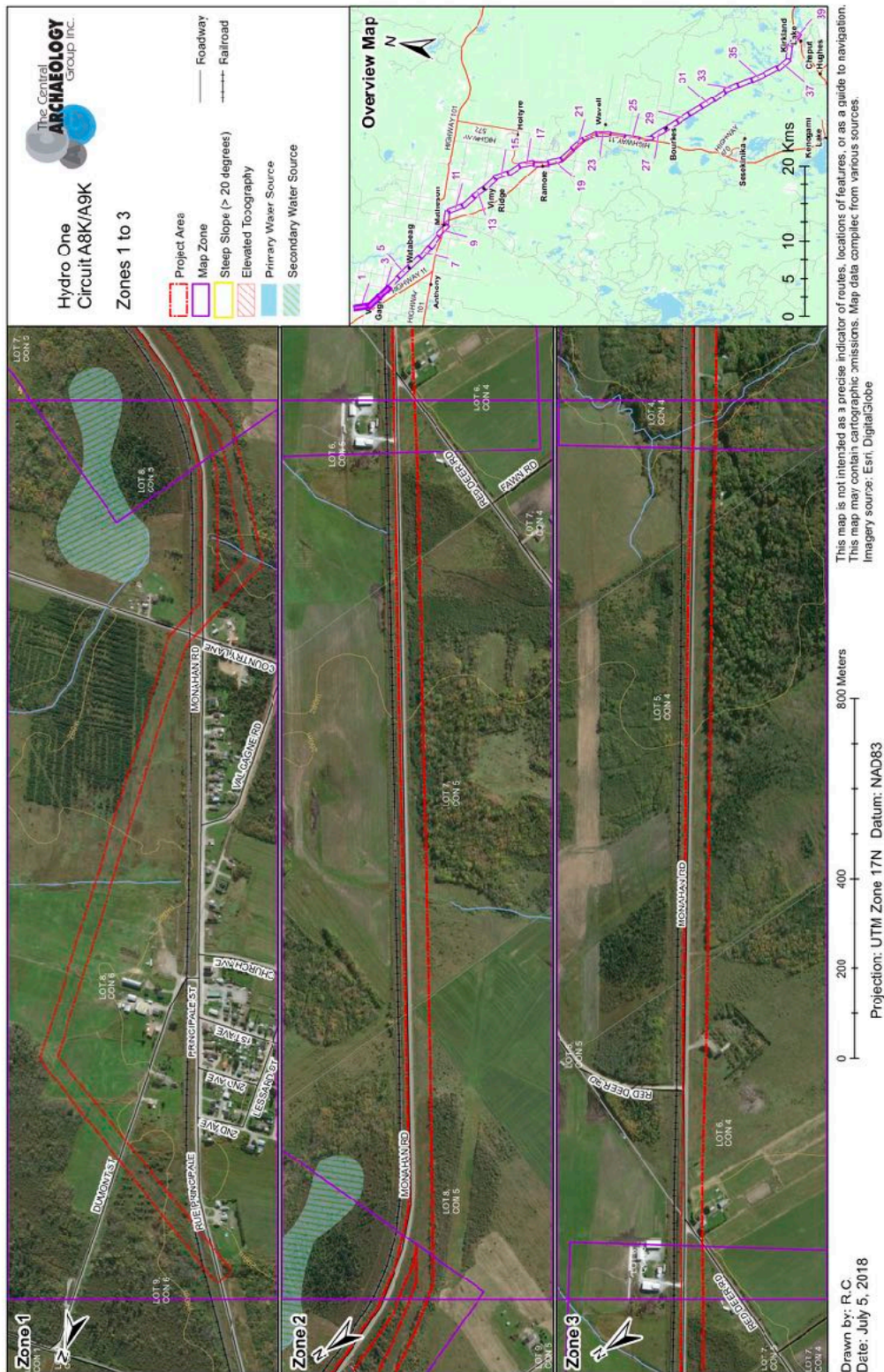
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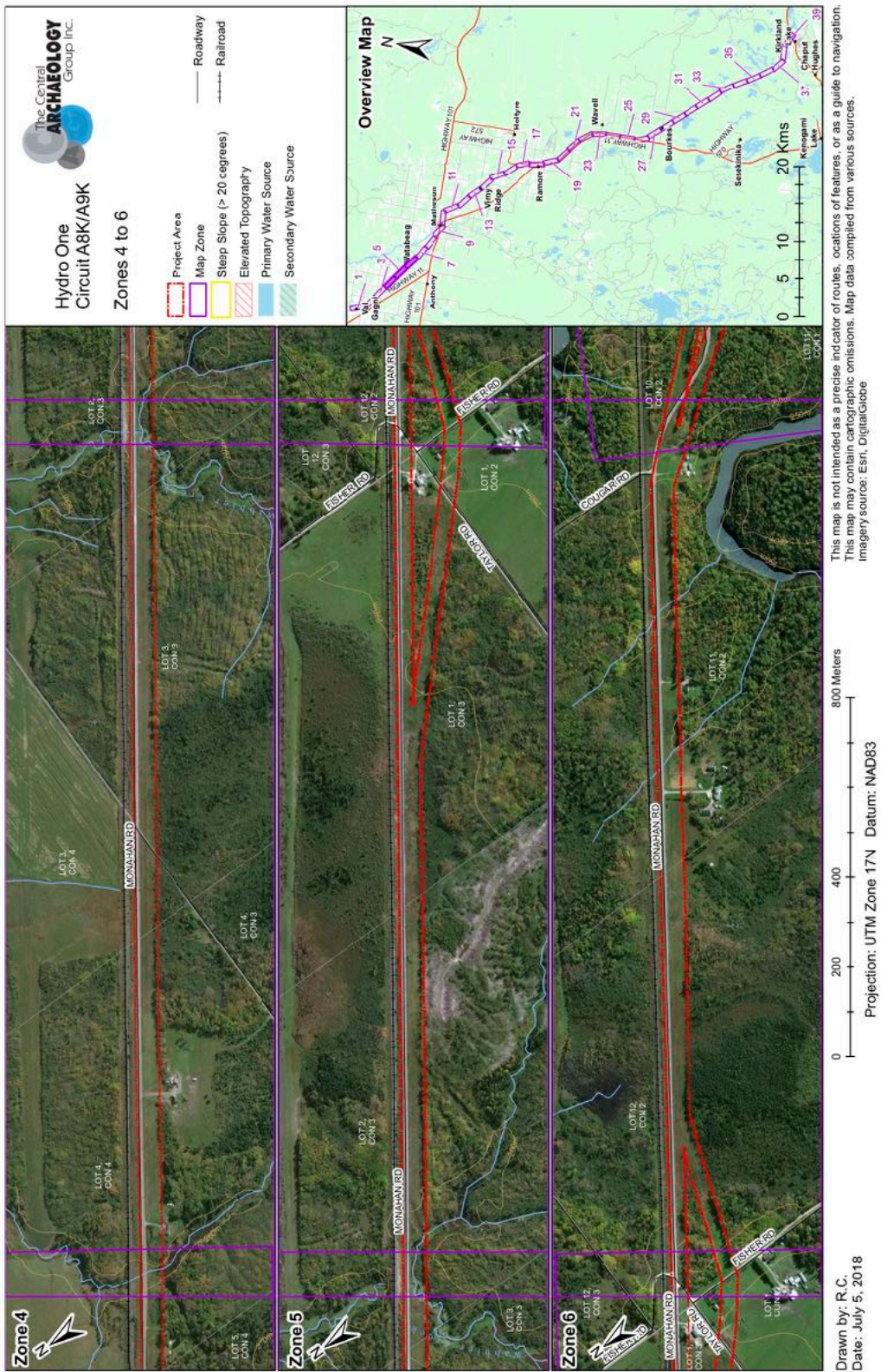
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7.0 PLANS



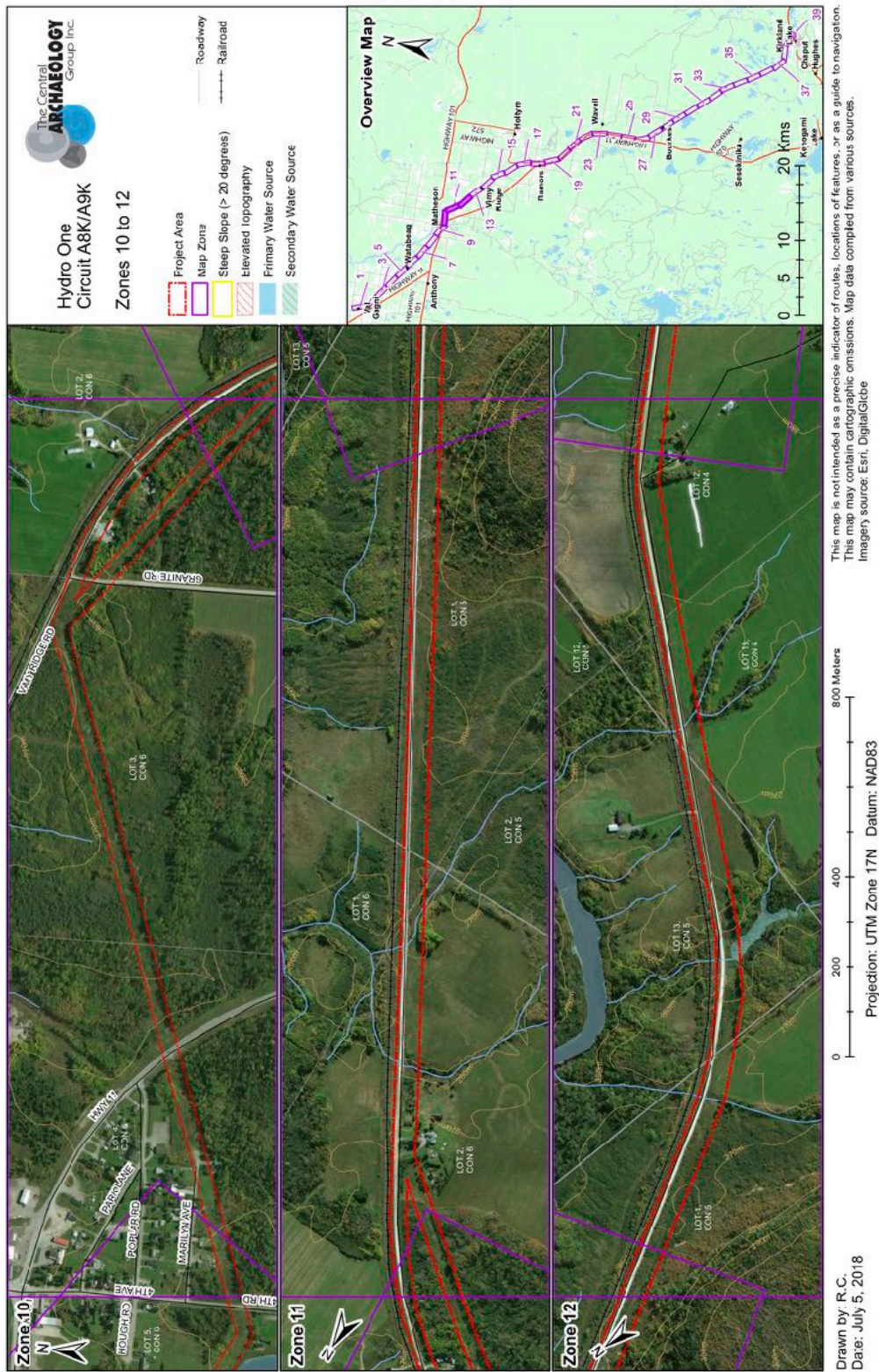
Plan 1. Plan of the project area (HONI). Zones 1 to 3.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



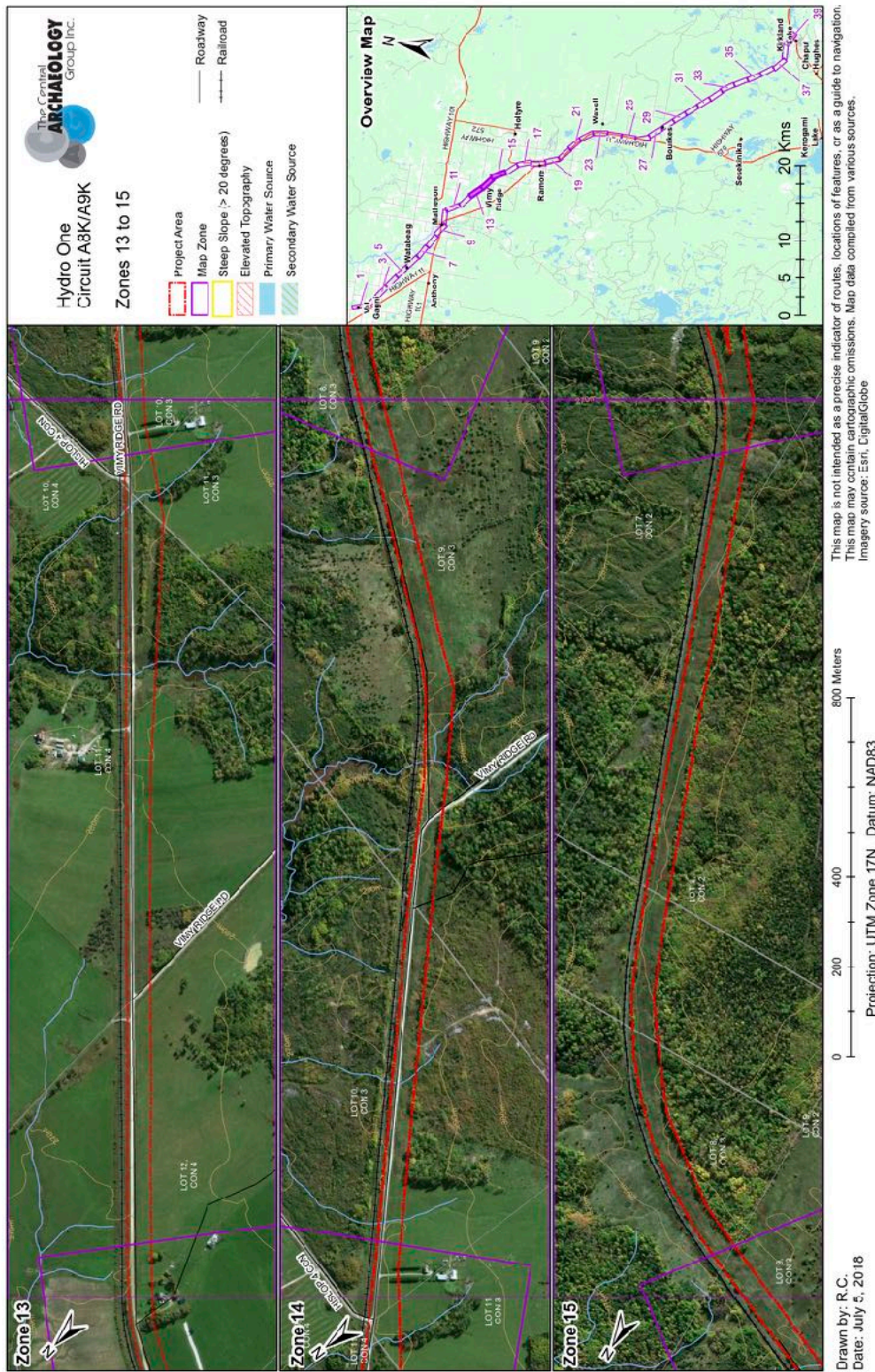
Plan 2. Plan of the project area (HONI). Zones 4 to 6.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



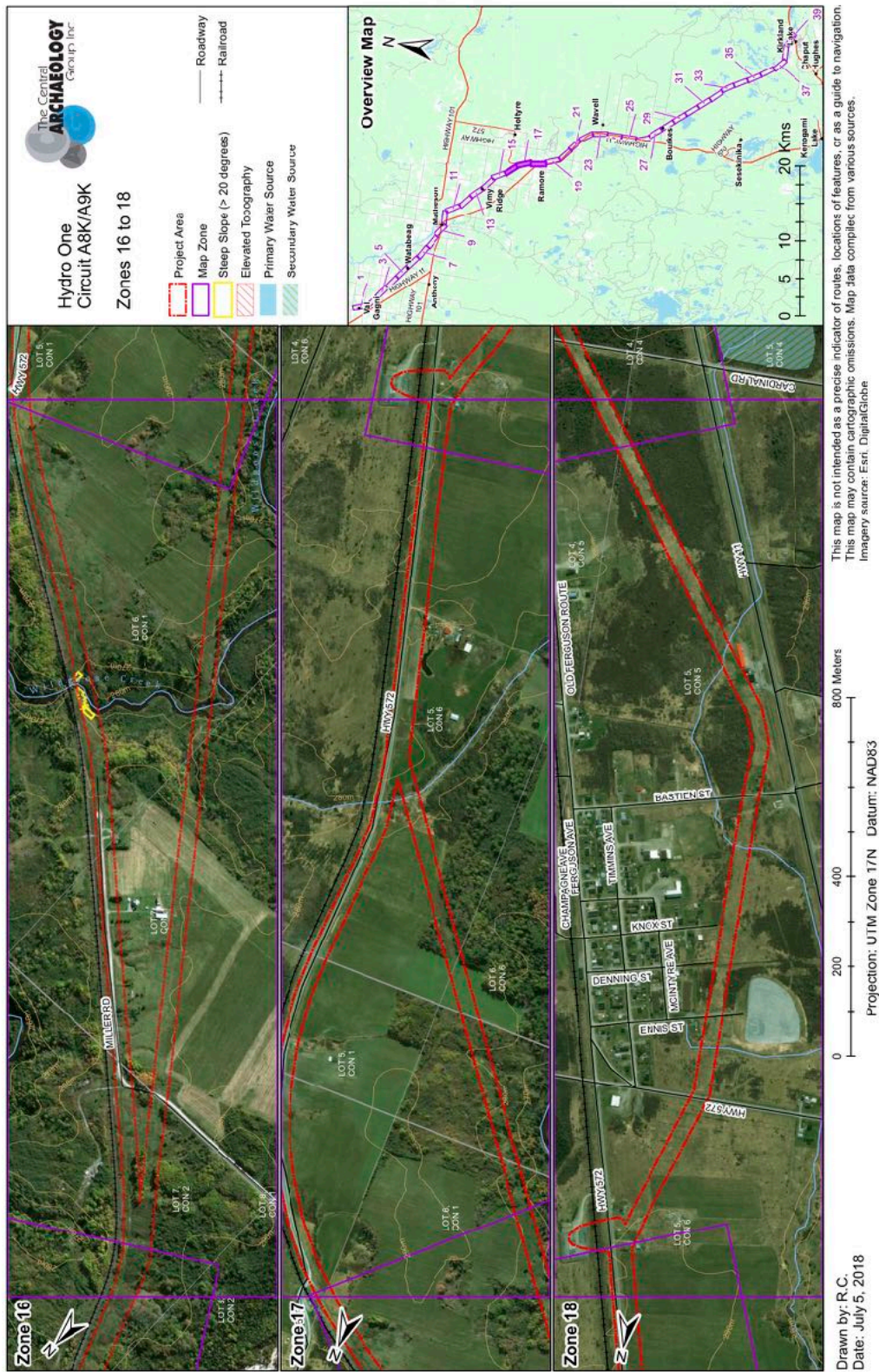
Plan 4. Plan of the project area (HONI). Zones 10 to 12.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



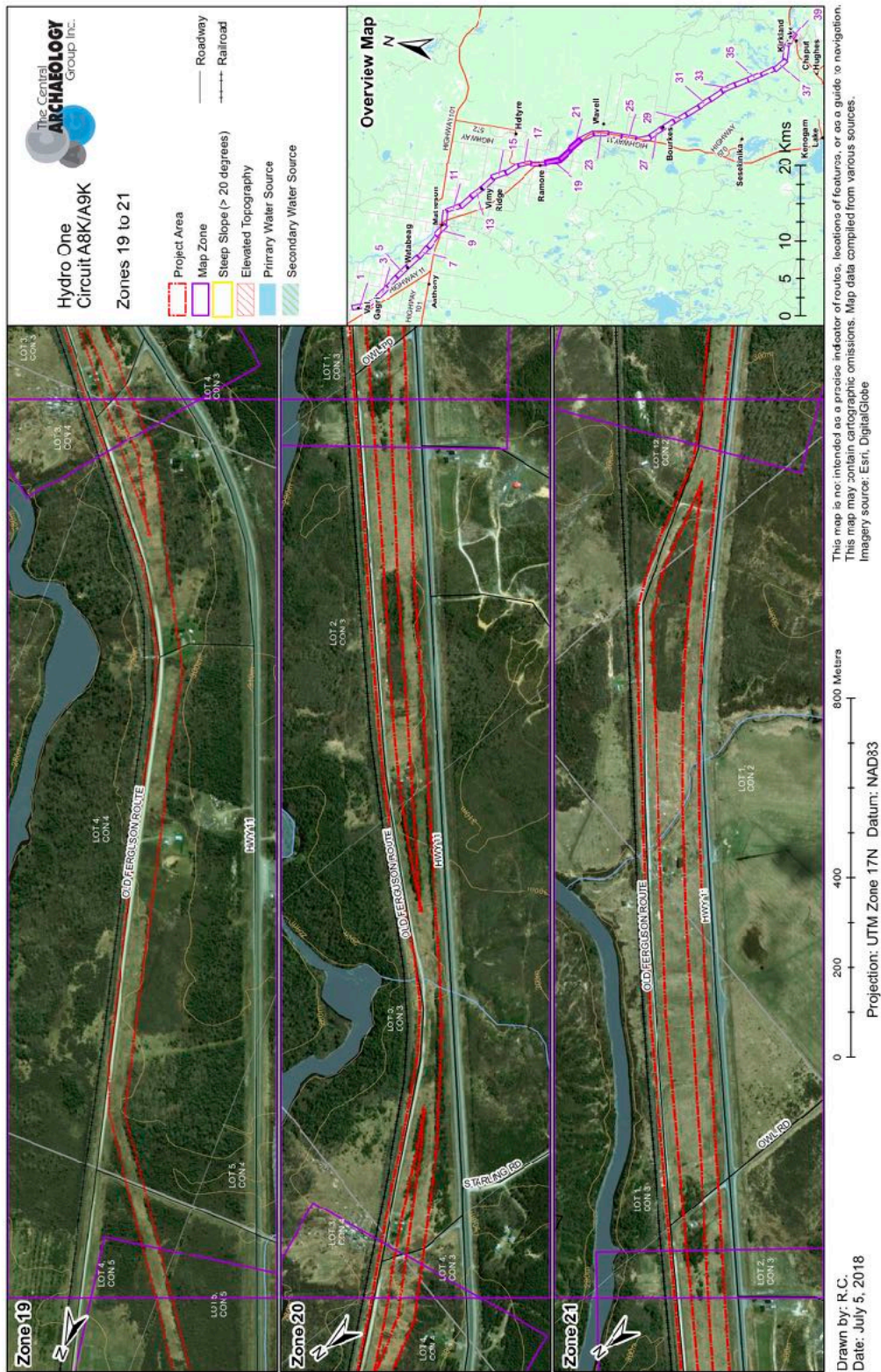
Plan 5. Plan of the project area (HONI). Zones 13 to 15.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



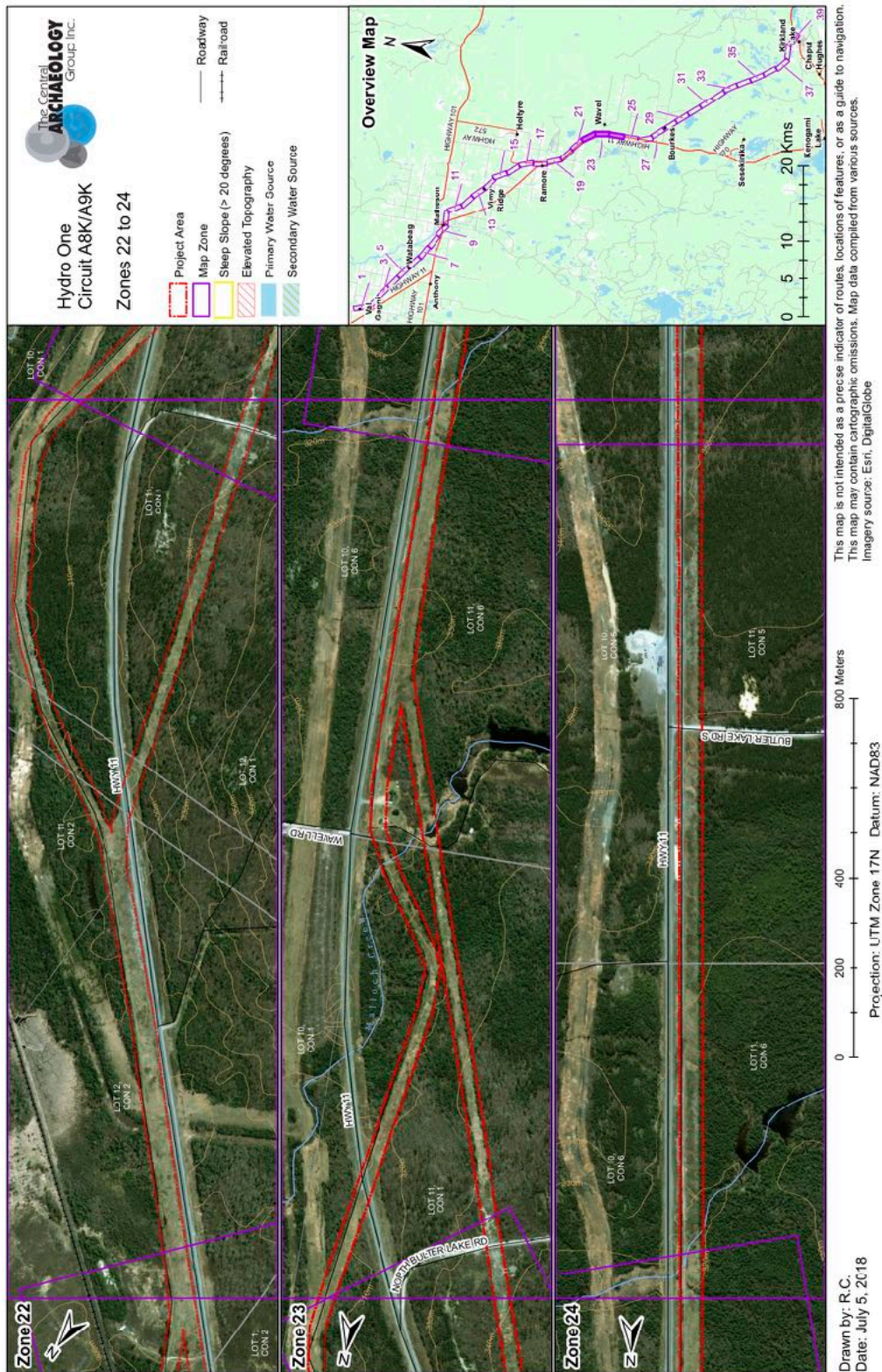
Plan 6. Plan of the project area (HONI). Zones 16 to 18.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



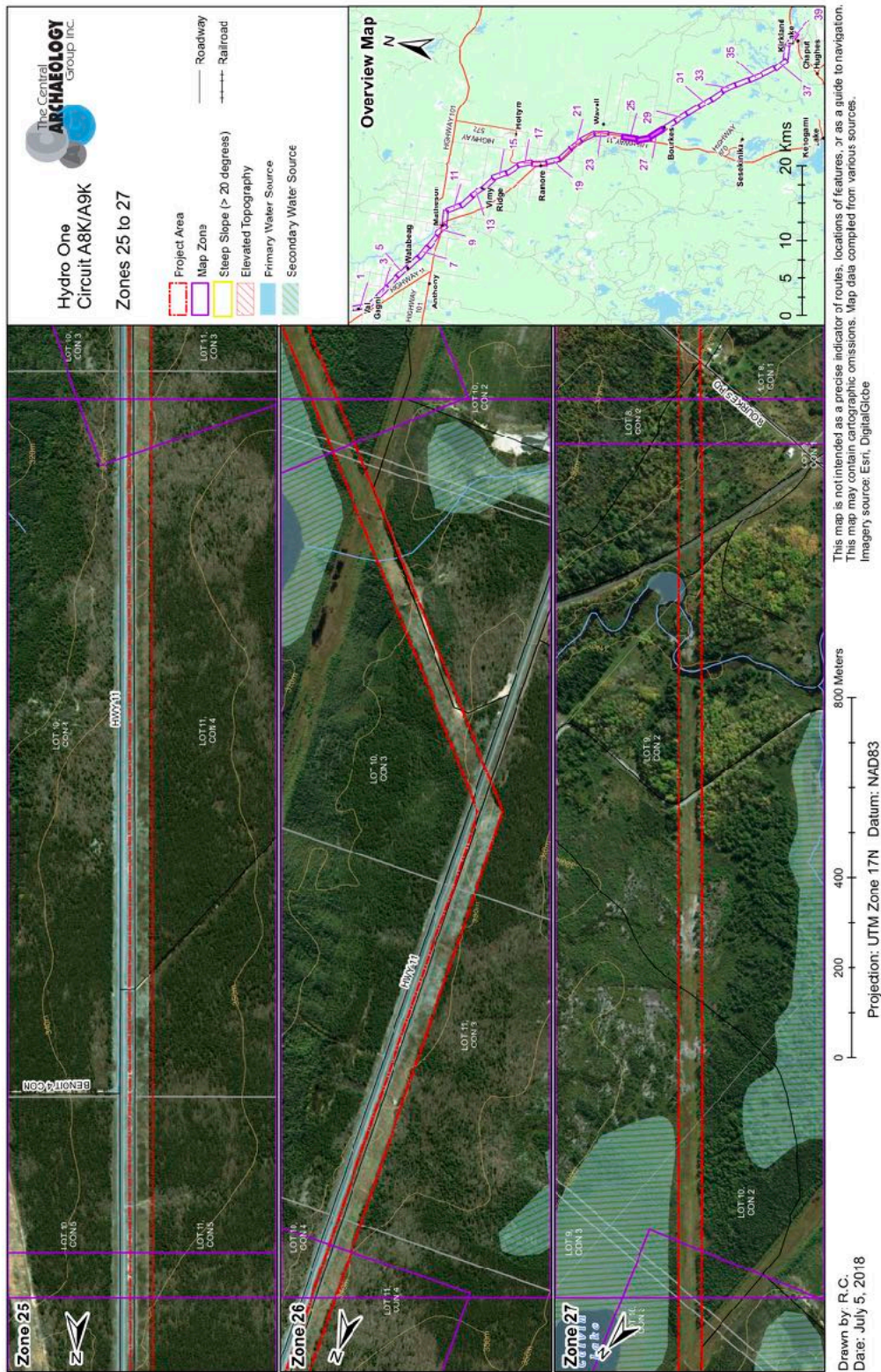
Plan 7. Plan of the project area (HONI). Zones 19 to 21.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



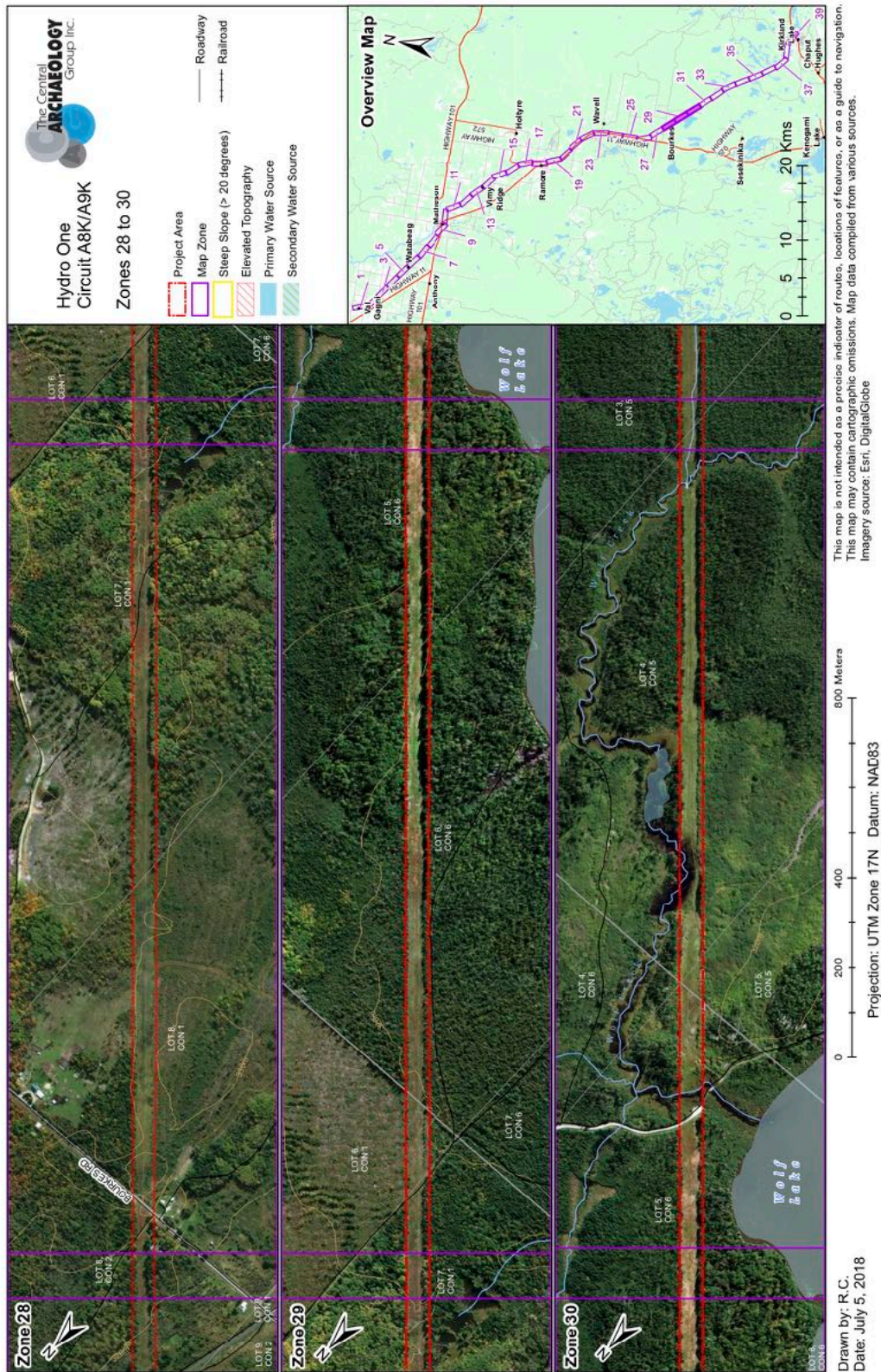
Plan 8. Plan of the project area (HONI). Zones 22 to 24.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



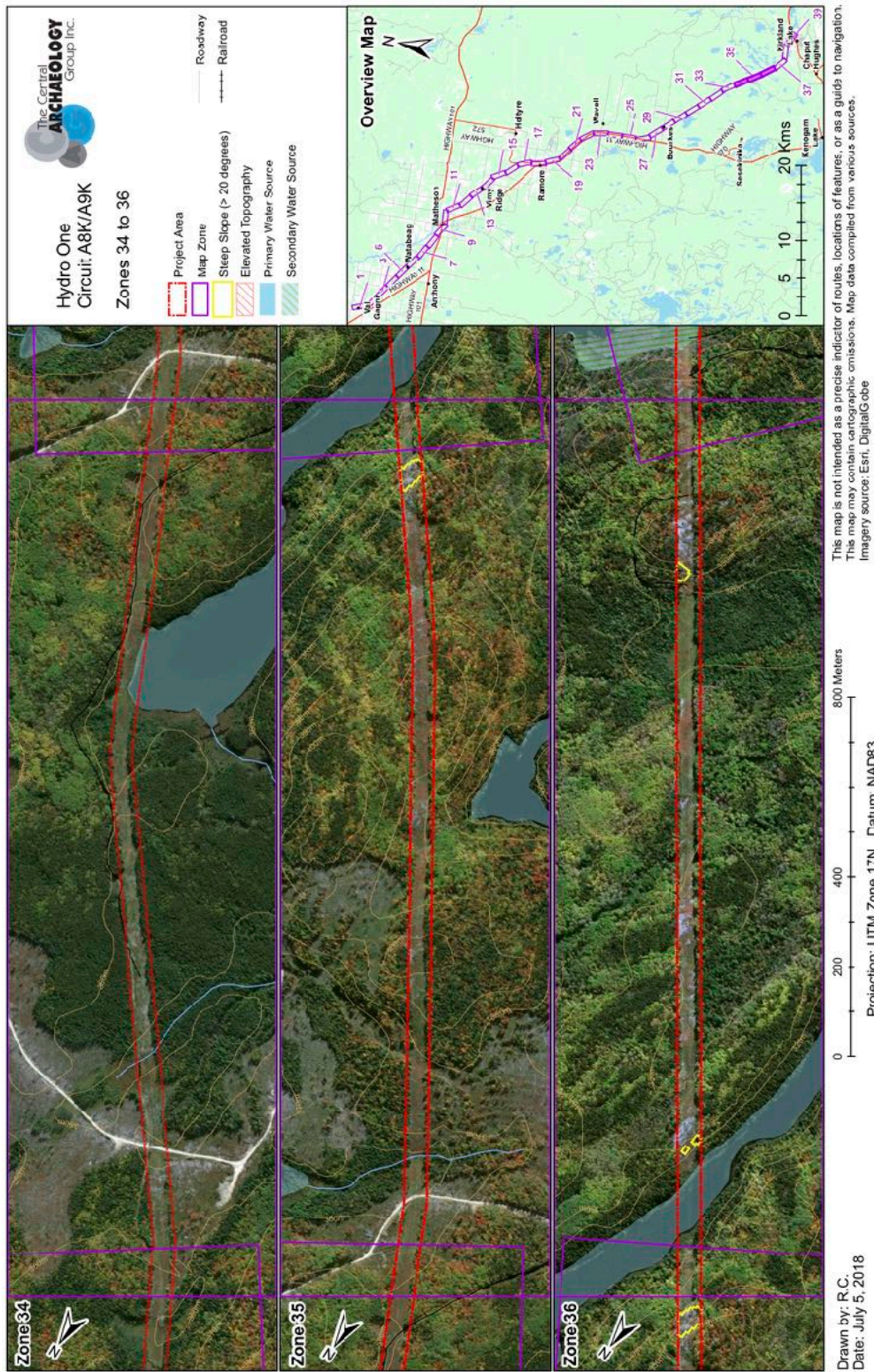
Plan 9. Plan of the project area (HONI). Zones 25 to 27.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



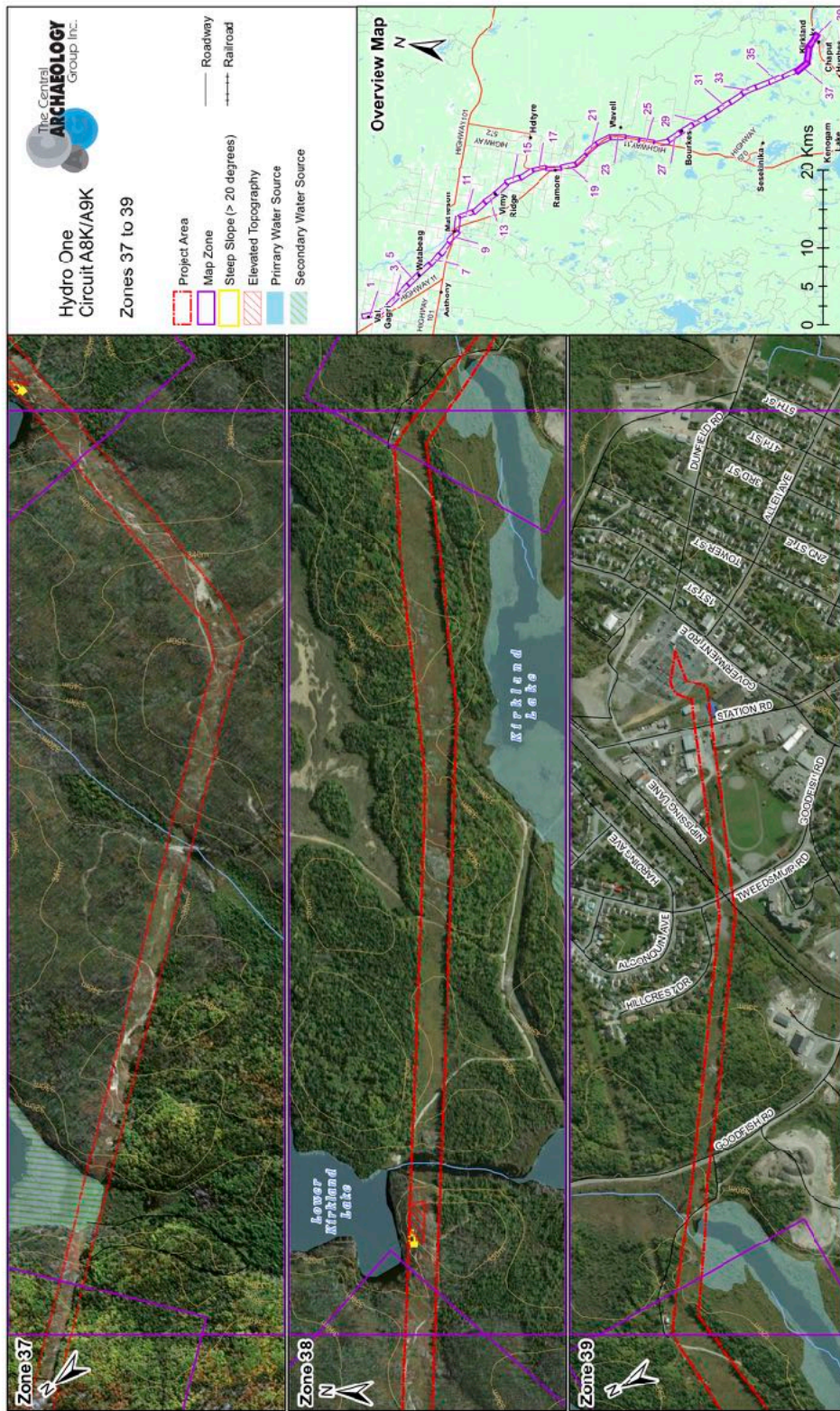
Plan 10. Plan of the project area (HONI). Zones 28 to 30.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



Plan 12. Plan of the project area (HONI). Zones 34 to 36.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



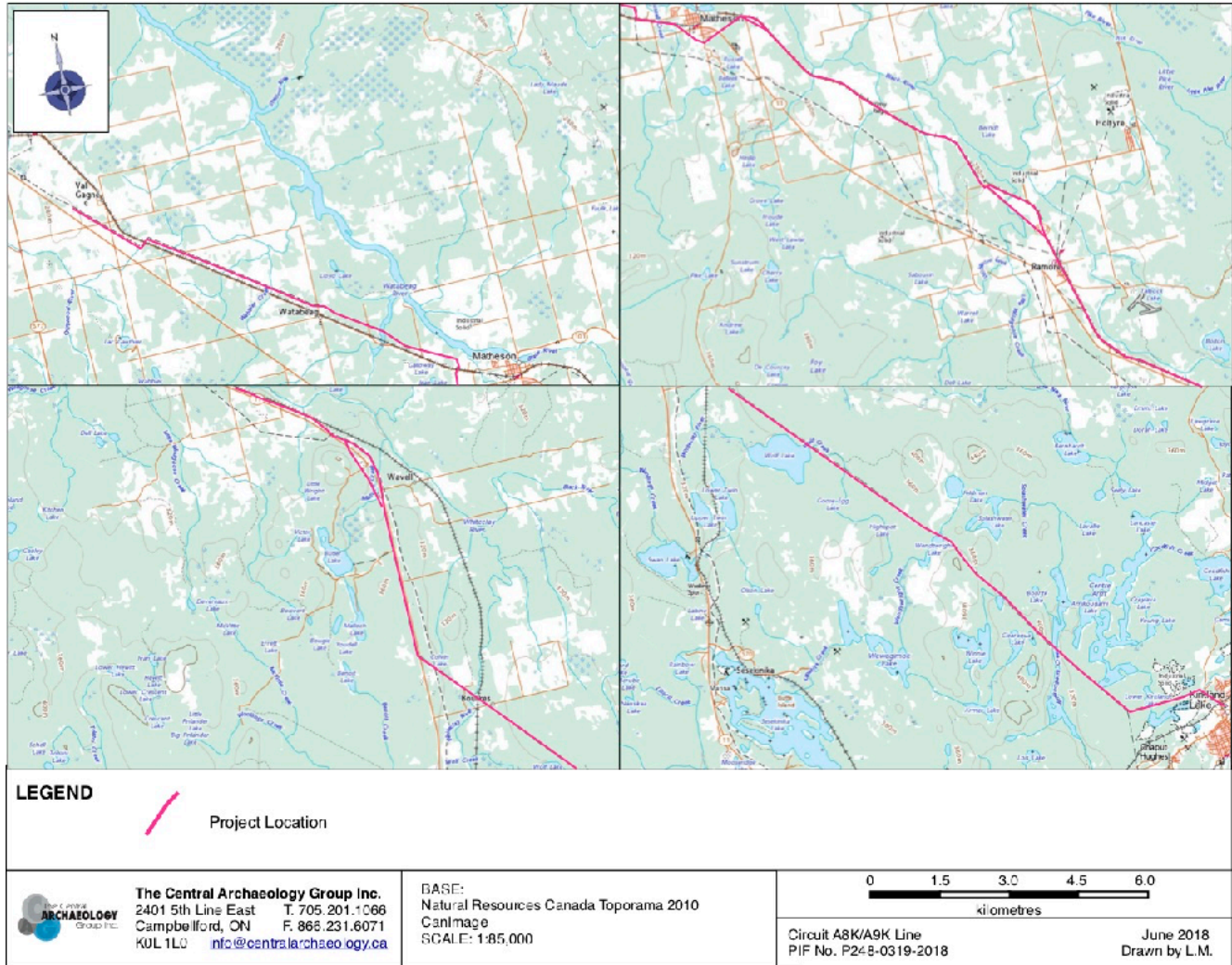
This map is not intended as a precise indicator of routes, locations of features, or as a guide to navigation.
 This map may contain cartographic omissions. Map data compiled from various sources.
 Imagery source: Esri, DigitalGlobe

Projection: UTM Zone 17N Datum: NAD83

Drawn by: R. C.
 Date: July 5, 2018

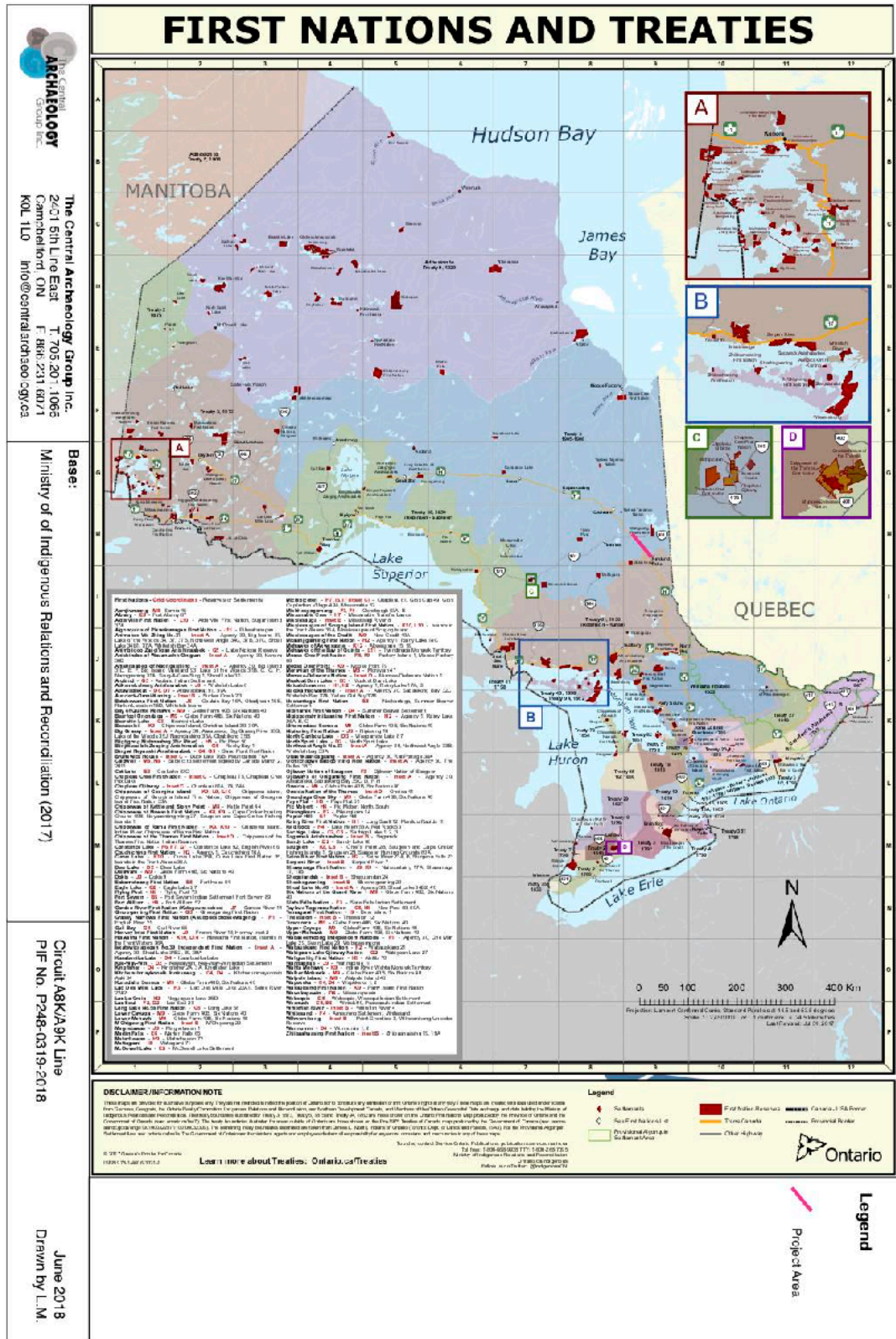
Plan 13. Plan of the project area (HONI). Zones 37 to 39.

8.0 MAPS

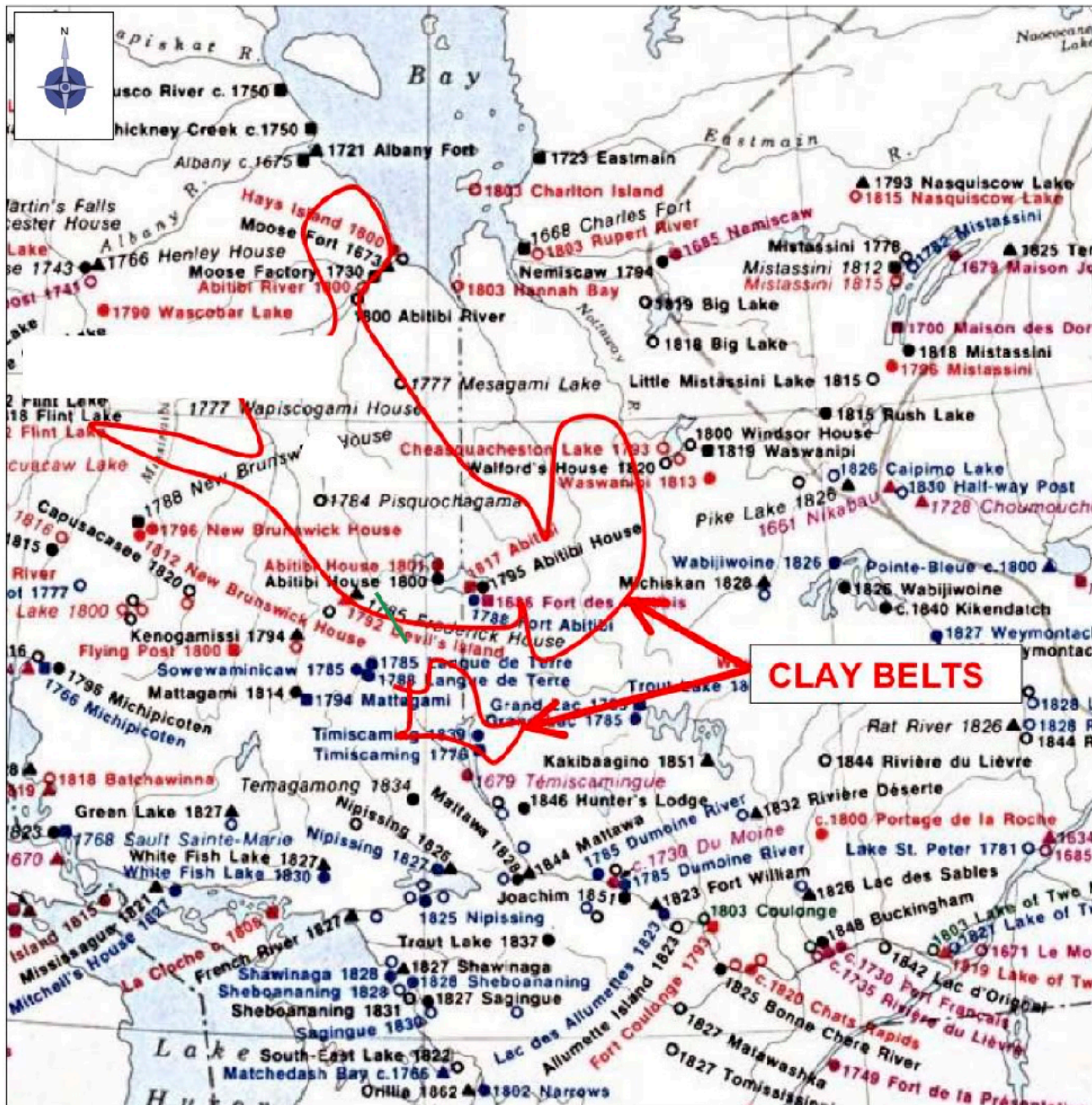



Map 1. Location of project area.


CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



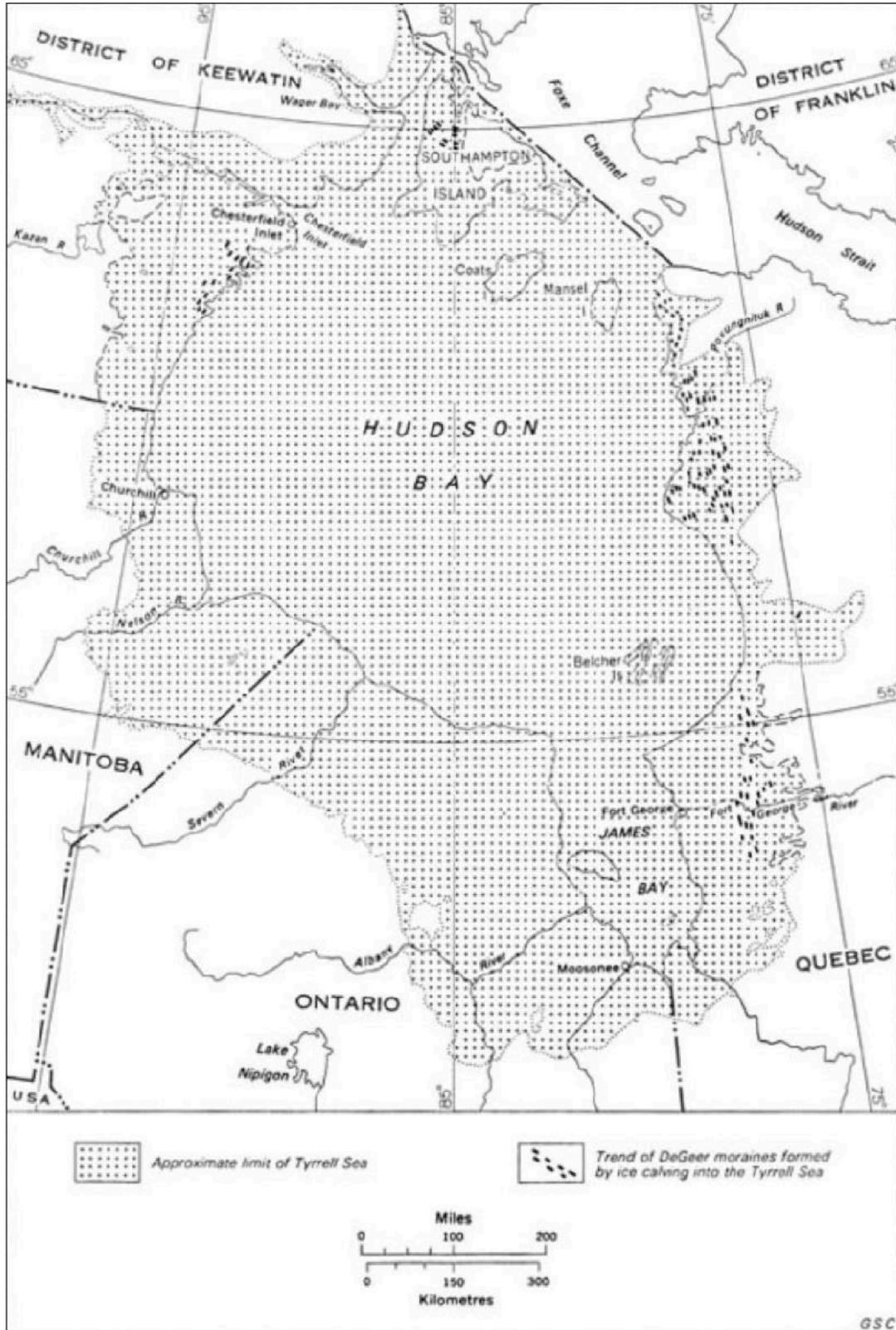
Map 2. First Nations and Treaties (Ministry of Indigenous Relations and Reconciliation (2017)).



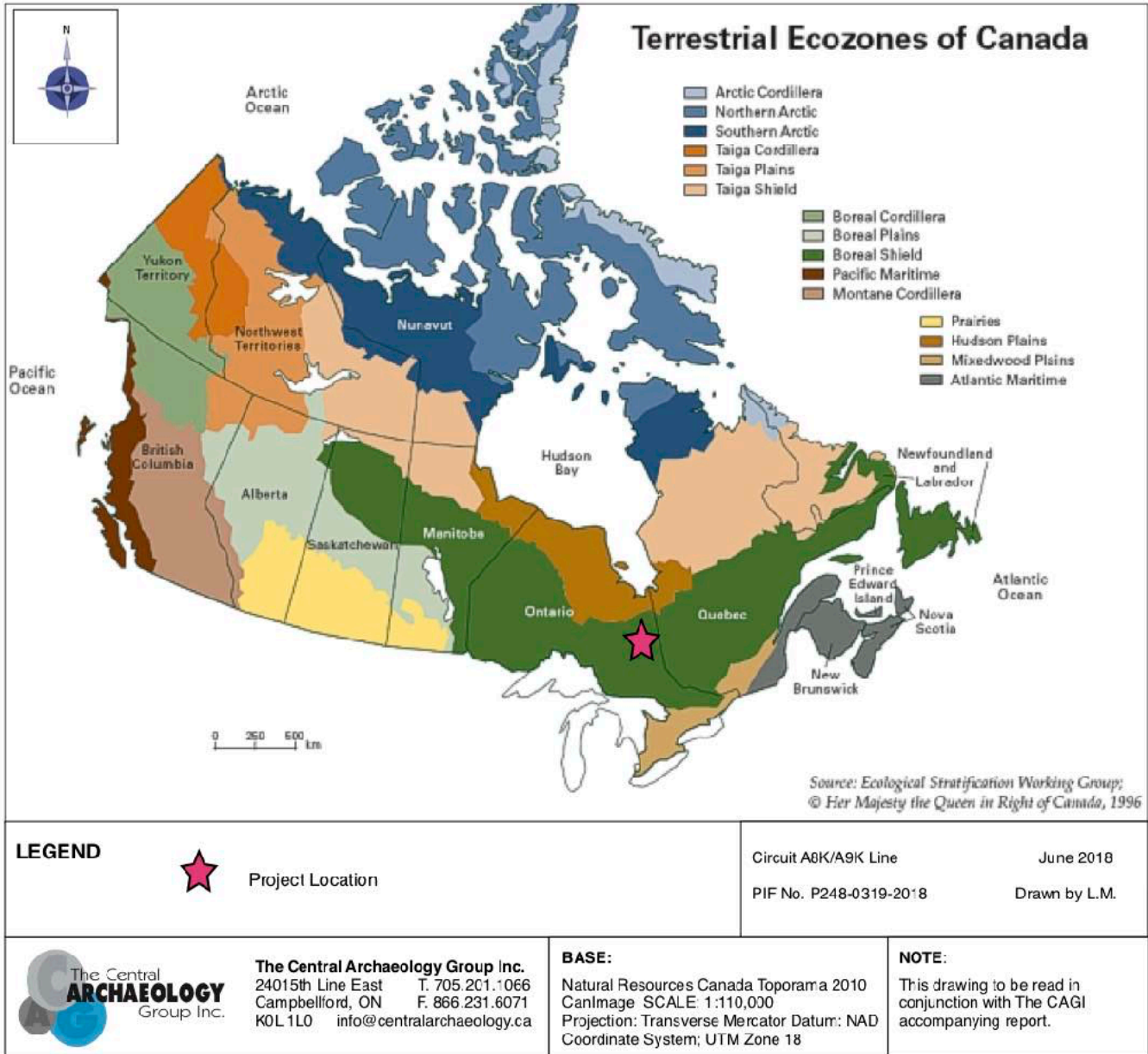
LEGEND  Project Location	Circuit A8K/A9K Line	June 2018
	PIF No. P248-0319-2018	Drawn by L.M.

 The Central Archaeology Group Inc. 2401 5th Line East T. 705.201.1066 Campbellford, ON F. 866.231.6071 K0L 1L0 info@centralarchaeology.ca	BASE: Atlas of Canada 2011 CanImage SCALE: 1:110,000 Projection: Transverse Mercator Datum: NAD Coordinate System; UTM Zone 18	NOTE: This drawing to be read in conjunction with The GAGI accompanying report.
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Map 3. Fur trading posts in Northern Ontario. The approximate boundaries of the Greater and Lesser Clay Belts has been superimposed by the author in red and the approximate location of the project area is delineated in green (Atlas of Canada 2011).

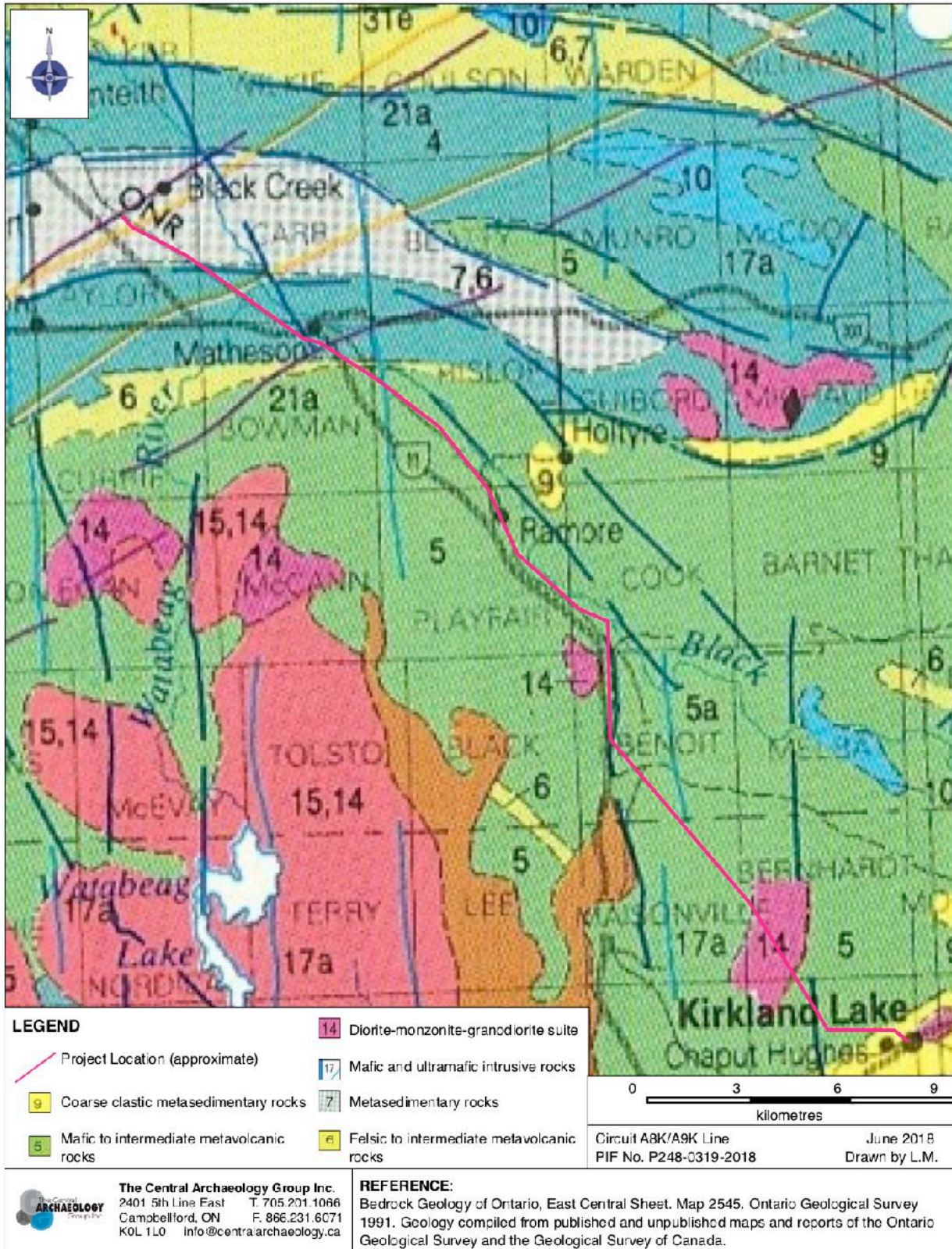


Map 4. Approximate limits of the Tyrrell Sea (Lee 1968).



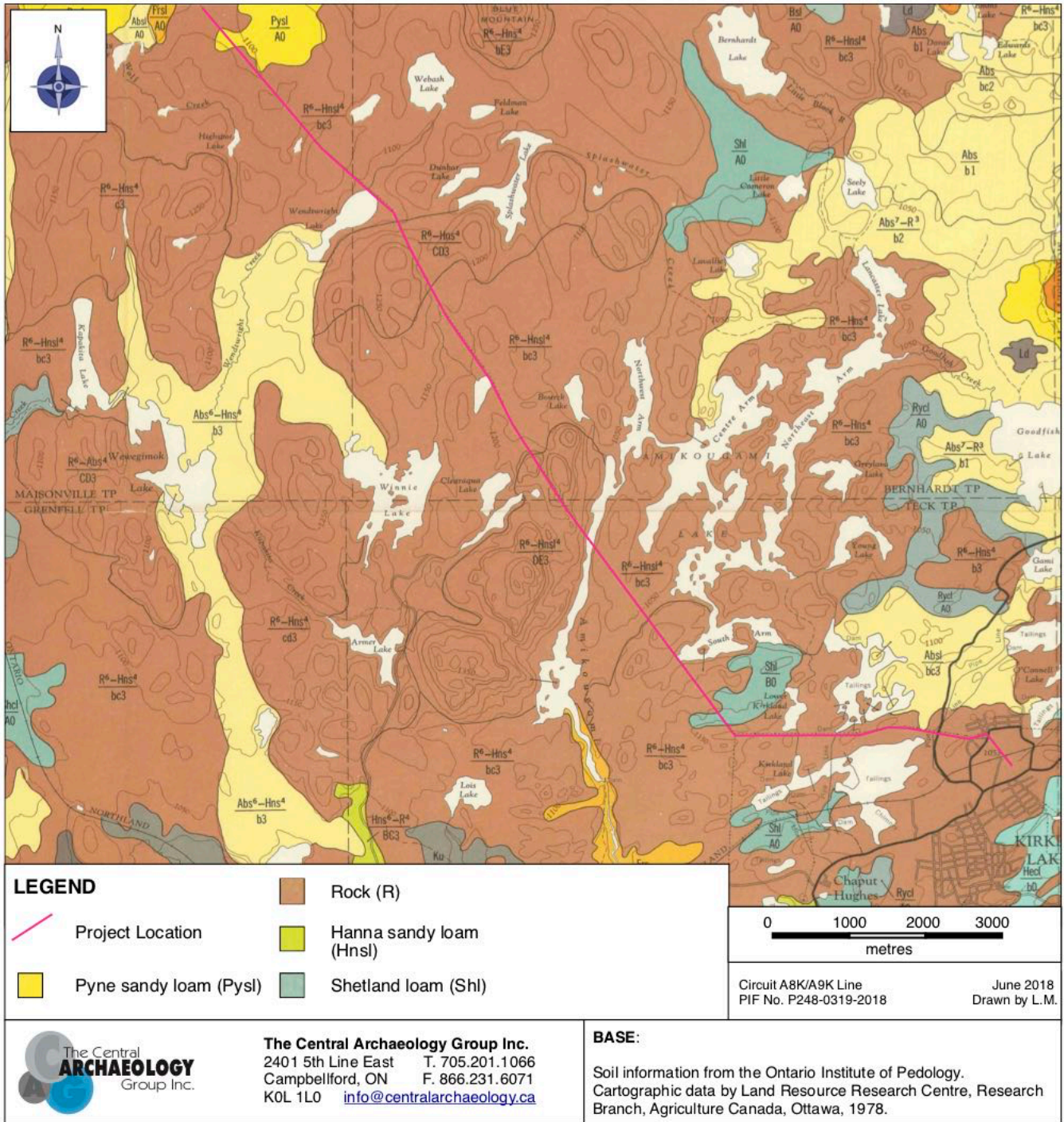
Map 5. Terrestrial ecozones of Canada (Ecological Stratification Working Group 1996).

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



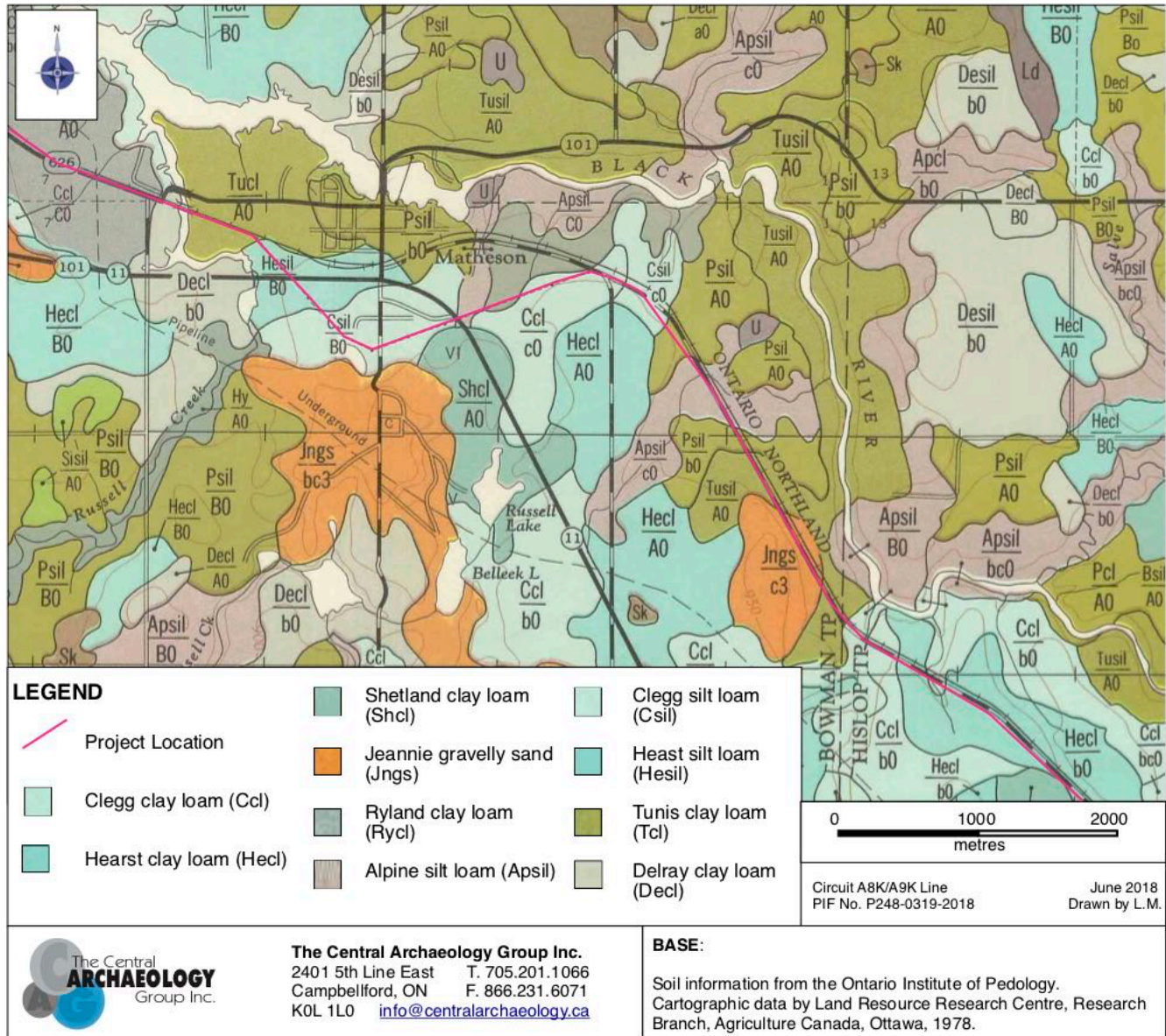
Map 6. Bedrock geology of the project and surrounding area (Ontario Geological Survey 1991).

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



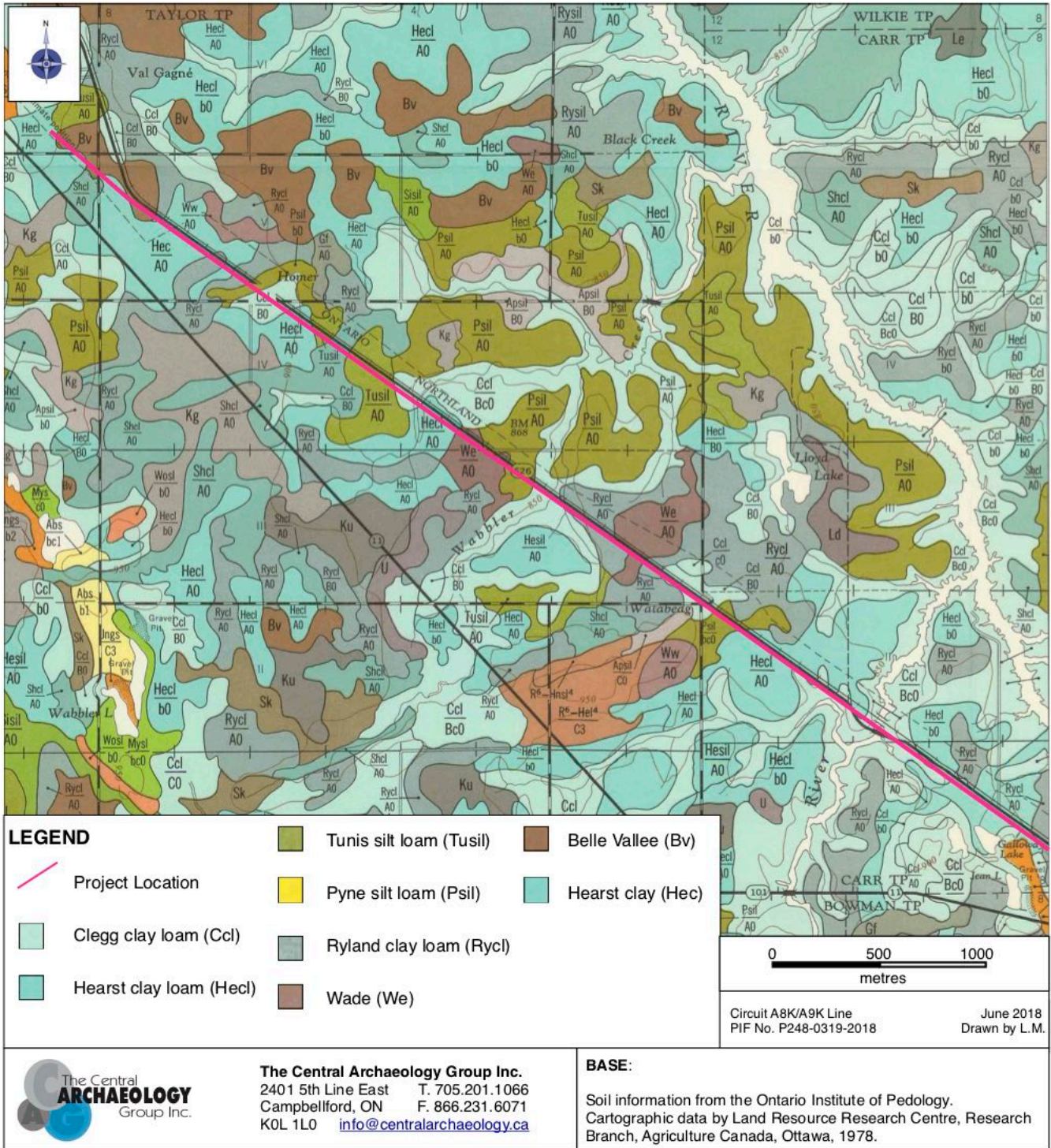
Map 7. Soils of the project and surrounding area (Kirkland Lake Area) (Ontario Institute of Pedology 1978).

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



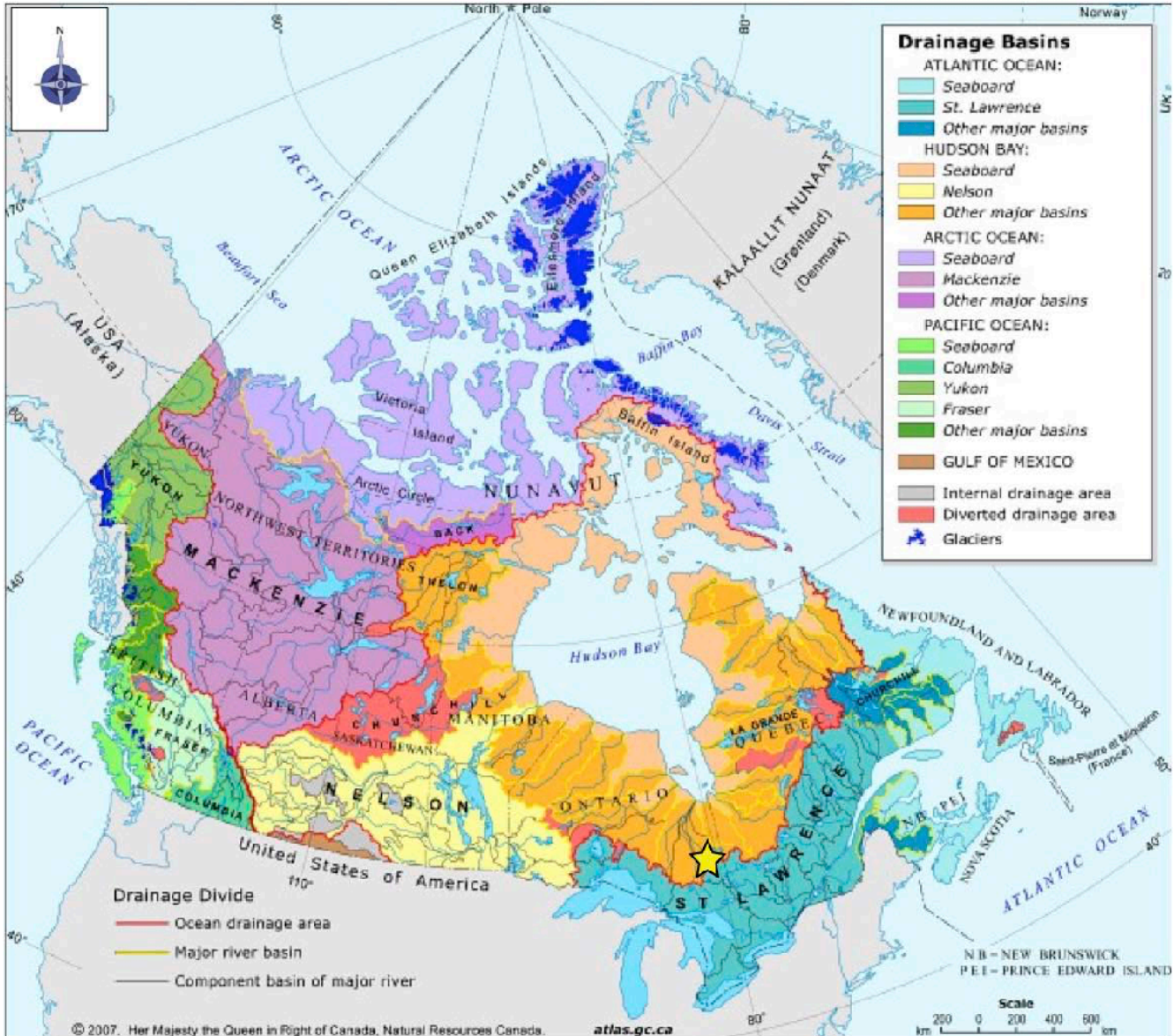
Map 8. Soils of the project and surrounding area (Matheson Area) (Ontario Institute of Pedology 1978).



CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



Map 9. Soils of the project and surrounding area (Porquois Area) (Ontario Institute of Pedology 1978).

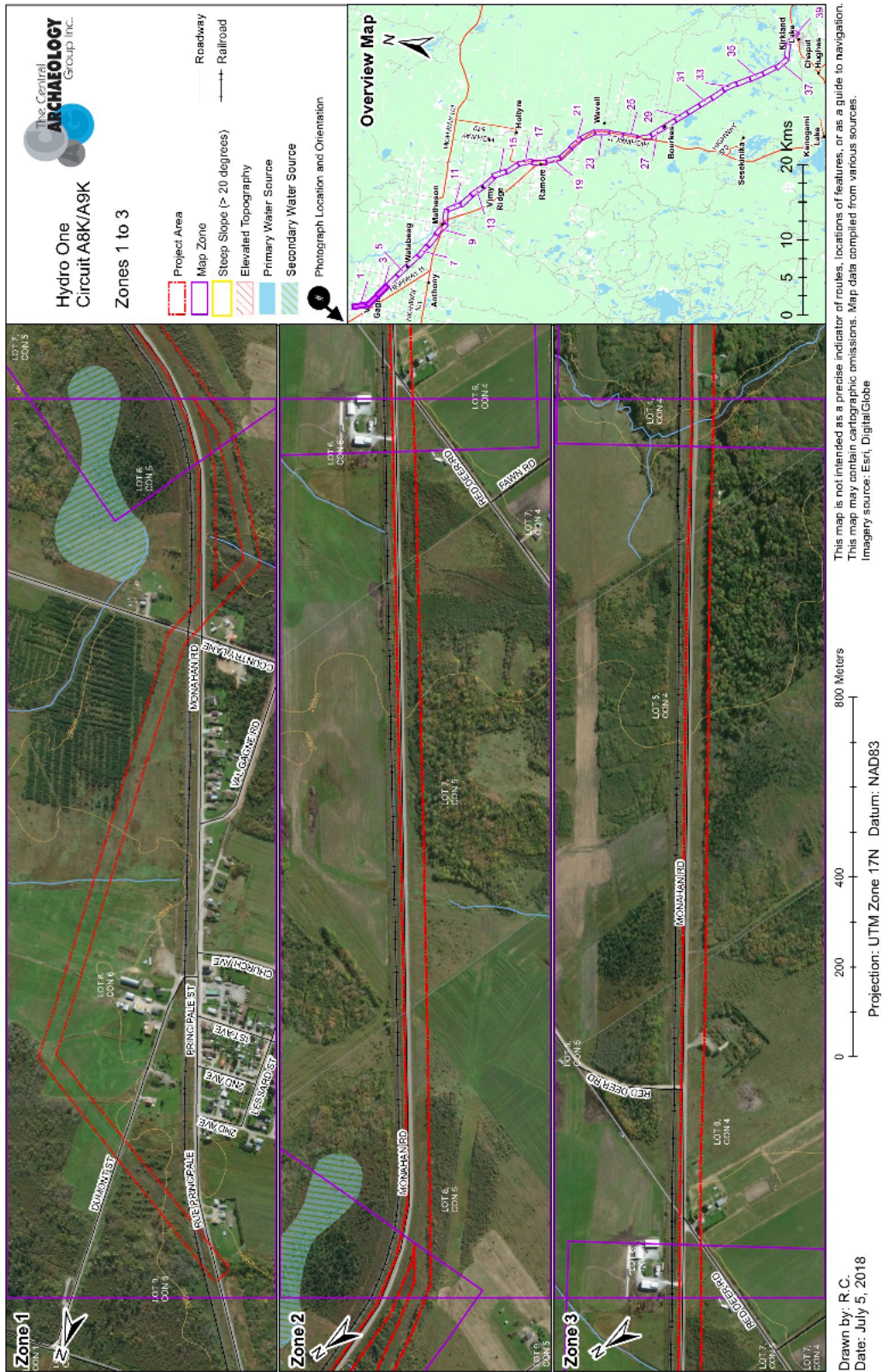
CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



<p>LEGEND</p> <p> Project Location</p>	<p>Circuit A8K/A9K Line June 2018 PIF No. P248-0319-2018 Drawn by L.M.</p>	
<p> The Central Archaeology Group Inc. 2401 5th Line East T. 705.201.1066 Campbellford, ON F. 866.231.6071 K0L 1L0 info@centralarchaeology.ca</p>	<p>BASE: Natural Resources Canada Toporama 2007 Projection: Transverse Mercator Datum: NAD Coordinate System; UTM Zone 18</p>	<p>NOTE: This drawing to be read in conjunction with The CAGI accompanying report.</p>

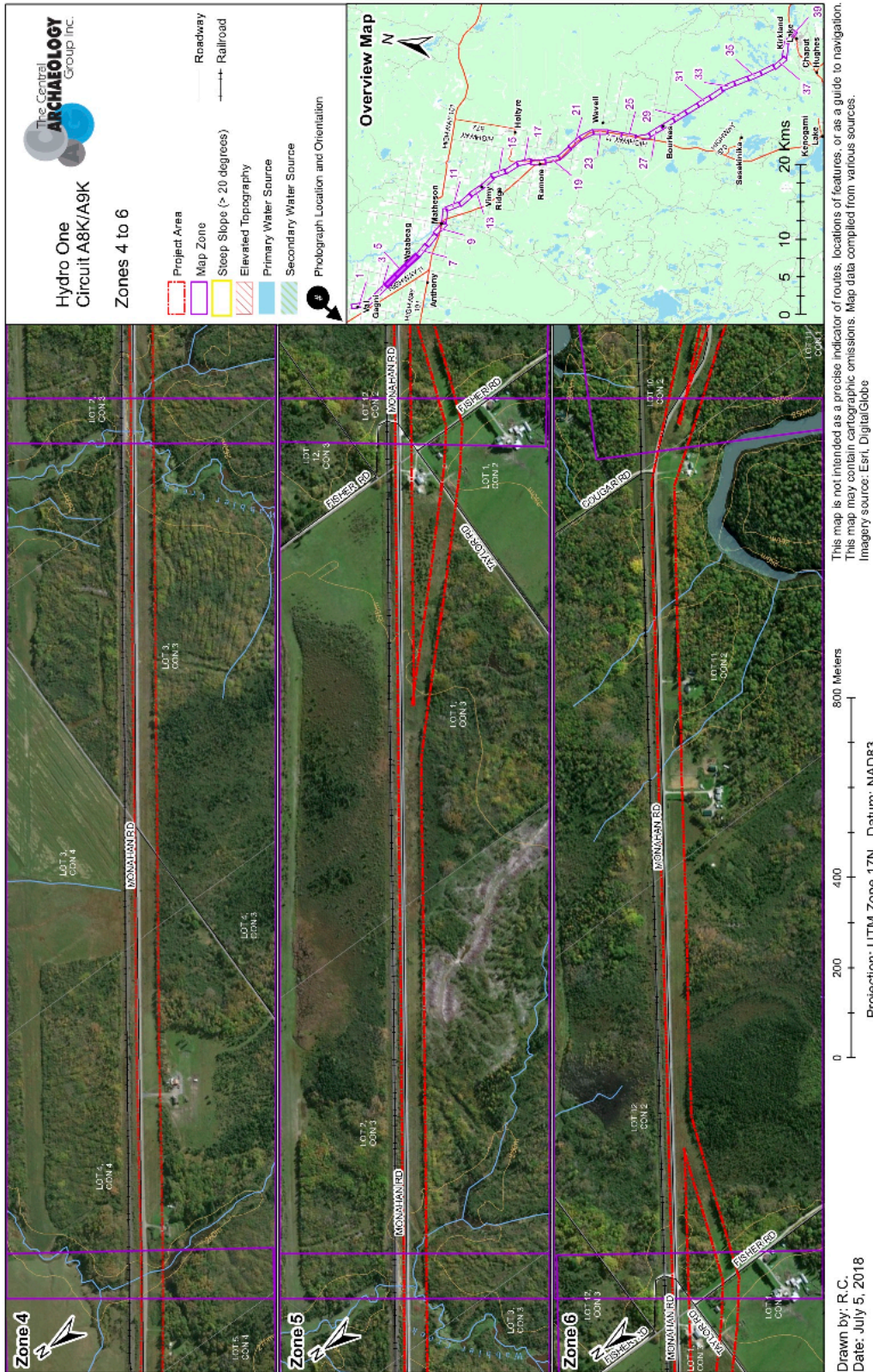
Map 10. Watersheds of Canada.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



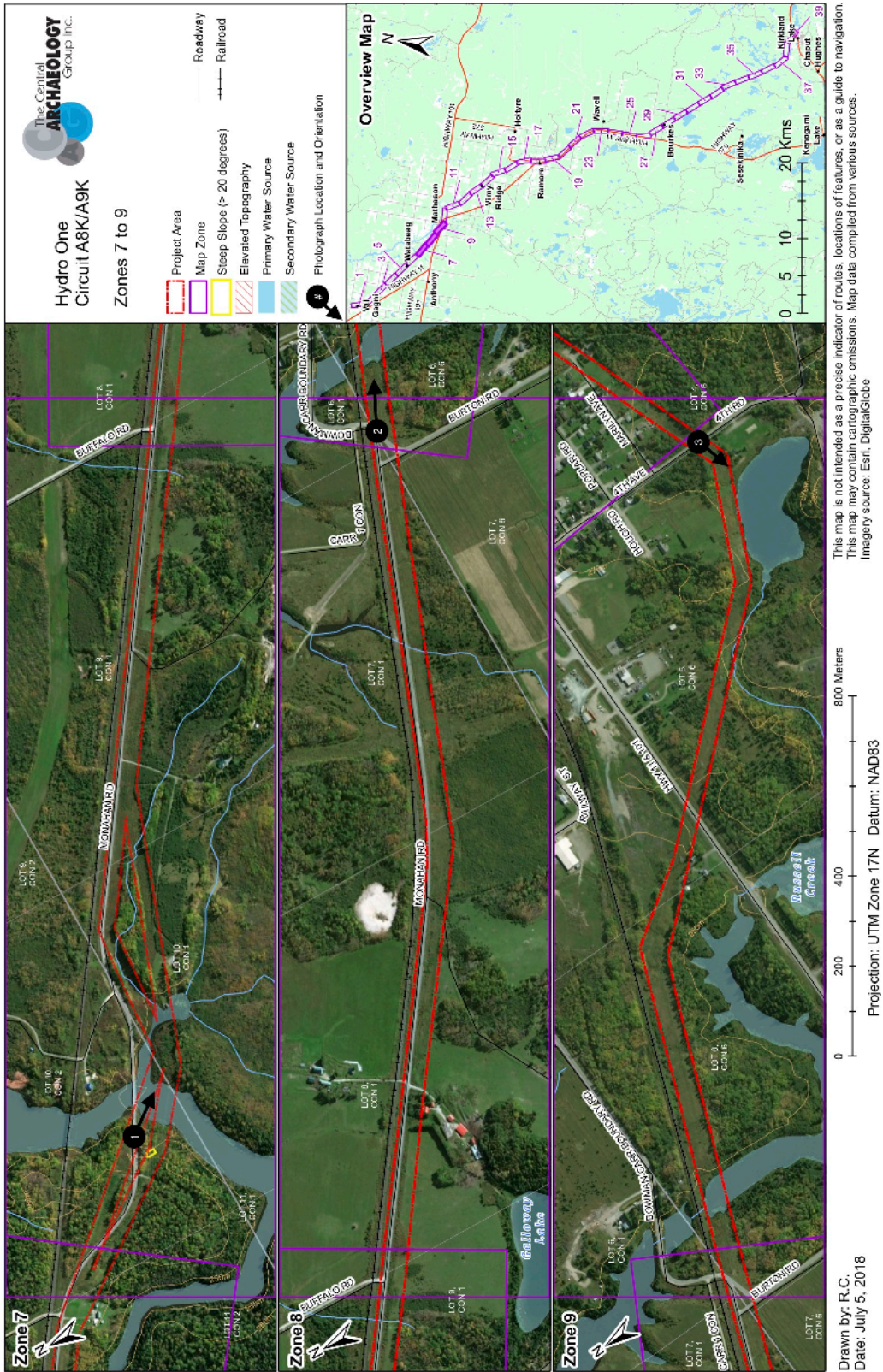
Map 11. Site conditions. Zones 1 to 3.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



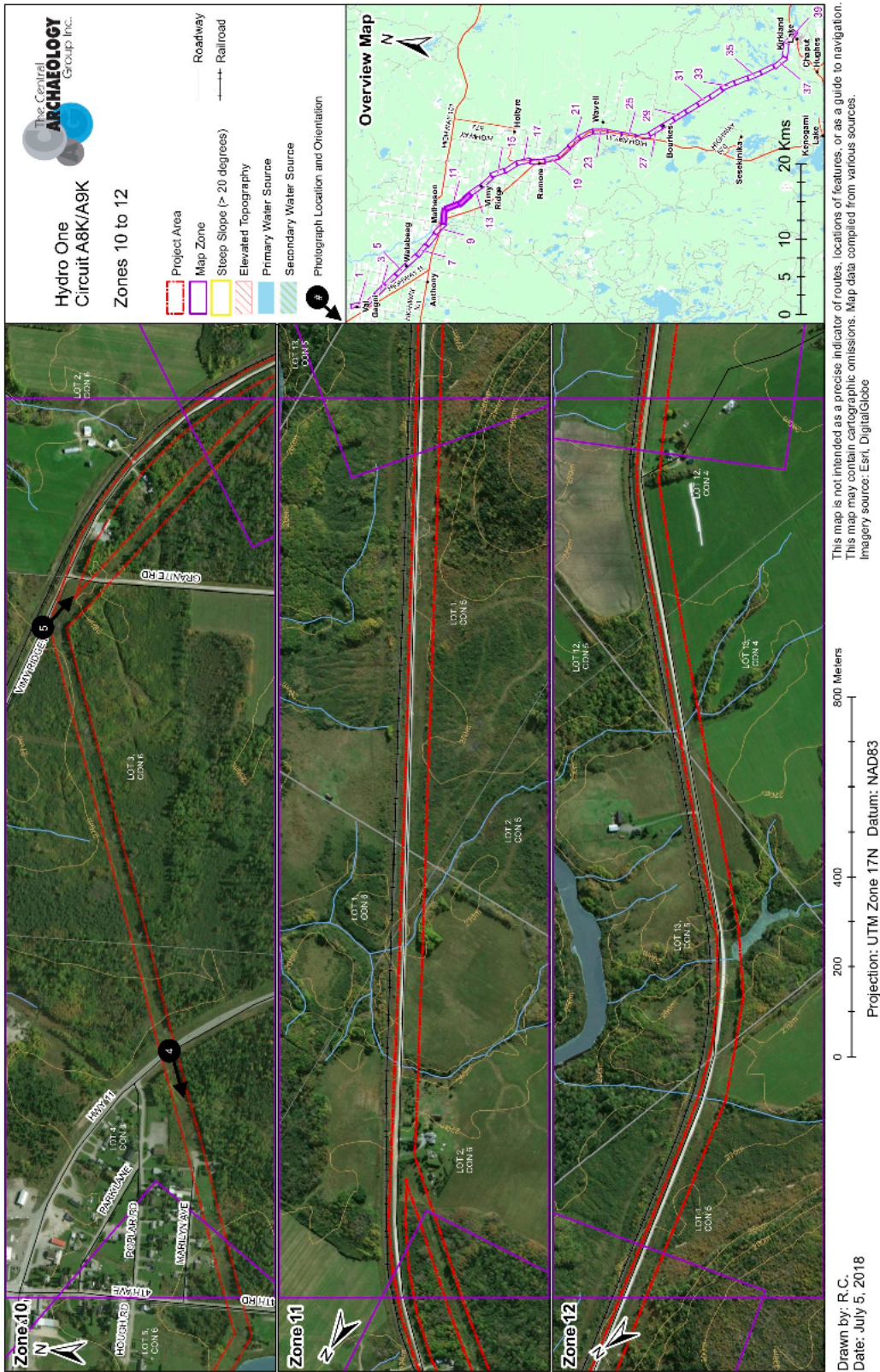
Map 12. Site conditions. Zones 4 to 6.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



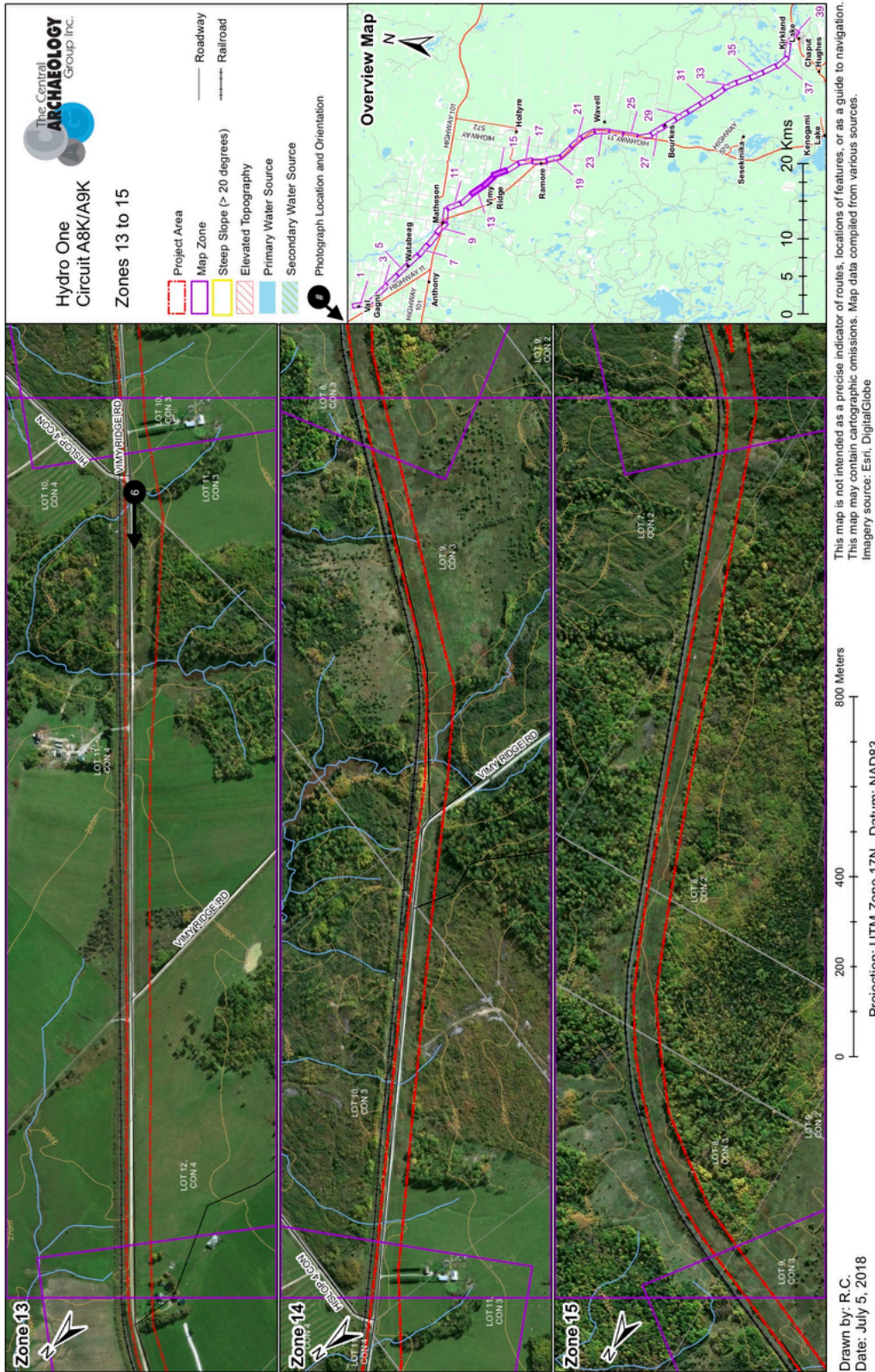
Map 13. Site conditions. Zones 7 to 9.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



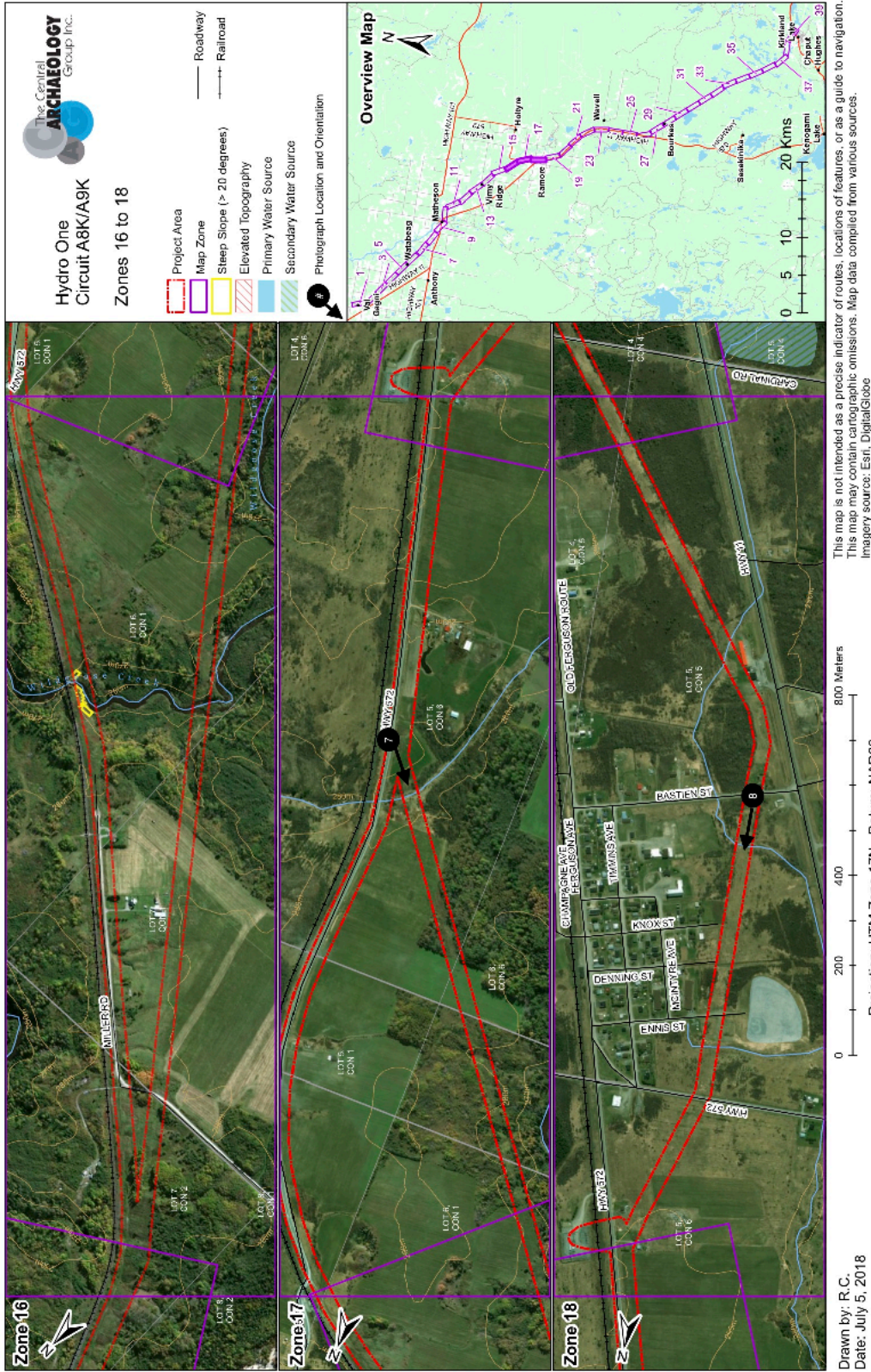
Map 14. Site conditions. Zones 10 to 12.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



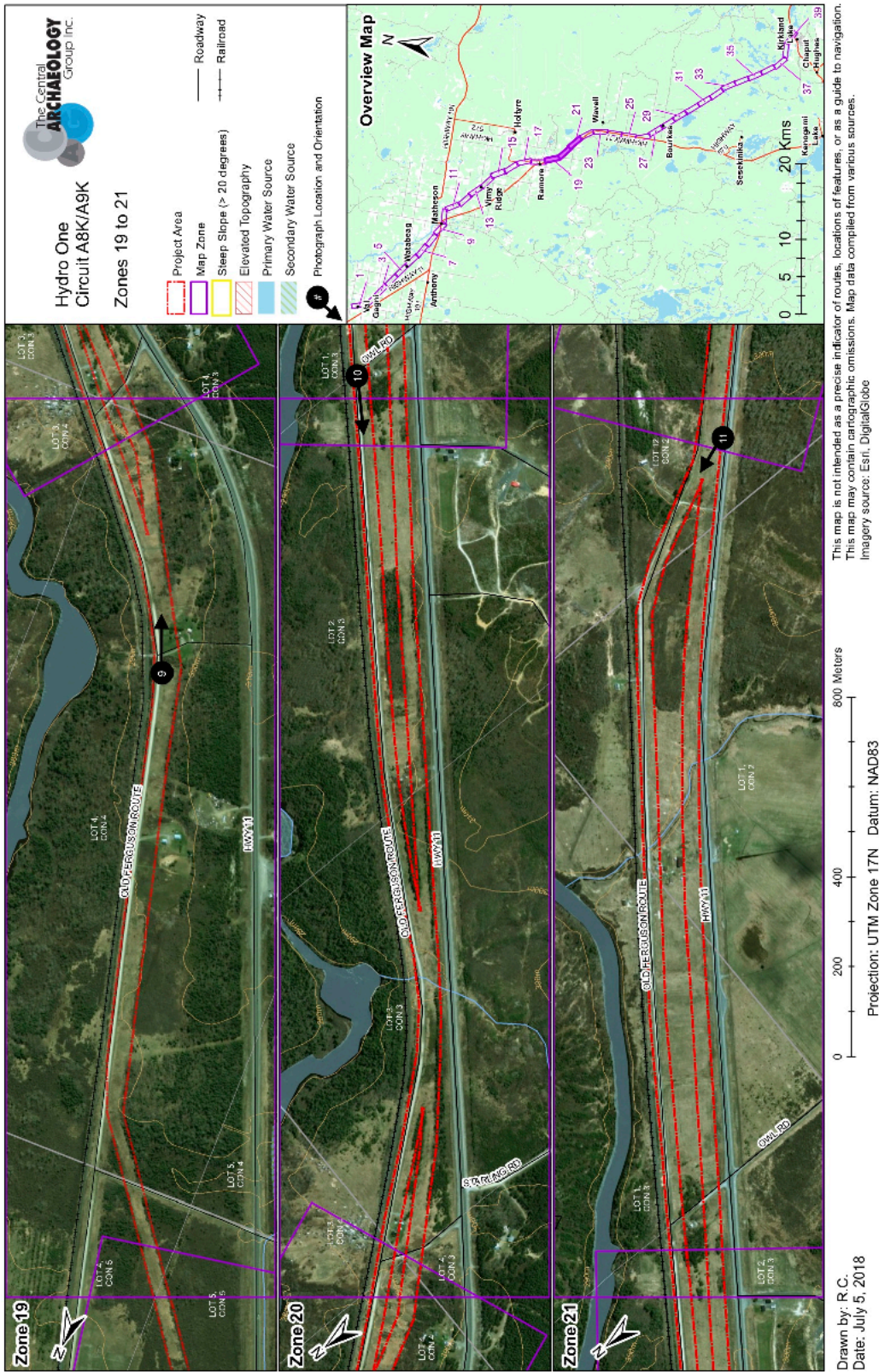
Map 15. Site conditions. Zones 13 to 15.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



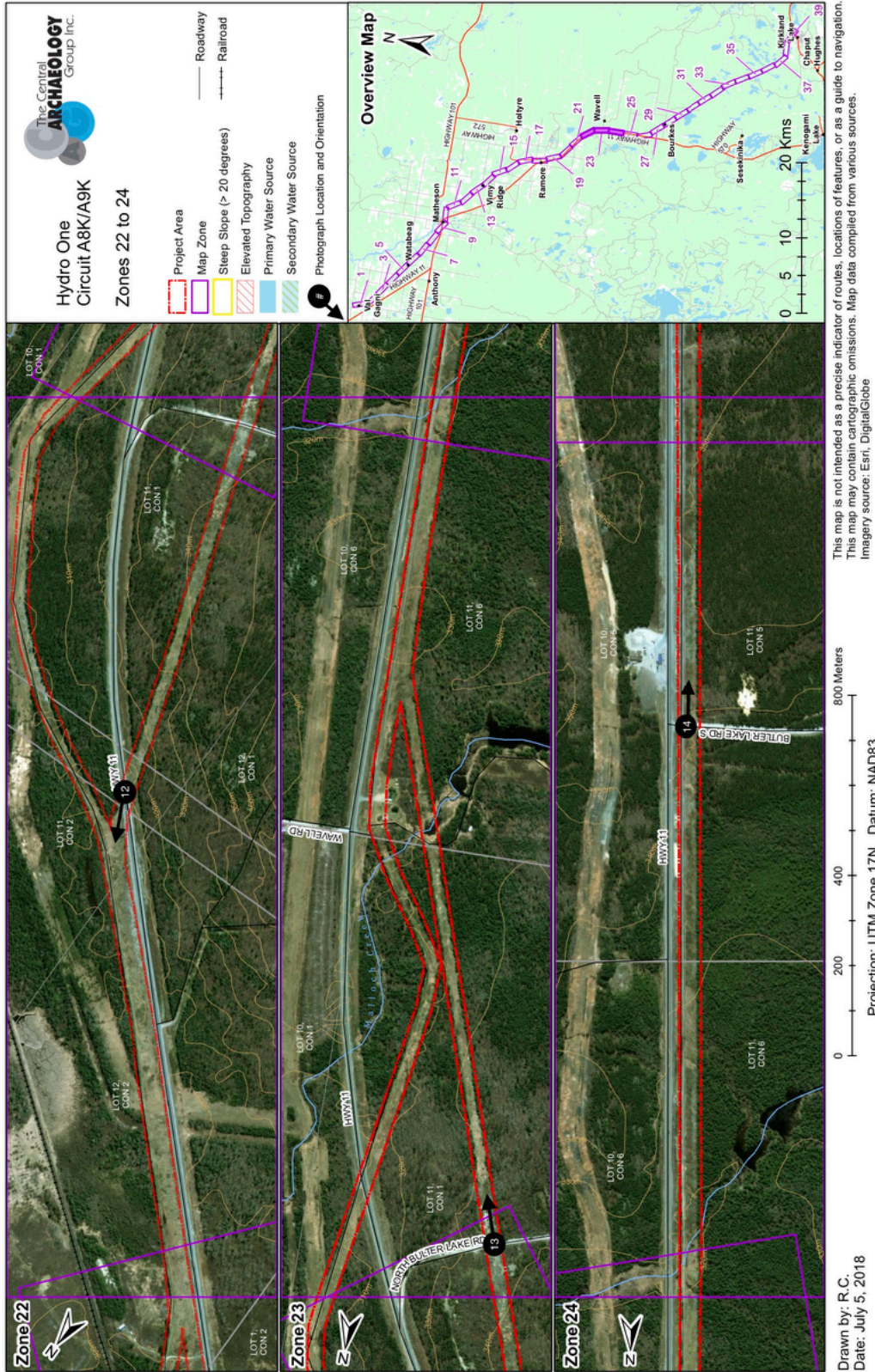
Map 16. Site conditions. Zones 16 to 18.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



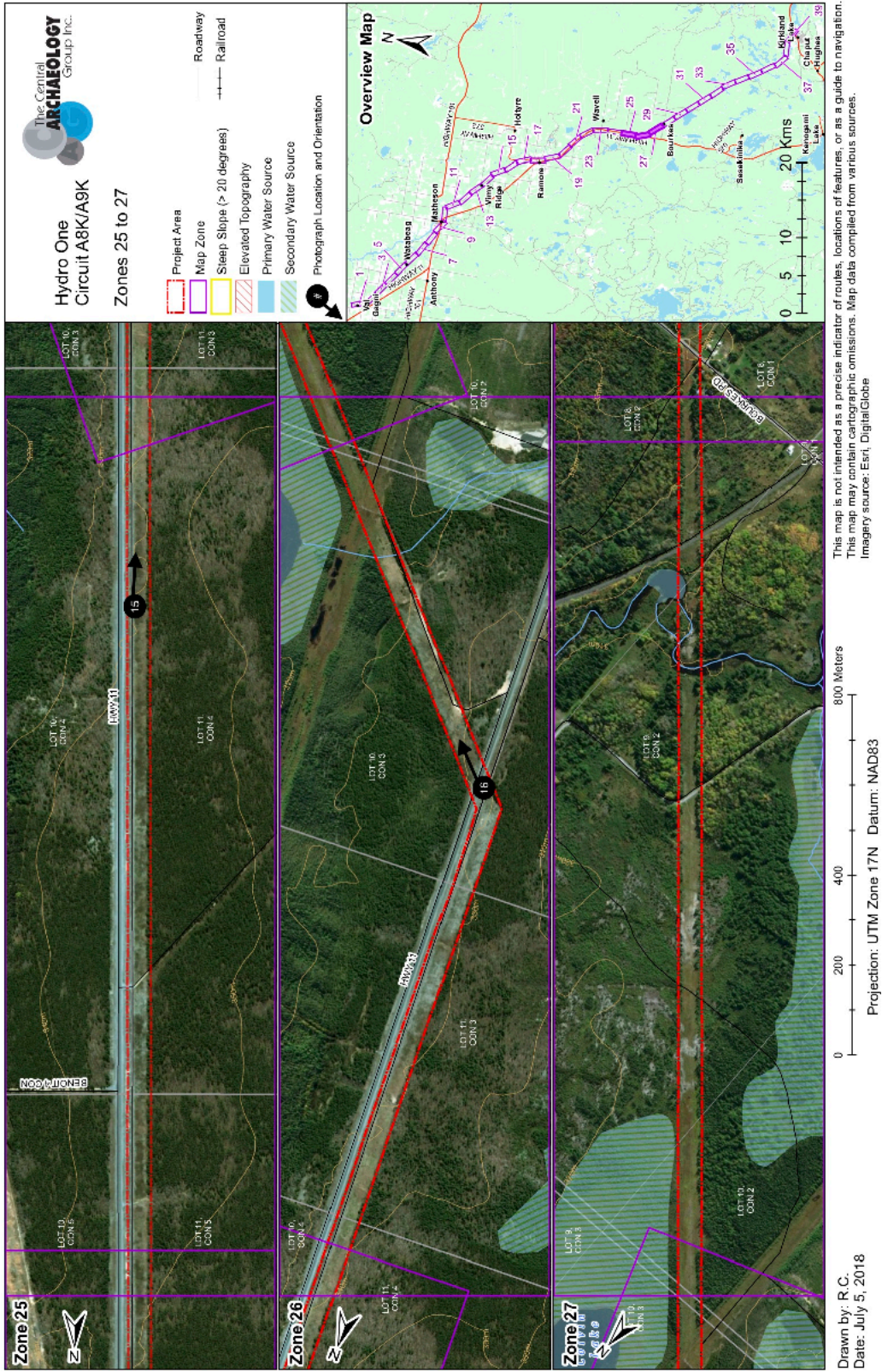
Map 17. Site conditions. Zones 19 to 21.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



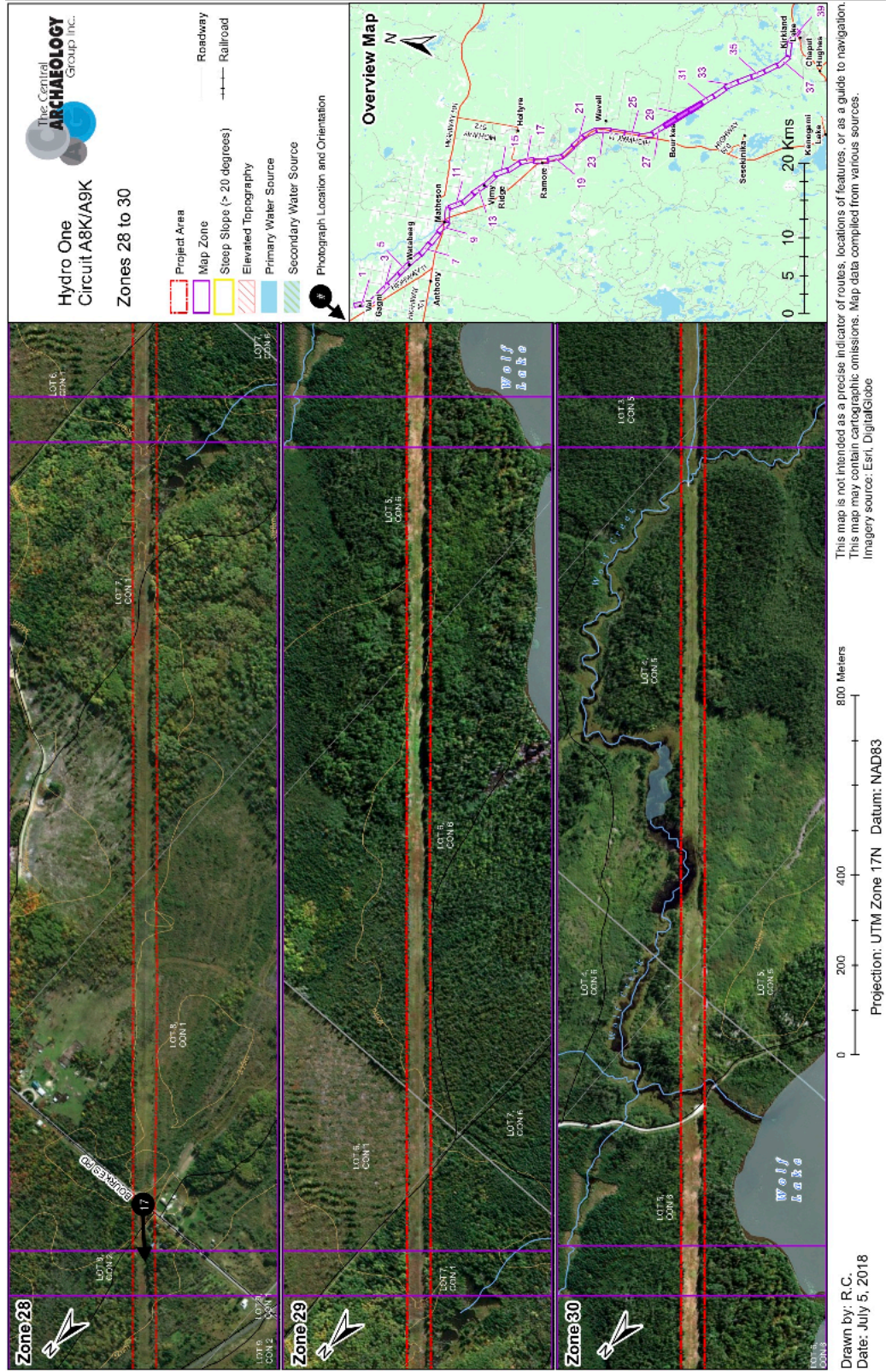
Map 18. Site conditions. Zones 22 to 24.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



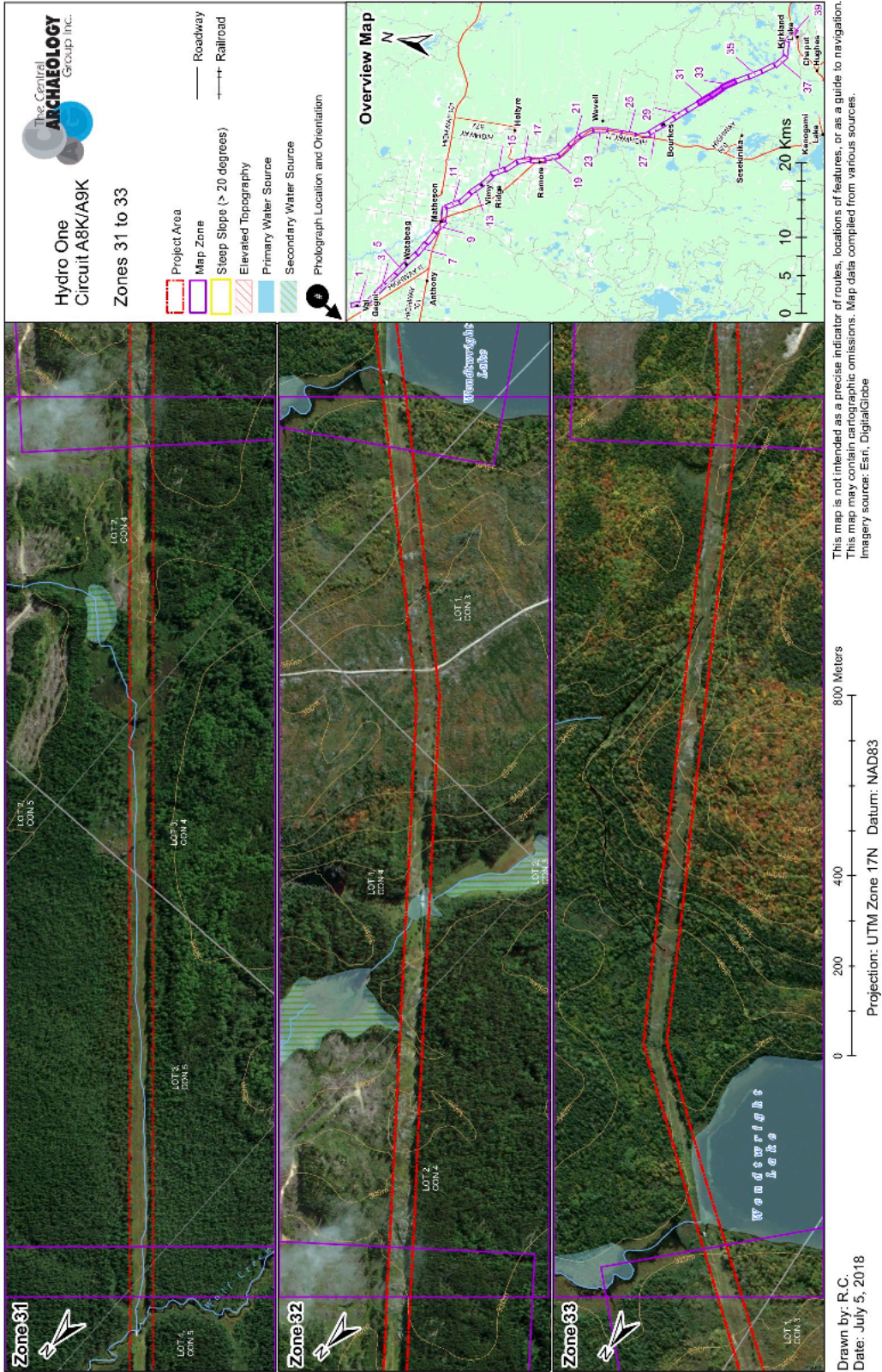
Map 19. Site conditions. Zones 25 to 27.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



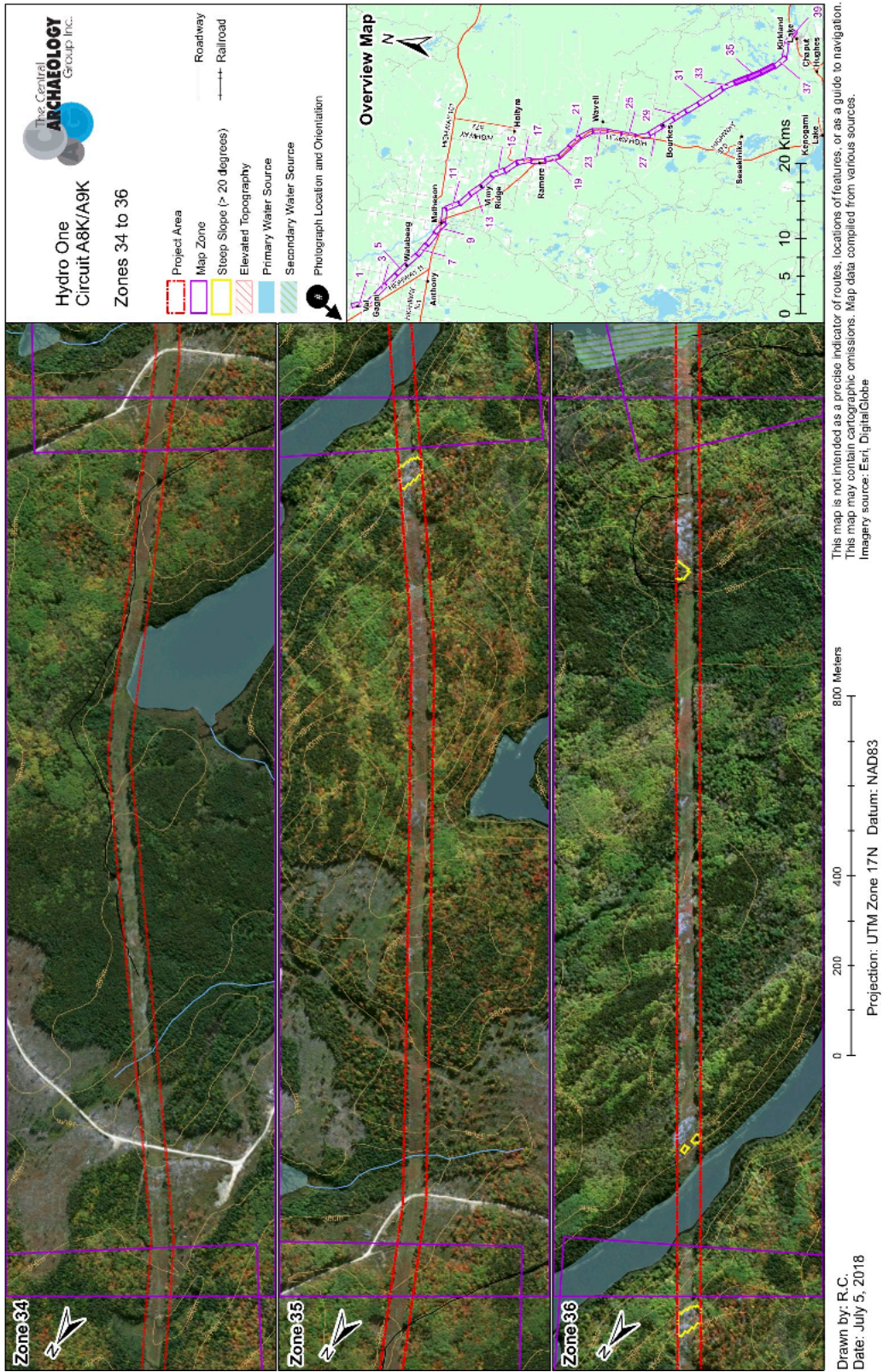
Map 20. Site conditions. Zones 28 to 30.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



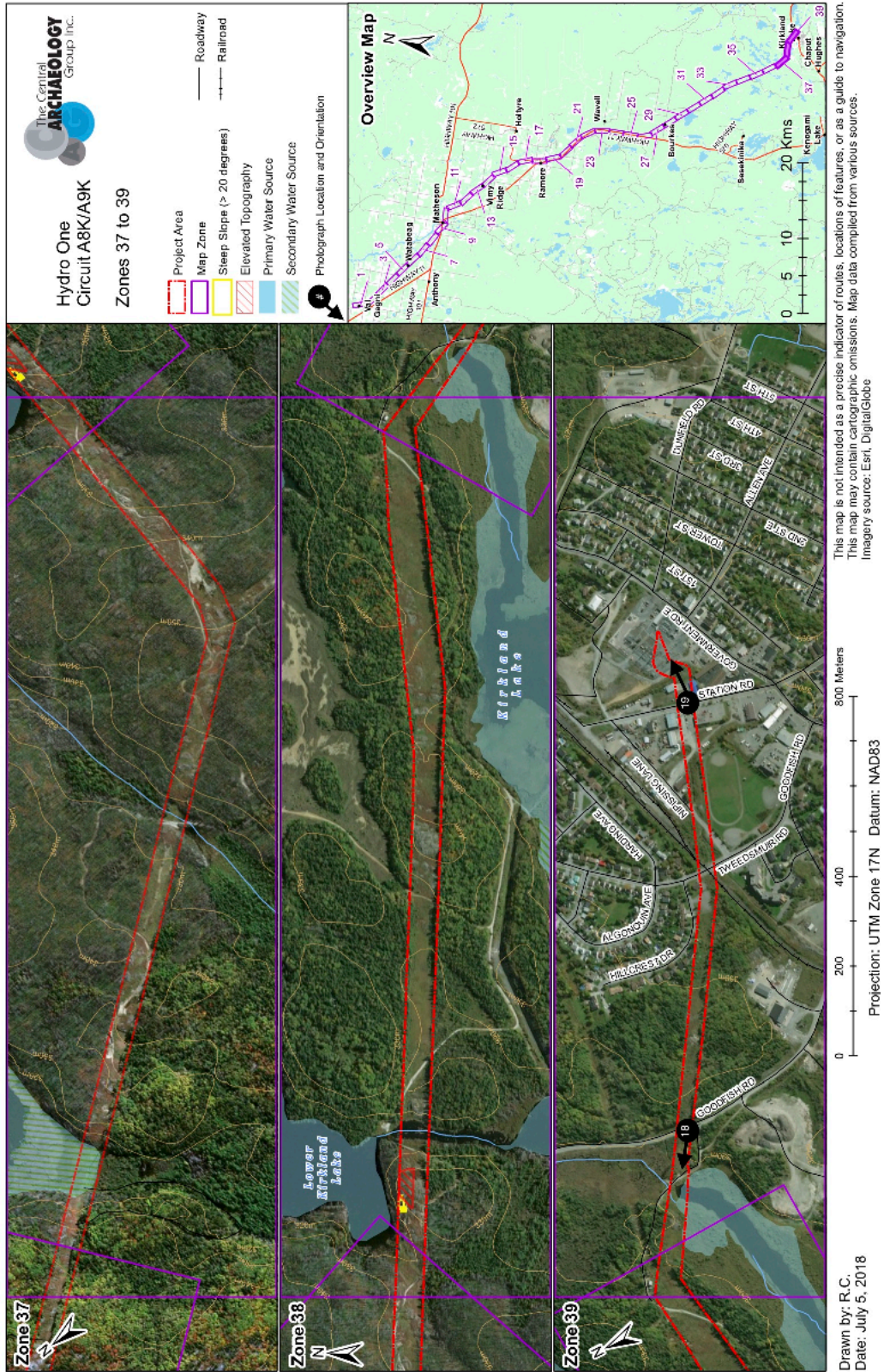
Map 21. Site conditions. Zones 31 to 33.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



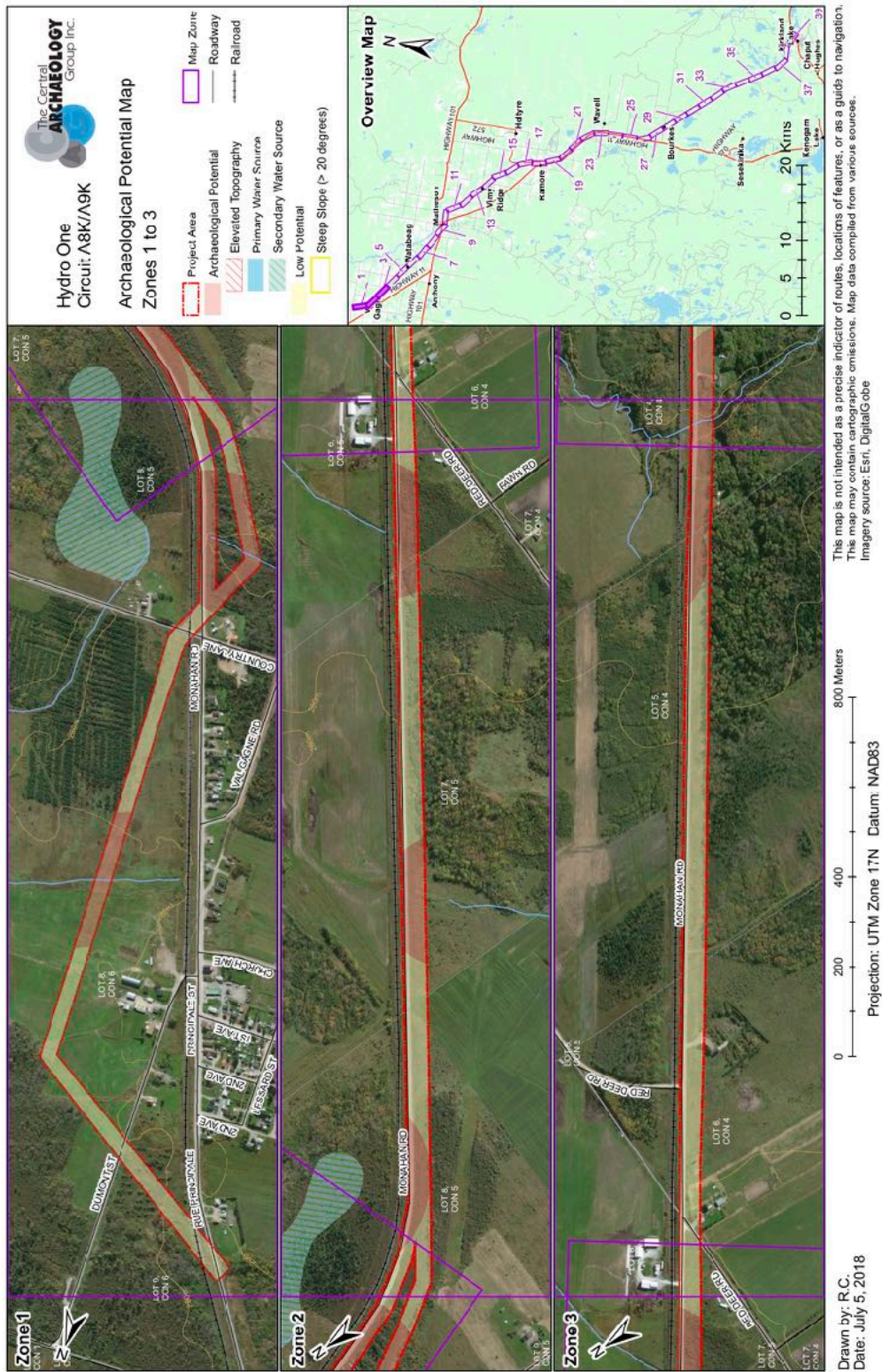
Map 22. Site conditions. Zones 34 to 36.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



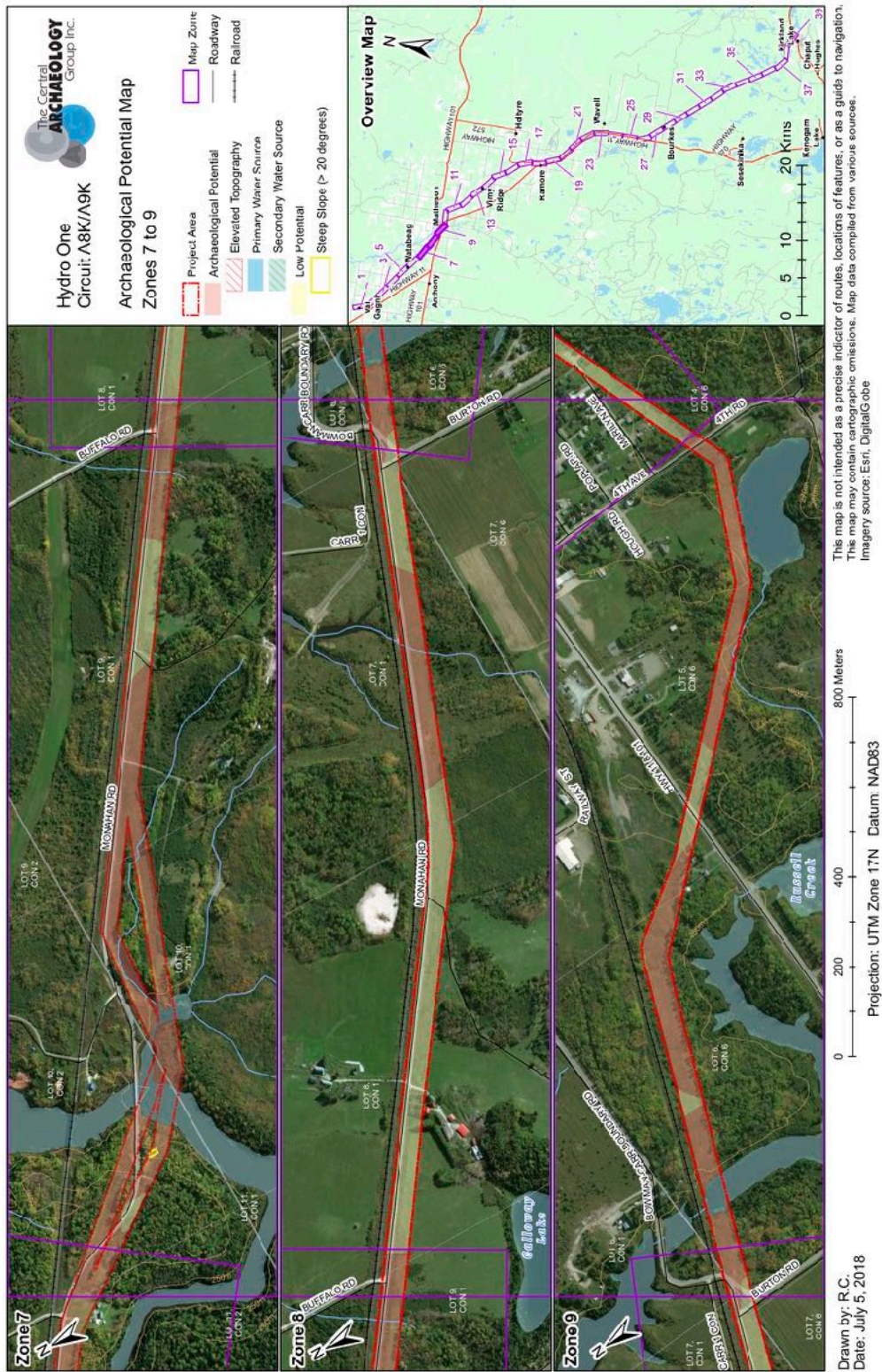
Map 23. Site conditions. Zones 37 to 39.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



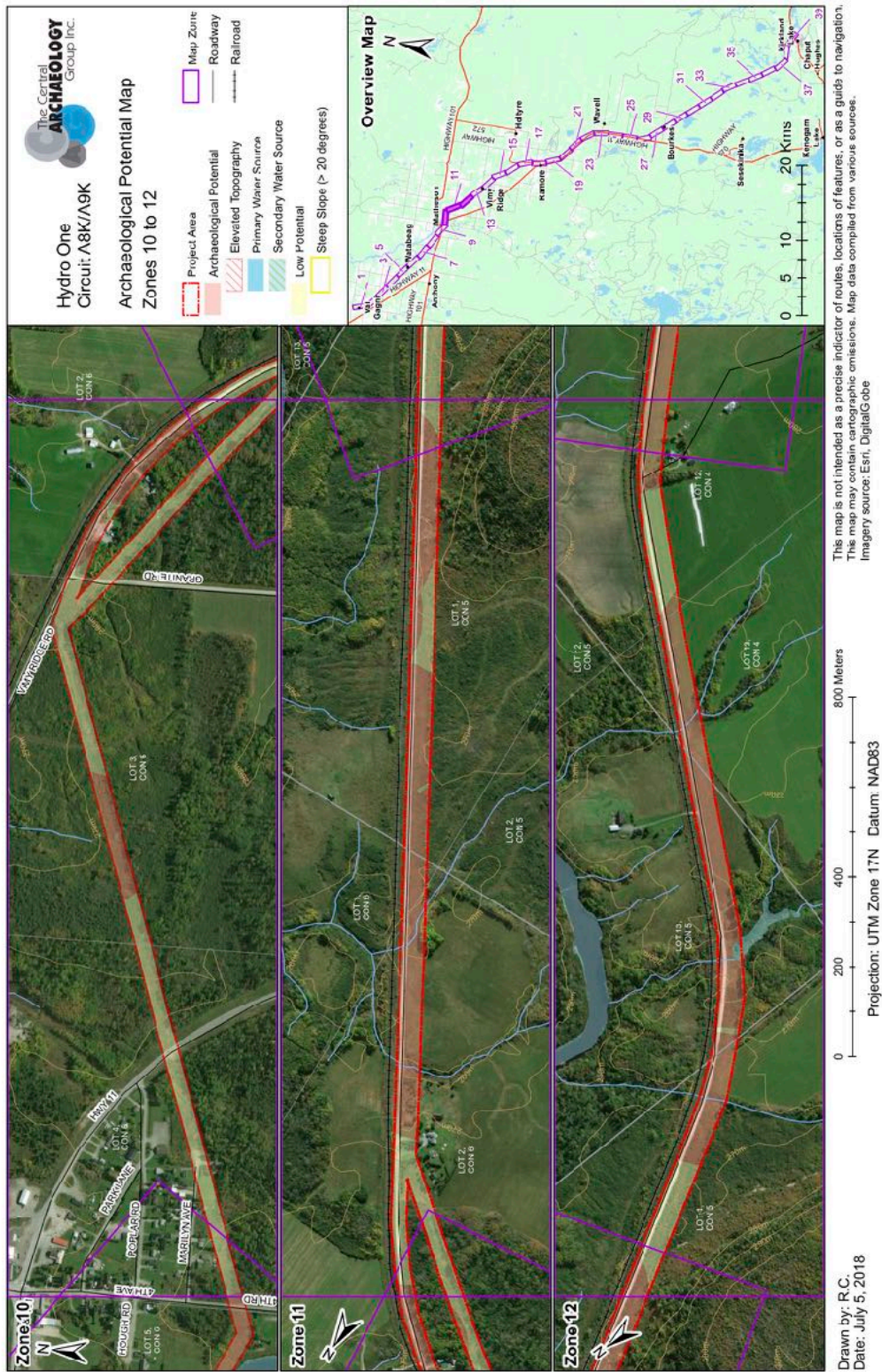
Map 24. Archaeological potential. Zones 1 to 3.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



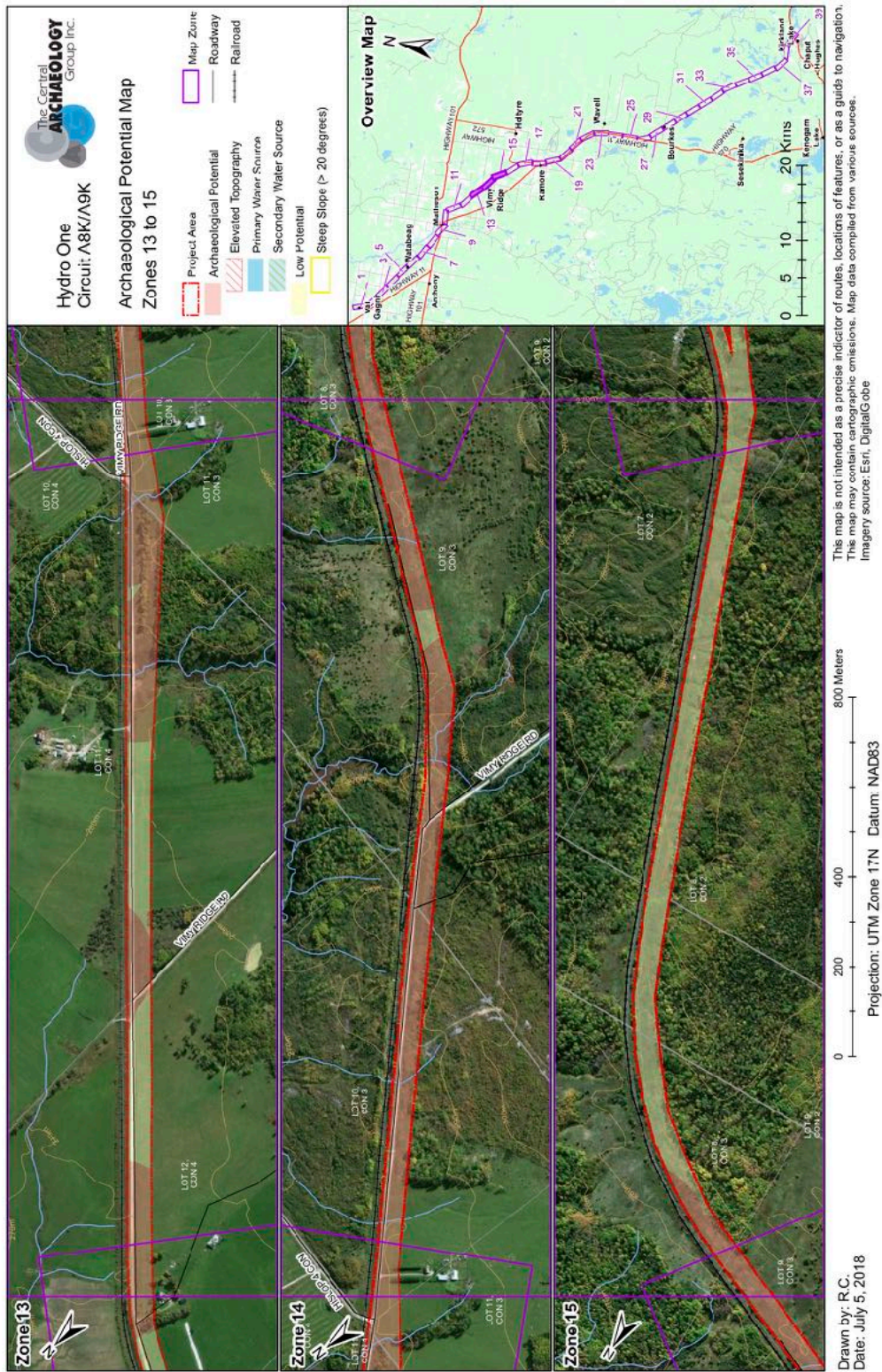
Map 26. Archaeological potential. Zones 7 to 9.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



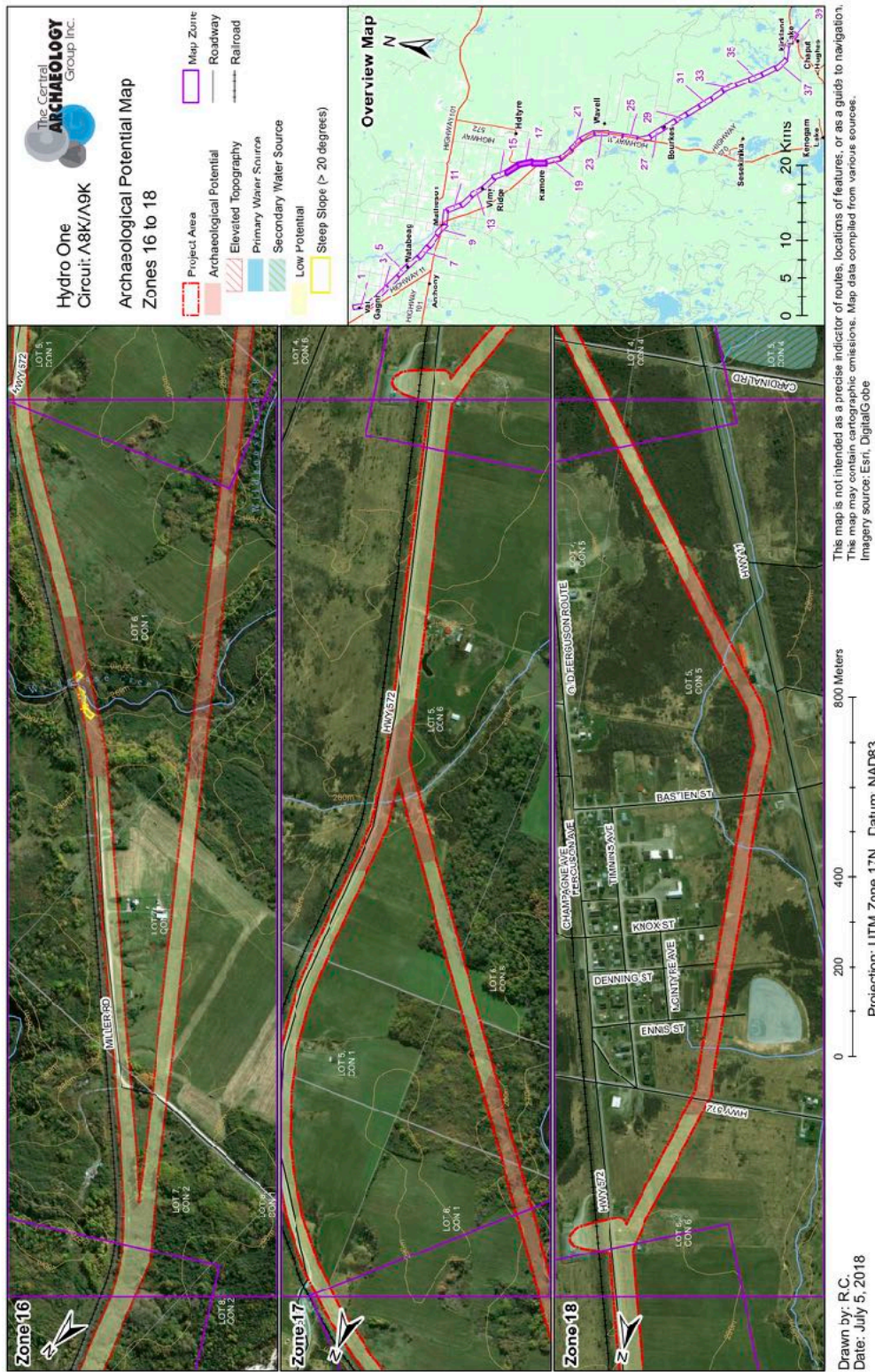
Map 27. Archaeological potential. Zones 10 to 12.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



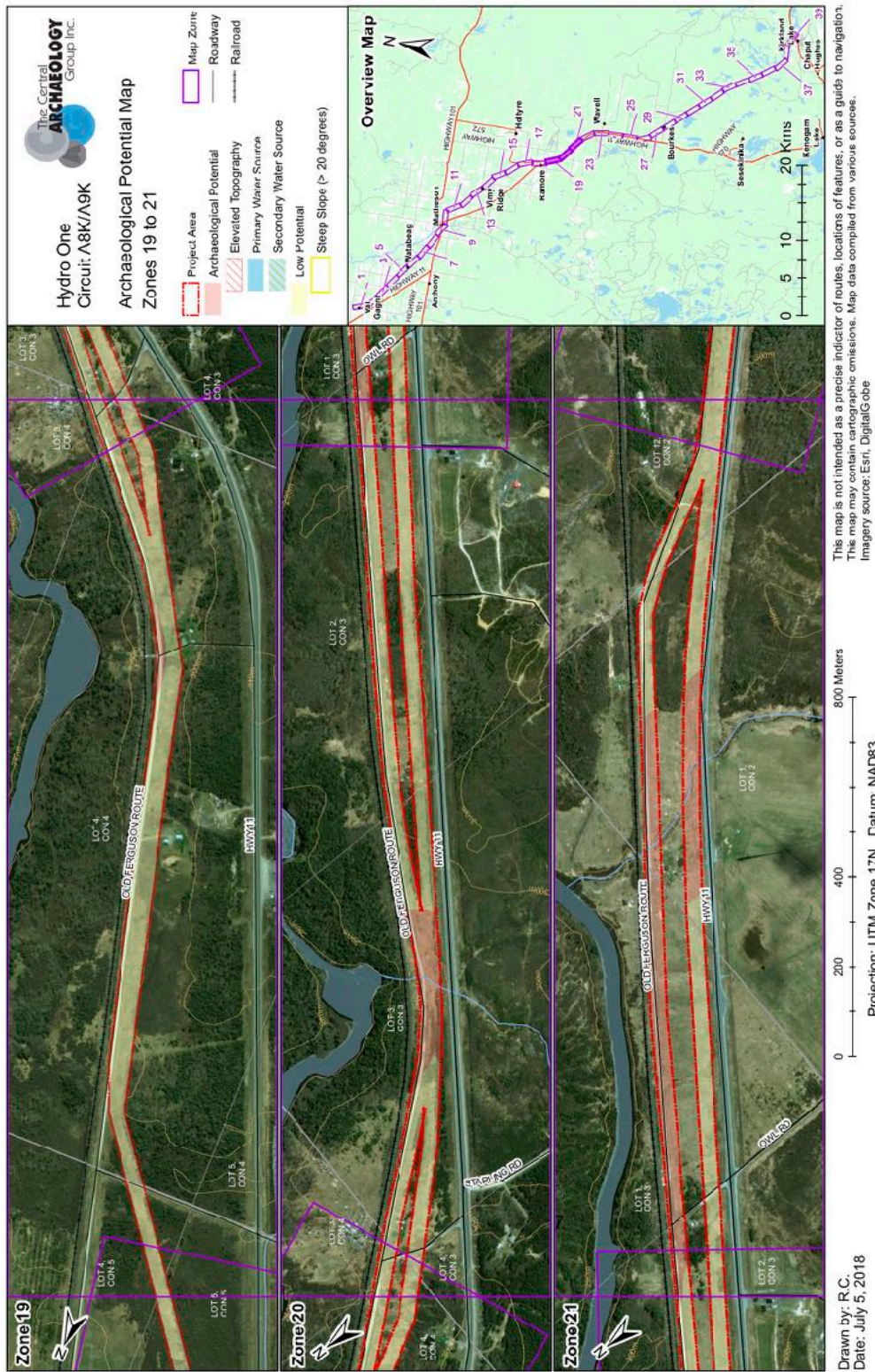
Map 28. Archaeological potential. Zones 13 to 15.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



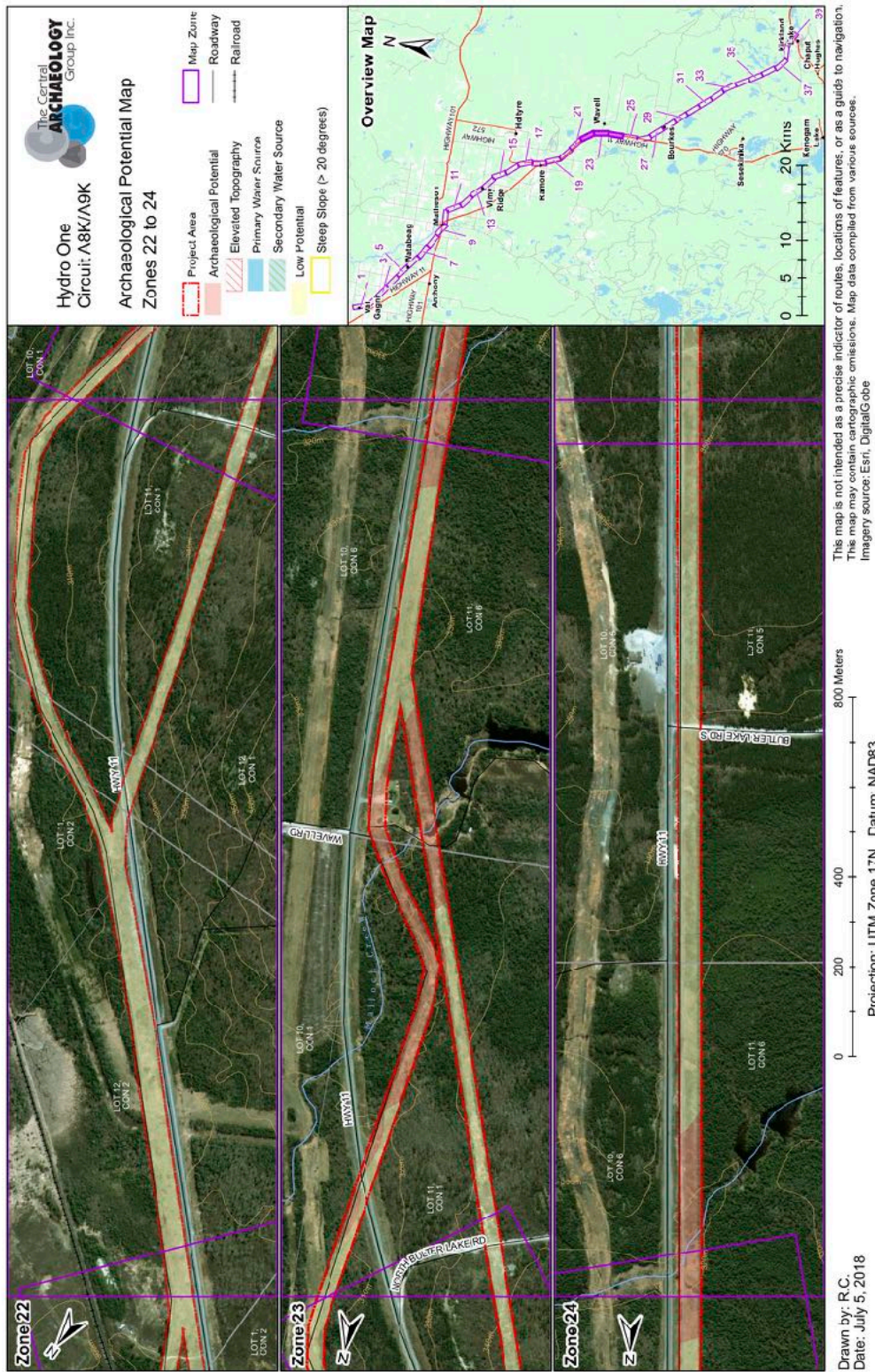
Map 29. Archaeological potential. Zones 16 to 18.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



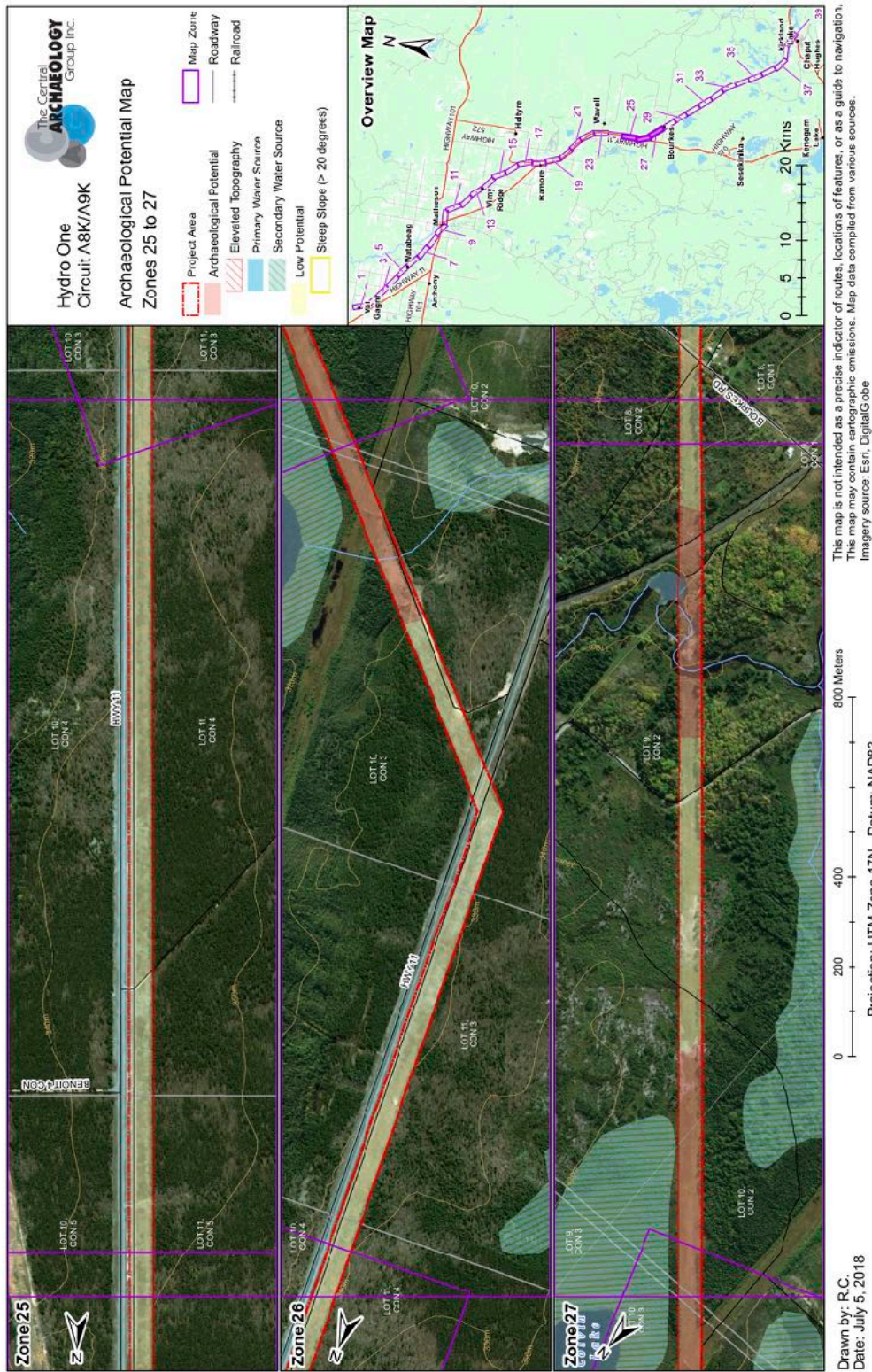
Map 30. Archaeological potential. Zones 19 to 21.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



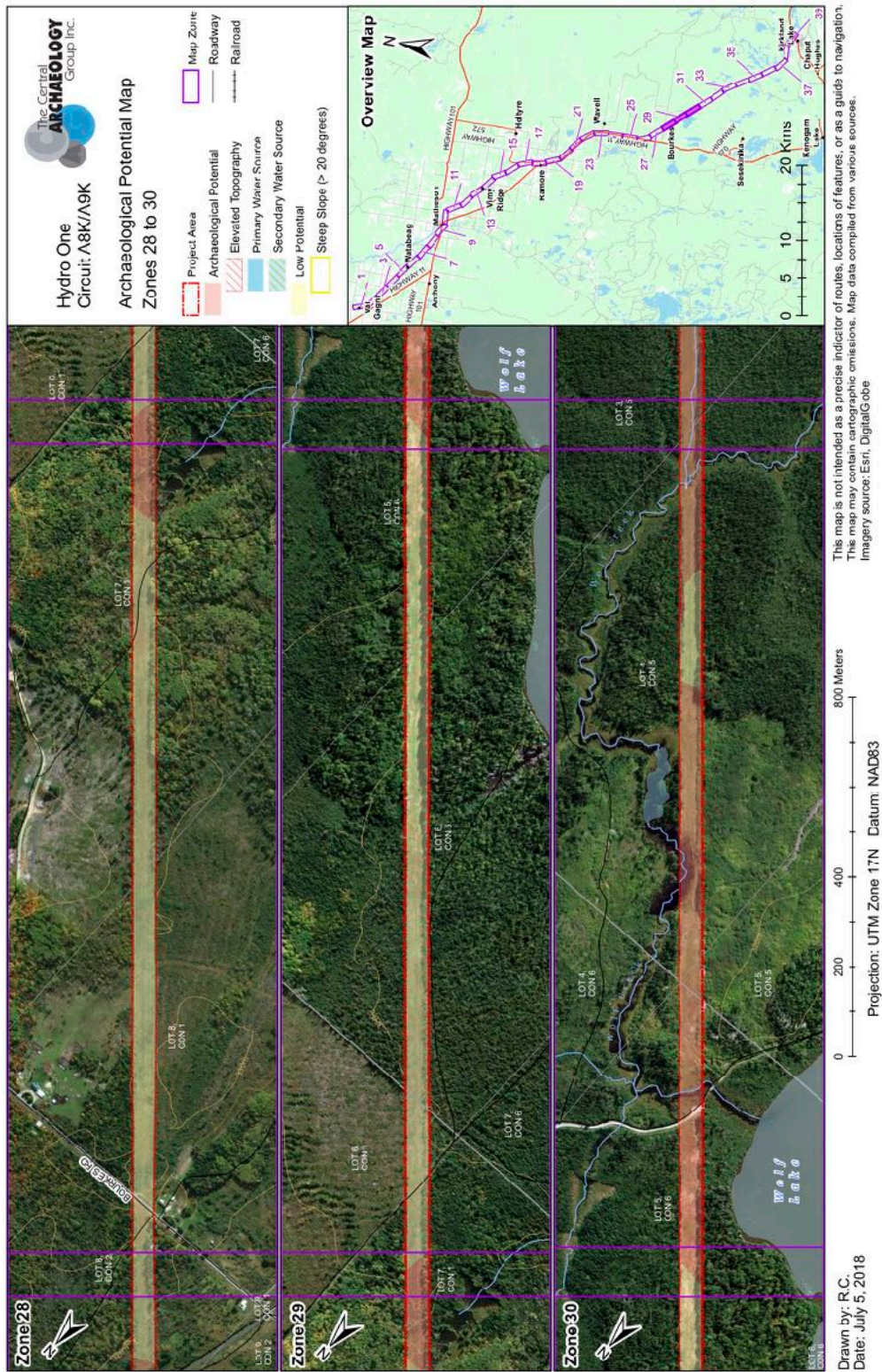
Map 31. Archaeological potential. Zones 22 to 24.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



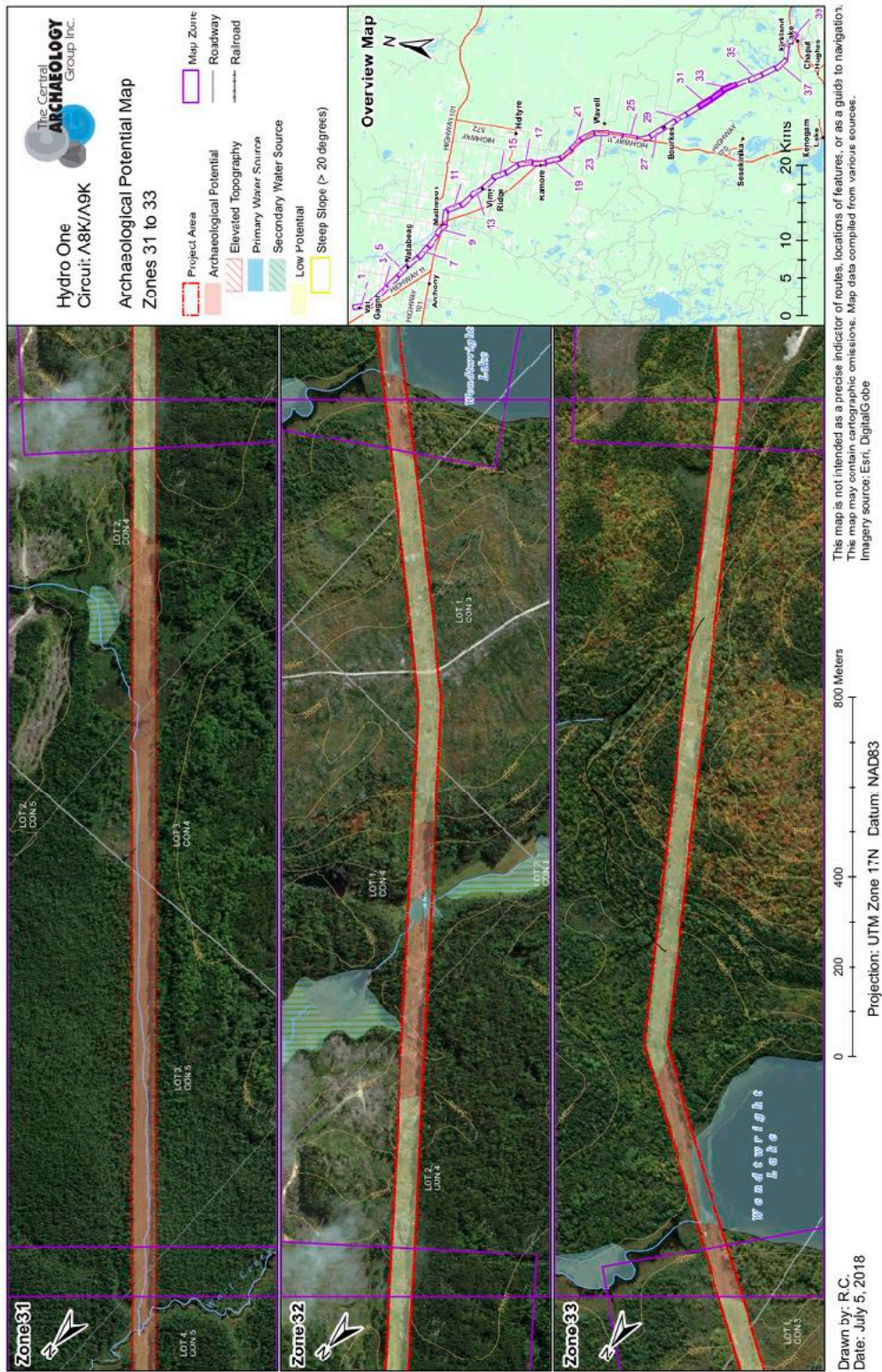
Map 32. Archaeological potential. Zones 25 to 27.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



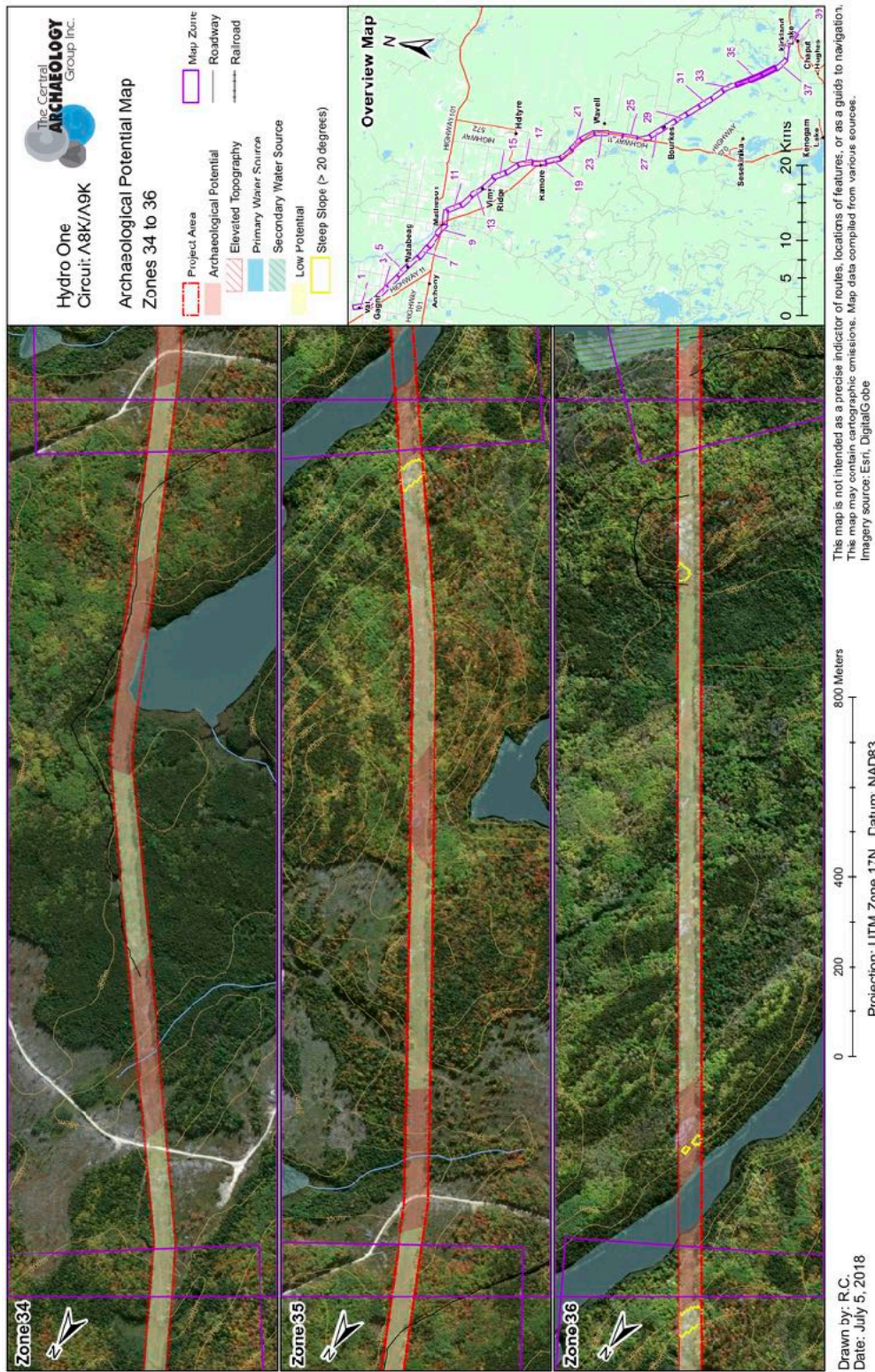
Map 33. Archaeological potential. Zones 28 to 30.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



Map 34. Archaeological potential. Zones 31 to 33.

CIRCUIT A8K/A9K LINE
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT



Map 35. Archaeological potential. Zones 34 to 36.

9.0 IMAGES







Image 5



Image 6





Image 9



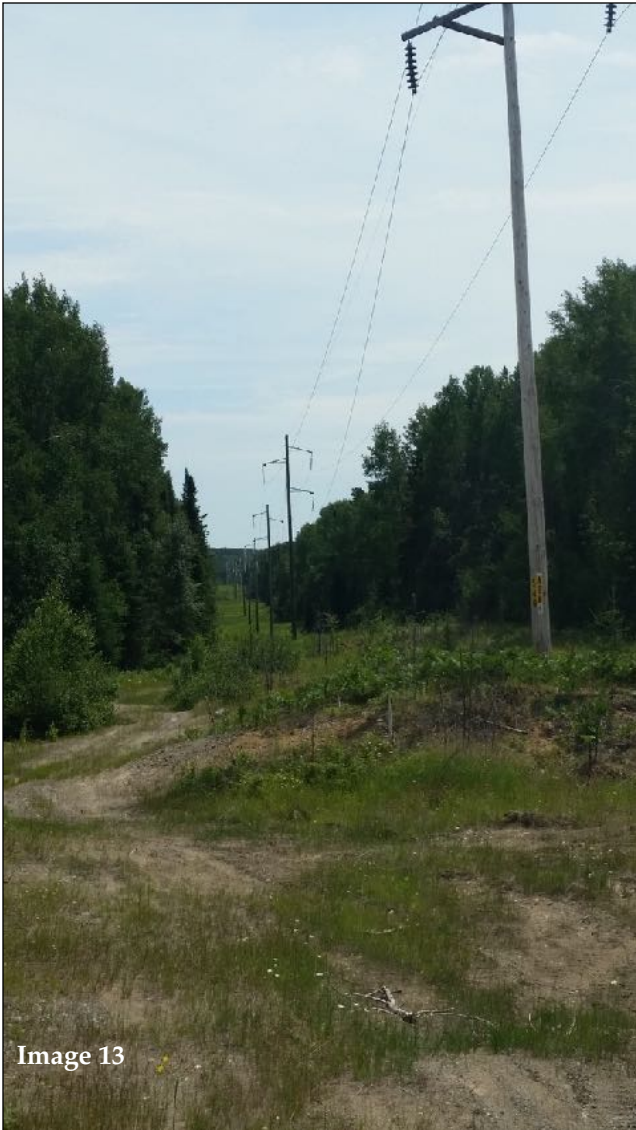
Image 10



Image 11



Image 12









10.0 GLOSSARY OF TERMS

A Horizon - mineral horizon at or near the ground surface (topsoil). May be dark brown due to accumulated humus (Ah) or grey or lighter brown when clay, iron and humus have been leached out (Ae). It is most commonly disturbed by human activities.

Archaeology - is the scientific study of the physical evidence of past human societies recovered through excavation.

Archaeological Site - is a place in which physical evidence of past human activity is preserved and which has been, or may be, investigated using the discipline of archaeology.

Archaic Period - in Ontario is characterized by the appearance of ground stone tools, notched or stemmed projectile points, the predominance of less extensively flaked stone tools, increased reliance on local chert resources, a lack of pottery and smoking pipes, and an increase in the numbers and sizes of sites.

Atlatl - a tool used to throw spears faster and with more accuracy. It consists of a short pole with a handle at one end and a hook for engaging the spear in the other.

B Horizon - below the A Horizon (subsoil). It could be enriched with iron (Bf), with iron and organic matter (Bhf), with organic matter (Bh) or with clay (Bt). If saturated for extended periods, B horizons show signs of gleying or mottling (Bfg, Btg, Bg).

Bioturbation - results in changes to the nature, form, and arrangement of archaeological deposits and sediments as a result of biological activity in the ground. This includes root action, animal activity, and the degeneration of organic matter.

BP - Before Present. Years before present (1950), used in dating sites and/or artifacts from an archaeological site.

Borden Number - a borden number is an identifier given to an archaeological site in Canada. It was created by Charles E. Borden and contains four letters and one to several numbers.

Burial Goods or Burial Paraphernalia - items interred with an individual (or group) burial that may give clues to their social and/or economic and/or political position within their culture.

Chert - is a fine-grained, sedimentary rock, similar to flint. In antiquity, chert was one of the universally preferred materials for making stone tools.

Contact Period - refers to the period when European and First Nations peoples were first exposed to one another. In Ontario from 450 BP to 200 BP.

Cultural Resources - are sites, structures, landscapes, and objects of particular importance to a culture or community.

Diagnostic - a distinguishing characteristic serving to identify or determine the artifact.

Disarticulated - this occurs when bones are found separated at the joints.

Disturbed - refers to a study area that has recently been excavated or altered from its original characteristics.

Ecozone - classification system that defines different parts of the environment with similar geography, vegetation, animals, climate, topography and water sources.

Environmental Assessment Act - sets up a process for reviewing the environmental impact of proposed activities prior to the granting of government funds.

Erratic - large rock or boulder that differs from the surrounding rock and is believed to have been transported a long distance as a result of glacial action.

Excavation - is the systematic digging and recording of an archaeological site. **Flake** - is a fragment of stone removed from a core or from another flake.

Feature - is a collection of one or more contexts representing some human activity that has a vertical characteristic to it in relation to site stratigraphy.

Fluted - grooved or channeled. A fluted point is a projectile point which has had one or more long thinning flakes removed from the base along one or both faces.

Glaciofluvial - sediments laid down by glacial meltwater action (i.e., rivers or streams).

Ground Stone - is a stone artifact shaped by sawing, grinding, and/or polishing with abrasive

materials.

Historic Period - the period when written records become available.

Holocene - the most recent period. Began approximately 10,000 years ago following the end of the Pleistocene.

Knap - to shape a piece of stone material by striking it at specific angles. Term used by archaeologists to denote the manufacture of a lithic tool.

Lanceolate - lance-shaped, much longer than wide, widened at or above the base and opening to the apex.

Lithic - stone, or made of stone.

Maize - also known as corn, is a cereal grain that was first domesticated in Mesoamerica and then

spread throughout the American continents.

Mitigation - measures undertaken to limit the adverse impact of construction methods on archaeological sites or cultural resources.

Ochre - used as a natural pigment, colour is commonly reddish-brown to yellow.

Ontario Heritage Act - allows municipalities and the provincial government to designate individual properties and districts in Ontario as being of cultural heritage value or interest.

Palaeoamerican Period - first evidence of human occupation in Ontario. This period is characterized by groups hunting large game and seasonal occupation along shore environments.

Pleistocene - an epoch within the Quaternary Period which began approximately 2,000,000 millions years ago and ended approximately 10,000 years ago. Immediately preceded the Holocene Period.

Projectile Point - is an artifact used to tip an arrow, atlatl dart, spear, or harpoon. Usually made of chipped or ground stone, however, some are also made of copper.

Stage 1 Background Study - The purpose of a Stage 1 assessment is to investigate the cultural land use, archaeological history, and the present conditions of a property. The majority of the Stage 1 process is conducted in the office and involves the examination of records such as historic settlement maps, land titles, and documents, historical land use and ownership records, primary and secondary documentary sources, and the Ministry of Culture's archaeological site database. The study may also involve interviews with individuals who can provide information about the property and consultation with local First Nations communities. The background study is followed by a property inspection to examine geography, topography and current conditions, and to determine the potential for archaeological resources. Stage 1 background research is usually completed in conjunction with a Stage 2 property survey.

Stage 2 Property Survey - A Stage 2 property survey is undertaken if the Stage 1 background study finds that a property retains archaeological potential. It involves the documentation of archaeological resources by collecting artifacts and mapping cultural features. Depending on the nature of the property environment, two methods are employed in the survey: 1)

pedestrian survey on cultivable properties, and; 2) test-pit survey on properties not cultivable due to tree growth, rock content, etc.

Strata - are layers of rock, soil, cultural material, etc. with internally consistent characteristics that distinguish contiguous.

Stratigraphy - the layering of deposits on archaeological sites. Cultural remains and natural sediments become buried over time, forming strata.

Subsistence - obtaining food and shelter necessary to support life.

Survey - is used to accurately determine the terrestrial or three-dimensional space position of points and the distances and angles between them.

Woodland Period - is a period of time following the Archaic Period. Middle, and Late.

**Ministry of Heritage, Sport, Tourism, and
Culture Industries**

Archaeology Program Unit
Programs and Services Branch
Heritage, Tourism and Culture Division
401 Bay Street, Suite 1700
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**Ministère des Industries du patrimoine, du sport, du
tourisme et de la culture**

Unité des programme d'archéologie
Direction des programmes et des services
Division du patrimoine, du tourisme et de la culture
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Tél. : (249) 885-1567
Email: Paige.Campbell@ontario.ca



Jun 11, 2021

Laura McRae (P248)
The Central Archaeology Group Inc.
5Campbellford ON K0L 1L0

**RE: Review and Entry into the Ontario Public Register of Archaeological Reports:
Archaeological Assessment Report Entitled, "Stage 1 Background Study: Circuit
A8K/A9K Line from Kirkland Lake to Val Gagne, Geographic Townships of Teck,
Bernhardt and Maisonville, District of Timiskaming and Geographic Townships of
Benoit, Cook, Playfair, Hislop, Bowman, Carr and Taylor, District of Cochrane",
Dated May 17, 2021, Filed with MHSTCI Toronto Office on May 21, 2021, MHSTCI
Project Information Form Number P248-0319-2018, MHSTCI File Number 0009199**

Dear Ms. McRae:

This office has reviewed the above-mentioned report, which has been submitted to this ministry as a condition of licensing in accordance with Part VI of the *Ontario Heritage Act*, R.S.O. 1990, c 0.18.¹ This review has been carried out in order to determine whether the licensed professional consultant archaeologist has met the terms and conditions of their licence, that the licensee assessed the property and documented archaeological resources using a process that accords with the 2011 *Standards and Guidelines for Consultant Archaeologists* set by the ministry, and that the archaeological fieldwork and report recommendations are consistent with the conservation, protection and preservation of the cultural heritage of Ontario.

The report documents the assessment of the study area as depicted in Maps 24 to 36 of the above titled report and recommends the following:

- 1) All areas of delineated archaeological potential that will be affected by development must be subject to a Stage 2 archaeological assessment prior to any ground-disturbing activities (Maps 24 to 36).
- 2) A Stage 2 archaeological assessment will be conducted by a licensed consultant archaeologist using the pedestrian survey method at 5 m intervals in all areas along the corridor that are actively or recently cultivated agricultural land at the time of the Stage 2 assessment. The exceptions to this being if the land is now manicured lawn, overgrown meadow and has been out of agricultural use to render the land unploughable.
- 3) A Stage 2 archaeological assessment will be conducted by a licensed consultant archaeologist using the test pit survey method at 5 metre intervals in all areas along the corridor which have not been recently ploughed or do not have appropriate conditions for pedestrian survey at the time of the Stage 2

assessment. This will be conducted as per the Standards and Guidelines for Consulting Archaeologists for work in Northern Ontario (Section 2.1.5): a) Test-pitting is required between 0 to 50 metres from a modern water source at intervals of five metres and a survey is not required past 50 metres; b) For features of archaeological potential other than modern water sources, such as the known transportation routes and areas of ancient water sources, test-pitting is required in intervals of five metres 0 to 50 metres from the features. From 50 to 150 metres from the feature, test-pitting intervals can be a maximum of 10 metres; and c) Survey is not required beyond 150 metres.

4) A Stage 2 archaeological assessment will be conducted by a licensed consultant archaeologist using the pedestrian survey method at 5 m intervals in all areas along the corridor which have been recently ploughed.

5) The Stage 2 archaeological assessment will follow the requirements set out in the 2011 Standards and Guidelines for Consultant Archaeologists (MTCS 2011).

6) Should construction activities associated with this development extend beyond those areas assessed during this project, further archaeological investigation will be required prior to ground-disturbing activities.

7) Notwithstanding the results and recommendations presented in this study, The Central Archaeology Group Inc. notes that no archaeological assessment, no matter how thorough or carefully completed, can necessarily predict, account for, or identify every form of isolated or deeply buried archaeological deposit. Therefore, in the event that archaeological remains are found during subsequent construction and development activities, the consultant archaeologist, approval authority, and the Cultural Programs Unit of the Ministry of Tourism, Culture and Sport should be immediately notified.

Based on the information contained in the report, the ministry is satisfied that the fieldwork and reporting for the archaeological assessment are consistent with the ministry's 2011 *Standards and Guidelines for Consultant Archaeologists* and the terms and conditions for archaeological licences. This report has been entered into the Ontario Public Register of Archaeological Reports. Please note that the ministry makes no representation or warranty as to the completeness, accuracy or quality of reports in the register.

Should you require any further information regarding this matter, please feel free to contact me.

Sincerely,

Paige Campbell
Archaeology Review Officer

cc. Archaeology Licensing Officer
Sarah Cohanim, Hydro One Networks Inc.
Sarah Cohanim, Hydro One Networks Inc.

¹ *In no way will the ministry be liable for any harm, damages, costs, expenses, losses, claims or actions that may result: (a) if the Report(s) or its recommendations are discovered to be inaccurate, incomplete, misleading or fraudulent; or (b) from the issuance of this letter. Further measures may need to be taken in the event that additional artifacts or archaeological sites are identified or the Report(s) is otherwise found to be inaccurate, incomplete, misleading or fraudulent.*

The **purpose of the checklist** is to determine:

- if a property(ies) or project area:
 - is a recognized heritage property
 - may be of cultural heritage value
- it includes all areas that may be impacted by project activities, including – but not limited to:
 - the main project area
 - temporary storage
 - staging and working areas
 - temporary roads and detours

Processes covered under this checklist, such as:

- *Planning Act*
- *Environmental Assessment Act*
- *Aggregates Resources Act*
- *Ontario Heritage Act* – Standards and Guidelines for Conservation of Provincial Heritage Properties

Cultural Heritage Evaluation Report (CHER)

If you are not sure how to answer one or more of the questions on the checklist, you may want to hire a qualified person(s) (see page 5 for definitions) to undertake a cultural heritage evaluation report (CHER).

The CHER will help you:

- identify, evaluate and protect cultural heritage resources on your property or project area
- reduce potential delays and risks to a project

Other checklists

Please use a separate checklist for your project, if:

- you are seeking a Renewable Energy Approval under Ontario Regulation 359/09 – [separate checklist](#)
- your Parent Class EA document has an approved screening criteria (as referenced in Question 1)

Please refer to the Instructions pages for more detailed information and when completing this form.

Project or Property Name
A8K/A9K Transmission Line Refurbishment

Project or Property Location (upper and lower or single tier municipality)
Kirkland Lake, Timiskaming District (Unorg), Cochrane District (Unorg), Black River-Matheson, Iroquois Falls

Proponent Name
Hydro One Networks Inc.

Proponent Contact Information
Sarah.Cole@HydroOne.com

Screening Questions

	Yes	No
1. Is there a pre-approved screening checklist, methodology or process in place?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If Yes, please follow the pre-approved screening checklist, methodology or process.

If No, continue to Question 2.

Part A: Screening for known (or recognized) Cultural Heritage Value

	Yes	No
2. Has the property (or project area) been evaluated before and found not to be of cultural heritage value?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If Yes, do **not** complete the rest of the checklist.

The proponent, property owner and/or approval authority will:

- summarize the previous evaluation and
- add this checklist to the project file, with the appropriate documents that demonstrate a cultural heritage evaluation was undertaken

The summary and appropriate documentation may be:

- submitted as part of a report requirement
- maintained by the property owner, proponent or approval authority

If No, continue to Question 3.

	Yes	No
3. Is the property (or project area):		
a. identified, designated or otherwise protected under the <i>Ontario Heritage Act</i> as being of cultural heritage value?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. a National Historic Site (or part of)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. designated under the <i>Heritage Railway Stations Protection Act</i> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d. designated under the <i>Heritage Lighthouse Protection Act</i> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e. identified as a Federal Heritage Building by the Federal Heritage Buildings Review Office (FHBRO)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f. located within a United Nations Educational, Scientific and Cultural Organization (UNESCO) World Heritage Site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If Yes to any of the above questions, you need to hire a qualified person(s) to undertake:

- a Cultural Heritage Evaluation Report, if a Statement of Cultural Heritage Value has not previously been prepared or the statement needs to be updated

If a Statement of Cultural Heritage Value has been prepared previously and if alterations or development are proposed, you need to hire a qualified person(s) to undertake:

- a Heritage Impact Assessment (HIA) – the report will assess and avoid, eliminate or mitigate impacts

If No, continue to Question 4.

Part B: Screening for Potential Cultural Heritage Value

	Yes	No
4. Does the property (or project area) contain a parcel of land that:		
a. is the subject of a municipal, provincial or federal commemorative or interpretive plaque?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. has or is adjacent to a known burial site and/or cemetery?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. is in a Canadian Heritage River watershed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d. contains buildings or structures that are 40 or more years old?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Part C: Other Considerations

	Yes	No
5. Is there local or Aboriginal knowledge or accessible documentation suggesting that the property (or project area):		
a. is considered a landmark in the local community or contains any structures or sites that are important in defining the character of the area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. has a special association with a community, person or historical event?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. contains or is part of a cultural heritage landscape?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If Yes to one or more of the above questions (Part B and C), there is potential for cultural heritage resources on the property or within the project area.

You need to hire a qualified person(s) to undertake:

- a Cultural Heritage Evaluation Report (CHER)

If the property is determined to be of cultural heritage value and alterations or development is proposed, you need to hire a qualified person(s) to undertake:

- a Heritage Impact Assessment (HIA) – the report will assess and avoid, eliminate or mitigate impacts

If No to all of the above questions, there is low potential for built heritage or cultural heritage landscape on the property.

The proponent, property owner and/or approval authority will:

- summarize the conclusion
- add this checklist with the appropriate documentation to the project file

The summary and appropriate documentation may be:

- submitted as part of a report requirement e.g. under the *Environmental Assessment Act*, *Planning Act* processes
- maintained by the property owner, proponent or approval authority

Instructions

Please have the following available, when requesting information related to the screening questions below:

- a clear map showing the location and boundary of the property or project area
 - large scale and small scale showing nearby township names for context purposes
- the municipal addresses of all properties within the project area
- the lot(s), concession(s), and parcel number(s) of all properties within a project area

For more information, see the Ministry of Tourism, Culture and Sport's [Ontario Heritage Toolkit](#) or [Standards and Guidelines for Conservation of Provincial Heritage Properties](#).

In this context, the following definitions apply:

- **qualified person(s)** means individuals – professional engineers, architects, archaeologists, etc. – having relevant, recent experience in the conservation of cultural heritage resources.
- **proponent** means a person, agency, group or organization that carries out or proposes to carry out an undertaking or is the owner or person having charge, management or control of an undertaking.

1. Is there a pre-approved screening checklist, methodology or process in place?

An existing checklist, methodology or process may already be in place for identifying potential cultural heritage resources, including:

- one endorsed by a municipality
- an environmental assessment process e.g. screening checklist for municipal bridges
- one that is approved by the Ministry of Tourism, Culture and Sport (MTCS) under the Ontario government's [Standards & Guidelines for Conservation of Provincial Heritage Properties](#) [s.B.2.]

Part A: Screening for known (or recognized) Cultural Heritage Value

2. Has the property (or project area) been evaluated before and found not to be of cultural heritage value?

Respond 'yes' to this question, if all of the following are true:

A property can be considered not to be of cultural heritage value if:

- a Cultural Heritage Evaluation Report (CHER) - or equivalent - has been prepared for the property with the advice of a qualified person and it has been determined not to be of cultural heritage value and/or
- the municipal heritage committee has evaluated the property for its cultural heritage value or interest and determined that the property is not of cultural heritage value or interest

A property may need to be re-evaluated, if:

- there is evidence that its heritage attributes may have changed
- new information is available
- the existing Statement of Cultural Heritage Value does not provide the information necessary to manage the property
- the evaluation took place after 2005 and did not use the criteria in Regulations 9/06 and 10/06

Note: Ontario government ministries and public bodies [prescribed under Regulation 157/10] may continue to use their existing evaluation processes, until the evaluation process required under section B.2 of the Standards & Guidelines for Conservation of Provincial Heritage Properties has been developed and approved by MTCS.

To determine if your property or project area has been evaluated, contact:

- the approval authority
- the proponent
- the Ministry of Tourism, Culture and Sport

3a. Is the property (or project area) identified, designated or otherwise protected under the *Ontario Heritage Act* as being of cultural heritage value e.g.:

- i. designated under the *Ontario Heritage Act*
 - individual designation (Part IV)
 - part of a heritage conservation district (Part V)

Individual Designation – Part IV

A property that is designated:

- by a municipal by-law as being of cultural heritage value or interest [s.29 of the *Ontario Heritage Act*]
- by order of the Minister of Tourism, Culture and Sport as being of cultural heritage value or interest of provincial significance [s.34.5]. **Note:** To date, no properties have been designated by the Minister.

Heritage Conservation District – Part V

A property or project area that is located within an area designated by a municipal by-law as a heritage conservation district [s. 41 of the *Ontario Heritage Act*].

For more information on Parts IV and V, contact:

- municipal clerk
- [Ontario Heritage Trust](#)
- local land registry office (for a title search)

ii. subject of an agreement, covenant or easement entered into under Parts II or IV of the *Ontario Heritage Act*

An agreement, covenant or easement is usually between the owner of a property and a conservation body or level of government. It is usually registered on title.

The primary purpose of the agreement is to:

- preserve, conserve, and maintain a cultural heritage resource
- prevent its destruction, demolition or loss

For more information, contact:

- [Ontario Heritage Trust](#) - for an agreement, covenant or easement [clause 10 (1) (c) of the *Ontario Heritage Act*]
- municipal clerk – for a property that is the subject of an easement or a covenant [s.37 of the *Ontario Heritage Act*]
- local land registry office (for a title search)

iii. listed on a register of heritage properties maintained by the municipality

Municipal registers are the official lists - or record - of cultural heritage properties identified as being important to the community.

Registers include:

- all properties that are designated under the *Ontario Heritage Act* (Part IV or V)
- properties that have not been formally designated, but have been identified as having cultural heritage value or interest to the community

For more information, contact:

- municipal clerk
- municipal heritage planning staff
- municipal heritage committee

iv. subject to a notice of:

- intention to designate (under Part IV of the *Ontario Heritage Act*)
- a Heritage Conservation District study area bylaw (under Part V of the *Ontario Heritage Act*)

A property that is subject to a **notice of intention to designate** as a property of cultural heritage value or interest and the notice is in accordance with:

- section 29 of the *Ontario Heritage Act*
- section 34.6 of the *Ontario Heritage Act*. **Note:** To date, the only applicable property is Meldrum Bay Inn, Manitoulin Island. [s.34.6]

An area designated by a municipal by-law made under section 40.1 of the *Ontario Heritage Act* as a **heritage conservation district study area**.

For more information, contact:

- municipal clerk – for a property that is the subject of notice of intention [s. 29 and s. 40.1]
- [Ontario Heritage Trust](#)

- v. included in the Ministry of Tourism, Culture and Sport's list of provincial heritage properties

Provincial heritage properties are properties the Government of Ontario owns or controls that have cultural heritage value or interest.

The Ministry of Tourism, Culture and Sport (MTCS) maintains a list of all provincial heritage properties based on information provided by ministries and prescribed public bodies. As they are identified, MTCS adds properties to the list of provincial heritage properties.

For more information, contact the MTCS Registrar at registrar@ontario.ca.

3b. Is the property (or project area) a National Historic Site (or part of)?

National Historic Sites are properties or districts of national historic significance that are designated by the Federal Minister of the Environment, under the *Canada National Parks Act*, based on the advice of the Historic Sites and Monuments Board of Canada.

For more information, see the [National Historic Sites website](#).

3c. Is the property (or project area) designated under the *Heritage Railway Stations Protection Act*?

The *Heritage Railway Stations Protection Act* protects heritage railway stations that are owned by a railway company under federal jurisdiction. Designated railway stations that pass from federal ownership may continue to have cultural heritage value.

For more information, see the [Directory of Designated Heritage Railway Stations](#).

3d. Is the property (or project area) designated under the *Heritage Lighthouse Protection Act*?

The *Heritage Lighthouse Protection Act* helps preserve historically significant Canadian lighthouses. The Act sets up a public nomination process and includes heritage building conservation standards for lighthouses which are officially designated.

For more information, see the [Heritage Lighthouses of Canada](#) website.

3e. Is the property (or project area) identified as a Federal Heritage Building by the Federal Heritage Buildings Review Office?

The role of the Federal Heritage Buildings Review Office (FHBRO) is to help the federal government protect the heritage buildings it owns. The policy applies to all federal government departments that administer real property, but not to federal Crown Corporations.

For more information, contact the [Federal Heritage Buildings Review Office](#).

See a [directory of all federal heritage designations](#).

3f. Is the property (or project area) located within a United Nations Educational, Scientific and Cultural Organization (UNESCO) World Heritage Site?

A UNESCO World Heritage Site is a place listed by UNESCO as having outstanding universal value to humanity under the Convention Concerning the Protection of the World Cultural and Natural Heritage. In order to retain the status of a World Heritage Site, each site must maintain its character defining features.

Currently, the Rideau Canal is the only World Heritage Site in Ontario.

For more information, see Parks Canada – [World Heritage Site website](#).

Part B: Screening for potential Cultural Heritage Value

4a. Does the property (or project area) contain a parcel of land that has a municipal, provincial or federal commemorative or interpretive plaque?

Heritage resources are often recognized with formal plaques or markers.

Plaques are prepared by:

- municipalities
- provincial ministries or agencies
- federal ministries or agencies
- local non-government or non-profit organizations

For more information, contact:

- [municipal heritage committees](#) or local heritage organizations – for information on the location of plaques in their community
- Ontario Historical Society's [Heritage directory](#) – for a list of historical societies and heritage organizations
- Ontario Heritage Trust – for a [list of plaques](#) commemorating Ontario's history
- Historic Sites and Monuments Board of Canada – for a [list of plaques](#) commemorating Canada's history

4b. Does the property (or project area) contain a parcel of land that has or is adjacent to a known burial site and/or cemetery?

For more information on known cemeteries and/or burial sites, see:

- Cemeteries Regulations, Ontario Ministry of Consumer Services – for a [database of registered cemeteries](#)
- Ontario Genealogical Society (OGS) – to [locate records of Ontario cemeteries](#), both currently and no longer in existence; cairns, family plots and burial registers
- Canadian County Atlas Digital Project – to [locate early cemeteries](#)

In this context, adjacent means contiguous or as otherwise defined in a municipal official plan.

4c. Does the property (or project area) contain a parcel of land that is in a Canadian Heritage River watershed?

The Canadian Heritage River System is a national river conservation program that promotes, protects and enhances the best examples of Canada's river heritage.

Canadian Heritage Rivers must have, and maintain, outstanding natural, cultural and/or recreational values, and a high level of public support.

For more information, contact the [Canadian Heritage River System](#).

If you have questions regarding the boundaries of a watershed, please contact:

- your conservation authority
- municipal staff

4d. Does the property (or project area) contain a parcel of land that contains buildings or structures that are 40 or more years old?

A 40 year 'rule of thumb' is typically used to indicate the potential of a site to be of cultural heritage value. The approximate age of buildings and/or structures may be estimated based on:

- history of the development of the area
- fire insurance maps
- architectural style
- building methods

Property owners may have information on the age of any buildings or structures on their property. The municipality, local land registry office or library may also have background information on the property.

Note: 40+ year old buildings or structure do not necessarily hold cultural heritage value or interest; their age simply indicates a higher potential.

A building or structure can include:

- residential structure
- farm building or outbuilding
- industrial, commercial, or institutional building
- remnant or ruin
- engineering work such as a bridge, canal, dams, etc.

For more information on researching the age of buildings or properties, see the Ontario Heritage Tool Kit Guide [Heritage Property Evaluation](#).

Part C: Other Considerations

5a. Is there local or Aboriginal knowledge or accessible documentation suggesting that the property (or project area) is considered a landmark in the local community or contains any structures or sites that are important to defining the character of the area?

Local or Aboriginal knowledge may reveal that the project location is situated on a parcel of land that has potential landmarks or defining structures and sites, for instance:

- buildings or landscape features accessible to the public or readily noticeable and widely known
- complexes of buildings
- monuments
- ruins

5b. Is there local or Aboriginal knowledge or accessible documentation suggesting that the property (or project area) has a special association with a community, person or historical event?

Local or Aboriginal knowledge may reveal that the project location is situated on a parcel of land that has a special association with a community, person or event of historic interest, for instance:

- Aboriginal sacred site
- traditional-use area
- battlefield
- birthplace of an individual of importance to the community

5c. Is there local or Aboriginal knowledge or accessible documentation suggesting that the property (or project area) contains or is part of a cultural heritage landscape?

Landscapes (which may include a combination of archaeological resources, built heritage resources and landscape elements) may be of cultural heritage value or interest to a community.

For example, an Aboriginal trail, historic road or rail corridor may have been established as a key transportation or trade route and may have been important to the early settlement of an area. Parks, designed gardens or unique landforms such as waterfalls, rock faces, caverns, or mounds are areas that may have connections to a particular event, group or belief.

For more information on Questions 5.a., 5.b. and 5.c., contact:

- Elders in Aboriginal Communities or community researchers who may have information on potential cultural heritage resources. Please note that Aboriginal traditional knowledge may be considered sensitive.
- [municipal heritage committees](#) or local heritage organizations
- Ontario Historical Society's "[Heritage Directory](#)" - for a list of historical societies and heritage organizations in the province

An internet search may find helpful resources, including:

- historical maps
- historical walking tours
- municipal heritage management plans
- cultural heritage landscape studies
- municipal cultural plans

Information specific to trails may be obtained through [Ontario Trails](#).

Appendix G Watercourse Crossings

Watercrossing Name	Municipality	MNRF District	Crossing Type?	UTM Crossing	Land Tenure	OHN/ARA Waterbody Name	OHN Permanency	ARA Thermal Regime	Drainage Area (km ²)	MNRF Known Fish Species - Fish On-Line	ARA Known Fish Species
WC_63A9K-64A9K / 49A8K - 50A8K	Iroquois Falls	Cochrane	Temporary Clear Span or Ice Bridge	17T 523520 5391502	Patent	No Data	Permanent	No Data	1.604	Tributary to Driftwood River: WALL, NRPK	No Data
WC_64A9K-65A9K	Iroquois Falls	Cochrane	Temporary Clear Span or Ice Bridge	17T 523522 5391414	Patent	No Data	Permanent	No Data	0.951	Tributary to Driftwood River: WALL, NRPK	No Data
WC_60A8K - 61A8K / 77A9K - 78A9K	Iroquois Falls	Cochrane	Temporary Clear Span or Ice Bridge	17T 523532 5389910	Patent	No Data	Permanent	No Data	0.252	Tributary to Driftwood River: WALL, NRPK	No Data
WC_103A8K - 104A8K / 122A9K - 123A9K	Black River-Matheson	Cochrane	Temporary Clear Span or Ice Bridge	17T 525840 5386346	Patent	No Data	Permanent	No Data	0.732	Unnamed tributary to the Black River: BRTR, BRBL, GOLD, SAUG	No Data
WC_138A8K/A9K - 139A8K/A9K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 526967 5384676	Patent	No Data	No Data	No Data	0.591	Unnamed tributary to the Black River: BRTR, BRBL, GOLD, SAUG	No Data
WC_144A8K - 145A8K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 526878 5383887	Patent	No Data	Permanent	Coolwater	0.276	Unnamed tributary to the Black River: BRTR, BRBL, GOLD, SAUG	BRMN, BRST, CRCH, NRRD
WC_200A8K - 201A8K / 199A9K - 200A9K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 531745 5380313	Patent	Wabblers Creek	Permanent	Coolwater	1.579	Tributary to Wabblers Creek	BRMN, BRST, CMSH, CRCH, FTMN, FNDC, IWDR, NRPR, NRRD, WHSC
WC_227A8K - 228A8K / 228A9K - 229A9K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 534184 5378602	Patent	No Data	Permanent	Coolwater	0.153	Tributary to Watabeag River (and Black River)	BLSH, BRST, BRTR, CMSH, CRCH, FTMN, FNDC, NRPR, NRRD, SPSH, WHSC
WC_230A8K - 231A8K / 231A9K - 232A9K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 534443 5378420	Patent	No Data	Permanent	Coolwater	0.068	Tributary to Watabeag River (and Black River)	BLSH, BRST, BRTR, CMSH, CRCH, FTMN, FNDC, NRPR, NRRD, SPSH, WHSC
WC_238A8K - 239A8K / 239A9K - 240A9K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 535175 5377764	Patent	No Data	Permanent	Coolwater	0.745	Tributary to Watabeag River (and Black River)	BRTR, BRBL, CMSH, CRCH, GOLD, JHDR, LOGP, LNDC, MTSC, NRPR, SAUG
WC_241A8K - 242A8K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 535531 5377591	Patent	No Data	Permanent	Coolwater	0.159	Tributary to Watabeag River (and Black River)	BLSH, BRST, BRTR, CMSH, CRCH, FTMN, FNDC, NRPR, NRRD, SPSH, WHSC
WC_249A8K - 250A8K / 250A9K - 251A9K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 536253 5377152	Patent	No Data	Permanent	Coolwater	0.564	Unnamed tributary to the Black River: BRTR, BRBL, GOLD, SAUG. Also connected to Galloway Lake.	BLMN, BRST, CRCH, FNDC, NRPR, WHSC
WC_300A8K - 301A8K / 301A9K - 302A9K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 541936 5374732	Patent	No Data	Permanent	Coolwater	0.543	Unnamed tributary to the Black River: BRTR, BRBL, GOLD, SAUG	BLMN, BRST, CRCH, FNDC, NRPR, WHSC
WC_314A8K - 315A8K / 315A9K - 316A9K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 542693 5373421	Unpatented	No Data	No Data	No Data	0.175	Unnamed tributary to the Black River: BRTR, BRBL, GOLD, SAUG	No Data
WC_349A8K - 350A8K / 351A9K - 352A9K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 545596 5370964	Patent	No Data	Permanent	Coolwater	0.056	Unnamed tributary to the Black River: BRTR, BRBL, GOLD, SAUG	BRST, CRCH, FTMN, FNDC, NRPR, NRRD
WC_360A8K - 361A8K / 362A9K - 363A9K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 546567 5370245	Patent	No Data	Permanent	Coolwater	0.083	Unnamed tributary to the Black River: BRTR, BRBL, GOLD, SAUG	BLMN, BRST, CRCH, FNDC, NRPR, WHSC
WC_403A8K - 404A8K / 412A9K - 413A9K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 549552 5366217	Patent	No Data	Permanent	Coolwater	4.733	Unnamed tributary to the Black River: BRTR, BRBL, GOLD, SAUG	BLMN, BRST, CRCH, FNDC, NRPR, WHSC
WC_431A8K/A9K - 432A8K/A9K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 549652 5364864	Patent	No Data	Permanent	Coolwater	0.365	Unnamed tributary to the Black River: BRTR, BRBL, GOLD, SAUG	BLMN, BRST, CRCH, FNDC, NRPR, WHSC
WC_435A8K/A9K - 436A8K/A9K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 549656 5364405	Patent	No Data	Permanent	Coolwater	3.364	Unnamed tributary to the Black River: BRTR, BRBL, GOLD, SAUG	BLMN, BRST, CRCH, FNDC, NRPR, WHSC
WC_440A8K/A9K - 441A8K/A9K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 549766 5363988	Patent	No Data	Permanent	Coolwater	2.336	Unnamed tributary to the Black River: BRTR, BRBL, GOLD, SAUG	BLMN, BRST, CRCH, FNDC, NRPR, WHSC
WC_498A8K - 499A8K / 470A9K - 471A9K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 551393 5361329	Patent	No Data	Permanent	Coolwater	1.03	Unnamed tributary to the Black River: BRTR, BRBL, GOLD, SAUG	BLMN, BRST, CRCH, FNDC, NRPR, WHSC
WC_491A9K - 492A9K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 553185 5360125	Patent	No Data	Permanent	Coolwater	7.964	Unnamed tributary to the Black River: BRTR, BRBL, GOLD, SAUG	BLMN, BRST, CRCH, FNDC, NRPR, WHSC
WC_519A8K - 520A8K / 491A9K - 492A9K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 553253 5359954	Patent	No Data	Permanent	Coolwater	7.84	Unnamed tributary to the Black River: BRTR, BRBL, GOLD, SAUG	BLMN, BRST, CRCH, FNDC, NRPR, WHSC
WC_562A8K - 563A8K / 541A9K - 542A9K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 555266 5355864	Unpatented	No Data	Permanent	Coolwater	2.294	Unnamed tributary to the Black River: BRTR, BRBL, GOLD, SAUG	BLMN, BRST, CRCH, FNDC, NRPR, WHSC
WC_606A8K - 607A8K / 591A9K - 592A9K	None	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 555656 5350777	Unpatented	No Data	No Data	No Data	No Crossing Identified. Slightly North 0.846	Unnamed tributary to the Black River: BRTR, BRBL, GOLD, SAUG which connects with Colvin Lake.	No Data
WC_729A8K - 730A8K / 720A9K - 721A9K	Kirkland Lake	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 564835 5340105	Unpatented	No Data	Permanent	Coolwater	0.391	Unnammed tributary to Winnie Lake: NRPK, WHSC	No Data.
WC_744A8K - 745A8K / 735A9K - 736A9K	Kirkland Lake	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 565696 5338647	Unpatented	No Data	Permanent	Coolwater	0.013		BLSH, BRST, CMSH, CRCH, FNDC, MTSC, NRPK, SPSH, WHSC, YLPR
WC_43A8K-44A8K / 56A9K-57A9K	Iroquois Falls	Cochrane	Temporary Clear Span or Ice Bridge	17T 523502 5392293	Patent	No Data	Permanent	No Data	0.099	Driftwood River Trib: NRPK, WALL	No Data
WC_240A9K-241A9K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 535335 5377754	Patent	No Data	Permanent	Coolwater	0.24	Unnamed tributary to the Black River: BRTR, BRBL, GOLD, SAUG	BLSH, BRST, BRTR, CYPR, CMSH, CRCH, FTMN, FNDC, NRPR, NRRD, SPSH, WHSC
WC_297A8K-298A8K / 298A9K-299A9K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 541804 5375010	Patent	No Data	Permanent	Coolwater	1.744	Unnamed tributary to the Black River: BRTR, BRBL, GOLD, SAUG	BLMN, BRST, CRCH, FNDC, NRPR, WHSC
WC_346A8K-347A8K / 347A9K-348A9K	Black River-Matheson	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 545369 5371180	Patent	No Data	Permanent	Coolwater	0.12	Unnamed tributary to the Black River: BRTR, BRBL, GOLD, SAUG	BRST, CRCH, FTMN, FNDC, NRPR, NRRD
WC_643A8K-644A8K / 628A9K-629A9K	None	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 558291 5347801	Unpatented	No Data	Permanent	No Data	0.034	None	CMSH, GDSH, LOGP, NRPK, PUMP, SPSH, WHSC, YLPR
WC_666A8K-667A8K / 652A9K-653A9K	None	Kirkland Lake	Existing Bridge	17T 559985 5345893	Unpatented	Wolf Creek	Permanent	Coolwater	18.242	None: Trib to Wolf Lake - NRPK, WALL, WHSC, YLPR	CMSH, GDSH, LOGP, NRPK, PUMP, SPSH, WHSC, YLPR
WC_670A8K-671A8K / 656A9K-657A9K	None	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 560298 5345546	Unpatented	Wolf Creek	Permanent	Coolwater	14.606	None: Trib to Wolf Lake - NRPK, WALL, WHSC, YLPR	CMSH, GDSH, LOGP, NRPK, PUMP, SPSH, WHSC, YLPR
WC_678A8K-679A8K / 665A9K-666A9K	None	Kirkland Lake	Existing Bridge	17T 560890 5344874	Unpatented	Wolf Creek	Permanent	Coolwater	9.77	None: Trib to Wolf Lake - NRPK, WALL, WHSC, YLPR	CMSH, GDSH, LOGP, NRPK, PUMP, SPSH, WHSC, YLPR
WC_680A8K-681A8K / 667A9K-668A9K	None	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 561018 5344736	Unpatented	No Data	Permanent	Coolwater	2.761	None: Trib to Wolf Lake - NRPK, WALL, WHSC, YLPR	CMSH, GDSH, LOGP, NRPK, PUMP, SPSH, WHSC, YLPR
WC_688A8K-689A8K / 675A9K-676A9K	None	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 561594 5344086	Unpatented	No Data	Permanent	Coolwater	1.409	None: Trib to Wolf Lake - NRPK, WALL, WHSC, YLPR	CMSH, GDSH, LOGP, NRPK, PUMP, SPSH, WHSC, YLPR
WC_691A8K-692A8K / 678A9K-679A9K	None	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 561782 5343869	Unpatented	No Data	Permanent	Coolwater	1.265	None: Trib to Wolf Lake - NRPK, WALL, WHSC, YLPR	CMSH, GDSH, LOGP, NRPK, PUMP, SPSH, WHSC, YLPR
WC_689A8K-690A8K / 676A9K-677A9K	None	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 561677 5343967	Unpatented	No Data	Permanent	Coolwater	1.258	None: Trib to Wolf Lake - NRPK, WALL, WHSC, YLPR	CMSH, GDSH, LOGP, NRPK, PUMP, SPSH, WHSC, YLPR
WC_702A8K-703A8K / 689A9K-690A9K	None	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 562756 5342755	Unpatented	No Data	Permanent	Coolwater	1.098	None: Trib to Wolf Lake - NRPK, WALL, WHSC, YLPR	CMSH, GDSH, LOGP, NRPK, PUMP, SPSH, WHSC, YLPR
WC_713A8K-714A8K / 701A9K-702A9K	Kirkland Lake	Kirkland Lake	Existing Bridge	17T 563645 5341933	Unpatented	Wendtwright Creek	Permanent	Coolwater	5.736	Wewegimok Creek; Trib to Lake: NISC, NRPK, WALL, WHSC, YLPR	No Data
WC_773A8K-774A8K / 773A9K-774A9K	Kirkland Lake	Kirkland Lake	Existing Bridge	17T 568379 5334926	Patent	No Data	Permanent	Coolwater	0.322	None	BLSH, BRST, CMSH, CRCH, FNDC, FNDC, MTSC, NRPK, SPSH, WHSC, YLPR
WC_776A8K-777A8K / 777A9K-778A9K	Kirkland Lake	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 568676 5334560	Patent	No Data	No Data	No Data	NA	None	No Data
WC_782A8K-783A8K / 784A9K-785A9K	Kirkland Lake	Kirkland Lake	Existing Bridge	17T 569536 5334555	Patent	No Data	Permanent	Coolwater	9.773	NRPK, WHSC, YLPR	BLSH, BRST, CMSH, CRCH, FNDC, FNDC, MTSC, NRPK, SPSH, WHSC, YLPR
WC_794A8K-802A8K/A9K / 801A9K-802A8K/A9K	Kirkland Lake	Kirkland Lake	Existing Bridge	17T 571272 5334528	Patent	No Data	Permanent	Coolwater	3.886	O'Connell Lake Trib: BRTR, NRPK, RNTR, WHSC, YLPR	BLSH, BRST, CMSH, CRCH, FNDC, FNDC, MTSC, NRPK, SPSH, WHSC, YLPR
WC_679A8K-680A8K / 665A9K-666A9K	None	Kirkland Lake	Temporary Clear Span or Ice Bridge	17T 560927 5344813	Unpatented	Wolf Creek	Permanent	Coolwater	2.817	None: Trib to Wolf Lake - NRPK, WALL, WHSC, YLPR	CMSH, GDSH, LOGP, NRPK, PUMP, SPSH, WHSC, YLPR

Appendix H ESA Mitigation Plan

ESA MITIGATION PLAN – KEEP ON SITE

Forbes Bros Ltd.
130, 482 South Service Road E,
Oakville, ON
L6J 2X6

18 June 2021
Version 1.0

Re: Mitigation Plan for Endangered Species Act Registration – Section 23.18 (Threats to Health and Safety, Not Imminent) – Hydro One Networks Inc. A8K/A9K Transmission Line Refurbishment Project – Iroquois Falls to Kirkland Lake.

To whom it may concern,

This Endangered Species Act (ESA; S.O. 20117, C.6) Mitigation Plan (this Plan) has been prepared by Tulloch Environmental, a division of Tulloch Engineering Inc. (Tulloch), on behalf of Forbes Bros Ltd. (the Contractor) and Hydro One Networks Inc. (the Proponent), in partial fulfillment of regulatory requirements for project registration under the Ontario Regulations 242/08 (the Regulations) of the ESA. A copy of this Plan must be kept on the work site at all times. For the ESA registration to remain valid, the Proponent, and all parties undertaking actions on behalf of the Proponent, must comply with the avoidances and mitigations provided within this Plan. **The Proponent, and parties undertaking actions on behalf of the Proponent, must also comply with the *intentions* of this Plan, and must consult a qualified environmental professional to modify or improve upon these avoidances and mitigations in the event they are found to be ineffective.**

1.0 THE UNDERTAKING

This Plan has been prepared with the understanding that all information in Section 1.0 is complete and accurate. The Proponent and Contractor are instructed to notify Tulloch immediately if information provided in this Section is inaccurate or incomplete in any way.

1.1 Site Location

The Transmission Lines are circuits A8K and A9K (Ansonville Transmission Station to Kirkland Lake Transmission Station) between Iroquois Falls and Kirkland Lake, in Northeastern Ontario. Maps are provided in Attachment I which outline the boundaries and extent of known land use in the vicinity to the project. Coordinates (UTM NAD83) for the start and end of this project are

17U 572329 5334012 and 17U 523369 539881, respectively. Work will occur across a mix of provincial crown, municipal and private lands.

1.2 Proponent and Parties Involved

The following parties are involved in this undertaking:

- The property owner (Proponent) is: Guillermo Zambrano (Project Manager)
c/o Hydro One Networks Inc.
483 Bay Street
Toronto, ON, M5G 2P5
- The contractor completing the work is: Scott Shipper (Forbes Bros. Ltd. – Project Director)
c/o Forbes Bros Ltd.
130, 482 South Service Road E,
Oakville, ON L6J 2X6
- This Plan was prepared by: Kelly Major, M.Sc. EP (Senior Terrestrial Ecologist)
c/o Tulloch Engineering
1942 Regent Street, Unit L
Sudbury, ON, P3E 5V5

1.3 Description of the Undertaking

The Proponent seeks to refurbish transmission infrastructure on circuits A8K and A9K (Ansonville Transmission Station to Kirkland Lake Transmission Station). The two circuits run in parallel from Iroquois Falls to Kirkland Lake; a total of 171.7km of transmission line over an approximate distance of 90km. The full scope of these activities is in the process of finalization, but certain actions include water crossings, brush clearing, grading, rig matting, and crane pad installations; all in support of the line maintenance and refurbishment. See site maps in Attachment I for details.

- **Permits and Approvals (Jan-2021 to Jan-2022):** Permitting process was initiated at the beginning of January. All possible permits required for the completion of the work were reviewed. Agencies are being contacted to obtain necessary permits.
- **Brushing and spot gravel on Existing Roads / Trails Access (Oct-2021 to Feb-2022):** All work is proposed for areas already associated with the existing utility corridor and public roads and trails. Access road maintenance will likely include intermittent brushing and grading of *in-situ* materials, intermittent placement of gravel fill, and intermittent placement of rig matting to prevent rutting. These access roads will be cleared to a width of 7 to 10m. Six (6) Laydown Yards have been identified to support this undertaking. These yards are provided in Attachment II and are in areas already cleared and disturbed (i.e. aggregate pits, leveled gravel pads and manicured lawns). Approximately 20 to 50 crane pads (20x20m) will also need to be cleared and potentially leveled; all within the existing utility corridor. The existing utility corridor ranges from 30m to 60m wide.
- **Construction on Existing Line (Jan-2022 to Apr-2023):** Currently, the line construction work is known to include: footing refurbishment, structure reinforcement, stringing of the

line which will include power outages, and assembly and erection of new structures to replace existing structures. Access roads will be maintained during this duration of time.

1.4 Qualification for Registry

Section 23.18 (Threats to Health and Safety, Not Imminent) of the Regulations establishes conditions under which an undertaking can receive exemptions from Clause 9(1)a and subsection 10(1) of the ESA. Specifically, these exemptions can allow a Proponent, and parties working in their behalf, to undertake actions that could kill, harm, harass, capture or take a member of a species that is listed on the Species at Risk in Ontario List as an endangered or threatened species, as well as damage or destroy the habitat of such a species **provided the regulatory conditions are met**. Adherence to this Plan is one regulatory condition.

This project qualifies for registry under Section 23.18 of the Regulations as it is deemed necessary to avoid or reduce a threat to human health or safety in a situation where the threat is not imminent but is likely to have serious consequences in the short or long term if the activity is not carried out.

Specifically, Paragraph 3 of Subsection 23.18(1) states that registration applies to maintenance, repair, removal or replacement of existing infrastructure. Subsection 23.18(2) stipulates that qualified infrastructure includes: communications systems, electric power systems, oil or gas pipelines, alternative energy systems or renewable energy systems, a road or railway systems, water works, wastewater works, stormwater works and associated facilities and drainage works designed to control surface water runoff. Paragraph 3 of Subsection 23.18(1) restricts eligibility for registration to undertakings that will not require a temporary or permanent change in the location of the infrastructure or extension to the area the infrastructure occupies. The undertaking must also not alter the way in which the structure or infrastructure is used or operated.

These above legal citations are abbreviated and summarized from Section 23.18 of the Regulations. See Attachment II for the full text.

The refurbishment of the transmission infrastructure is necessary to maintain power to Northern Ontario communities. The maintenance and replacement of the temporary structures will ensure that power is accessible to those who rely on it between the Iroquois Falls and Kirkland Lake and the associated power grid. If the activity is not carried out, the infrastructure may further deteriorate, resulting in possible future power outages. Furthermore, the way in which the infrastructure is being used and operated will not change, and no temporary or permanent change in the location of the infrastructure is necessary.

1.5 Conditions of Registration

The following is a summary of conditions that apply to the parties undertaking this registration:

- Provide a Notice of Activity to the Ministry of the Environment, Conservations and Parks (MECP) via One-Key web portal.
- Have a Mitigation Plan prepared that conforms to regulatory standards.
- Ensure the undertaking complies with the Mitigation Plan.
- Take all reasonable steps to minimize or avoid killing, harming or harassing threatened / endangered species and avoid damaging or destroying their habitat.

- Report observations of threatened / endangered species to the MECP within three months of the observation.
- Retain a copy of this Plan and the MECP confirmation of registration at the work site at all times.
- Update this Plan and the Notice of Activity within 10 days of any changes to the information provided therein.
- Retain a copy of this Plan, the Notice of Activity, the MECP confirmation of registration for 5 years after the completion of the undertaking.
- Be able to provide the MECP copies of this Plan, the Notice of Activity, the MECP confirmation of registration and an engineer's report of the undertaking within 14 days of request.

The above conditions are abbreviated. See Attachment III for the full text.

2.0 SPECIES INCLUDED IN THIS PLAN

Tulloch has gathered information from desktop assessments. The presence or absence of species at risk have not been confirmed through field investigations. Final construction, access, and site plans are currently being finalized but will not extend beyond the limits and dates outlined in this document. Desktop assessments included: identification of water crossings using Ontario Hydro Network (OHN) data, collection of known critical fish habitat and species at risk (SAR) from Fisheries and Oceans Canada (DFO) SAR Mapping tool, collection of thermal regime information from Aquatic Resource Area (ARA) data and a review Ontario GeoHub natural heritage features data within 1000m of the existing corridor / line access routes. Natural Heritage Information Centre (NHIC) data was also queried for SAR records within 1000m of the existing corridor. Tulloch is currently consulting with the Ministry of Natural Resources (MNRF), DFO and the MECP regarding known sensitivities.

The following threatened or endangered species have been identified as potentially impacted by this undertaking:

- Eastern Whip-poor-will (*Antrostomus vociferus*) – Threatened
- Little Brown Bat (*Myotis lucifugus*) – Endangered
- Northern Long-eared Bat (*Myotis septentrionalis*) – Endangered
- Lake Sturgeon (*Acipenser fulvescens*) – Threatened

2.1 Eastern Whip-poor-will

Species:

Eastern Whip-poor-will
(*Antrostomus vociferus*)
Threatened

Presence:

Aerial imagery indicates the potential for suitable nesting habitat for this species within / adjacent the utility corridor and eBird.org includes records of the species within the area. The locations of defended territories are not known as targeted acoustic surveys have not been performed for the species. The potential for presence by this species has been deemed moderately high.

Description of Habitat Features:

Edge habitats created by the existing road and utility corridors are upland areas that could support habitat that is suitable for nesting by Eastern Whip-poor-will. Utility corridors typically classify as Ecosite code U999 but ecologically function similar to upland meadows, shrub-lands and sparse, low treed forests. The existing utility corridor ranges from 30m to 60m wide. Access roads leading to the utility corridor vary in right-of-way width. Whip-poor-will nesting, if present, is most likely to occur in forests immediately abutting these corridors in dry areas corresponding with hill crests and areas of shallow soils / exposed bedrock. Whip-poor-will is a heavily camouflaged species of bird that constructs inconspicuous nests on the forest floor. If present, Whip-poor-will nesting will be occurring from May 17 to July 26 according to data provided by Bird Studies Canada (Nesting Zones C3, C4 and C5). The road and utility corridors themselves provide suitable habitat for Whip-poor-will foraging throughout the spring, summer and early fall. With respect to the General Habitat Description for Whip-poor-will, it is assumed that the existing road and utility corridors could include Category 3 Habitat for Whip-poor-will, and dry forested areas in the vicinity may include Categories 1 and 2 habitats.

Known or Potential Impacts (in the absence of mitigation):

- The brushing of existing road and utility corridors, the operation of equipment in these spaces, and the increased human presence, if performed from May 17 to July 26, could result in disturbance and stress to the species and may negatively impact its reproductive success in the immediate area. This impact will be temporary; the duration of the project.
- Whip-poor-will is not likely to nest within existing road and utility corridors, but if nesting does occur in any of these spaces, then brushing of vegetation, the operation of equipment in these spaces, and the increased human presence, if performed from May 17 to July 26, could all present direct risks of mortality to the species' eggs and young.
- Any work performed at night, if required and if performed while Whip-poor-will are active on the landscape, could interfere with the species' ability to forage along the utility and road corridors. This impact would be temporary; the duration of the project.
- The brushing of existing road and utility corridors will continue to maintain edge habitat that is suitable for Whip-poor-will foraging within the corridor and nesting in vicinity. No impacts are anticipated to the long term ecological functions of this area.

2.2 Endangered Bats

Species:

Little Brown Bat
(*Myotis lucifugus*)
Northern Long-eared Bat
(*Myotis septentrionalis*)
Endangered

Presence:

Not known to occur within / around the area of the undertaking but its potential for presence has been deemed high.

Description of Habitat Features:

These two species of endangered *Myotis* bat are ecologically similar and are considered together in this Plan. Utility corridors typically classify as Ecosite code U999 but ecologically function similar to upland meadows, shrub-lands and sparse, low treed forest. The existing utility corridor ranges from 30m to 60m wide. Access roads leading to the utility corridor vary in right-of-way width. The existing road and utility corridors support habitats that are suitable for foraging by endangered *Myotis* bats. The potential for foraging increases with proximity to water/wetlands. These areas are not forested, and tree cover is restricted to secondary sapling regeneration that would not support other *Myotis* bat life functions. Forested areas abutting the corridor would be suitable for day-roosting and foraging. If adjacent areas contain large (>25cm diameter) cavity trees, then maternity roosting could also be possible. *Myotis* bats should be considered to be active (e.g. foraging and day-roosting) on the landscape from March through October, with maternity roosting occurring from May through July.

Known or Potential Impacts (in the absence of mitigation):

- The brushing of existing road and utility corridors, the operation of equipment in these spaces, and the increased human presence, if performed from mid-April to late October, could result in disturbance and stress to the species and may negatively impact its reproductive success in the immediate area. This impact will be temporary; the duration of the project.
- Vegetation within the existing road and utility corridors are not likely to be large enough to support day-roosting by endangered *Myotis* bat species, but if day-roosting occur in any of these spaces, then brushing of vegetation, the operation of equipment in these spaces, and the increased human presence, if performed from mid-April to late October, could all present direct risks of mortality to these species.
- Any work performed at night, if required and if performed from mid-April to late October, could interfere with endangered *Myotis* bat species' ability to forage along the utility and road corridors. This impact would be temporary; the duration of the project.
- The brushing of existing road and utility corridors will continue to maintain edge habitat that is suitable for foraging by endangered *Myotis* bat species. No impacts are anticipated to the long term ecological functions of this area.

2.3 Lake Sturgeon

Species:

Lake Sturgeon
(*Acipenser fulvescens*)
Threatened

Presence:

The DFO SAR Mapping Tool has indicated that Lake Sturgeon may be present within 1000m of the project boundaries, likely because of its' proximity to Black River, which is connected to the Abitibi River

Description of Habitat Features:

ARA data suggests that all crossings which intersect with the project are a mix of cool-water, cold-water, and unknown thermal regimes. These crossings are tributaries that outlet principally to the Driftwood River, Black River, and ultimately to the Abitibi River. DFO data suggest that Lake Sturgeon are present within the Abitibi River and this species could be present in some tributaries to that river system. Aquatic habitat assessments have not been carried out. Whether the habitat at the crossing sites is suitable for Lake Sturgeon is unknown. Lake Sturgeon spawn in shallow fast-flowing water with gravel and boulder substrate. The habitat at the crossing sites is unknown and may be suitable for migration and/or reproduction for Lake Sturgeon.

Known or Potential Impacts (in the absence of mitigation):

- Any in-water work performed, if required between May 1 and July 15 could present direct risks to Lake Sturgeon during spawning migrations and other critical life stages. The impact would be temporary; the duration of the project.
- The installation of crossings to provide access to the infrastructure may cause impacts to Lake Sturgeon passage, either by direct blockage or alteration of flows. The impact would persist until the crossing is removed.
- The installation of crossings to provide access to the infrastructure may alter habitat that Lake Sturgeon require for critical life functions.
- Deleterious substances (e.g. construction waste, petroleum products, sediments) entering the waterbody could negatively impact water quality resulting in harm or death to Lake Sturgeon, their offspring or their eggs. The impact would be temporary; the duration of the project.
- Construction below the high-water mark or in adjacent riparian areas may result in an increase of erosion and sediment transport which could negatively impact water quality resulting in harm or death to Lake Sturgeon, their offspring or their eggs. The impact would be temporary; the duration of the project.

3.0 MITIGATION PLAN

This Plan has been prepared by Kelly Major, M.Sc. EP; Terrestrial Ecologist at Tulloch. Mr. Major is a qualified environmental professional with expertise in relation to every species in this Plan. This Plan has been developed using the best available information to provide steps that may help minimize or avoid adverse effects on the species herein. Qualifications of the professionals that prepared this Plan are provided in Attachment IV.

3.1 Intensions of this Plan

Paragraph 5 of Subsection 23.18 of the Regulations stipulates that, while carrying out the activity, reasonable steps must be taken to minimize the adverse effects of the undertaking on members of threatened or endangered species. As such, the overall intensions of this Plan are:

- To avoid, or otherwise minimise, the killing, harming or harassing of members of threatened or endangered species
- To avoid, or otherwise minimise, disrupting, damaging or destroying the habitat of members of threatened or endangered species, especially during a time of year when these species are likely to be carrying out sensitive life processes related to hibernation, reproduction or rearing of young.
- To minimise the potential of encountering members of threatened or endangered species over the course of the undertaking, such as through the application of exclusion measures or timing restrictions.
- To ensure vigilance on the work site, such that if a member of a threatened or endangered species should gain access to the work site, it will be observed, recognised and reported.
- To ensure that, if a member of a threatened or endangered species is encountered within the work site, work is stopped or modified to allow the species a reasonable amount of time to vacate the site on its own accord.
- To ensure that, if a member of a threatened or endangered species must be relocated or removed from a work site, that this is performed in an appropriate manner and by a trained person.

Tulloch recommends that records be kept of actions taken to accomplish the avoidances and mitigations contained within this Plan. The Proponent and Contractor, and parties acting on their behalf, should be prepared to demonstrate evidentially that this Plan was properly implemented upon request from regulators.

3.2 Eastern Whip-poor-will

The following avoidance strategies have been prepared to minimize impacts and threats to Eastern Whip-poor-will and its habitat.

1. **Work within existing corridors.** All work must occur within existing road and utility corridors. Work outside these existing corridors invalidates this Plan and the ESA registration.
2. **Timing restriction for clearing vegetation.** Vegetation should not be cleared from May 17 to July 26.
3. **Alternative to the timing restriction for clearing vegetation.** If vegetation must be cleared from May 17 to July 26, areas to be cleared must be searched by a qualified professional for Whip-poor-will or its nests. See proper response to Whip-poor-will, Section 3.2 items 5 to 8, below.
4. **Worker training.** Workers on site must be notified that Whip-poor-will could occur within or adjacent the work site and these workers must be trained in the identification of this species, its protections under the ESA, where it might be encountered, and how to appropriately respond to encounters. See proper response to Whip-poor-will, Section 3.2 items 5 to 8, below.
5. **Proper response to species encounters - adults.** If an adult Whip-poor-will is observed within the work site from May 17 to July 26, then all work within 30m, and any other work that could kill, harm or harass the species, must stop and should only be resumed after July 26. If work cannot be stopped until July 26, then the species must be provided 24 hours to vacate on its own accord, after which a qualified environmental professional must search the area of the observation for Whip-poor-will nesting. See proper response to nests, Section 3.2 item 6, below. See species reporting in Section 3.2, Item 12, below.
6. **Proper response to species encounters – nests, eggs and young.** If a nest, eggs or young are encountered, all work within 30m, and any other work that could kill, harm or harass the species, must stop and should only be resumed after July 26, or after the species has been found to have vacated on its own accord. Relocating an active nest before July 26 should be avoided. If relocation is deemed necessary, the MECP must be contacted in advance. Relocation of nests, eggs or young may only be undertaken by a qualified environmental professional. See species reporting in Section 3.2 Item 12, below.
7. **Proper response to species encounters – injured.** If a Whip-poor-will is found on the work site and is injured, ensure the individual is protected from further harm and obtain veterinary advice / care for the individual or take the individual to a Wildlife Custodian experienced in handling the species, if applicable. Contact the MECP within one business day. See species reporting in Section 3.2, Item 12, below. Review avoidances and mitigations being applied at the work site to ensure they area functioning as intended; modify the avoidances, mitigations or work practices, as necessary, to prevent further instances of species injury. Consult a qualified environmental professional for guidance, as necessary.
8. **Proper response to species encounters – deceased.** If a Whip-poor-will is found on the work site and is dead, document the location and surrounding area (photos, hand drawn maps, notes of recent activities in the area), collect the individual and store in a safe and cool place. Contact the MECP within one business day. Comply with MECP directions regarding the handing of the dead individual. See species reporting in Section 3.2, Item 12, below. Review avoidances and mitigations being applied at the work site to ensure they area functioning as intended; modify the avoidances, mitigations or work practices,

as necessary, to prevent further instances of species mortality. Consult a qualified environmental professional for guidance, as necessary.

9. **Avoid night work.** Work should be avoided after sunset and before sunrise from May 17 to July 26. Beyond this period, work at night should also be avoided, to the extent possible, for the months of May through September.
10. **Minimise the clearing of vegetation.** The clearing of vegetation should be kept to a minimum and must only be undertaken to extent that is deemed necessary to accomplish the undertaking.
11. **Clearly define work site boundaries.** The boundaries of the work site (the existing road and utility corridors) must be clearly identified and understood by all persons undertaking the work. Any ambiguous work site boundaries should be clearly marked, and the marks called to the attention of all workers on site.
12. **Reporting encounters and observations.** Any Whip-poor-will observed or encountered on the work site must be reported to the MECP via the Ontario Species at Risk Observation Reporting Form (provided in Attachment V) within three months of the observation.

With the full application of this Plan, it is anticipated that the potential for Whip-poor-will harm and mortality will be low despite the large scale of this undertaking. Habitat disruption will be minimized, localized and temporary. No loss of Whip-poor-will habitat or habitat ecological function is anticipated as the result of this undertaking.

3.3 Endangered *Myotis* Bats

The following avoidance strategies have been prepared to minimize impacts and threats to Little Brown Bat and Northern Long-eared Bat (collectively referred to as *Myotis* Bats) and their habitat.

1. **Work within existing corridors.** All work must occur within existing road and utility corridors. Work outside these existing corridors invalidates this Plan and the ESA registration.
2. **Worker training.** Workers on site must be notified that endangered *Myotis* Bats could occur within or adjacent the work site and these workers must be trained in *Myotis* Bat protections under the ESA, where they might be encountered, and how to appropriately respond to encounters. See proper response to *Myotis* Bats, Section 3.3 items 3 to 6, below. Bats are difficult to identify to species without professional training. Workers should be instructed to consider any bats encountered on the work site to be potentially endangered unless identified to the contrary by a qualified environmental professional.
3. **Proper response to species encounters - adults.** If an adult *Myotis* Bat is observed within the work site, then all work within 30m, and any other work that could kill, harm or harass the species, must stop until the following day to provide the individual an appropriate amount of time to vacate on its own accord. If the species has not vacated the work site by the following day, it may be carefully relocated to the nearest safe and suitable habitat by, and at the discretion of, a qualified environmental professional. See species reporting in Section 3.3, Item 11, below.
4. **Proper response to species encounters – young.** If *Myotis* Bat young are encountered, all work within 30m, and any other work that could kill, harm or harass the species, must stop and should only be resumed after July 31. Relocating an active maternity roost must be avoided. See species reporting in Section 3.2 Item 11, below.
5. **Proper response to species encounters – injured.** If a *Myotis* Bat is found on the work site and is injured, ensure the individual is protected from further harm and obtain veterinary advice / care for the individual or take the individual to a Wildlife Custodian experience in handling the species, if applicable. Contact the MECP within one business day. See species reporting in Section 3.3, Item 11, below. Review avoidances and mitigations being applied at the work site to ensure they area functioning as intended; modify the avoidances, mitigations or work practices, as necessary, to prevent further instances of species injury. Consult a qualified environmental professional for guidance, as necessary.
6. **Proper response to species encounters – deceased.** If a *Myotis* Bat is found on the work site and is dead, collect the individual and store in a safe and cool place. Contact the MECP within one business day. Comply with MECP directions regarding the handling of the dead individual. See species reporting in Section 3.3, Item 11, below. Review avoidances and mitigations being applied at the work site to ensure they area functioning as intended; modify the avoidances, mitigations or work practices, as necessary, to prevent further instances of species mortality. Consult a qualified environmental professional for guidance, as necessary.
7. **Avoid night work.** Work should be avoided after sunset and before sunrise, to the extent possible, on any given day from May through September.
8. **Minimise the clearing of vegetation.** The clearing of vegetation should be kept to a minimum and must only be undertaken to extent that is deemed necessary to accomplish the undertaking.

9. **Retain large cavity trees.** This undertaking is planned for areas of existing road and utility corridor; large (>25cm diameter) living and dead-standing cavity trees (i.e. trees with holes, cracks and sloughing bark) are not likely to occur in these spaces. In the event that such a tree is encountered, it should be retained and left unaltered from May through July. If such a tree must be removed or altered from May through July, it should be inspected by a qualified environmental professional for the presence of bat roosting. The tree must be retained if maternity roosting is found to be occurring.
10. **Clearly define work site boundaries.** The boundaries of the work site (the existing road and utility corridors) must be clearly identified and understood by all persons undertaking the work. Any ambiguous work site boundaries should be clearly marked, and the marks called to the attention of all workers on site.
11. **Reporting encounters and observations.** Any *Myotis* Bats observed or encountered on the work site must be reported to the MECP via the Ontario Species at Risk Observation Reporting Form (provided in Attachment V) within three months of the observation.

With the full application of this Plan, it is anticipated that the potential for *Myotis* Bat harm and mortality will be low despite the large scale of this undertaking. Habitat disruption will be minimized, localized and temporary. No loss of *Myotis* Bat habitat or habitat ecological function is anticipated as the result of this undertaking.

3.4 Lake Sturgeon

The following avoidance strategies have been prepared to minimize impacts and threats to Lake Sturgeon and its habitat.

1. **Use existing water crossings where possible.** New water crossings must only be completed when necessary to gain access to the infrastructure. Construction of crossings which could have been avoided invalidates this Plan and the ESA registration.
2. **Avoidance of in-water work.** If possible, all crossings should be clear-span crossings which do not require work or access below the high-water mark. If clear-span crossings are not feasible, snow bridges may be permitted below the high-water mark, so long as DFO approval is sought.
3. **In-water timing windows.** If work below the high-water mark is necessary, it must occur outside of the sensitive timing window for Lake Sturgeon in the Northeast Region identified by the MNR. Work is **not** permitted below the high-water mark between May 1 and July 15 of any year.
4. **DFO Permitting.** If work below the high-water mark is necessary, a Request for Review must be sent to the DFO. Assistance by an environmental professional should be adopted for DFO permitting support. If harmful alteration, destruction or disruption to Lake Sturgeon or Lake Sturgeon habitat cannot be avoided a DFO Authorization may be required.
5. **Maintain fish passage.** All crossings must maintain fish passage, and not create permanent barriers by constricting the channel or changing the flow resulting in the inability for Lake Sturgeon to pass.
6. **Protect critical habitat.** Avoid crossing near critical habitat used by Lake Sturgeon such as relatively fast-flowing water with gravel and / or boulder substrate.
7. **Isolate in-water work areas.** If work below the high-water mark is necessary, the in-water work area must be isolated from the rest of the watercourse and a fish salvage must be conducted by an environmental professional up to 5 days before construction activities begin. If isolating the entire width of the channel is required to construct a crossing, it must be bypassed to downstream of the work area by pumping or piping. Pumps should be fitted with screens as per the DFO *End-of-pipe Protection Screens for Small Water Intakes in Freshwater*. If a Lake Sturgeon is identified during the fish salvage, the MECP must be contacted, and work should not continue until guidance is sought by the MECP.
8. **Sediment and erosion control.** A detailed erosion and sediment control plan should be completed and adopted prior to working within 30m of a watercourse. Sediment and erosion control measures should be implemented prior to development and maintained until the work site is stabilized to prevent entry of sediment into any waterbody.
9. **Deleterious substances control.** When working within 30m of a watercourse, all materials should be clean, and all equipment should arrive on site clean and be mechanically sound to avoid leakage of oil, gasoline, hydraulic fluids and grease. All filling and storage of equipment fluids should be >30m from any watercourse or waterbody in an area that would not drain directly to the watercourse should a spill occur. Any material stockpiles should be stored >30m from a watercourse or waterbody, and suitable erosion and sediment controls should be adopted to ensure no entry of sediment-laden runoff enters a watercourse or waterbody.

With the full application of this Plan, it is anticipated that the potential for Lake Sturgeon harm and mortality will be low despite the large scale of this undertaking. Crossings will be avoided if possible, and if the crossing cannot be avoided, all efforts will be made to construct free-span

crossings which will not require work below the high-water mark. No loss of Lake Sturgeon habitat or habitat ecological function is anticipated as the result of this undertaking.

4.0 REGISTRATION

The following information relates to the registration process, record keeping and addressed requirements set out in Section 23.3 of the Regulations.

4.1 Notice of Activity (One-Key)

Registration is performed via a Notice of Activity on Ontario's One-Key web portal (<https://www.one-key.gov.on.ca/iaalogin/IAALogin.jsp>). The Contractor may complete the Notice of Activity or may appoint an Authorized Representative to complete the Notice of Activity on their behalf. Tulloch can act as an Authorized Representative, upon request. All information requested in the Notice must be provided in a complete and accurate manner.

4.2 Changes of Information

Any changes of information provided in the Notice of Activity or this Plan must be updated within 10 days of the change.

4.3 Retention of Records

Confirmation of ESA registration (an automated email) and this Plan must be kept at the work site throughout the duration of the undertaking. These records must also be retained by the Proponent for five years after the completion of the undertaking. If requested, the Proponent and Contractor must be able to provide these documents to the MECP within 14 days.

5.0 RESPONSIBILITIES

The following section outlines the responsibilities of the parties identified in this plan.

5.1 The Proponent

The Proponent is responsible for:

- Understanding the requirements of this Plan and restrictions associated with Section 23.18 (Threats to Health and Safety, Not Imminent) of the Regulations under the ESA; provided in Attachment III.
- Communicating the need to apply this Plan to the Contractor and any other parties undertaking actions on the Proponent's behalf.
- Verify that information included in this Plan and the Notice of Activity, as it relates to the Proponent, is accurate and to notify the Contractor if any of the information is found to be inaccurate or has changed.
- If the Proponent has reason to believe that avoidances and mitigations provided in this Plan will not be effective, or are not being effective, to communicate this to the Contractor so that appropriate corrective actions can be taken, if necessary.
- Keeping appropriate records as per Section 4 of this Plan.

5.2 The Contractor

The Contractor is responsible for:

- Ensuring that Tulloch has accurately represented the parties, scope of work, location(s), methods and timing of the undertaking as presented in Section 1 and Attachment I of this Plan.
- Complete the Notice of Activity (ESA registration process) via Ontario's ONE-Key or retain and appoint an Authorized Representative to undertake the registration on their behalf.
- Keeping a copy of this Plan and the MECP confirmation of the Notice of Activity on the work site at all times.
- Understanding the avoidance and mitigations measures provided within this Plan as well as identifying any knowledge gaps the Contractor may have, or clarifications the Contractor may require, for the undertaking of work, or for the providing of direction / instruction to parties that will be undertaking the work, as they relate to implementing this Plan and satisfying the legislation it addresses. The Contractor is responsible for seeking additional information from a qualified environmental professional, as necessary, to clarify or alleviate these gaps in knowledge.
- Applying all avoidances and mitigations provided in this Plan (Section 3.2 to 3.4) and, at all times, acting in a manner that conforms to the *intentions* of this plan (Section 3.1).
- Identifying, and immediately taking appropriate corrective action, if any of the avoidances and mitigations provided herein appear to be inappropriate, inadequate or ineffective. The Contractor is responsible for seeking guidance from a qualified environmental professional, as necessary, to identify appropriate corrective actions.
- Remaining vigilant for members of threatened or endangered species and responding appropriately to any of these species observed on or around the work site.

- Ensuring that all persons permitted to access the work site are aware of this Plan, understands the avoidance and mitigation requirements, and apply this Plan while at the site.
- Keeping records of actions taken to accomplish the avoidances and mitigations contained within this Plan and be prepared to demonstrate evidentially that this Plan was properly implemented upon request.
- Update this Plan and/or the Notice of Activity should the scope or nature of the work change or should any of the information therein become outdated or inaccurate. If the Contractor has appointed an Authorized Representative, the onus is on the Contractor to identify the need to update these documents and to retain and engage the Authorized Representative to make the updates on their behalf as necessary. The Contractor is responsible for verifying and ensuring the accuracy of any changes / updates made by their Authorized Representative.
- Properly report any observations of members of threatened or endangered species at the work site to the MECP. This includes any injured or deceased members of threatened or endangered species (see Attachment V).
- Keeping appropriate records as per Section 4 of this Plan.

5.3 Tulloch

Tulloch is responsible for:

- Providing a qualified environmental professional to prepare this Plan.
- Preparing a Mitigation Plan that is appropriate for Section 23.18 of the Regulations.
- Providing further information or clarification of the requirements of this Plan if prompted by the Contractor.

If requested by the Proponent, Tulloch may also assist with:

- The submission of the Notice of Activity as an Authorized Representative.
- Changes of information within the Notice of Activity or this Plan.
- The modification or improvement of inappropriate, inadequate or ineffective avoidances and mitigations provided herein based on characteristics of the site or actions undertaken.
- Training Proponent or Contractor staff in the identification of threatened or endangered species and methods in the safely handle / relocation of these species from the site.

6.0 LIMITATIONS AND CLOSING

This Mitigation Plan has been prepared to comply with Section 23.18 of Ontario Regulation 242/08 of the Endangered Species Act and is provided in partial fulfillment of the pre-requisites for registering the above undertaking under this Act. Registration will exempt this undertaking from certain restrictions within the Act provided that all regulatory conditions are met.

This Plan does not absolve the Proponent and Contractor, or any party acting on behalf of the Proponent and Contractor, of any responsibility for reading and understanding the legal obligations associated with this undertaking.

This Plan was prepared with the understanding that all avoidances and mitigations contained herein will be applied as intended throughout the undertaking and that all actions undertaken by the Proponent and Contractor, or parties acting on their behalf, will conform with the intentions of this Plan, the ESA, and all other relevant legislations and regulatory policies. The Proponent and Contractor have been provided the opportunity to review and comment on this plan prior to its finalization.

Tulloch was not retained to oversee the application of this Plan and therefore does not accept any responsibility or liability for the actions of the Proponent, Contractor, or any party acting on their behalf, as they relate to this undertaking.

This Plan was prepared with the understanding that all information provided in Section 1 is complete and accurate, and it is the responsibility of the Contractor to identify to Tulloch if project information provided in Section 1 is inaccurate or incomplete in any way.

Natural systems and animal behaviour can be complex, cryptic and subject to change over time. Complete understanding and perfect prediction of these systems and wildlife is therefore not possible. Tulloch has used its best professional judgement in the acquisition and interpretation of available relevant information pertaining to this site and to this undertaking. Tulloch has produced these avoidances and mitigations based on professional interpretations of typical and commonly accepted species ecology as well as Tulloch's experience with other similar projects. It remains the responsibility of the Proponent and Contractor, and any party acting on their behalf, to verify that these avoidances and mitigations are effective under the specific conditions of this site and undertaking, and to take action to improve upon these avoidances and mitigations if they are found to be inappropriate, inadequate or ineffective. It also remains the responsibility of the Proponent and Contractor, and any party acting on their behalf, to undertake all actions in a manner that conforms to the intention of this Plan. See Section 5 of this document for details of responsibilities and Section 3.1 for Plan intentions. In no event will Tulloch be liable for indirect or consequential damages including, without limitation, loss of use or production, loss of profits or business interruption.

We the undersigned are pleased to provide this Mitigation Plan and we would be happy to clarify any of the statement or concepts contained herein upon request.

Sincerely,

Tulloch Environmental, a division of Tulloch Engineering Inc.



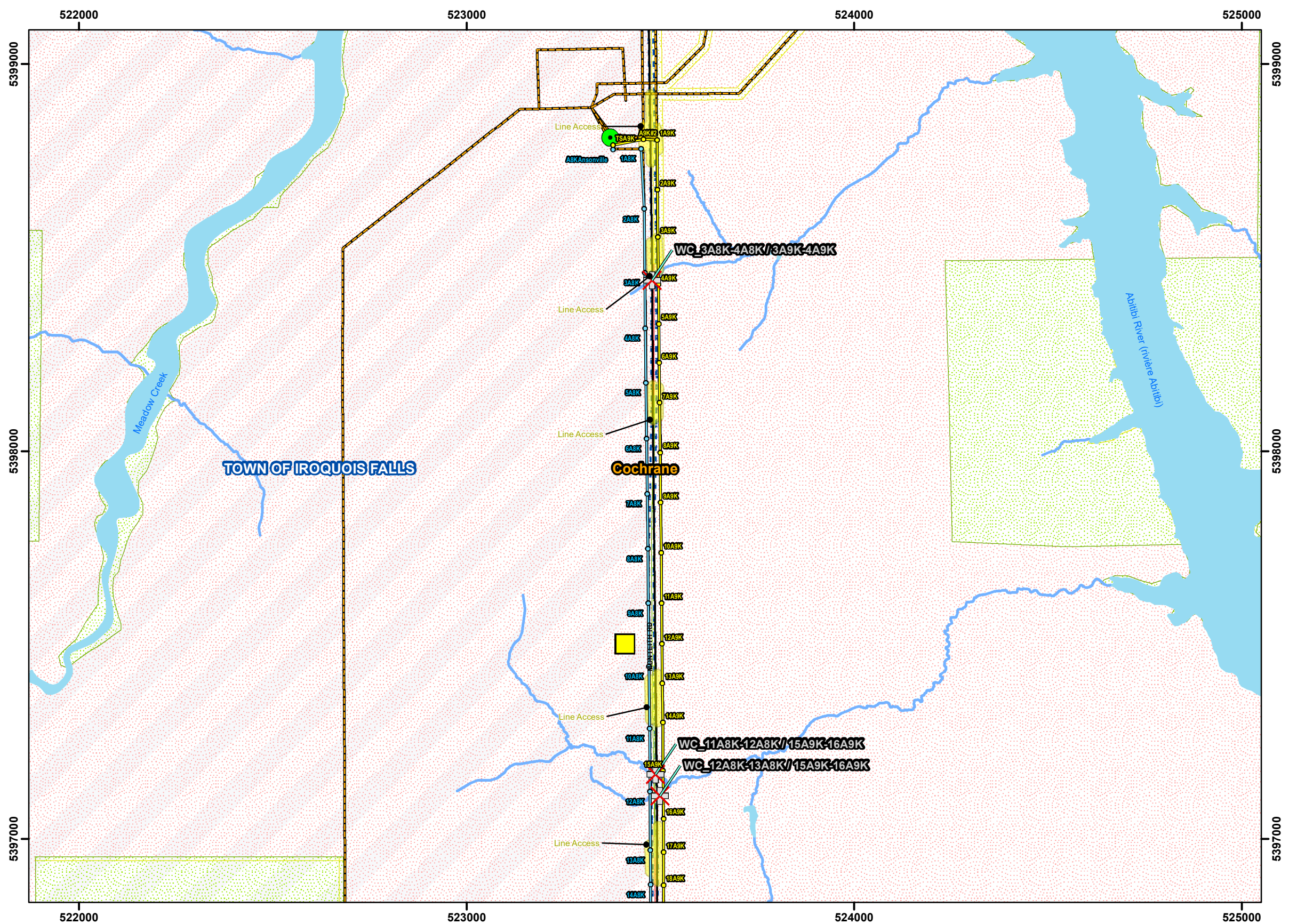
Kelly Major, M.Sc. EP
Terrestrial Ecologist

List of Attachments:

- Attachment I – Plans and Maps of the Undertaking
- Attachment II – Laydown Yard Locations
- Attachment III – Section 23.18 of O. Reg. 242/08
- Attachment IV – Qualifications of Plan Authors
- Attachment V – Species at Risk Reporting Form

Attachment I

Plans and Maps of the Undertaking



Coordinate System: NAD 1983 UTM Zone 17N

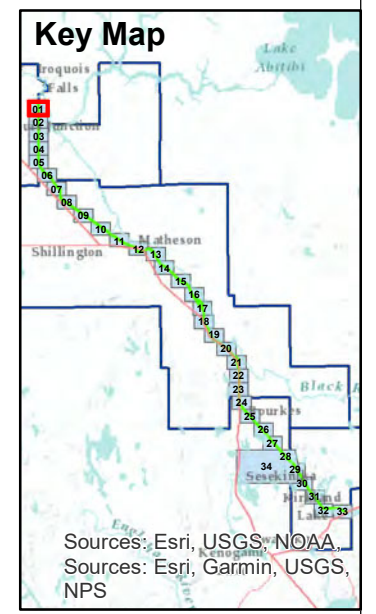
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A8K & A9K TRANSMISSION LINE REFURBISHMENT ANSONVILLE TS TO KIRKLAND LAKE TS

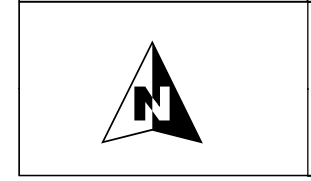
GENERAL MAP Second Draft

Legend

Crossing Required	Municipality
Crossing Existing Bridge	First Nation Reserve
No Crossing Required	MNR District
Existing Roads	
Highway	Local
Recreational	Other (Paved)
Other (Gravel)	Other (Unsurfaced)
HONI Lines	
A8K	
A8K/A9K	
A9K	
Forbes Notes	
Line Access	Watercourse (May Cross)
Line Access Bypass	Watercourse (Do Not Cross)
Rail Crossings	Pipeline Crossing
Transmission Line Crossing	Highway Crossing (Significant)
Required Work (Matting)	Welland
Possible Yard Location	Communication Line
Utility Lines	
Hydro Line	Natural Gas Pipeline
Unknown Transmission Line	Water Pipeline
ORWN Rail Track	
Waterbody & Thermal Regime	
Cool (with ARA Data)	Cold (with ARA Data)
Unknown (with ARA Data)	Unknown (no ARA Data)
Crown Land Unpatented	Crown Land Non-freehold Disposition
Patent Land	

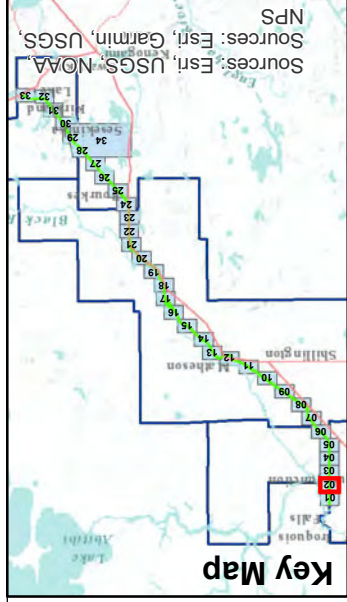


Map Number: 01
 PROJECT: 211020
 DATE: 28/01/2021
 SCALE: 1:10,400



**A8K & A9K TRANSMISSION
LINE REFURBISHMENT
ANSONVILLE TS TO KIRKLAND LAKE TS**

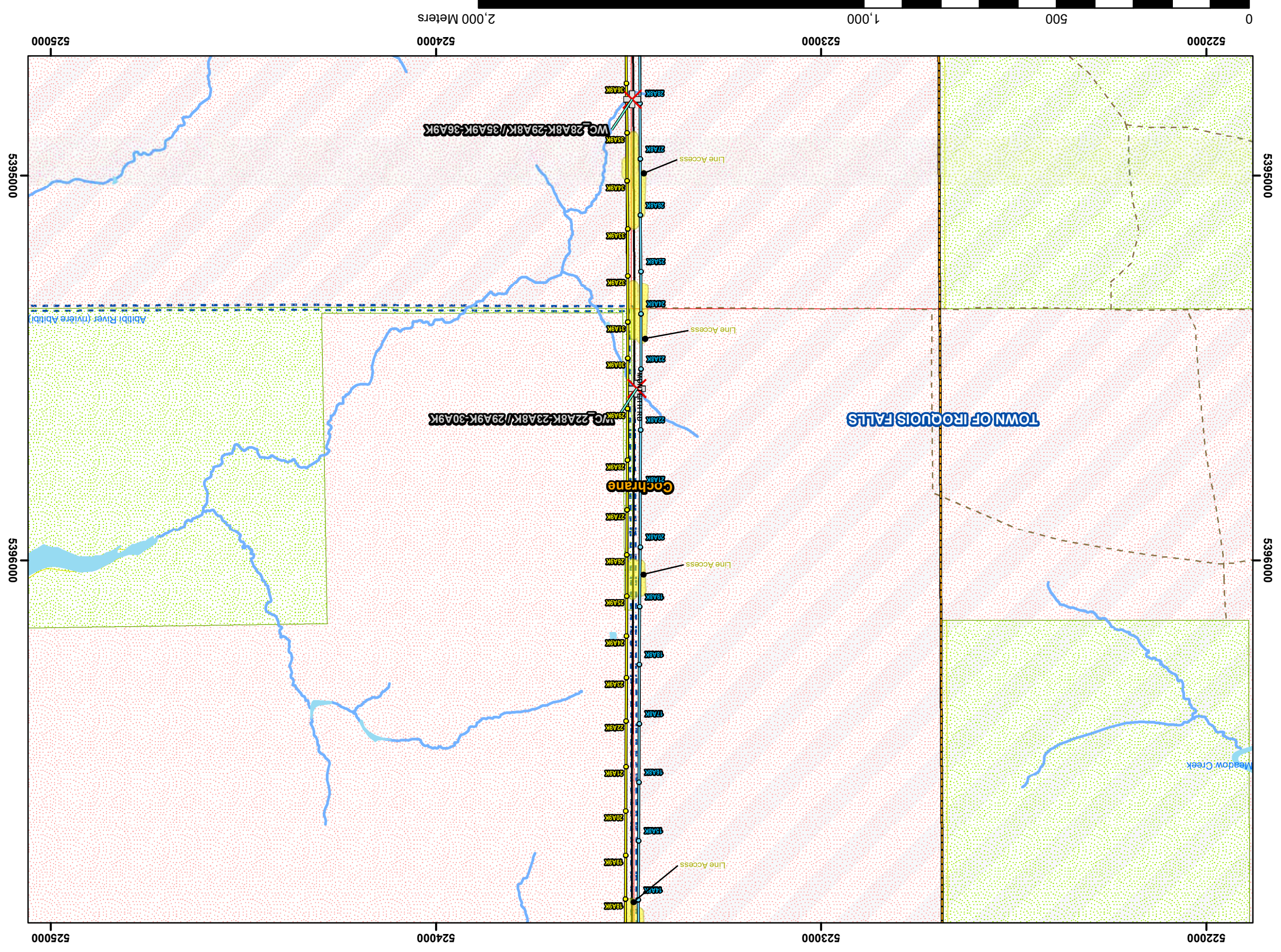
GENERAL MAP
Second Draft



- Legend**
- Municipality
 - First Nation Reserve
 - MNR District
 - Existing Roads
 - Highway
 - Local
 - Recreational
 - Other (Paved)
 - Other (Gravel)
 - Other (Unsurfaced)
 - Waterbody & Thermal Regime
 - Line Access
 - Line Access Bypass
 - Cold (with ARA Data)
 - Cold (with ARA Data)
 - Line Access (with ARA Data)
 - Watercourse (May Cross)
 - Watercourse (Do Not Cross)
 - Watercourse (no ARA Data)
 - Unknown (with ARA Data)
 - Unknown (no ARA Data)
 - Crown Land Unpatented
 - Pipeline Crossing
 - Transmission Line Crossing
 - Highway Crossing (Significant)
 - Required Work (Matting)
 - Wetland
 - Possible Yard Location
 - Utility Lines
 - Communication Line
 - Hydro Line
 - Natural Gas Pipeline
 - Unknown Transmission Line
 - Water Pipeline
 - ORM Rail Track



Map Number: 02
PROJECT: 211020
DATE: 28/01/2021
SCALE: 1:10,400



TOWN OF ROCOIS FALLS

Cochrane

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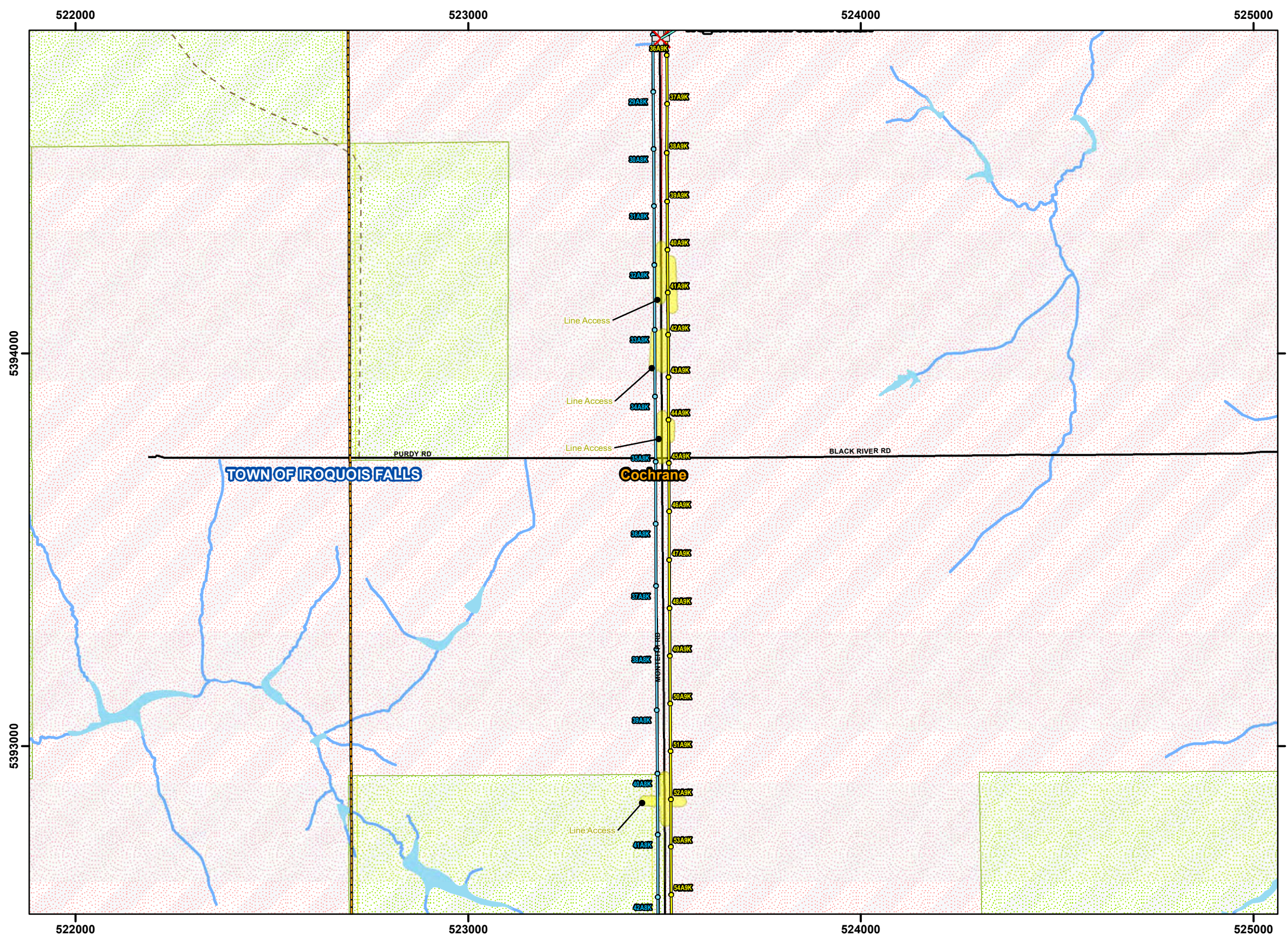
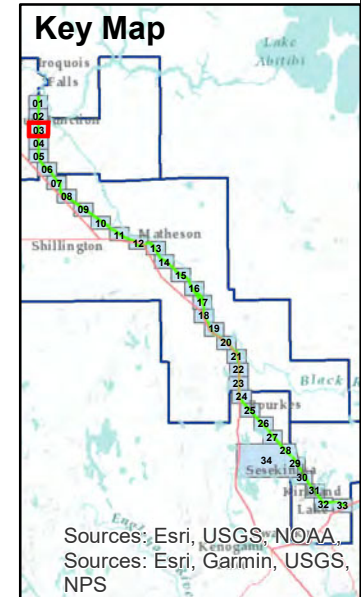
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A8K & A9K TRANSMISSION LINE REFURBISHMENT ANSONVILLE TS TO KIRKLAND LAKE TS

GENERAL MAP
Second Draft

Legend

- | | | | |
|---------------------|--------------------------------|---------------------------------------|-------------------------------------|
| | Crossing Required | | Municipality |
| | Crossing Existing Bridge | | First Nation Reserve |
| | No Crossing Required | | MNR District |
| HONI Lines | | Existing Roads | |
| | A8K | | Highway |
| | A8K/A9K | | Local |
| | A9K | | Recreational |
| Forbes Notes | | | Other (Paved) |
| | Line Access | | Other (Gravel) |
| | Line Access Bypass | | Other (Unsurfaced) |
| | Watercourse (May Cross) | Waterbody & Thermal Regime | |
| | Watercourse (Do Not Cross) | | Cool (with ARA Data) |
| | Rail Crossings | | Cold (with ARA Data) |
| | Pipeline Crossing | | Unknown (with ARA Data) |
| | Transmission Line Crossing | | Unknown (no ARA Data) |
| | Highway Crossing (Significant) | | Crown Land Unpatented |
| | Required Work (Matting) | | Crown Land Non-freehold Disposition |
| | Wellland | | Patent Land |
| | Possible Yard Location | Utility Lines | |
| | Communication Line | | Communication Line |
| | Hydro Line | | Hydro Line |
| | Natural Gas Pipeline | | Natural Gas Pipeline |
| | Unknown Transmission Line | | Unknown Transmission Line |
| | Water Pipeline | | Water Pipeline |
| | ORWN Rail Track | | ORWN Rail Track |



Coordinate System: NAD 1983 UTM Zone 17N

Map Number: **03**
PROJECT: 211020

DATE: 28/01/2021
SCALE: 1:10,400



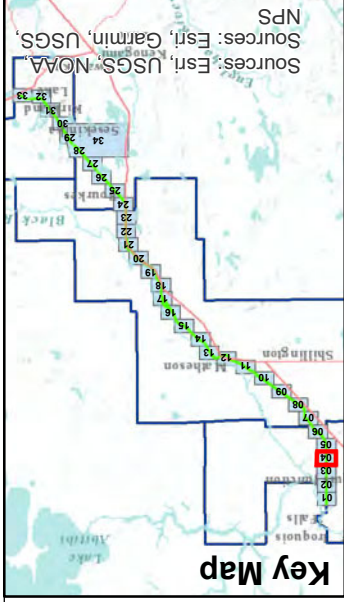
**A8K & A9K TRANSMISSION
LINE REFURBISHMENT
ANSONVILLE TS TO KIRKLAND LAKE TS**

GENERAL MAP
Second Draft

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Legend

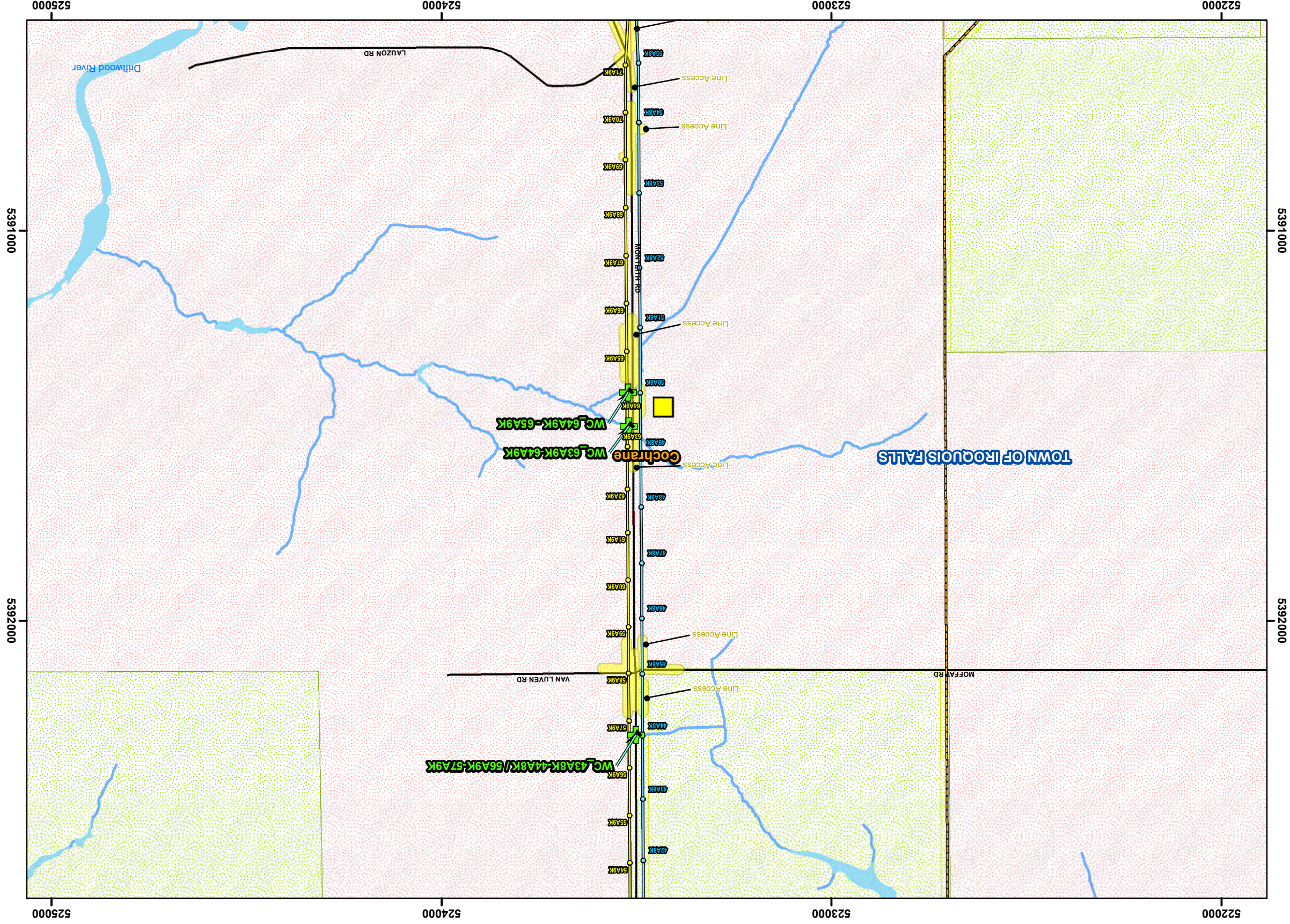
- Crossing Required
- Crossing Existing Bridge
- No Crossing Required
- Municipal
- MNR District
- Highway
- Local
- Recreational
- Other (Paved)
- Other (Gravel)
- Other (Unsurfaced)
- Waterbody & Thermal Regime
- Line Access
- Line Access Bypass
- Cool (with ARA Data)
- Cold (with ARA Data)
- Watercourse (May Cross)
- Watercourse (Do Not Cross)
- Rail Crossings
- Pipeline Crossing
- Pipe Crossing
- Transmission Line Crossing
- Highway Crossing (Significant)
- Required Work (Mating)
- Wetland
- Possible Yard Location
- Utility Lines
- Communication Line
- Hydro Line
- Natural Gas Pipeline
- Unknown Transmission Line
- Water Pipeline
- ORWN Rail Track



Map Number: 04

DATE: 28/01/2021

SCALE: 1:10,400



Coordinate System: NAD 1983 UTM Zone 17N

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User Name: Kelly.Major

A8K & A9K TRANSMISSION LINE REFURBISHMENT ANSONVILLE TS TO KIRKLAND LAKE TS

GENERAL MAP
Second Draft

Legend

	Crossing Required		Municipality
	Crossing Existing Bridge		First Nation Reserve
	No Crossing Required		MNR District

Existing Roads

	Highway
	Local
	Recreational
	Other (Paved)
	Other (Gravel)
	Other (Unsurfaced)

HONI Lines

	A8K
	A8K/A9K
	A9K

Forbes Notes

	Line Access
	Line Access Bypass
	Watercourse (May Cross)
	Watercourse (Do Not Cross)
	Rail Crossings
	Pipeline Crossing
	Transmission Line Crossing
	Highway Crossing (Significant)
	Required Work (Matting)
	Welland
	Possible Yard Location

Waterbody & Thermal Regime

	Cool (with ARA Data)
	Cold (with ARA Data)
	Unknown (with ARA Data)
	Unknown (no ARA Data)
	Crown Land Unpatented
	Crown Land Non-freehold Disposition
	Patent Land

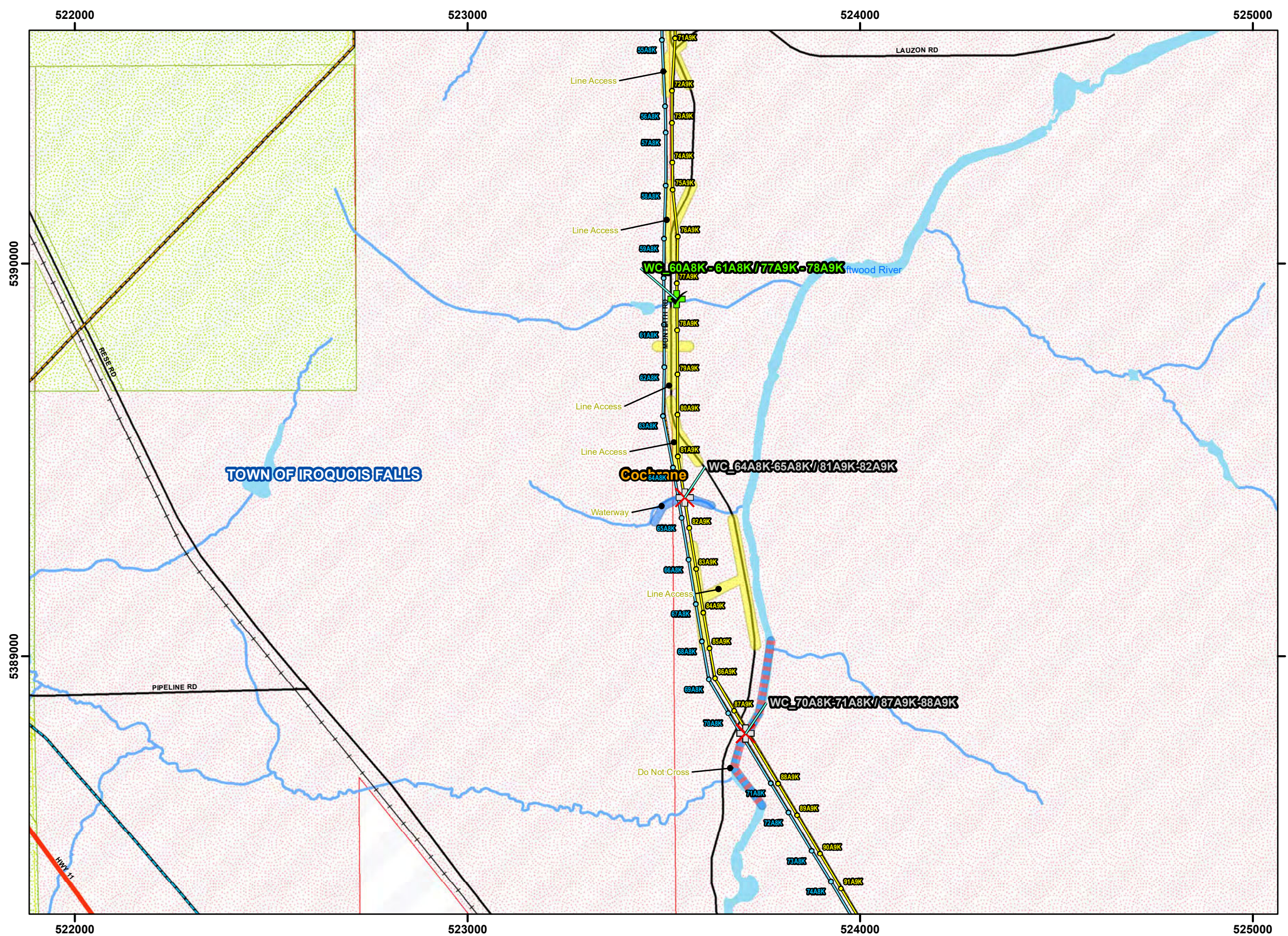
Utility Lines

	Communication Line
	Hydro Line
	Natural Gas Pipeline
	Unknown Transmission Line
	Water Pipeline
	ORWN Rail Track

Key Map

Sources: Esri, USGS, NOAA
Sources: Esri, Garmin, USGS, NPS

Map Number: 05
PROJECT: 211020
DATE: 28/01/2021
SCALE: 1:10,400



Coordinate System: NAD 1983 UTM Zone 17N

A8K & A9K TRANSMISSION LINE REFURBISHMENT ANSONVILLE TS TO KIRKLAND LAKE TS

GENERAL MAP
Second Draft

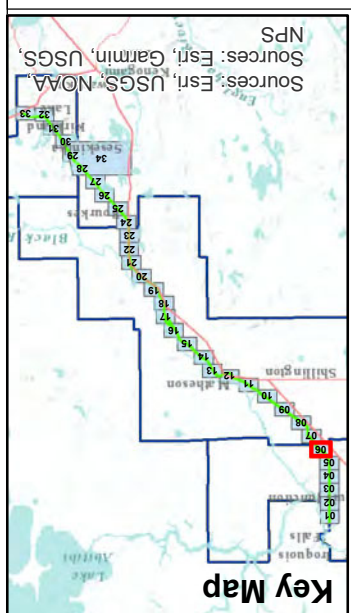
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Legend

- Municipality
- First Nation Reserve
- MNRF District
- Existing Roads
- Highway
- Local
- Recreational
- Other (Paved)
- Other (Gravel)
- Other (Unsurfaced)
- Waterbody & Thermal Regime
- Cool (with ARA Data)
- Cold (with ARA Data)
- Unknown (with ARA Data)
- Unknown (no ARA Data)
- Crown Land Unpatented
- Crown Land Non-threshold Disposition
- Patent Land
- Highway Crossing (Significant)
- Transmission Line Crossing
- Pipeline Crossing
- Rail Crossings
- Watercourse (Do Not Cross)
- Watercourse (May Cross)
- Line Access Bypass
- Line Access
- Forbes Notes
- A8K
- A8K/A9K
- A9K
- Other (Unsurfaced)
- Other (Gravel)
- Other (Paved)
- Recreational
- Local
- MNRF District
- First Nation Reserve
- Municipality

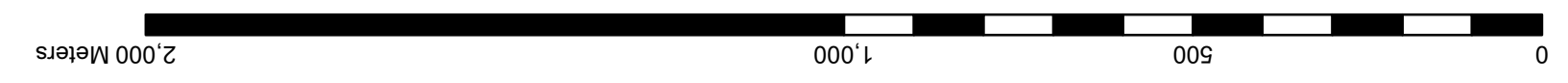
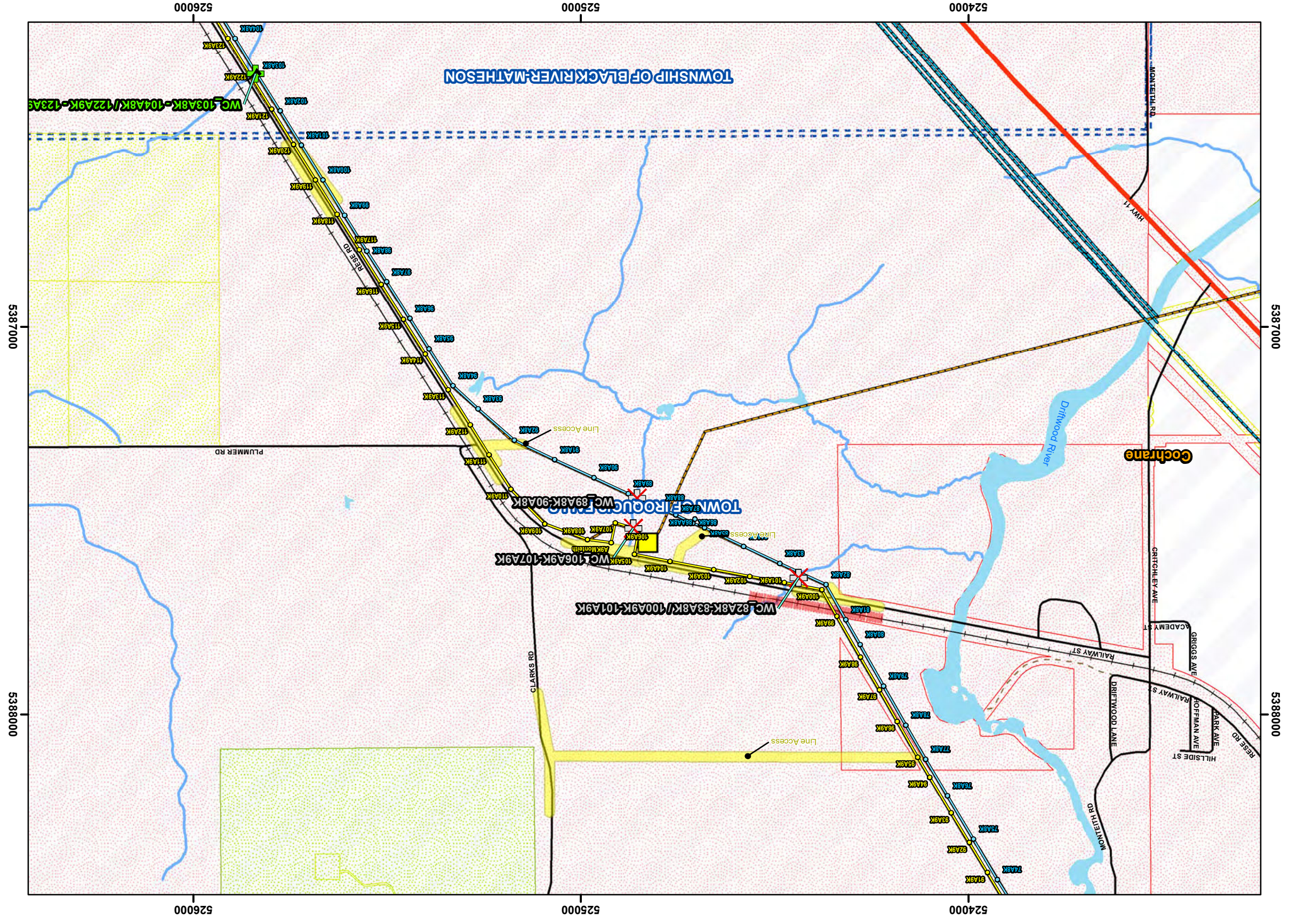
Utility Lines

- Required Work (Mating)
- Wetland
- Possible Yard Location
- Communication Line
- Hydro Line
- Natural Gas Pipeline
- Unknown Transmission Line
- Water Pipeline
- ORWN Rail Track



Map Number: **06**
PROJECT: 211020

DATE: 28/01/2021
SCALE: 1:10,400



Coordinate System: NAD 1983 UTM Zone 17N

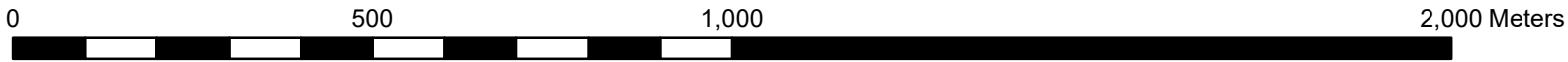
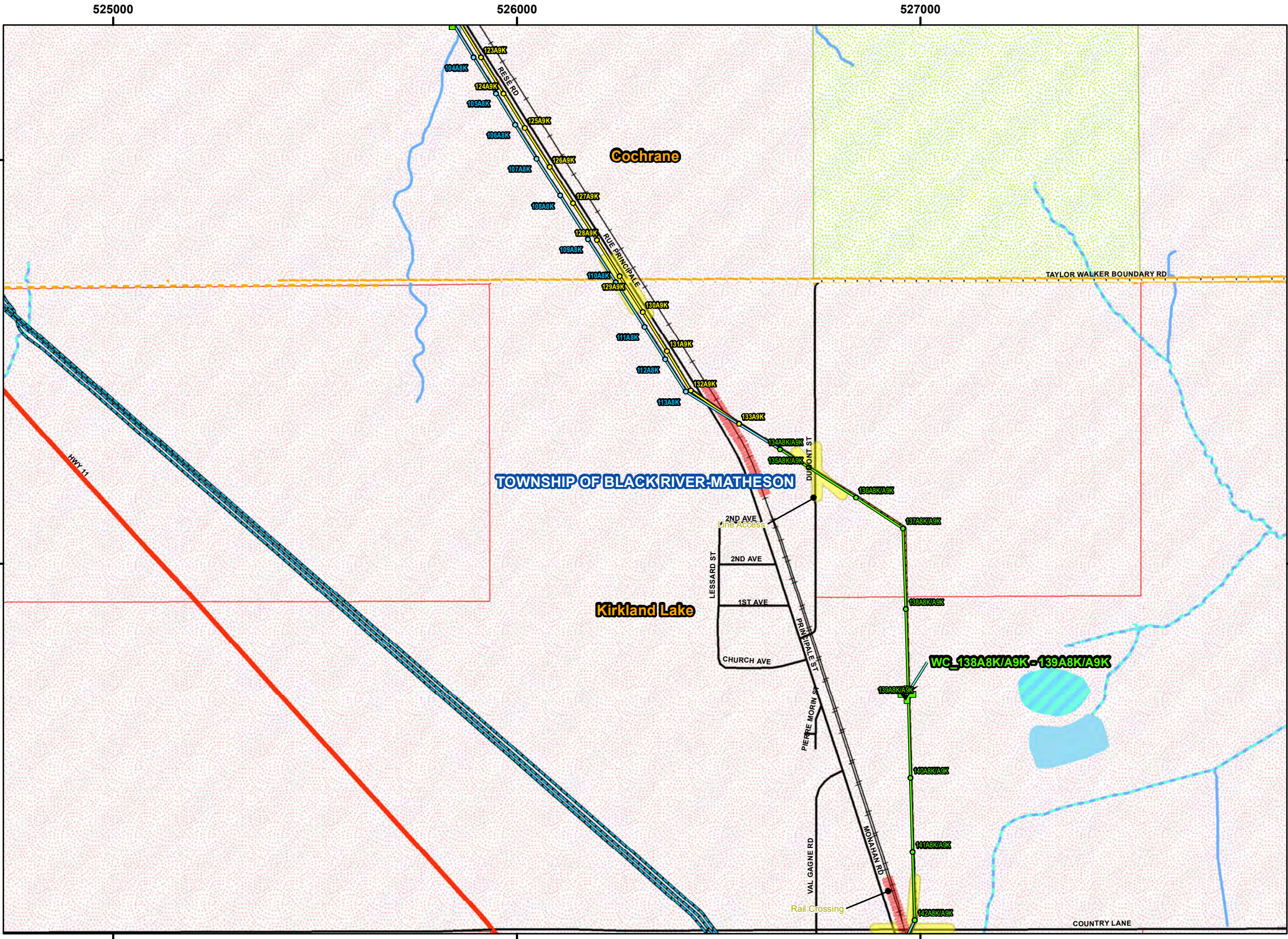
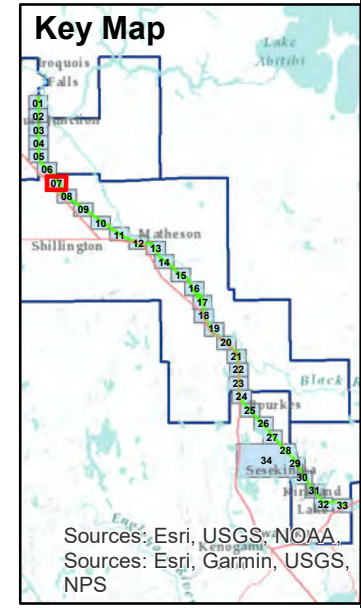
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User Name: Kelly.Major

A8K & A9K TRANSMISSION LINE REFURBISHMENT ANSONVILLE TS TO KIRKLAND LAKE TS

GENERAL MAP
Second Draft

Legend

- | | | | |
|----------------------|--------------------------------|---------------------------------------|-------------------------------------|
| | Crossing Required | | Municipality |
| | Crossing Existing Bridge | | First Nation Reserve |
| | No Crossing Required | | MNR District |
| HONI Lines | | Existing Roads | |
| | A8K | | Highway |
| | A8K/A9K | | Local |
| | A9K | | Recreational |
| Forbes Notes | | | Other (Paved) |
| | Line Access | | Other (Gravel) |
| | Line Access Bypass | | Other (Unsurfaced) |
| | Watercourse (May Cross) | Waterbody & Thermal Regime | |
| | Watercourse (Do Not Cross) | | Cool (with ARA Data) |
| | Rail Crossings | | Cold (with ARA Data) |
| | Pipeline Crossing | | Unknown (with ARA Data) |
| | Transmission Line Crossing | | Unknown (no ARA Data) |
| | Highway Crossing (Significant) | | Crown Land Unpatented |
| | Required Work (Matting) | | Crown Land Non-freehold Disposition |
| | Wellland | | Patent Land |
| | Possible Yard Location | Utility Lines | |
| Utility Lines | | | Communication Line |
| | Hydro Line | | Natural Gas Pipeline |
| | Natural Gas Pipeline | | Unknown Transmission Line |
| | Water Pipeline | | ORWN Rail Track |



Coordinate System: NAD 1983 UTM Zone 17N

Document Path: J:\2021 Projects\Environmental\211020-FBL_HONI-A8K A9K\5_Maps\2_Map Project Files\211020 - HONI A8K-A9K - 01 General Map v0-4 - 28 Jan2021.mxd
User Name: Kelly.Major

Map Number: **07**
PROJECT: 211020

DATE: 28/01/2021
SCALE: 1:10,400



**A8K & A9K TRANSMISSION
LINE REFURBISHMENT
ANSONVILLE TS TO KIRKLAND LAKE TS**

GENERAL MAP
Second Draft

DRAFT

Legend

- Crossing Required
- Crossing Existing Bridge
- No Crossing Required
- Municipal
- MNR District
- First Nation Reserve
- Existing Roads
- Highway
- Local
- Recreational
- Other (Paved)
- Other (Gravel)
- Other (Unsurfaced)
- Waterbody & Thermal Regime
- Cool (with ARA Data)
- Cold (with ARA Data)
- Line Access Bypass
- Line Access
- Watercourse (May Cross)
- Watercourse (Do Not Cross)
- Unknown (with ARA Data)
- Unknown (no ARA Data)
- Crown Land Unplanted
- Pipeline Crossing
- Rail Crossings
- Transmission Line Crossing
- Highway Crossing (Significant)
- Patent Land
- Crown Land Non-treethold Disposition

Forbes Notes

- A9K
- A8K/A9K
- A8K

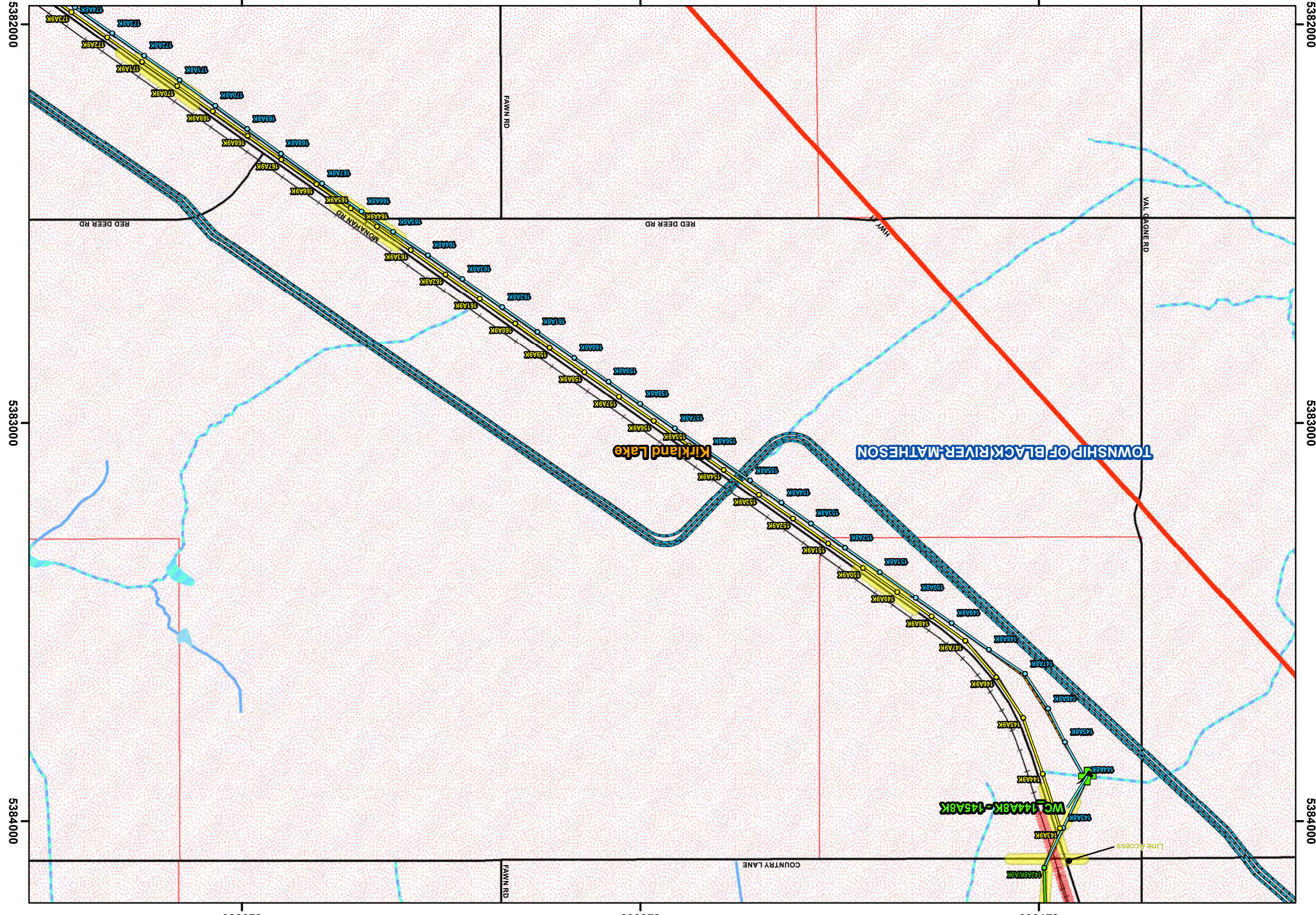
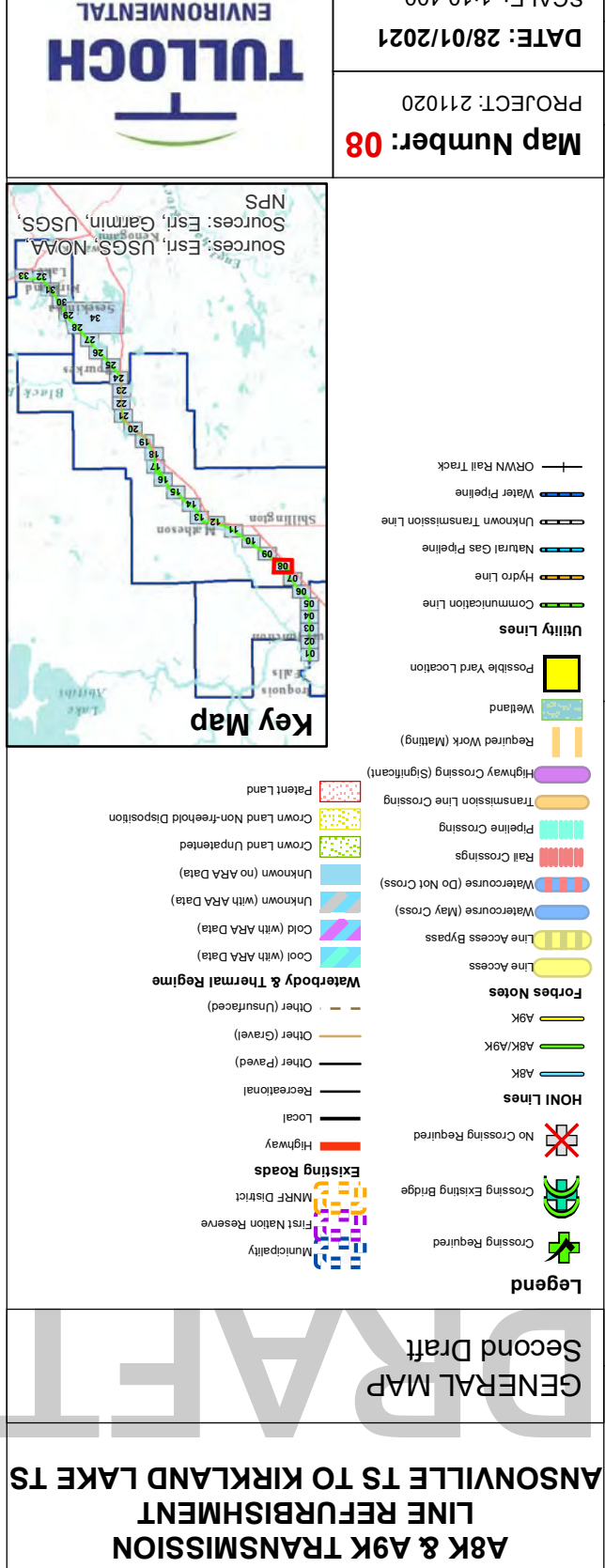
Utility Lines

- Possible Yard Location
- Wetland
- Required Work (Matting)
- Communication Line
- Hydro Line
- Natural Gas Pipeline
- Unknown Transmission Line
- Water Pipeline
- ORWN Rail Track

Key Map



Map Number: **08**
PROJECT: 211020
DATE: 28/01/2021
SCALE: 1:10,400

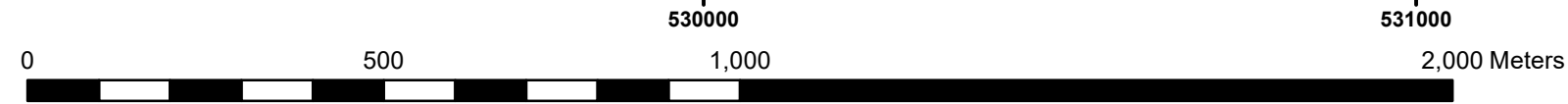
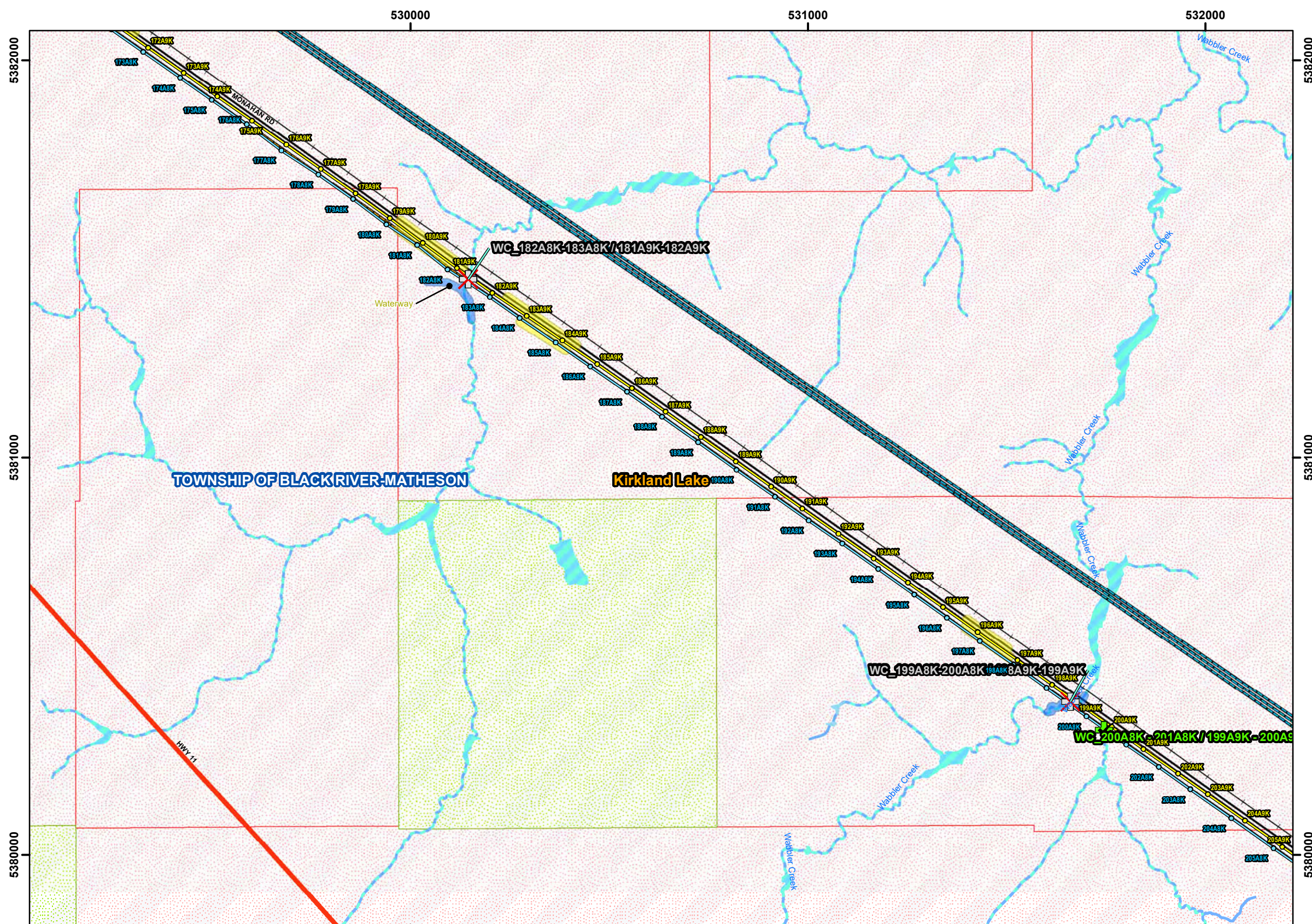
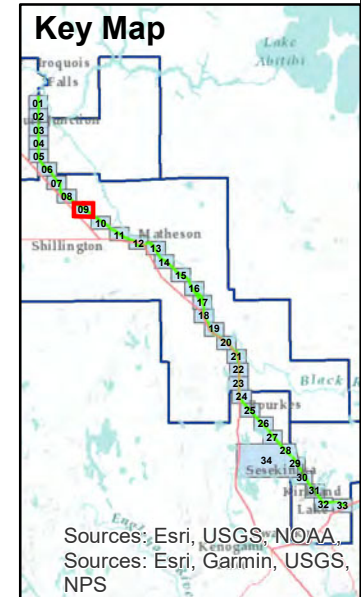


A8K & A9K TRANSMISSION LINE REFURBISHMENT ANSONVILLE TS TO KIRKLAND LAKE TS

GENERAL MAP
Second Draft

Legend

- Crossing Required
- Crossing Existing Bridge
- No Crossing Required
- A8K
- A8K/A9K
- A9K
- Line Access
- Line Access Bypass
- Watercourse (May Cross)
- Watercourse (Do Not Cross)
- Rail Crossings
- Pipeline Crossing
- Transmission Line Crossing
- Highway Crossing (Significant)
- Required Work (Matting)
- Wellland
- Possible Yard Location
- Communication Line
- Hydro Line
- Natural Gas Pipeline
- Unknown Transmission Line
- Water Pipeline
- ORWN Rail Track
- Municipality
- First Nation Reserve
- MNR District
- Highway
- Local
- Recreational
- Other (Paved)
- Other (Gravel)
- Other (Unsurfaced)
- Cool (with ARA Data)
- Cold (with ARA Data)
- Unknown (with ARA Data)
- Unknown (no ARA Data)
- Crown Land Unpatented
- Crown Land Non-freehold Disposition
- Patent Land



Coordinate System: NAD 1983 UTM Zone 17N

Document Path: J:\2021 Projects\Environmental\211020-FBL_HONI-A8K A9K\5_Maps\2_Map Project Files\211020 - HONI A8K-A9K - 01 General Map v0-4 - 28 Jan2021.mxd
User Name: Kelly.Major

Map Number: **09**
PROJECT: 211020

DATE: 28/01/2021
SCALE: 1:10,400



**A8K & A9K TRANSMISSION
LINE REFURBISHMENT
ANSONVILLE TS TO KIRKLAND LAKE TS**

GENERAL MAP
Second Draft

DRAFT

Legend

- Crossing Required
- Crossing Existing Bridge
- No Crossing Required
- Municipality
- First Nation Reserve
- MNR District
- Existing Roads
- Highway
- Local
- Recreational
- Other (Paved)
- Other (Gravel)
- Other (Unsurfaced)
- Waterbody & Thermal Regime
- Cool (with ARA Data)
- Cold (with ARA Data)
- Line Access Bypass
- Line Access
- Watercourse (May Cross)
- Watercourse (Do Not Cross)
- Unknown (with ARA Data)
- Unknown (no ARA Data)
- Crown Land Unpatented
- Pipeline Crossing
- Rail Crossings
- Transmission Line Crossing
- Highway Crossing (Significant)
- Patent Land
- Crown Land Non-treethold Disposition

Forbes Notes

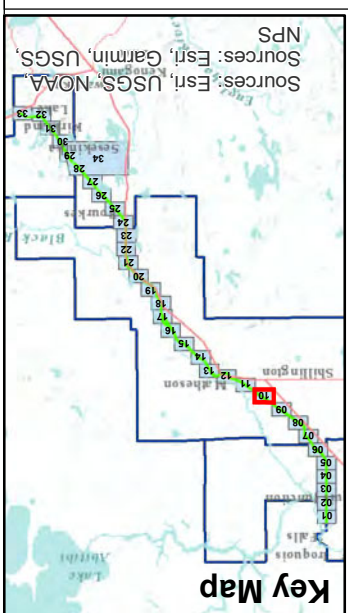
- Line Access
- Line Access Bypass
- Cold (with ARA Data)
- Cool (with ARA Data)

Utility Lines

- Communication Line
- Hydro Line
- Natural Gas Pipeline
- Unknown Transmission Line
- Water Pipeline
- ORWN Rail Track

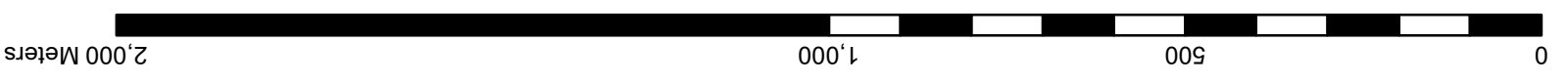
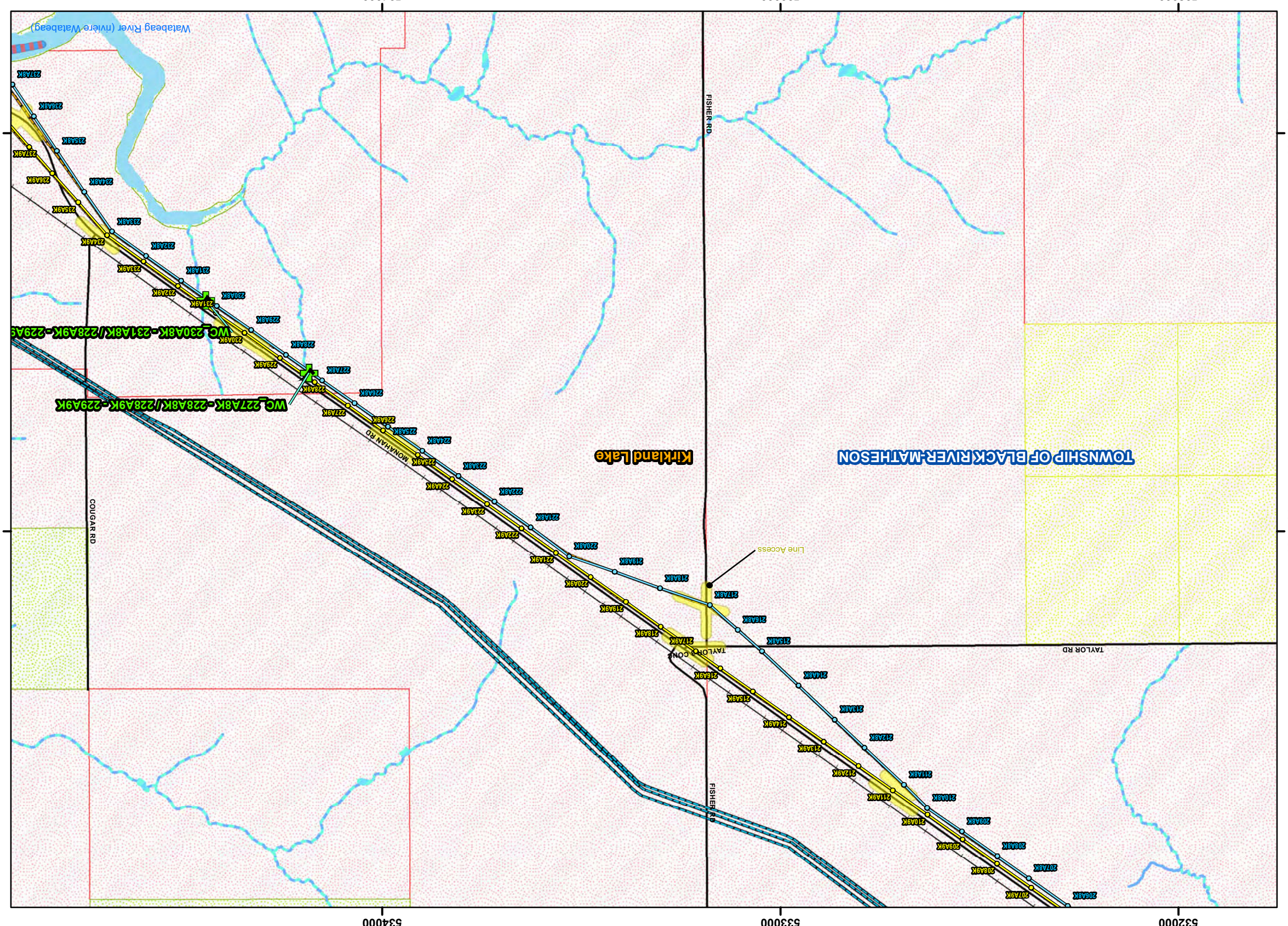
Other

- Possible Yard Location
- Wetland
- Required Work (Matting)



Map Number: 10
PROJECT: 211020

DATE: 28/01/2021
SCALE: 1:10,400



Coordinate System: NAD 1983 UTM Zone 17N

Document Path: J:\2021 Projects\Environmental\211020-FBL_HONI-A8K A9K\5_Maps\2_Map Project Files\211020 - HONI A8K-A9K - 01 General Map v0-4 - 28 Jan2021.mxd
User Name: Kelly.Major

A8K & A9K TRANSMISSION LINE REFURBISHMENT ANSONVILLE TS TO KIRKLAND LAKE TS

GENERAL MAP
Second Draft

- Legend**
- Municipality
 - First Nation Reserve
 - MNR District
 - Existing Roads
 - Highway
 - Local
 - Recreational
 - Other (Paved)
 - Other (Gravel)
 - Other (Unsurfaced)

- HONI Lines**
- A8K
 - A8K/A9K
 - A9K

- Forbes Notes**
- Line Access
 - Line Access Bypass
 - Cold (with ARA Data)
 - Cold (with ARA Data)
 - Watercourse (May Cross)
 - Watercourse (Do Not Cross)
 - Unknown (no ARA Data)
 - Unknown (with ARA Data)
 - Crown Land Unpatented
 - Crown Land Non-treethold Disposition
 - Patent Land

- Utility Lines**
- Communication Line
 - Hydro Line
 - Natural Gas Pipeline
 - Unknown Transmission Line
 - Water Pipeline
 - ORWN Rail Track

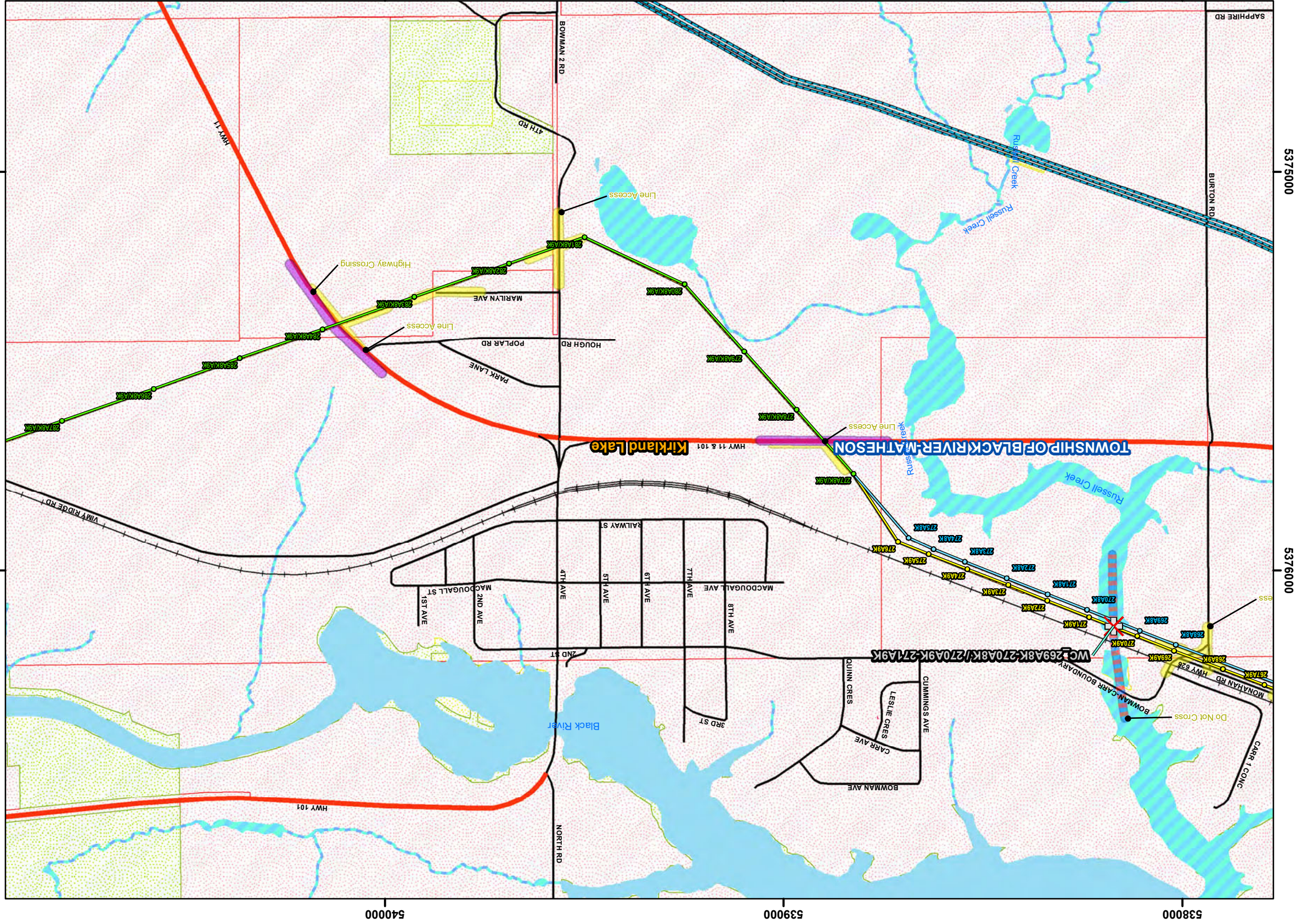


Map Number: **12**
PROJECT: 211020

DATE: 28/01/2021
SCALE: 1:10,400



Coordinate System: NAD 1983 UTM Zone 17N
Document Path: J:\2021 Projects\Environmental\211020-FBL_HONI-A8K A9K\5_Maps\2_Map Project Files\211020 - HONI A8K-A9K - 01 General Map v0-4 - 28 Jan2021.mxd
User Name: Kelly.Major

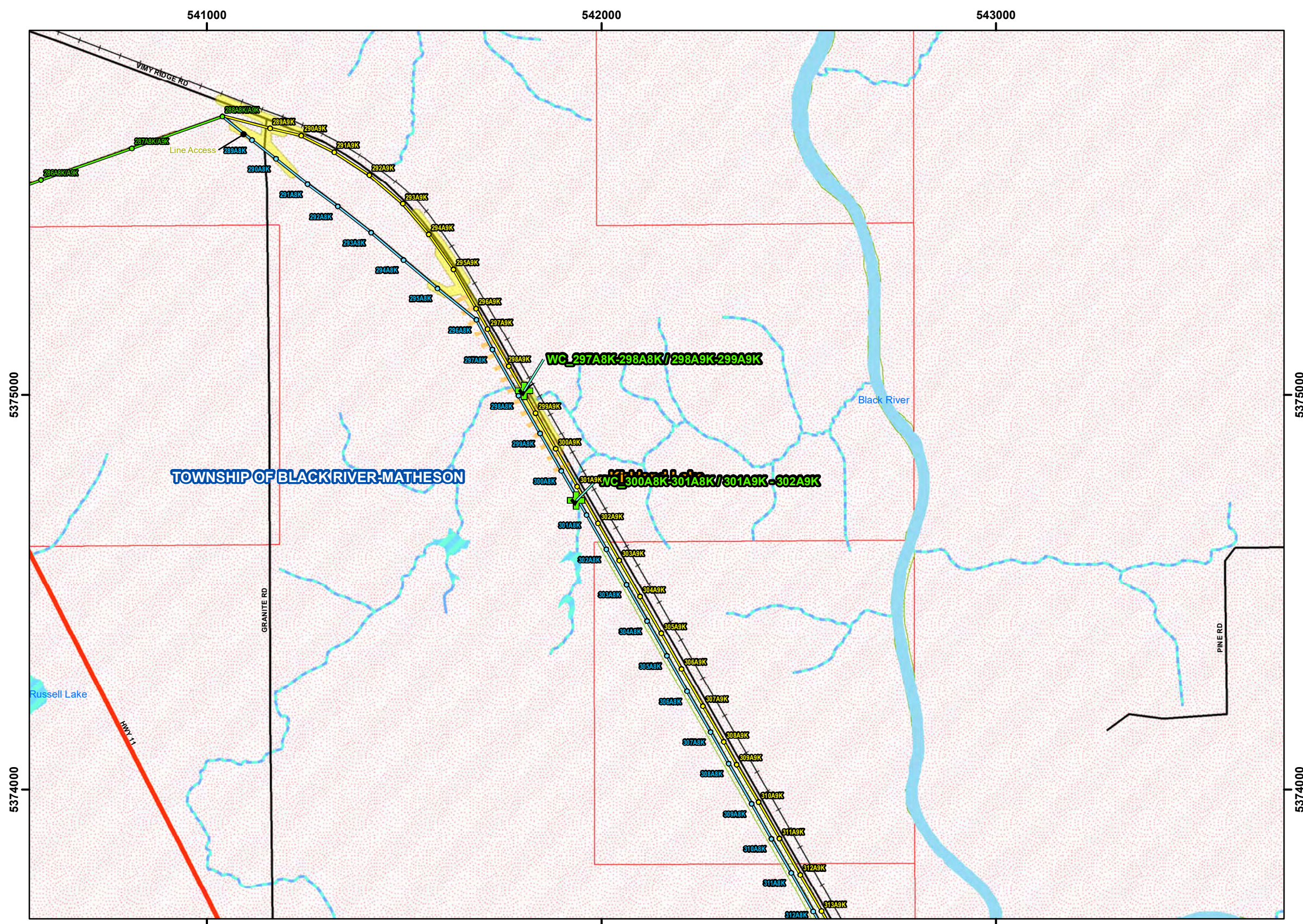
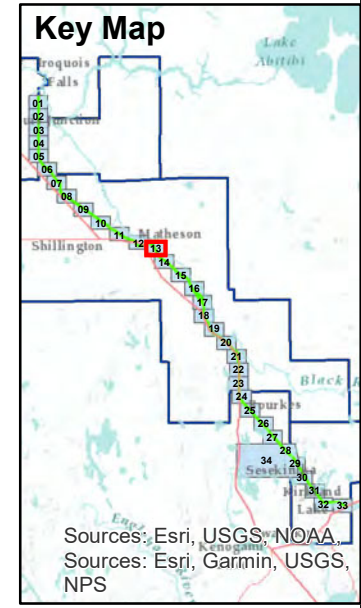


A8K & A9K TRANSMISSION LINE REFURBISHMENT ANSONVILLE TS TO KIRKLAND LAKE TS

GENERAL MAP
Second Draft

Legend

- | | | | |
|---------------------|--------------------------------|---------------------------------------|-------------------------------------|
| | Crossing Required | | Municipality |
| | Crossing Existing Bridge | | First Nation Reserve |
| | No Crossing Required | | MNR District |
| HONI Lines | | Existing Roads | |
| | A8K | | Highway |
| | A8K/A9K | | Local |
| | A9K | | Recreational |
| Forbes Notes | | | Other (Paved) |
| | Line Access | | Other (Gravel) |
| | Line Access Bypass | | Other (Unsurfaced) |
| | Watercourse (May Cross) | Waterbody & Thermal Regime | |
| | Watercourse (Do Not Cross) | | Cool (with ARA Data) |
| | Rail Crossings | | Cold (with ARA Data) |
| | Pipeline Crossing | | Unknown (with ARA Data) |
| | Transmission Line Crossing | | Unknown (no ARA Data) |
| | Highway Crossing (Significant) | | Crown Land Unpatented |
| | Required Work (Matting) | | Crown Land Non-freehold Disposition |
| | Wellland | | Patent Land |
| | Possible Yard Location | Utility Lines | |
| | Communication Line | | Communication Line |
| | Hydro Line | | Hydro Line |
| | Natural Gas Pipeline | | Natural Gas Pipeline |
| | Unknown Transmission Line | | Unknown Transmission Line |
| | Water Pipeline | | Water Pipeline |
| | ORWN Rail Track | | ORWN Rail Track |



Coordinate System: NAD 1983 UTM Zone 17N

Document Path: J:\2021 Projects\Environmental\211020-FBL_HONI-A8K A9K\5_Maps\2_Map Project Files\211020 - HONI A8K-A9K - 01 General Map v0-4 - 28 Jan2021.mxd
User Name: Kelly.Major

Map Number: **13**
PROJECT: 211020

DATE: 28/01/2021
SCALE: 1:10,400



**A8K & A9K TRANSMISSION
LINE REFURBISHMENT
ANSONVILLE TS TO KIRKLAND LAKE TS**

GENERAL MAP
Second Draft

DRAFT

Legend

- Crossing Required
- Crossing Existing Bridge
- No Crossing Required
- Municipal
- MNR District
- Existing Roads
- Highway
- Local
- Recreational
- Other (Paved)
- Other (Gravel)
- Other (Unsurfaced)
- A8K
- A8K/A9K
- A9K
- Waterbody & Thermal Regime
- Line Access (with ARA Data)
- Line Access Bypass
- Cold (with ARA Data)
- Cool (with ARA Data)
- Watercourse (May Cross)
- Watercourse (Do Not Cross)
- Unknown (with ARA Data)
- Unknown (no ARA Data)
- Crown Land Unpatented
- Pipeline Crossing
- Rail Crossings
- Transmission Line Crossing
- Highway Crossing (Significant)
- Patent Land

Forbes Notes

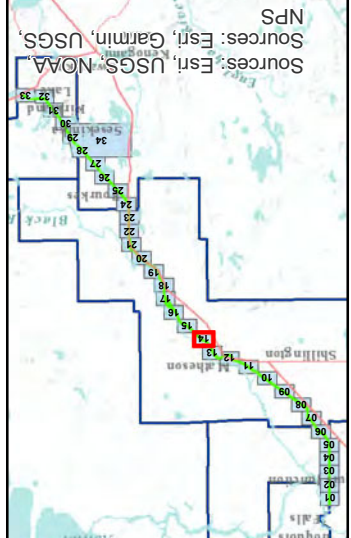
- Line Access
- Line Access Bypass
- Cold (with ARA Data)
- Cool (with ARA Data)
- Watercourse (May Cross)
- Watercourse (Do Not Cross)
- Unknown (with ARA Data)
- Unknown (no ARA Data)
- Crown Land Unpatented
- Pipeline Crossing
- Rail Crossings
- Transmission Line Crossing
- Highway Crossing (Significant)
- Patent Land

Utility Lines

- Possible Yard Location
- Required Work (Mating)
- Wetland
- ORWN Rail Track
- Water Pipeline
- Unknown Transmission Line
- Natural Gas Pipeline
- Hydro Line
- Communication Line

Key Map

Sources: Esri, USGS, NOAA, NPS
Sources: Esri, Garmin, USGS, NPS

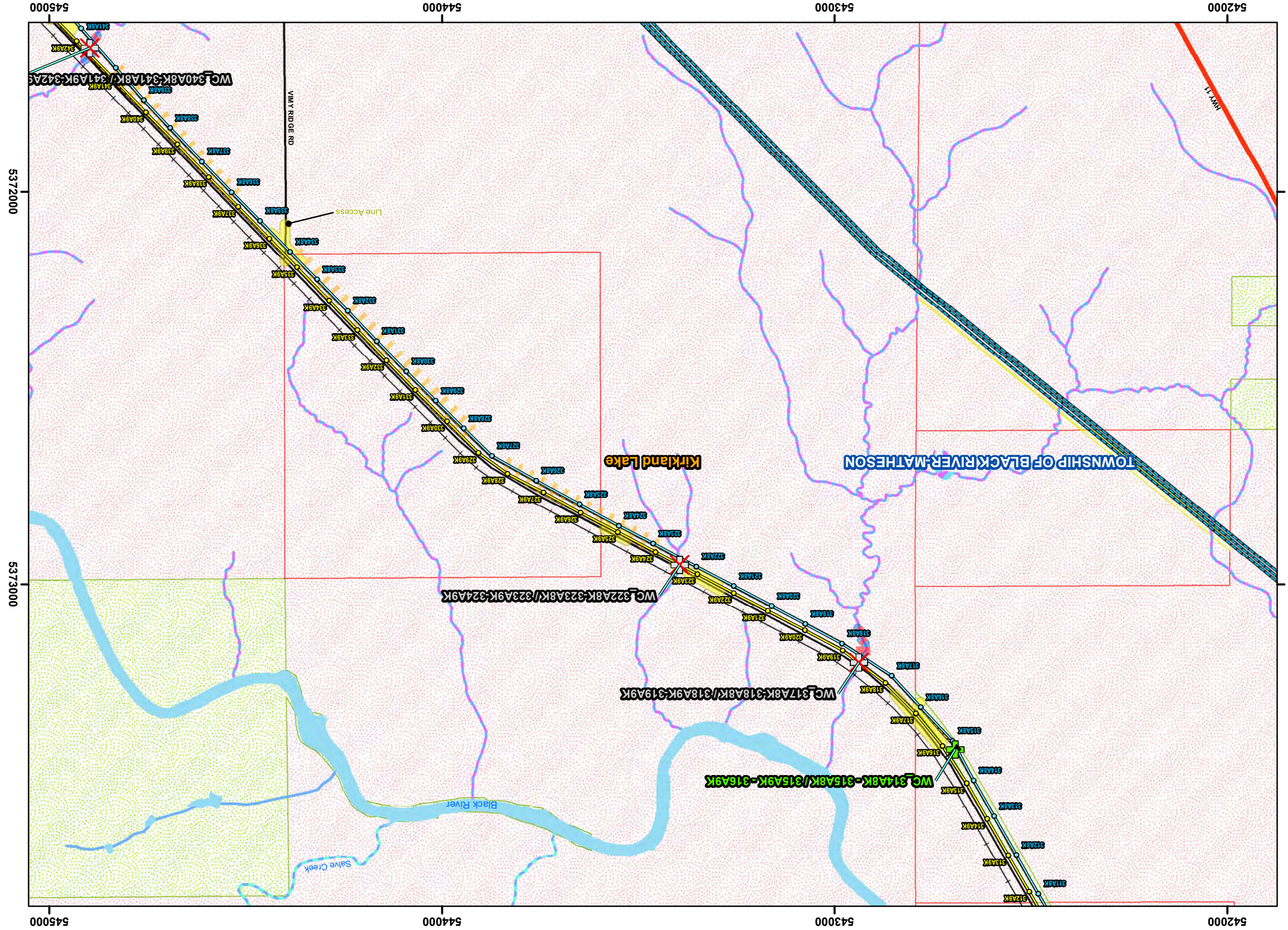


Map Number: 14

PROJECT: 211020

DATE: 28/01/2021

SCALE: 1:10,400



Coordinate System: NAD 1983 UTM Zone 17N

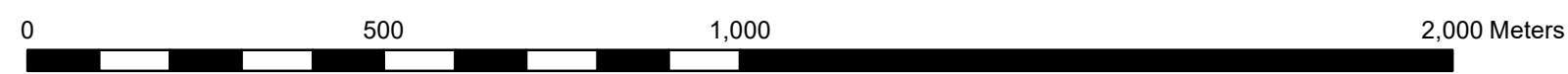
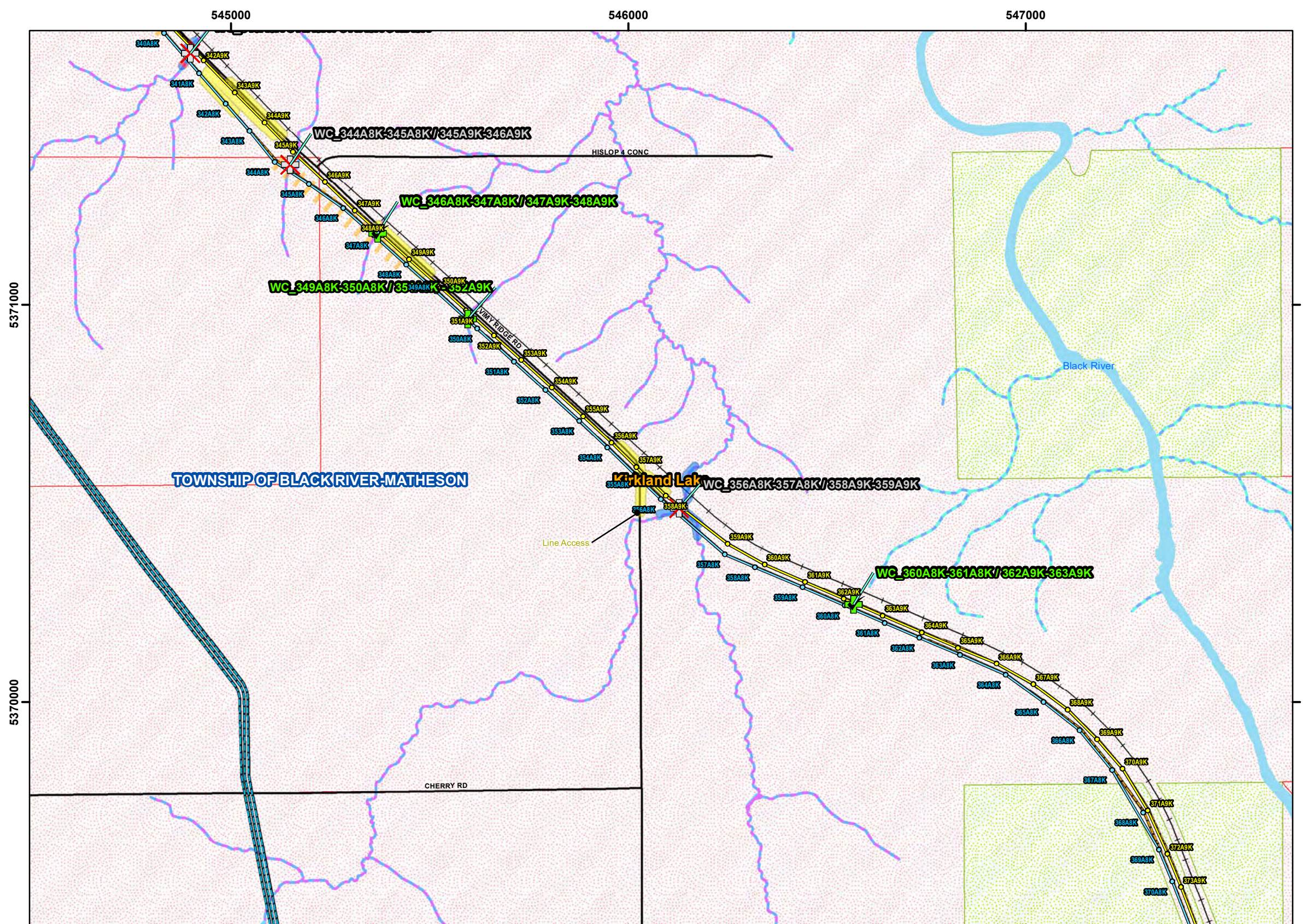
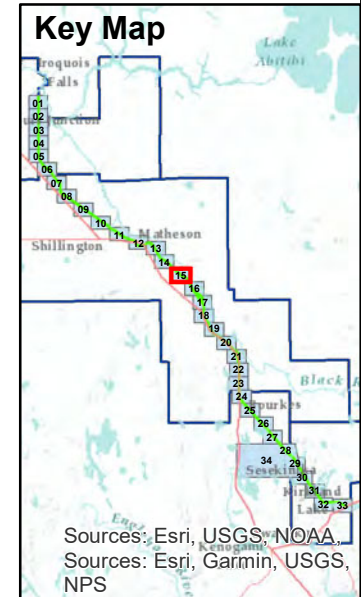
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User Name: Kelly.Major

A8K & A9K TRANSMISSION LINE REFURBISHMENT ANSONVILLE TS TO KIRKLAND LAKE TS

GENERAL MAP
Second Draft

Legend

- | | | | |
|----------------------|--------------------------------|---------------------------------------|-------------------------------------|
| | Crossing Required | | Municipality |
| | Crossing Existing Bridge | | First Nation Reserve |
| | No Crossing Required | | MNR District |
| HONI Lines | | Existing Roads | |
| | A8K | | Highway |
| | A8K/A9K | | Local |
| | A9K | | Recreational |
| Forbes Notes | | | Other (Paved) |
| | Line Access | | Other (Gravel) |
| | Line Access Bypass | | Other (Unsurfaced) |
| | Watercourse (May Cross) | Waterbody & Thermal Regime | |
| | Watercourse (Do Not Cross) | | Cool (with ARA Data) |
| | Rail Crossings | | Cold (with ARA Data) |
| | Pipeline Crossing | | Unknown (with ARA Data) |
| | Transmission Line Crossing | | Unknown (no ARA Data) |
| | Highway Crossing (Significant) | | Crown Land Unpatented |
| | Required Work (Matting) | | Crown Land Non-freehold Disposition |
| | Wellland | | Patent Land |
| | Possible Yard Location | Utility Lines | |
| Utility Lines | | | Communication Line |
| | Communication Line | | Hydro Line |
| | Hydro Line | | Natural Gas Pipeline |
| | Natural Gas Pipeline | | Unknown Transmission Line |
| | Unknown Transmission Line | | Water Pipeline |
| | Water Pipeline | | ORWN Rail Track |
| | ORWN Rail Track | | |



Coordinate System: NAD 1983 UTM Zone 17N

Document Path: J:\2021 Projects\Environmental\211020-FBL_HONI-A8K A9K\5_Maps\2_Map Project Files\211020 - HONI A8K-A9K - 01 General Map v0-4 - 28 Jan2021.mxd
User Name: Kelly.Major

Map Number: 15
PROJECT: 211020

DATE: 28/01/2021
SCALE: 1:10,400



**A8K & A9K TRANSMISSION
LINE REFURBISHMENT
ANSONVILLE TS TO KIRKLAND LAKE TS**

GENERAL MAP
Second Draft

DRAFT

Legend

- Crossing Required
- Crossing Existing Bridge
- No Crossing Required
- Municipality
- First Nation Reserve
- MNR District
- Existing Roads
- Highway
- Local
- Recreational
- Other (Paved)
- Other (Gravel)
- Other (Unsurfaced)
- Waterbody & Thermal Regime
- Cool (with ARA Data)
- Cold (with ARA Data)
- Line Access Bypass
- Line Access
- Watercourse (May Cross)
- Watercourse (Do Not Cross)
- Unknown (with ARA Data)
- Unknown (no ARA Data)
- Crown Land Unpatented
- Pipeline Crossing
- Rail Crossings
- Transmission Line Crossing
- Highway Crossing (Significant)

Forbes Notes

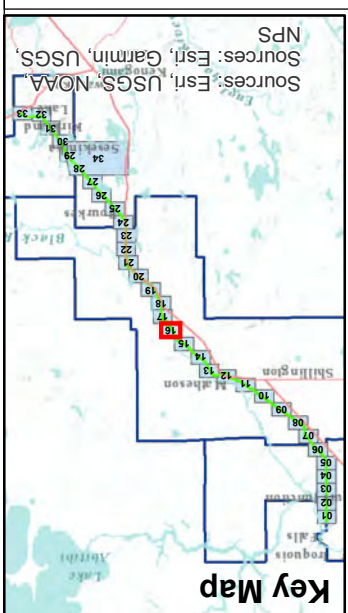
- Cool (with ARA Data)
- Cold (with ARA Data)
- Line Access Bypass
- Line Access
- Watercourse (May Cross)
- Watercourse (Do Not Cross)
- Unknown (with ARA Data)
- Unknown (no ARA Data)
- Crown Land Unpatented
- Pipeline Crossing
- Rail Crossings
- Transmission Line Crossing
- Highway Crossing (Significant)

Utility Lines

- Communication Line
- Hydro Line
- Natural Gas Pipeline
- Unknown Transmission Line
- Water Pipeline
- ORMN Rail Track

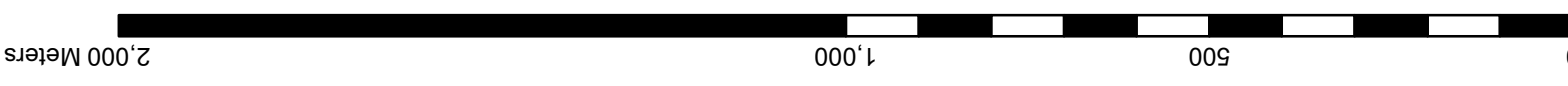
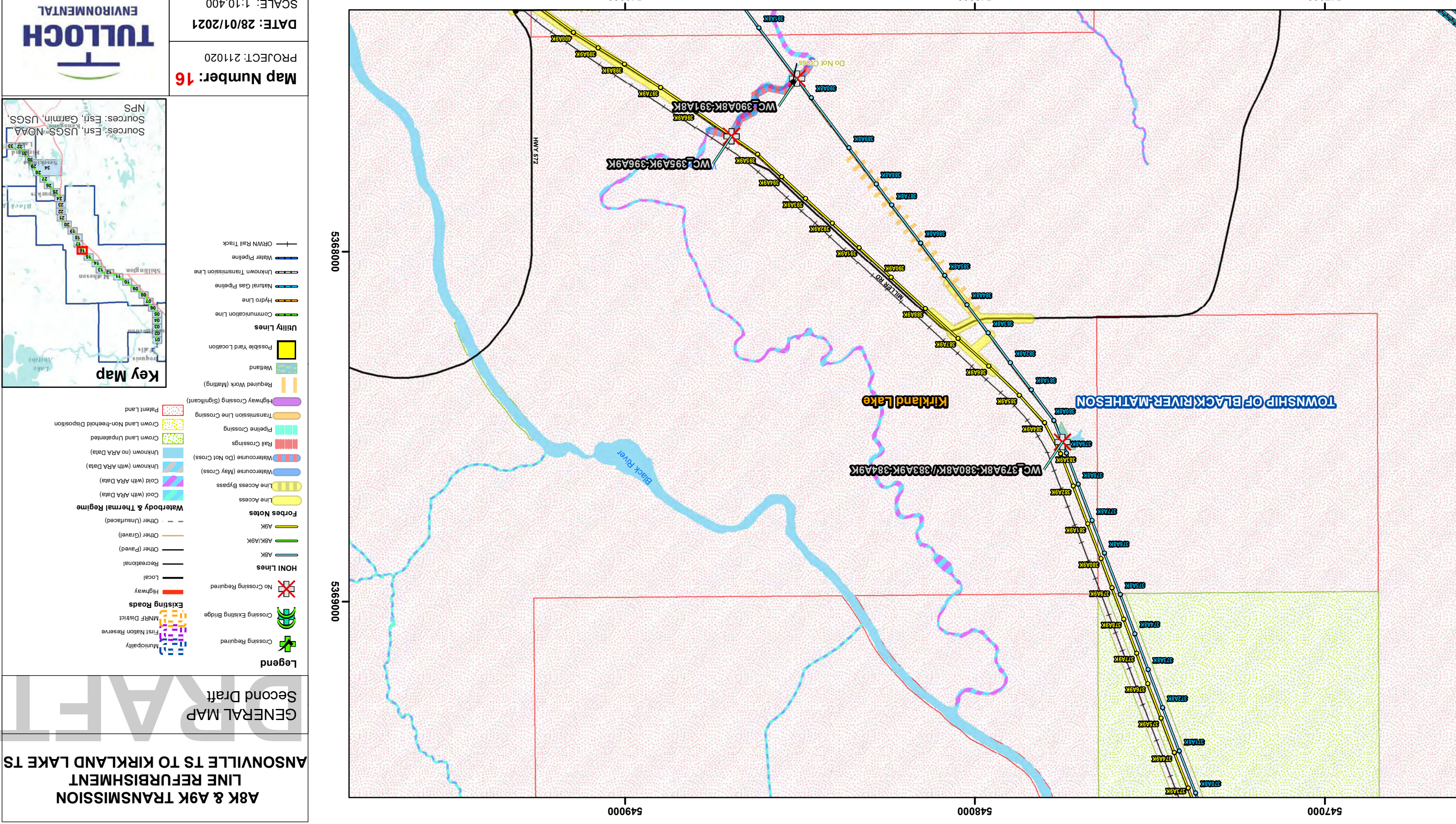
Other Features

- Possible Yard Location
- Wetland
- Required Work (Matting)



Map Number: 16
PROJECT: 211020

DATE: 28/01/2021
SCALE: 1:10,400



Coordinate System: NAD 1983 UTM Zone 17N

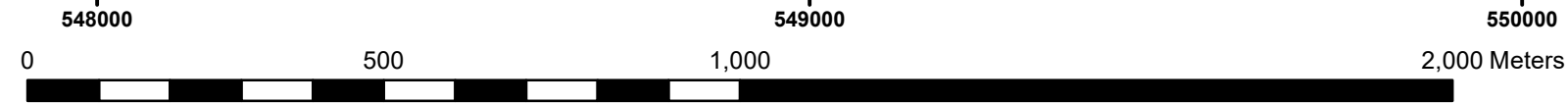
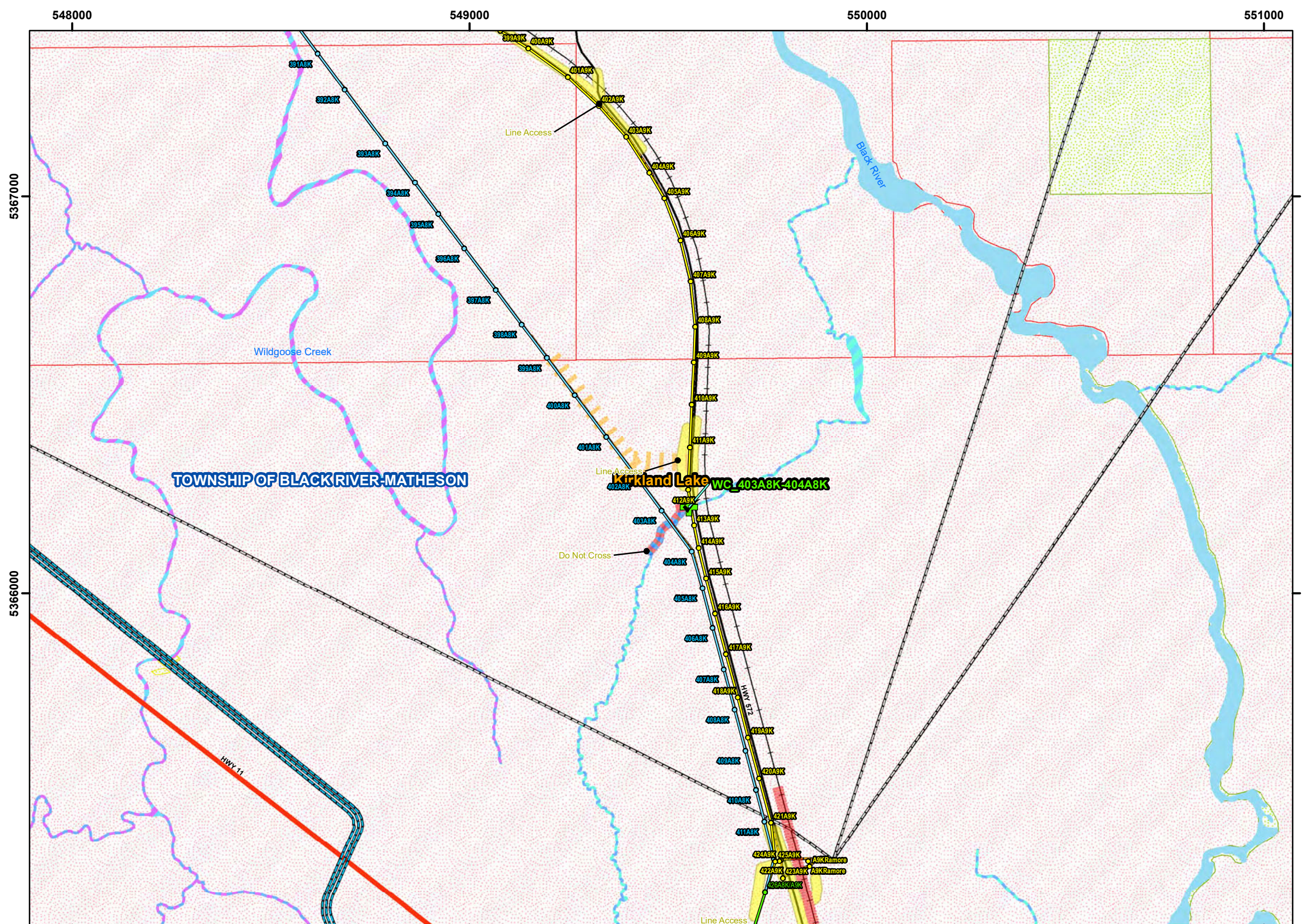
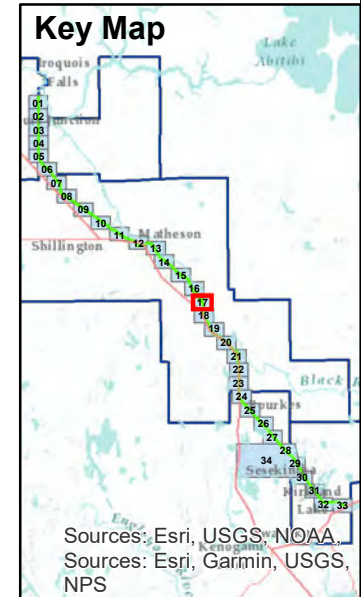
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User Name: Kelly.Major

A8K & A9K TRANSMISSION LINE REFURBISHMENT ANSONVILLE TS TO KIRKLAND LAKE TS

GENERAL MAP
Second Draft

Legend

- Crossing Required
- Crossing Existing Bridge
- No Crossing Required
- Line Access
- Line Access Bypass
- Watercourse (May Cross)
- Watercourse (Do Not Cross)
- Rail Crossings
- Pipeline Crossing
- Transmission Line Crossing
- Highway Crossing (Significant)
- Required Work (Matting)
- Wellland
- Possible Yard Location
- Communication Line
- Hydro Line
- Natural Gas Pipeline
- Unknown Transmission Line
- Water Pipeline
- ORWN Rail Track
- Municipality
- First Nation Reserve
- MNR District
- Existing Roads**
- Highway
- Local
- Recreational
- Other (Paved)
- Other (Gravel)
- Other (Unsurfaced)
- Forbes Notes**
- Cool (with ARA Data)
 - Cold (with ARA Data)
 - Unknown (with ARA Data)
 - Unknown (no ARA Data)
 - Crown Land Unpatented
 - Crown Land Non-freehold Disposition
 - Patent Land



Coordinate System: NAD 1983 UTM Zone 17N

Map Number: **17**
PROJECT: 211020

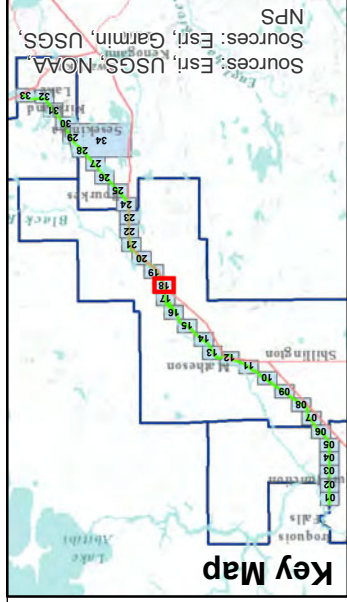
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**A8K & A9K TRANSMISSION
LINE REFURBISHMENT
ANSONVILLE TS TO KIRKLAND LAKE TS**

GENERAL MAP
Second Draft

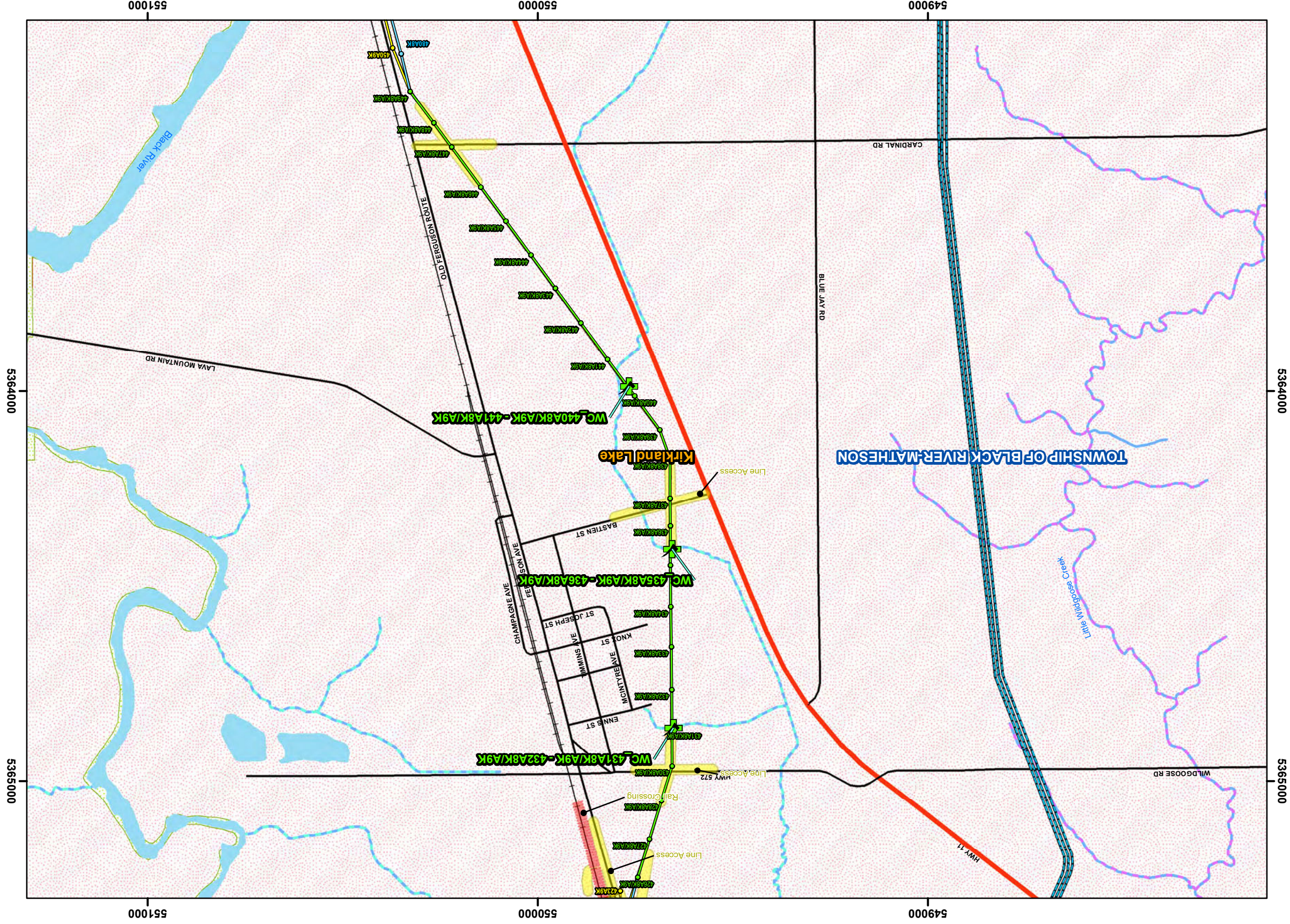
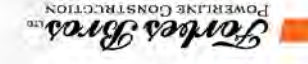
- Legend**
- Municipality
 - First Nation Reserve
 - MNRF District
 - Existing Roads
 - Highway
 - No Crossing Required
 - Crossing Existing Bridge
 - Crossing Required
 - HONI Lines
 - Local
 - Recreational
 - Other (Paved)
 - A8K/A9K
 - Other (Unsurfaced)
 - Forbes Notes
 - Line Access
 - Line Access Bypass
 - Cold (with ARA Data)
 - Cold (with ARA Data)
 - Watercourse (May Cross)
 - Watercourse (Do Not Cross)
 - Unknown (with ARA Data)
 - Unknown (no ARA Data)
 - Crown Land Unpatented
 - Pipeline Crossing
 - Transmission Line Crossing
 - Highway Crossing (Significant)
 - Waterbody & Thermal Regime
 - Coil (with ARA Data)
 - Line Access Bypass
 - Watercourse (May Cross)
 - Watercourse (Do Not Cross)
 - Unknown (with ARA Data)
 - Unknown (no ARA Data)
 - Crown Land Unpatented
 - Crown Land Non-threshold Disposition
 - Patent Land
 - Utility Lines
 - Required Work (Mating)
 - Wetland
 - Possible Yard Location
 - Communication Line
 - Hydro Line
 - Natural Gas Pipeline
 - Unknown Transmission Line
 - Water Pipeline
 - ORMN Rail Track



Map Number: 18

DATE: 28/01/2021

SCALE: 1:10,400



0 500 1,000 2,000 Meters

Coordinate System: NAD 1983 UTM Zone 17N

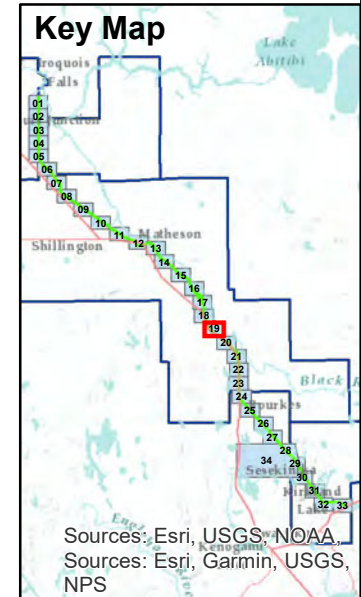
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User Name: Kelly.Major

A8K & A9K TRANSMISSION LINE REFURBISHMENT ANSONVILLE TS TO KIRKLAND LAKE TS

GENERAL MAP
Second Draft

Legend

- | | | | |
|----------------------|--------------------------------|---------------------------------------|-------------------------------------|
| | Crossing Required | | Municipality |
| | Crossing Existing Bridge | | First Nation Reserve |
| | No Crossing Required | | MNR District |
| HONI Lines | | Existing Roads | |
| | A8K | | Highway |
| | A8K/A9K | | Local |
| | A9K | | Recreational |
| Forbes Notes | | | Other (Paved) |
| | Line Access | | Other (Gravel) |
| | Line Access Bypass | | Other (Unsurfaced) |
| | Watercourse (May Cross) | Waterbody & Thermal Regime | |
| | Watercourse (Do Not Cross) | | Cool (with ARA Data) |
| | Rail Crossings | | Cold (with ARA Data) |
| | Pipeline Crossing | | Unknown (with ARA Data) |
| | Transmission Line Crossing | | Unknown (no ARA Data) |
| | Highway Crossing (Significant) | | Crown Land Unpatented |
| | Required Work (Matting) | | Crown Land Non-freehold Disposition |
| | Wellland | | Patent Land |
| | Possible Yard Location | Utility Lines | |
| Utility Lines | | | Communication Line |
| | Communication Line | | Hydro Line |
| | Hydro Line | | Natural Gas Pipeline |
| | Natural Gas Pipeline | | Unknown Transmission Line |
| | Unknown Transmission Line | | Water Pipeline |
| | Water Pipeline | | ORWN Rail Track |
| | ORWN Rail Track | | |

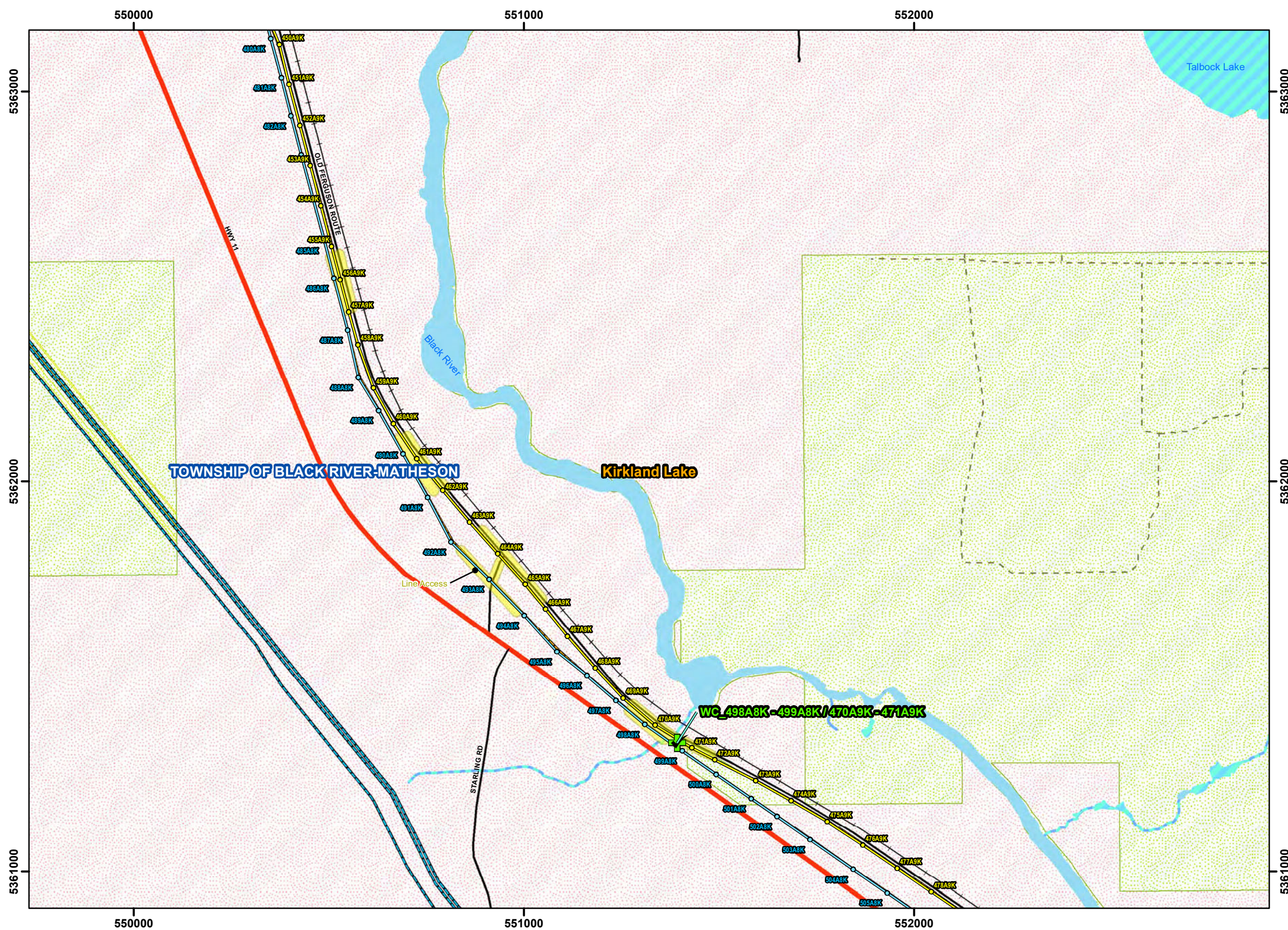


Map Number: 19

PROJECT: 211020

DATE: 28/01/2021

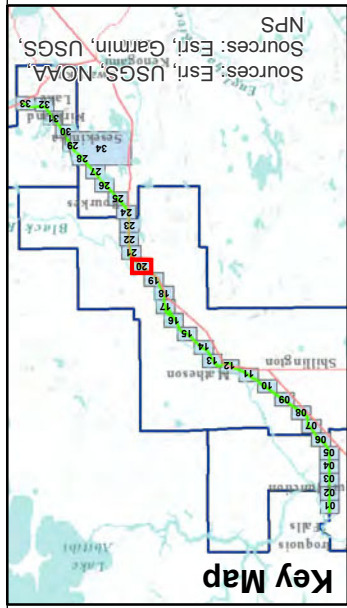
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Coordinate System: NAD 1983 UTM Zone 17N

**A8K & A9K TRANSMISSION
LINE REFURBISHMENT
ANSONVILLE TS TO KIRKLAND LAKE TS**

GENERAL MAP
Second Draft

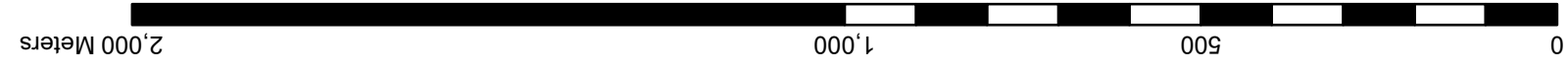
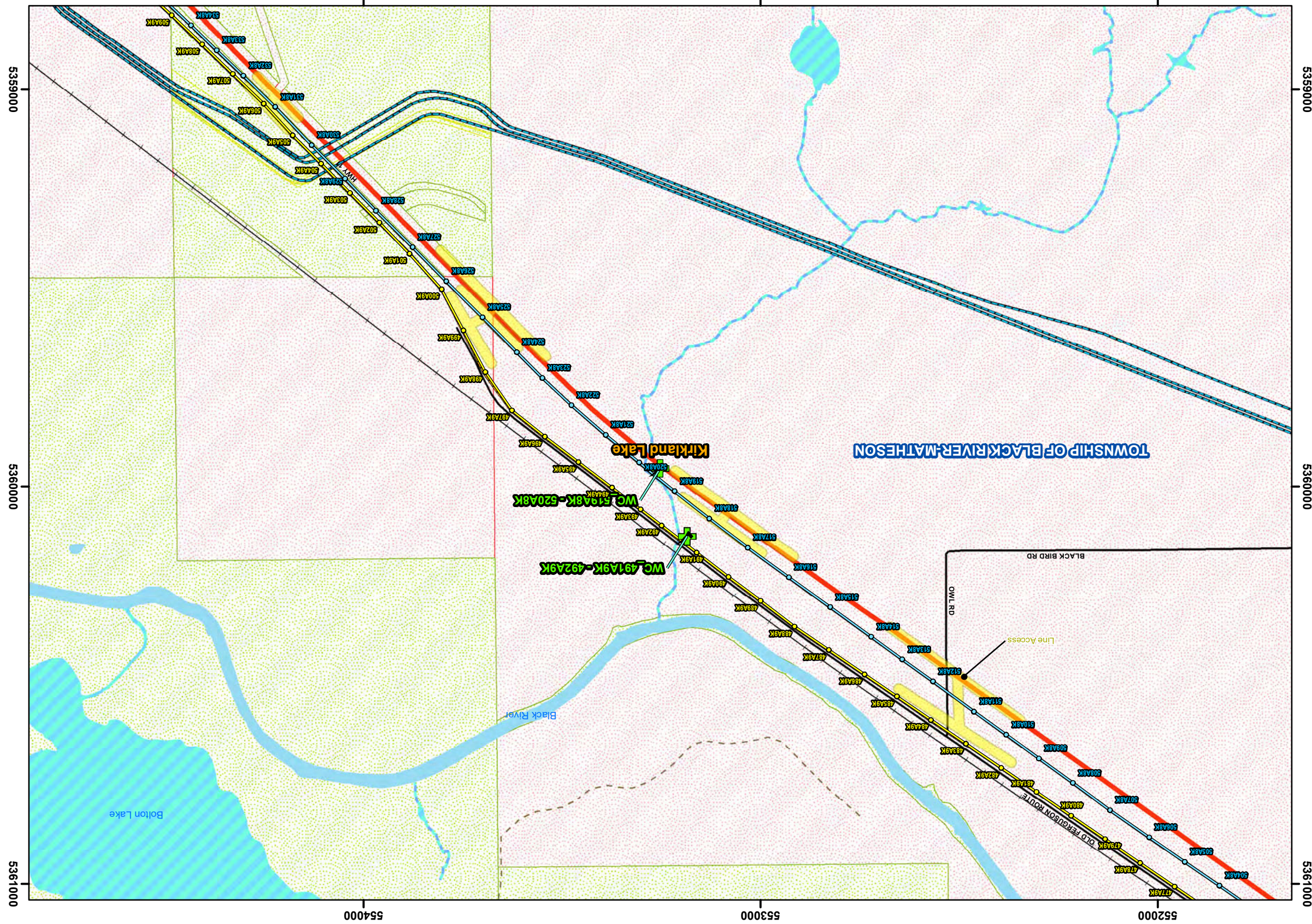


- Legend**
- Municipality
 - First Nation Reserve
 - MNR District
 - Existing Roads
 - Highway
 - Local
 - Recreational
 - Other (Paved)
 - Other (Gravel)
 - Other (Unsurfaced)
 - Waterbody & Thermal Regime
 - Cool (with ARA Data)
 - Cold (with ARA Data)
 - Line Access Bypass
 - Line Access
 - Watercourse (May Cross)
 - Watercourse (Do Not Cross)
 - Rail Crossings
 - Pipeline Crossing
 - Transmission Line Crossing
 - Highway Crossing (Significant)
 - Required Work (Matting)
 - Wetland
 - Possible Yard Location
 - Utility Lines
 - Communication Line
 - Hydro Line
 - Natural Gas Pipeline
 - Unknown Transmission Line
 - Water Pipeline
 - ORMN Rail Track

Map Number: 20
PROJECT: 211020
DATE: 28/01/2021
SCALE: 1:10,400

TULLOCH ENVIRONMENTAL

Forbes Bros POWERLINE CONSTRUCTION



Coordinate System: NAD 1983 UTM Zone 17N

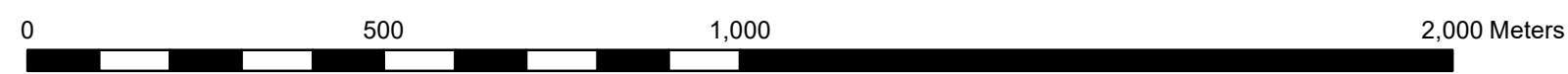
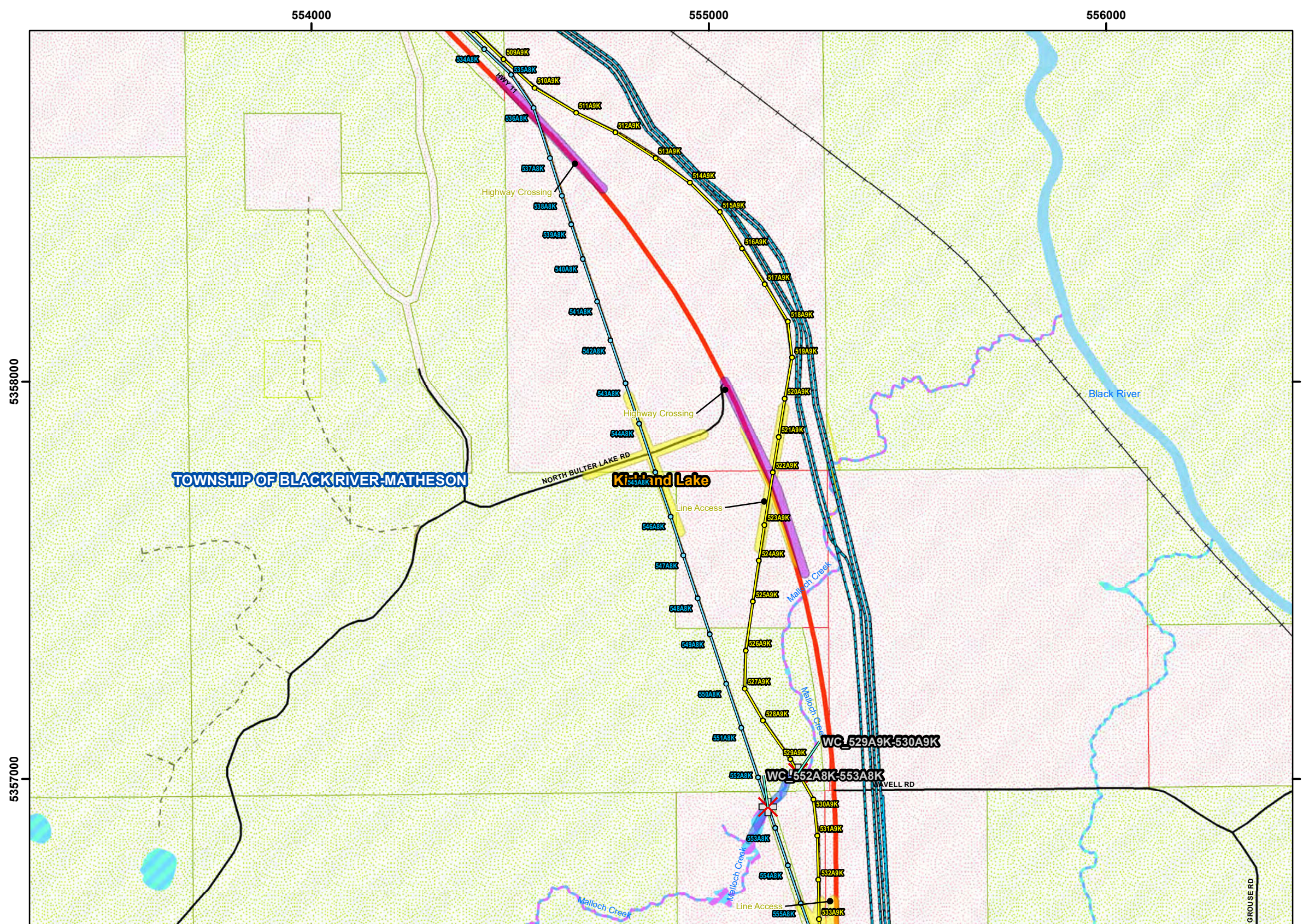
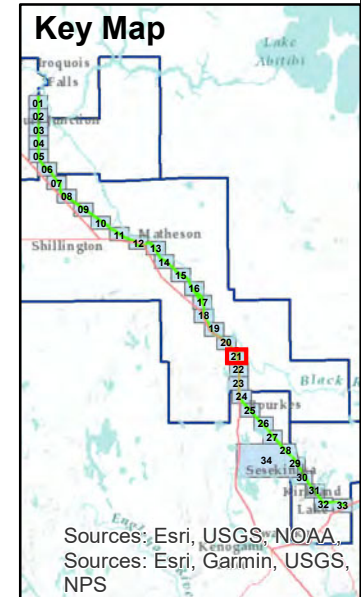
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User Name: Kelly.Major

A8K & A9K TRANSMISSION LINE REFURBISHMENT ANSONVILLE TS TO KIRKLAND LAKE TS

GENERAL MAP
Second Draft

Legend

- | | | | |
|---------------------|--------------------------------|---------------------------------------|-------------------------------------|
| | Crossing Required | | Municipality |
| | Crossing Existing Bridge | | First Nation Reserve |
| | No Crossing Required | | MNR District |
| HONI Lines | | Existing Roads | |
| | A8K | | Highway |
| | A8K/A9K | | Local |
| | A9K | | Recreational |
| Forbes Notes | | | Other (Paved) |
| | Line Access | | Other (Gravel) |
| | Line Access Bypass | | Other (Unsurfaced) |
| | Watercourse (May Cross) | Waterbody & Thermal Regime | |
| | Watercourse (Do Not Cross) | | Cool (with ARA Data) |
| | Rail Crossings | | Cold (with ARA Data) |
| | Pipeline Crossing | | Unknown (with ARA Data) |
| | Transmission Line Crossing | | Unknown (no ARA Data) |
| | Highway Crossing (Significant) | | Crown Land Unpatented |
| | Required Work (Matting) | | Crown Land Non-freehold Disposition |
| | Wellland | | Patent Land |
| | Possible Yard Location | Utility Lines | |
| | Communication Line | | Communication Line |
| | Hydro Line | | Hydro Line |
| | Natural Gas Pipeline | | Natural Gas Pipeline |
| | Unknown Transmission Line | | Unknown Transmission Line |
| | Water Pipeline | | Water Pipeline |
| | ORWN Rail Track | | ORWN Rail Track |



Coordinate System: NAD 1983 UTM Zone 17N

Map Number: **21**
PROJECT: 211020
DATE: 28/01/2021
SCALE: 1:10,400



**A8K & A9K TRANSMISSION
LINE REFURBISHMENT
ANSONVILLE TS TO KIRKLAND LAKE TS**

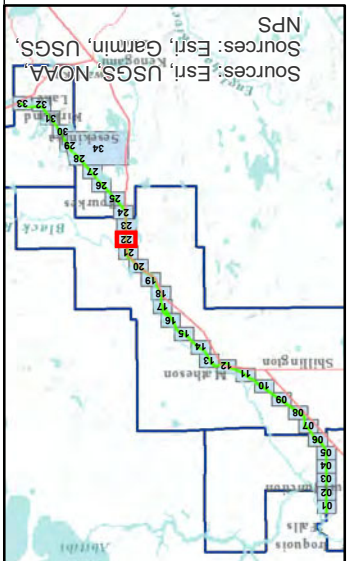
GENERAL MAP
Second Draft

DRAFT

Legend

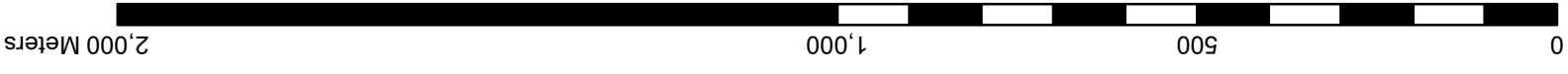
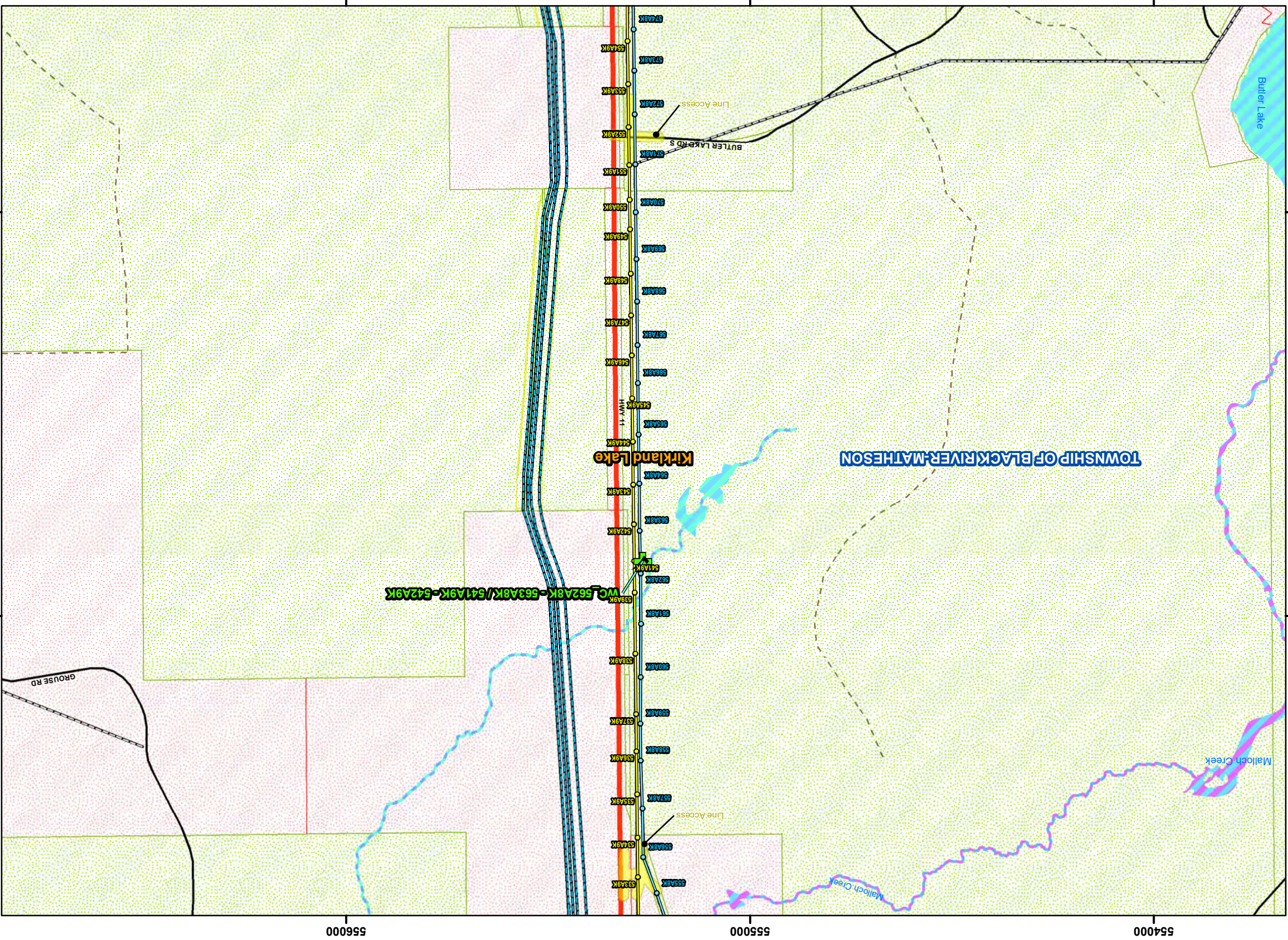
- Crossing Required
- Crossing Existing Bridge
- No Crossing Required
- Municipality
- MNR District
- Existing Roads
- Highway
- Local
- Recreational
- Other (Paved)
- Other (Gravel)
- Other (Unsurfaced)
- A9K
- A8K/A9K
- A8K
- Waterbody & Thermal Regime
- Line Access
- Line Access Bypass
- Cold (with ARA Data)
- Cool (with ARA Data)
- Watercourse (May Cross)
- Watercourse (Do Not Cross)
- Unknown (with ARA Data)
- Unknown (no ARA Data)
- Crown Land Unpatented
- Pipeline Crossing
- Rail Crossings
- Transmission Line Crossing
- Highway Crossing (Significant)
- Required Work (Matting)
- Wetland
- Possible Yard Location
- Utility Lines
- Communication Line
- Hydro Line
- Natural Gas Pipeline
- Unknown Transmission Line
- Water Pipeline
- ORWN Rail Track

Key Map



Map Number: 22
PROJECT: 211020

DATE: 28/01/2021
SCALE: 1:10,400



Coordinate System: NAD 1983 UTM Zone 17N

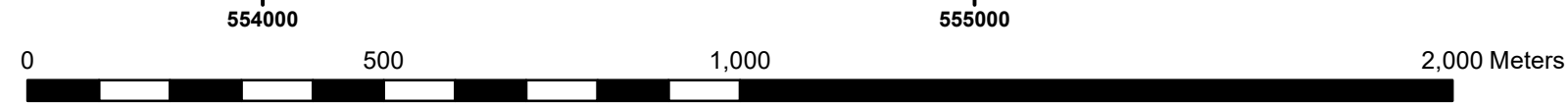
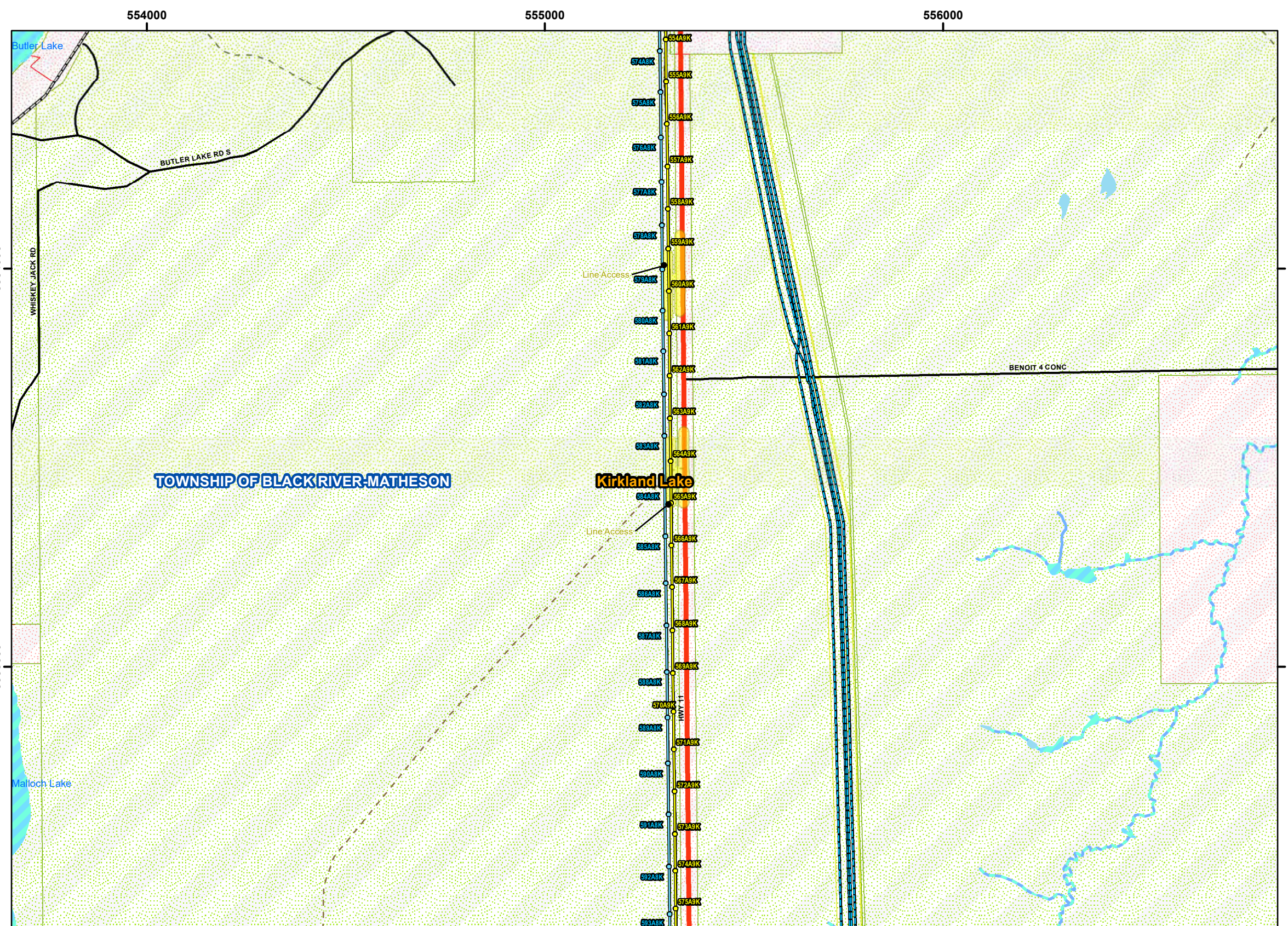
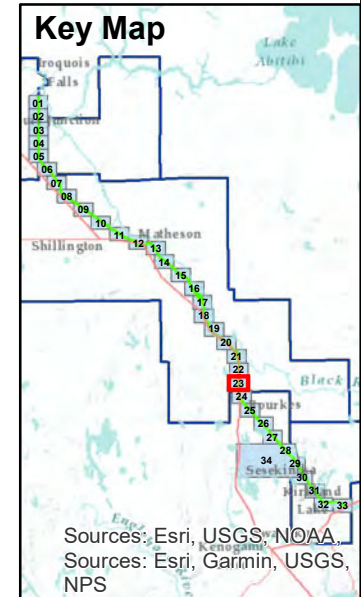
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User Name: Kelly.Major

A8K & A9K TRANSMISSION LINE REFURBISHMENT ANSONVILLE TS TO KIRKLAND LAKE TS

GENERAL MAP
Second Draft

Legend

- | | | | |
|---------------------|--------------------------------|---------------------------------------|-------------------------------------|
| | Crossing Required | | Municipality |
| | Crossing Existing Bridge | | First Nation Reserve |
| | No Crossing Required | | MNR District |
| HONI Lines | | Existing Roads | |
| | A8K | | Highway |
| | A8K/A9K | | Local |
| | A9K | | Recreational |
| Forbes Notes | | | Other (Paved) |
| | Line Access | | Other (Gravel) |
| | Line Access Bypass | | Other (Unsurfaced) |
| | Watercourse (May Cross) | Waterbody & Thermal Regime | |
| | Watercourse (Do Not Cross) | | Cool (with ARA Data) |
| | Rail Crossings | | Cold (with ARA Data) |
| | Pipeline Crossing | | Unknown (with ARA Data) |
| | Transmission Line Crossing | | Unknown (no ARA Data) |
| | Highway Crossing (Significant) | | Crown Land Unpatented |
| | Required Work (Matting) | | Crown Land Non-freehold Disposition |
| | Welland | | Patent Land |
| | Possible Yard Location | Utility Lines | |
| | Communication Line | | Communication Line |
| | Hydro Line | | Hydro Line |
| | Natural Gas Pipeline | | Natural Gas Pipeline |
| | Unknown Transmission Line | | Unknown Transmission Line |
| | Water Pipeline | | Water Pipeline |
| | ORWN Rail Track | | ORWN Rail Track |



Coordinate System: NAD 1983 UTM Zone 17N

Document Path: J:\2021 Projects\Environmental\211020-FBL_HONI-A8K A9K\5_Maps\2_Map Project Files\211020 - HONI A8K-A9K - 01 General Map v0-4 - 28 Jan2021.mxd
User Name: Kelly.Major

Map Number: **23**
PROJECT: 211020

DATE: 28/01/2021
SCALE: 1:10,400



**A8K & A9K TRANSMISSION
LINE REFURBISHMENT
ANSONVILLE TS TO KIRKLAND LAKE TS**

GENERAL MAP
Second Draft

DRAFT

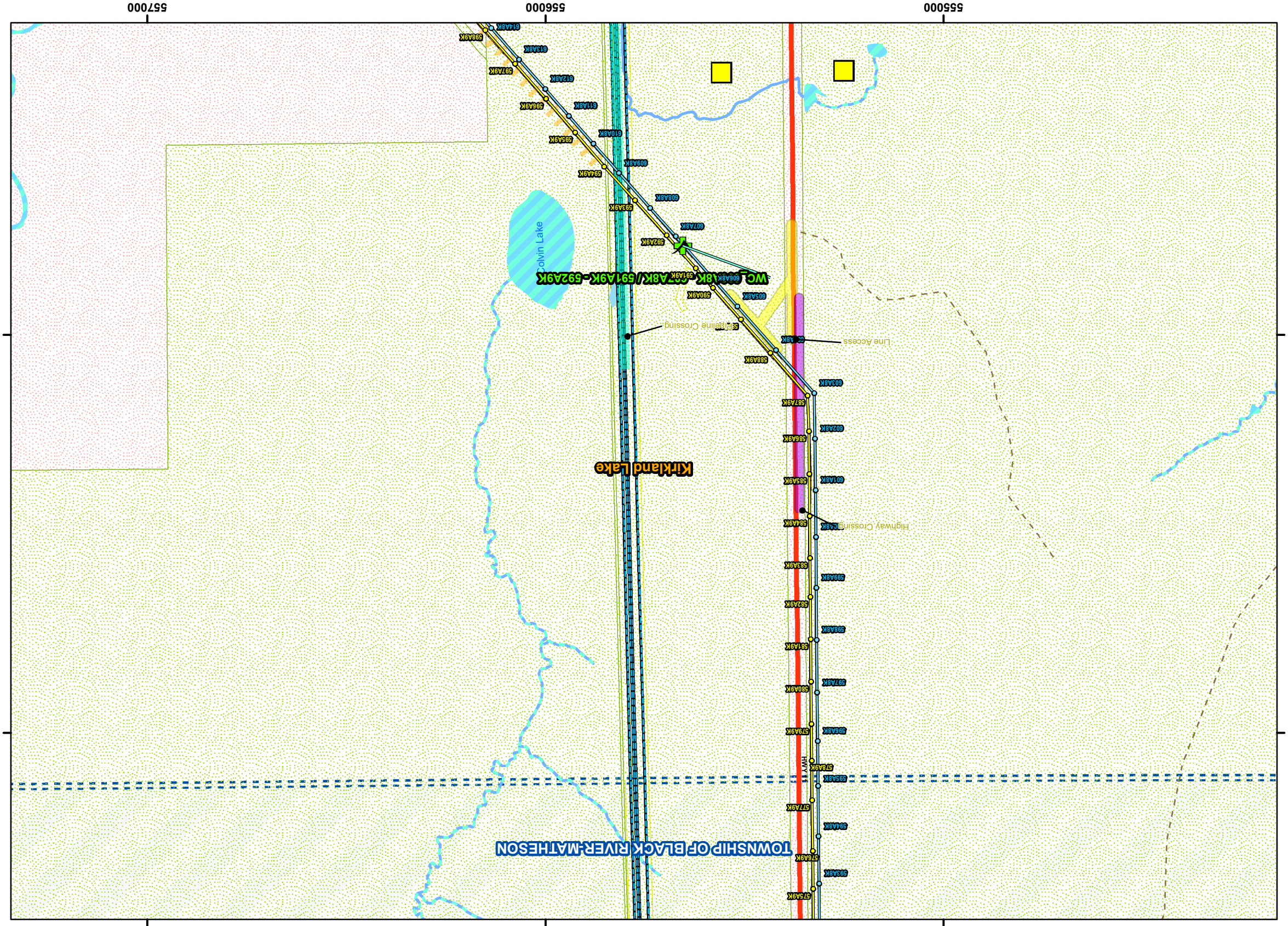
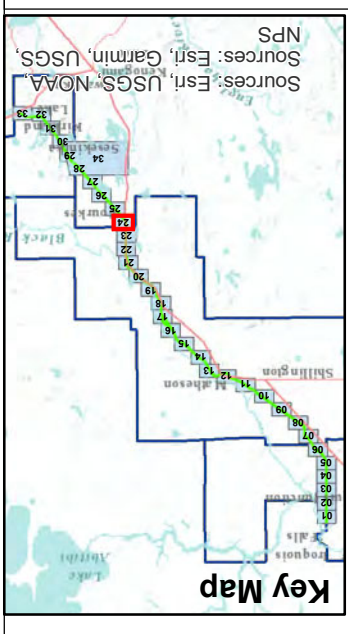
Legend

- Crossing Required
- Crossing Existing Bridge
- No Crossing Required
- Municipality
- MNR District
- First Nation Reserve
- Highway
- Local
- Recreational
- Other (Paved)
- Other (Gravel)
- Other (Unsurfaced)
- A8K
- A8K/A9K
- A9K
- Watercourse (May Cross)
- Watercourse (Do Not Cross)
- Watercourse (with ARA Data)
- Watercourse (no ARA Data)
- Crown Land Unpatented
- Crown Land Non-treethold Disposition
- Patent Land
- Rail Crossings
- Pipeline Crossing
- Pipeline Crossing (Significant)
- Highway Crossing (Significant)
- Required Work (Matting)
- Wetland
- Possible Yard Location
- Communication Line
- Hydro Line
- Natural Gas Pipeline
- Unknown Transmission Line
- Water Pipeline
- ORWN Rail Track

- Forbes Notes**
- Line Access
 - Line Access Bypass
 - Cool (with ARA Data)
 - Cold (with ARA Data)
 - Waterbody & Thermal Regime

- Utility Lines**
- Communication Line
 - Hydro Line
 - Natural Gas Pipeline
 - Unknown Transmission Line
 - Water Pipeline
 - ORWN Rail Track

Map Number: 24
PROJECT: 211020
DATE: 28/01/2021
SCALE: 1:10,400



Coordinate System: NAD 1983 UTM Zone 17N

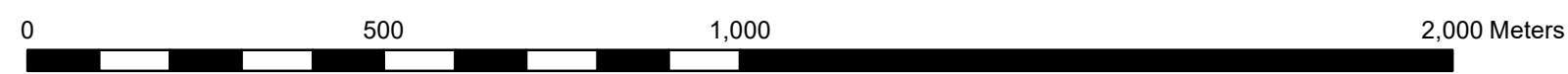
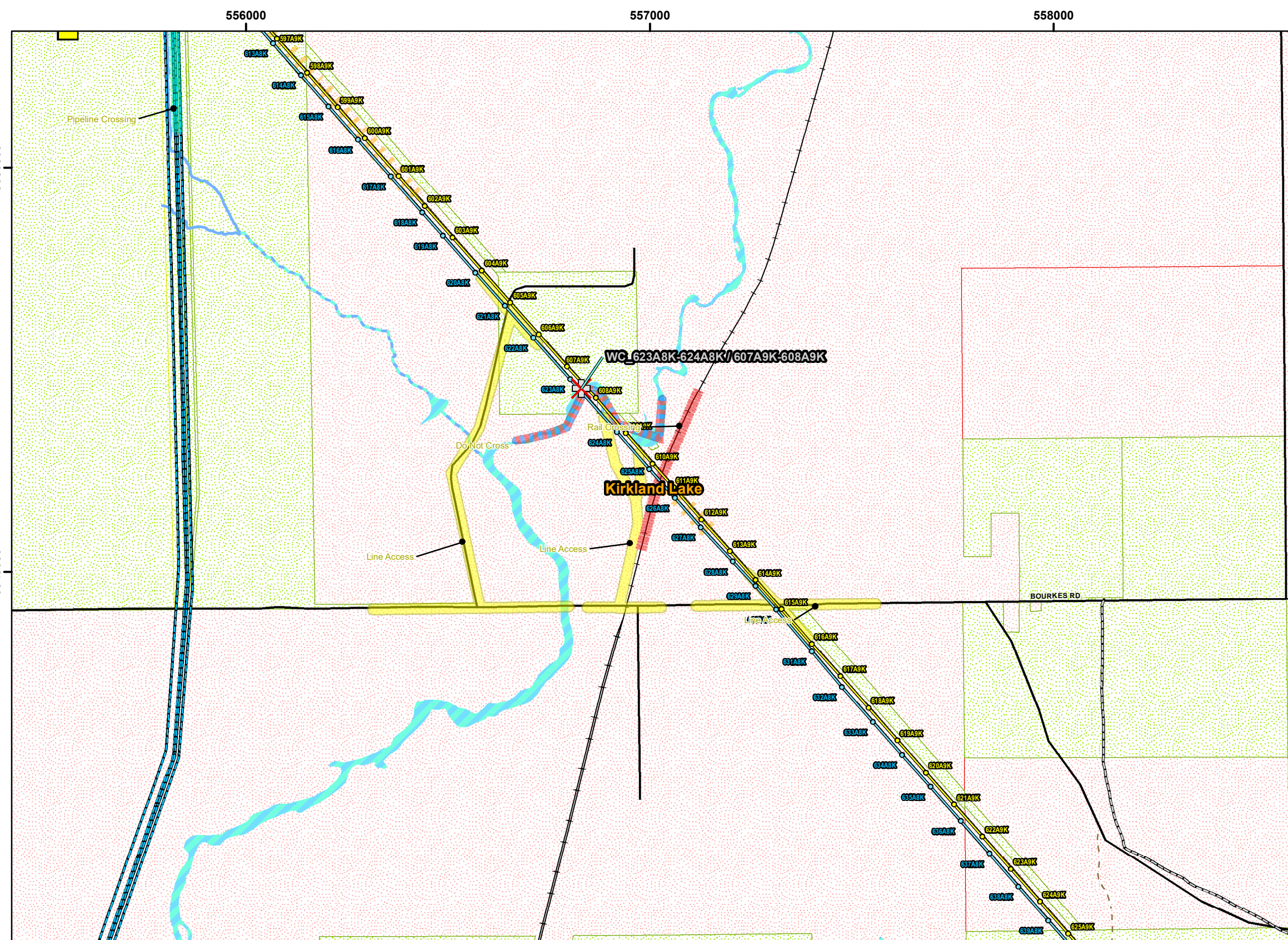
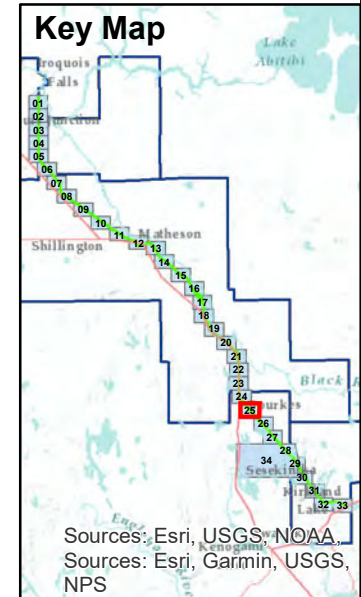
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User Name: Kelly.Major

A8K & A9K TRANSMISSION LINE REFURBISHMENT ANSONVILLE TS TO KIRKLAND LAKE TS

GENERAL MAP
Second Draft

Legend

- | | | | |
|----------------------|--------------------------------|---------------------------------------|-------------------------------------|
| | Crossing Required | | Municipality |
| | Crossing Existing Bridge | | First Nation Reserve |
| | No Crossing Required | | MNR District |
| HONI Lines | | Existing Roads | |
| | A8K | | Highway |
| | A8K/A9K | | Local |
| | A9K | | Recreational |
| Forbes Notes | | | Other (Paved) |
| | Line Access | | Other (Gravel) |
| | Line Access Bypass | | Other (Unsurfaced) |
| | Watercourse (May Cross) | Waterbody & Thermal Regime | |
| | Watercourse (Do Not Cross) | | Cool (with ARA Data) |
| | Rail Crossings | | Cold (with ARA Data) |
| | Pipeline Crossing | | Unknown (with ARA Data) |
| | Transmission Line Crossing | | Unknown (no ARA Data) |
| | Highway Crossing (Significant) | | Crown Land Unpatented |
| | Required Work (Matting) | | Crown Land Non-freehold Disposition |
| | Wellland | | Patent Land |
| | Possible Yard Location | Utility Lines | |
| Utility Lines | | | Communication Line |
| | Hydro Line | | Natural Gas Pipeline |
| | Unknown Transmission Line | | Water Pipeline |
| | ORWN Rail Track | | ORWN Rail Track |



Coordinate System: NAD 1983 UTM Zone 17N

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User Name: Kelly.Major

Map Number: **25**
PROJECT: 211020

DATE: 28/01/2021
SCALE: 1:10,400



**A8K & A9K TRANSMISSION
LINE REFURBISHMENT
ANSONVILLE TS TO KIRKLAND LAKE TS**

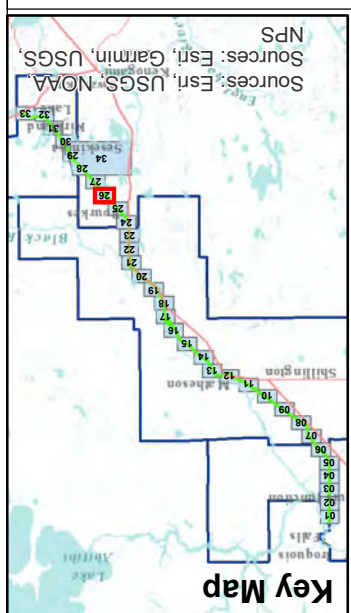
GENERAL MAP
Second Draft

DRAFT

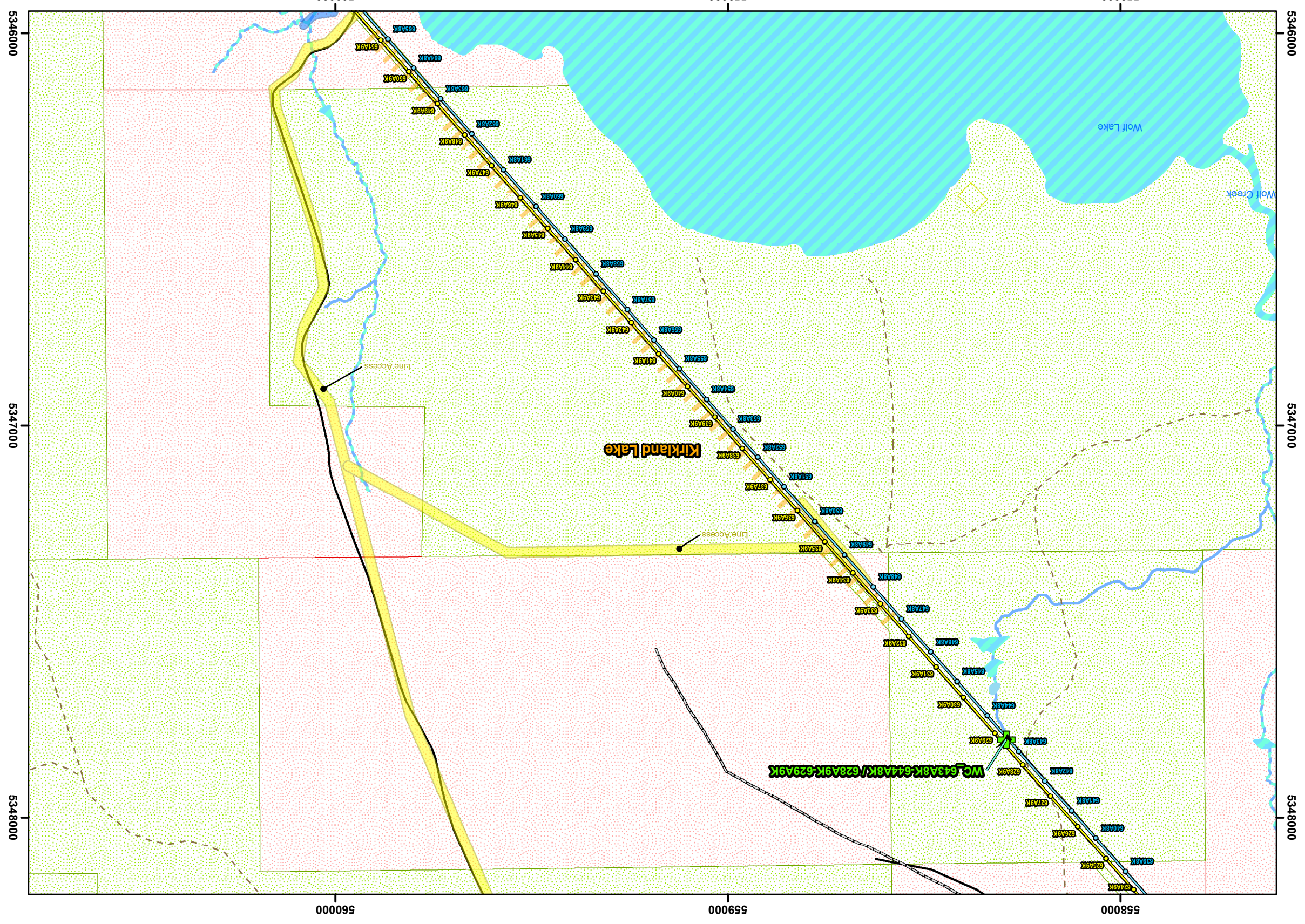
Legend

- Crossing Required
- Crossing Existing Bridge
- No Crossing Required
- Municipality
- MNR District
- Existing Roads
- Highway
- Local
- Recreational
- Other (Paved)
- Other (Gravel)
- Other (Unsurfaced)
- Waterbody & Thermal Regime
- Cool (with ARA Data)
- Cold (with ARA Data)
- Line Access Bypass
- Line Access (with ARA Data)
- Watercourse (May Cross)
- Watercourse (Do Not Cross)
- Unknown (with ARA Data)
- Unknown (no ARA Data)
- Crown Land Unpatented
- Crown Land Non-threshold Disposition
- Patent Land
- Highway Crossing (Significant)
- Transmission Line Crossing
- Pipeline Crossing
- Rail Crossings
- Watercourse (Do Not Cross)
- Watercourse (May Cross)
- Unknown (with ARA Data)
- Unknown (no ARA Data)
- Crown Land Unpatented
- Crown Land Non-threshold Disposition
- Patent Land

- Possible Yard Location
- Wetland
- Required Work (Mating)
- Utility Lines
- Communication Line
- Hydro Line
- Natural Gas Pipeline
- Unknown Transmission Line
- Water Pipeline
- ORWN Rail Track



Map Number: 26
PROJECT: 211020
DATE: 28/01/2021
SCALE: 1:10,400



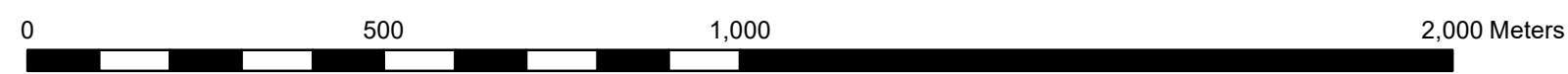
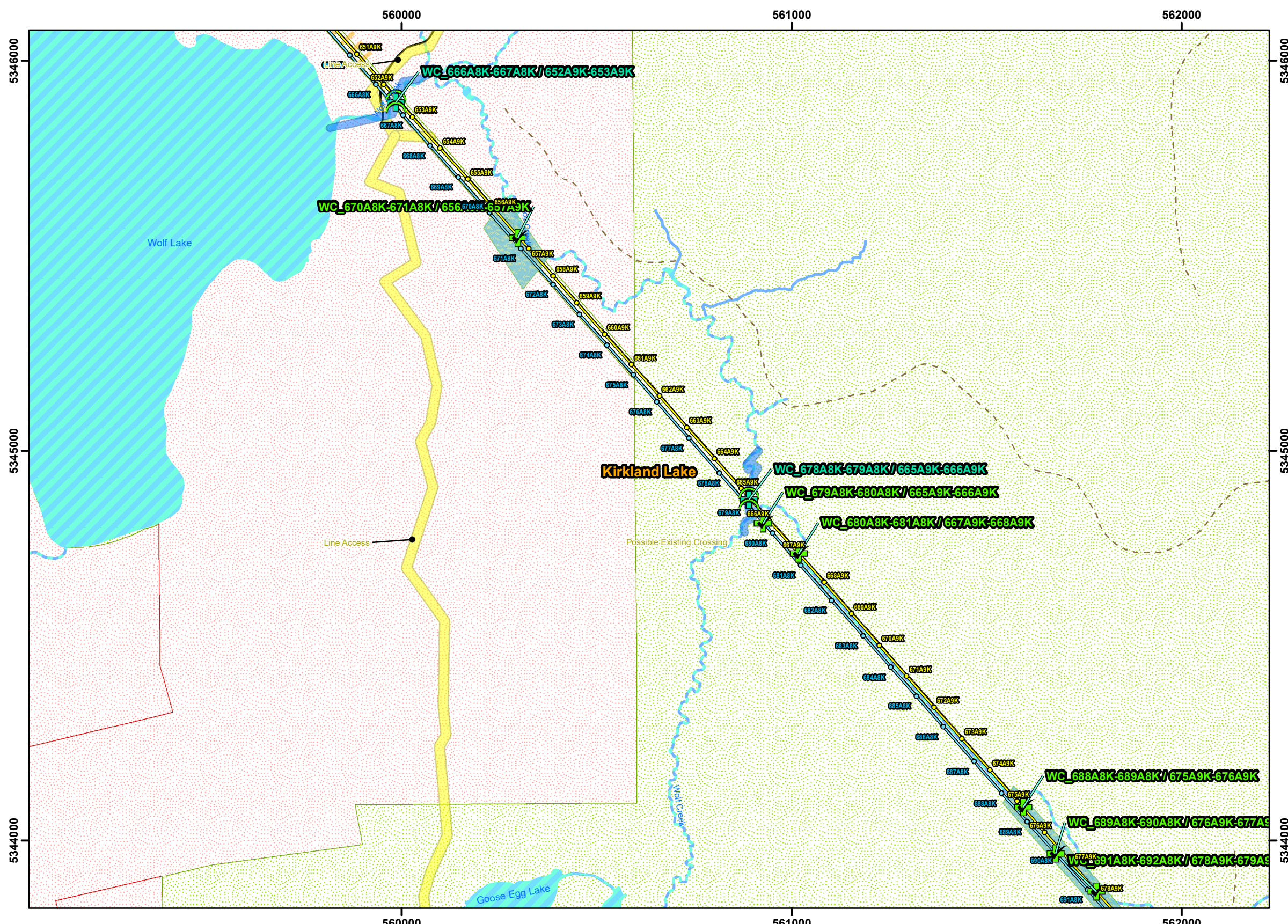
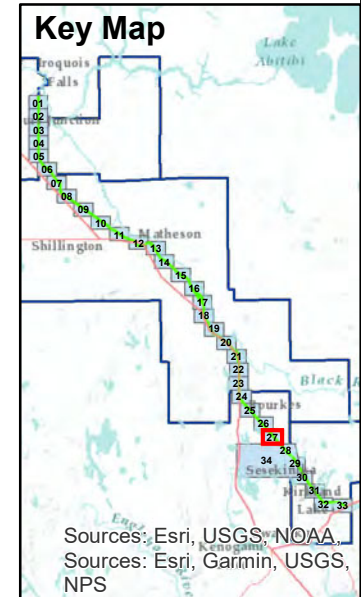
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User Name: Kelly.Major

A8K & A9K TRANSMISSION LINE REFURBISHMENT ANSONVILLE TS TO KIRKLAND LAKE TS

GENERAL MAP
Second Draft

Legend

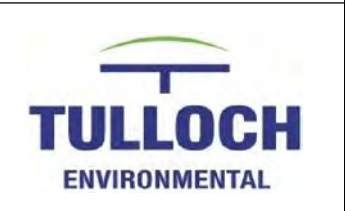
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|---------------------|--------------------------------|---------------------------------------|-------------------------------------|
| | Crossing Required | | Municipality |
| | Crossing Existing Bridge | | First Nation Reserve |
| | No Crossing Required | | MNR District |
| HONI Lines | | Existing Roads | |
| | A8K | | Highway |
| | A8K/A9K | | Local |
| | A9K | | Recreational |
| Forbes Notes | | | Other (Paved) |
| | Line Access | | Other (Gravel) |
| | Line Access Bypass | | Other (Unsurfaced) |
| | Watercourse (May Cross) | Waterbody & Thermal Regime | |
| | Watercourse (Do Not Cross) | | Cool (with ARA Data) |
| | Rail Crossings | | Cold (with ARA Data) |
| | Pipeline Crossing | | Unknown (with ARA Data) |
| | Transmission Line Crossing | | Unknown (no ARA Data) |
| | Highway Crossing (Significant) | | Crown Land Unpatented |
| | Required Work (Matting) | | Crown Land Non-freehold Disposition |
| | Wellland | | Patent Land |
| | Possible Yard Location | Utility Lines | |
| | Communication Line | | Communication Line |
| | Hydro Line | | Hydro Line |
| | Natural Gas Pipeline | | Natural Gas Pipeline |
| | Unknown Transmission Line | | Unknown Transmission Line |
| | Water Pipeline | | Water Pipeline |
| | ORWN Rail Track | | ORWN Rail Track |



Coordinate System: NAD 1983 UTM Zone 17N

Map Number: **27**
PROJECT: 211020

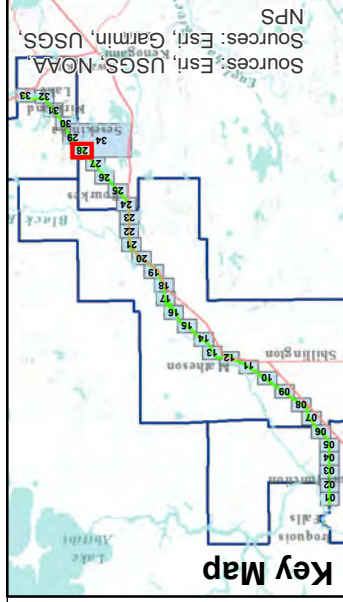
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**A8K & A9K TRANSMISSION
LINE REFURBISHMENT
ANSONVILLE TS TO KIRKLAND LAKE TS**

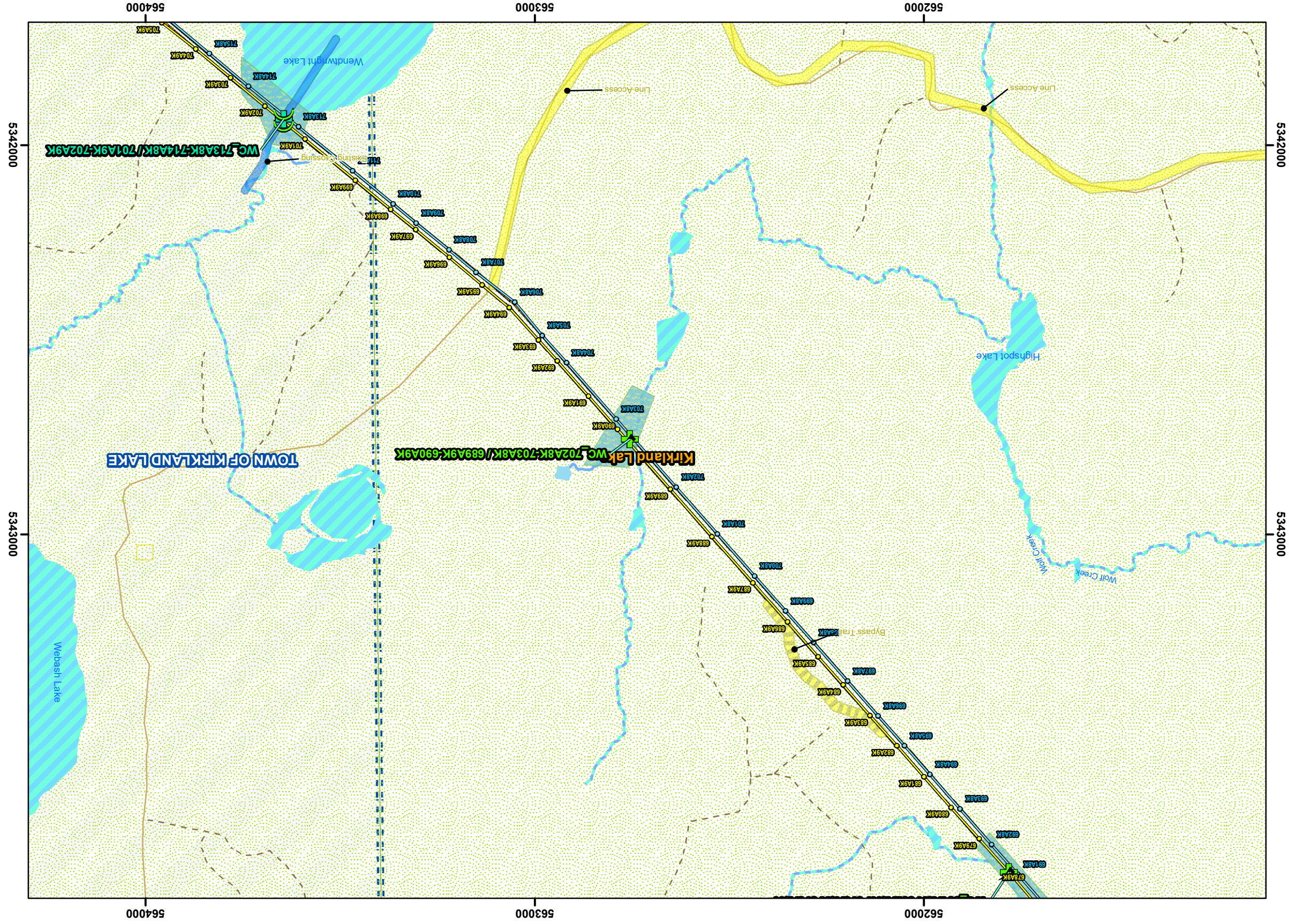
GENERAL MAP
Second Draft

- Legend**
- Crossing Required
 - Crossing Existing Bridge
 - No Crossing Required
 - Municipality
 - MNR District
 - Existing Roads
 - Highway
 - Local
 - Recreational
 - Other (Paved)
 - Other (Gravel)
 - Other (Unsurfaced)
 - Waterbody & Thermal Regime
 - Cool (with ARA Data)
 - Cold (with ARA Data)
 - Unknown (with ARA Data)
 - Unknown (no ARA Data)
 - Crown Land Unpatented
 - Pipeline Crossing
 - Rail Crossings
 - Watercourse (May Cross)
 - Watercourse (Do Not Cross)
 - Crown Land Non-treethold Disposition
 - Patent Land
 - Highway Crossing (Significant)
 - Required Work (Mating)
 - Wetland
 - Possible Yard Location
 - Utility Lines
 - Communication Line
 - Hydro Line
 - Natural Gas Pipeline
 - Unknown Transmission Line
 - Water Pipeline
 - ORWN Rail Track



Map Number: 28
PROJECT: 211020

DATE: 28/01/2021
SCALE: 1:10,400



Coordinate System: NAD 1983 UTM Zone 17N

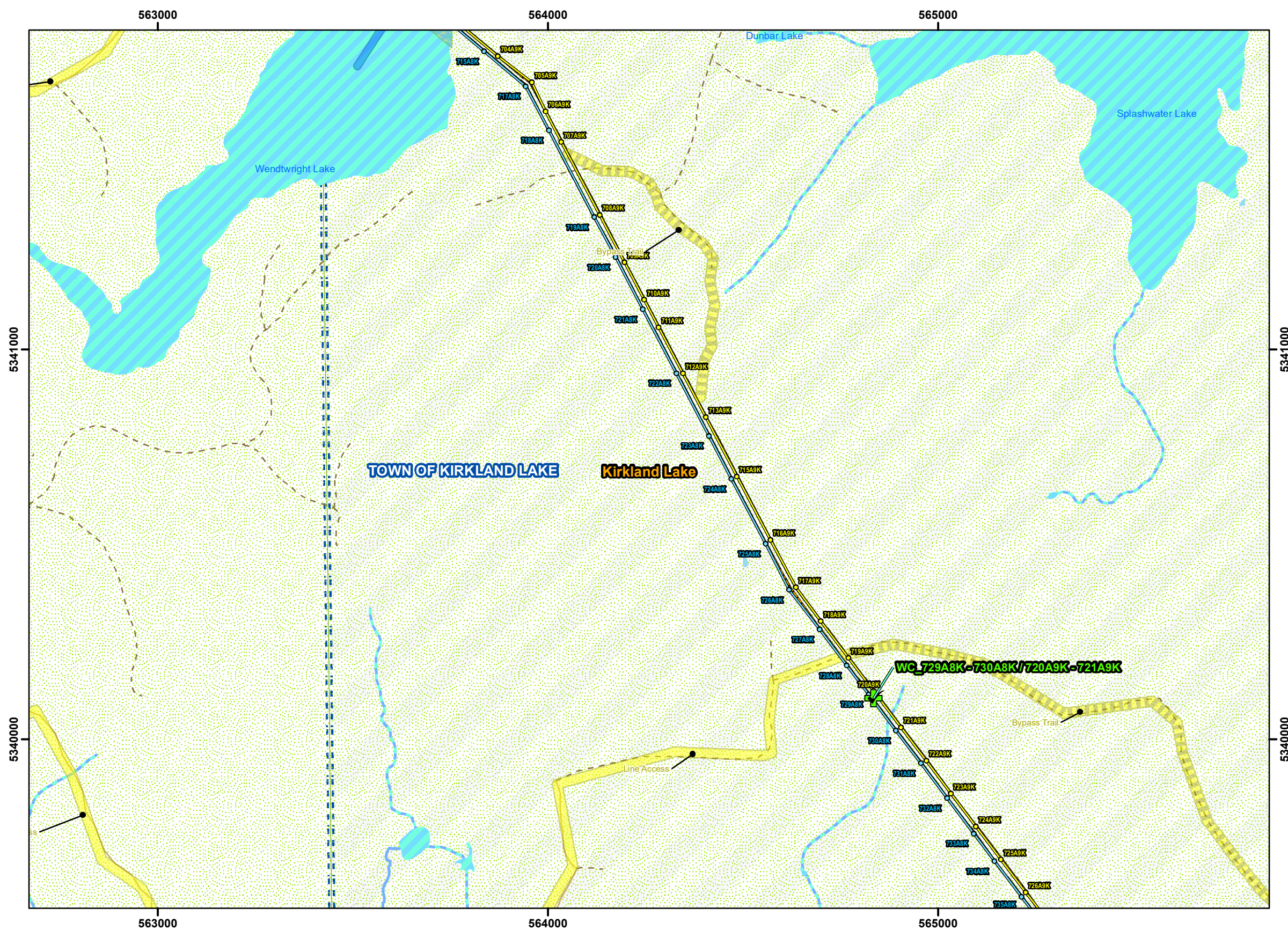
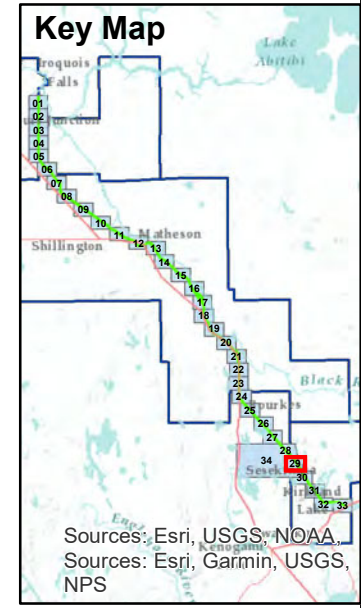
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User Name: Kelly.Major

A8K & A9K TRANSMISSION LINE REFURBISHMENT ANSONVILLE TS TO KIRKLAND LAKE TS

GENERAL MAP
Second Draft

Legend

- | | | | |
|----------------------|--------------------------------|---------------------------------------|-------------------------------------|
| | Crossing Required | | Municipality |
| | Crossing Existing Bridge | | First Nation Reserve |
| | No Crossing Required | | MNR District |
| HONI Lines | | Existing Roads | |
| | A8K | | Highway |
| | A8K/A9K | | Local |
| | A9K | | Recreational |
| Forbes Notes | | | Other (Paved) |
| | Line Access | | Other (Gravel) |
| | Line Access Bypass | | Other (Unsurfaced) |
| | Watercourse (May Cross) | Waterbody & Thermal Regime | |
| | Watercourse (Do Not Cross) | | Cool (with ARA Data) |
| | Rail Crossings | | Cold (with ARA Data) |
| | Pipeline Crossing | | Unknown (with ARA Data) |
| | Transmission Line Crossing | | Unknown (no ARA Data) |
| | Highway Crossing (Significant) | | Crown Land Unpatented |
| | Required Work (Matting) | | Crown Land Non-freehold Disposition |
| | Wellland | | Patent Land |
| | Possible Yard Location | Utility Lines | |
| Utility Lines | | | Communication Line |
| | Hydro Line | | Natural Gas Pipeline |
| | Unknown Transmission Line | | Water Pipeline |
| | ORWN Rail Track | | ORWN Rail Track |



Coordinate System: NAD 1983 UTM Zone 17N

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User Name: Kelly.Major

Map Number: **29**
PROJECT: 211020

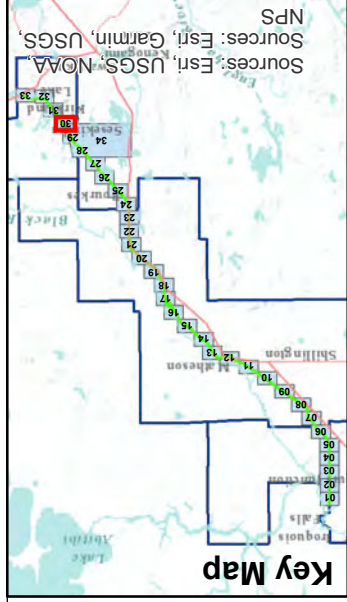
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**A8K & A9K TRANSMISSION
LINE REFURBISHMENT
ANSONVILLE TS TO KIRKLAND LAKE TS**

GENERAL MAP

Second Draft



- Legend**
- Municipality
 - First Nation Reserve
 - MNRF District
 - Existing Roads
 - Highway
 - Local
 - Recreational
 - Other (Paved)
 - A8K
 - A8K/A9K
 - A9K
 - Other (Unsurfaced)
- Forbes Notes**
- Waterbody & Thermal Regime
 - Cool (with ARA Data)
 - Cold (with ARA Data)
 - Line Access Bypass
 - Line Access
 - Watercourse (May Cross)
 - Watercourse (Do Not Cross)
 - Rail Crossings
 - Pipeline Crossing
 - Transmission Line Crossing
 - Highway Crossing (Significant)
 - Required Work (Mating)
 - Wetland
 - Possible Yard Location
- Utility Lines**
- Communication Line
 - Hydro Line
 - Natural Gas Pipeline
 - Unknown Transmission Line
 - Water Pipeline
 - ORWN Rail Track

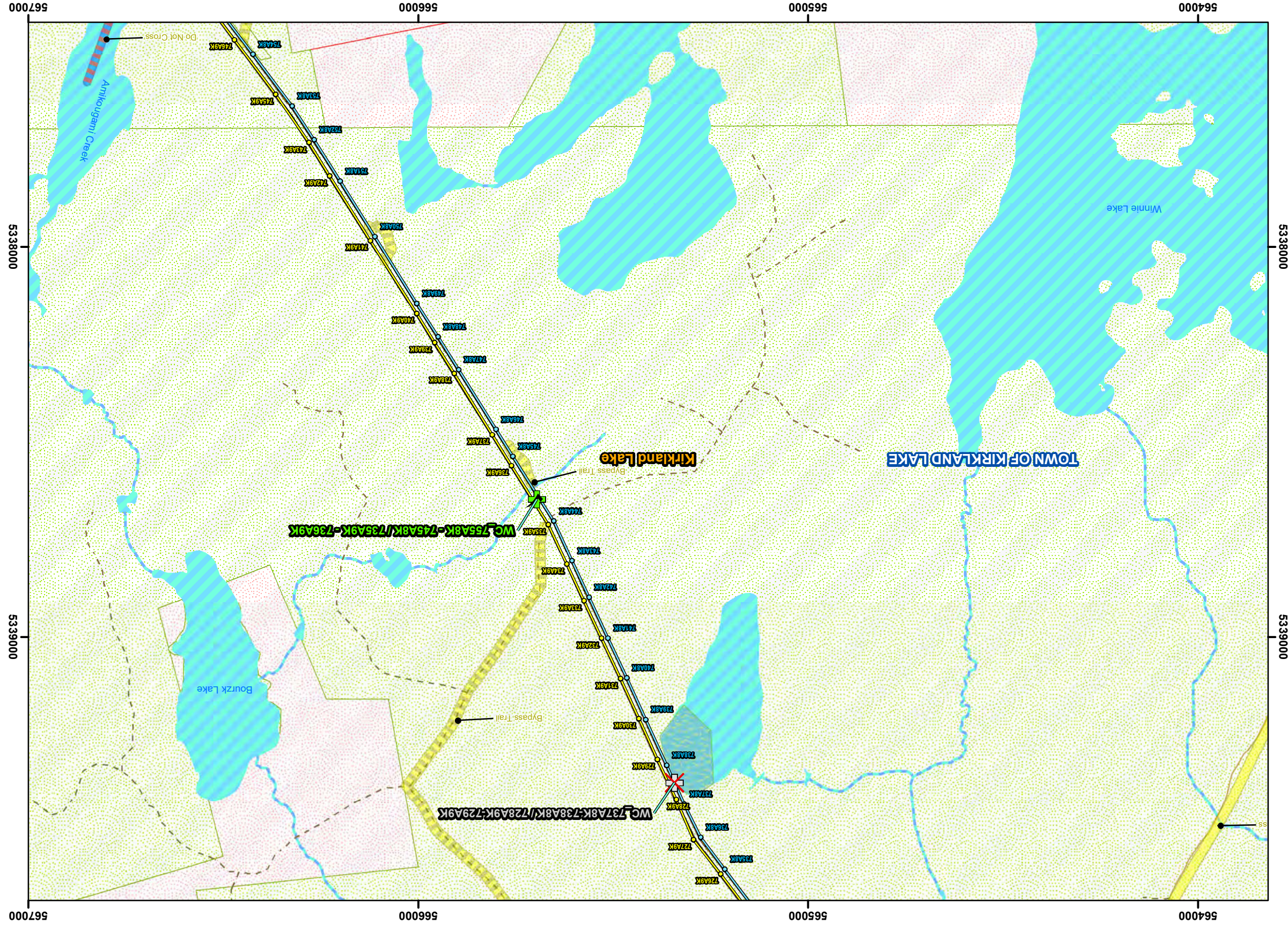


Map Number: 30

PROJECT: 211020

DATE: 28/01/2021

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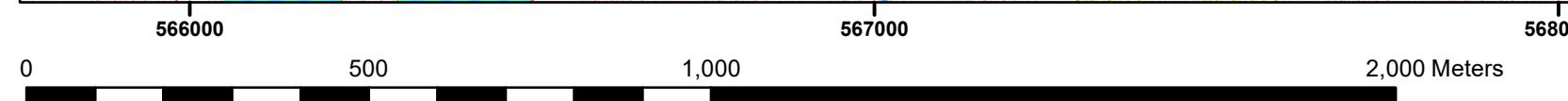
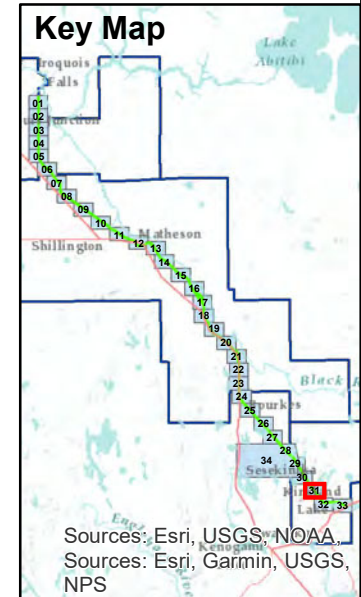


A8K & A9K TRANSMISSION LINE REFURBISHMENT ANSONVILLE TS TO KIRKLAND LAKE TS

GENERAL MAP
Second Draft

Legend

- | | | | |
|----------------------|--------------------------------|---------------------------------------|-------------------------------------|
| | Crossing Required | | Municipality |
| | Crossing Existing Bridge | | First Nation Reserve |
| | No Crossing Required | | MNR District |
| HONI Lines | | Existing Roads | |
| | A8K | | Highway |
| | A8K/A9K | | Local |
| | A9K | | Recreational |
| Forbes Notes | | | Other (Paved) |
| | Line Access | | Other (Gravel) |
| | Line Access Bypass | | Other (Unsurfaced) |
| | Watercourse (May Cross) | Waterbody & Thermal Regime | |
| | Watercourse (Do Not Cross) | | Cool (with ARA Data) |
| | Rail Crossings | | Cold (with ARA Data) |
| | Pipeline Crossing | | Unknown (with ARA Data) |
| | Transmission Line Crossing | | Unknown (no ARA Data) |
| | Highway Crossing (Significant) | | Crown Land Unpatented |
| | Required Work (Matting) | | Crown Land Non-freehold Disposition |
| | Wellland | | Patent Land |
| | Possible Yard Location | Utility Lines | |
| Utility Lines | | | Communication Line |
| | Hydro Line | | Natural Gas Pipeline |
| | Natural Gas Pipeline | | Unknown Transmission Line |
| | Unknown Transmission Line | | Water Pipeline |
| | Water Pipeline | | ORWN Rail Track |
| | ORWN Rail Track | | |



Coordinate System: NAD 1983 UTM Zone 17N

Document Path: J:\2021 Projects\Environmental\211020-FBL_HONI-A8K A9K\5_Maps\2_Map Project Files\211020 - HONI A8K-A9K - 01 General Map v0-4 - 28 Jan2021.mxd
User Name: Kelly.Major

Map Number: 31
PROJECT: 211020

DATE: 28/01/2021
SCALE: 1:10,400



**A8K & A9K TRANSMISSION
LINE REFURBISHMENT
ANSONVILLE TS TO KIRKLAND LAKE TS**

GENERAL MAP
Second Draft

DRAFT

- Legend**
- Crossing Required
 - Crossing Existing Bridge
 - No Crossing Required
 - Municipal
 - MNR District
 - Existing Roads
 - Highway
 - Local
 - Recreational
 - Other (Paved)
 - Other (Gravel)
 - Other (Unsurfaced)
 - A8K
 - A8K/A9K
 - A9K
 - Waterbody & Thermal Regime
 - Cool (with ARA Data)
 - Cold (with ARA Data)
 - Unknown (with ARA Data)
 - Unknown (no ARA Data)
 - Crown Land Unpatented
 - Crown Land Non-Threshold Disposition
 - Patent Land
 - Line Access
 - Line Access Bypass
 - Watercourse (May Cross)
 - Watercourse (Do Not Cross)
 - Rail Crossings
 - Pipeline Crossing
 - Pipeline Crossing
 - Transmission Line Crossing
 - Highway Crossing (Significant)
 - Required Work (Mating)
 - Wetland
 - Possible Yard Location

- Utility Lines**
- Communication Line
 - Hydro Line
 - Natural Gas Pipeline
 - Unknown Transmission Line
 - Water Pipeline
 - ORWN Rail Track

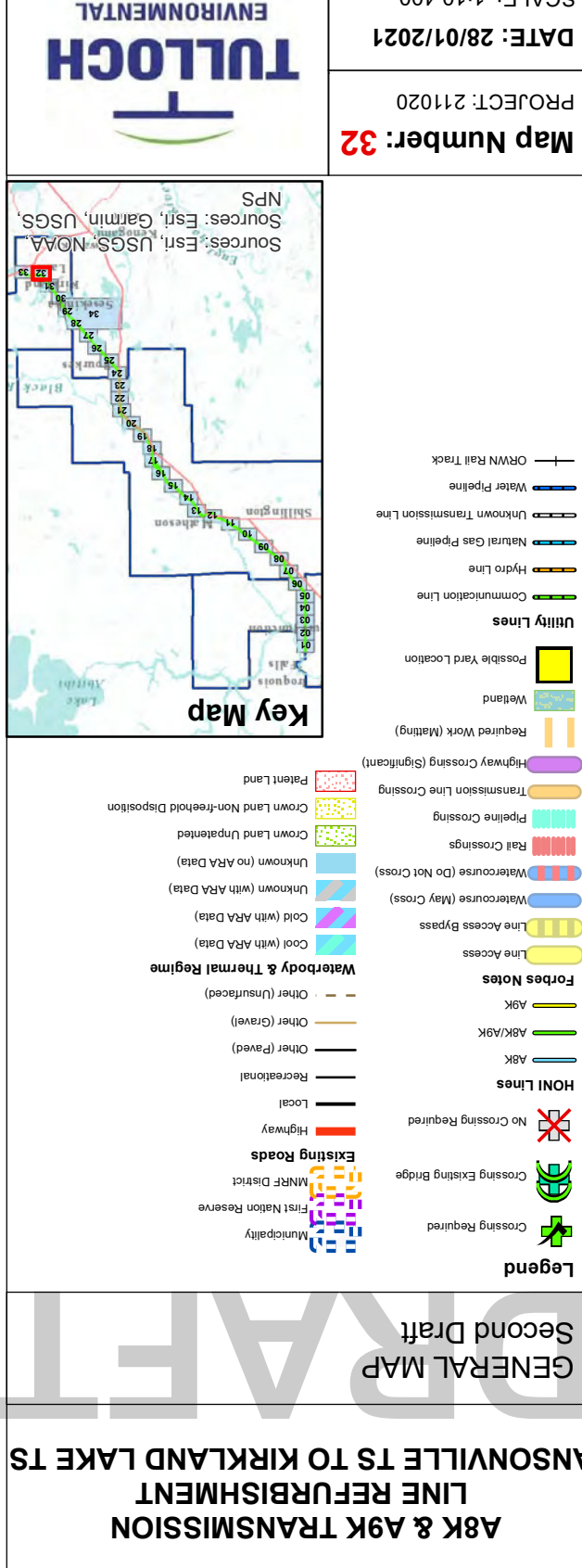


Map Number: 32

PROJECT: 211020

DATE: 28/01/2021

SCALE: 1:10,400

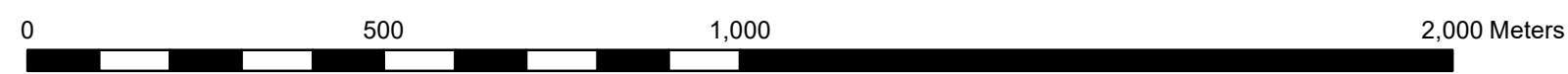
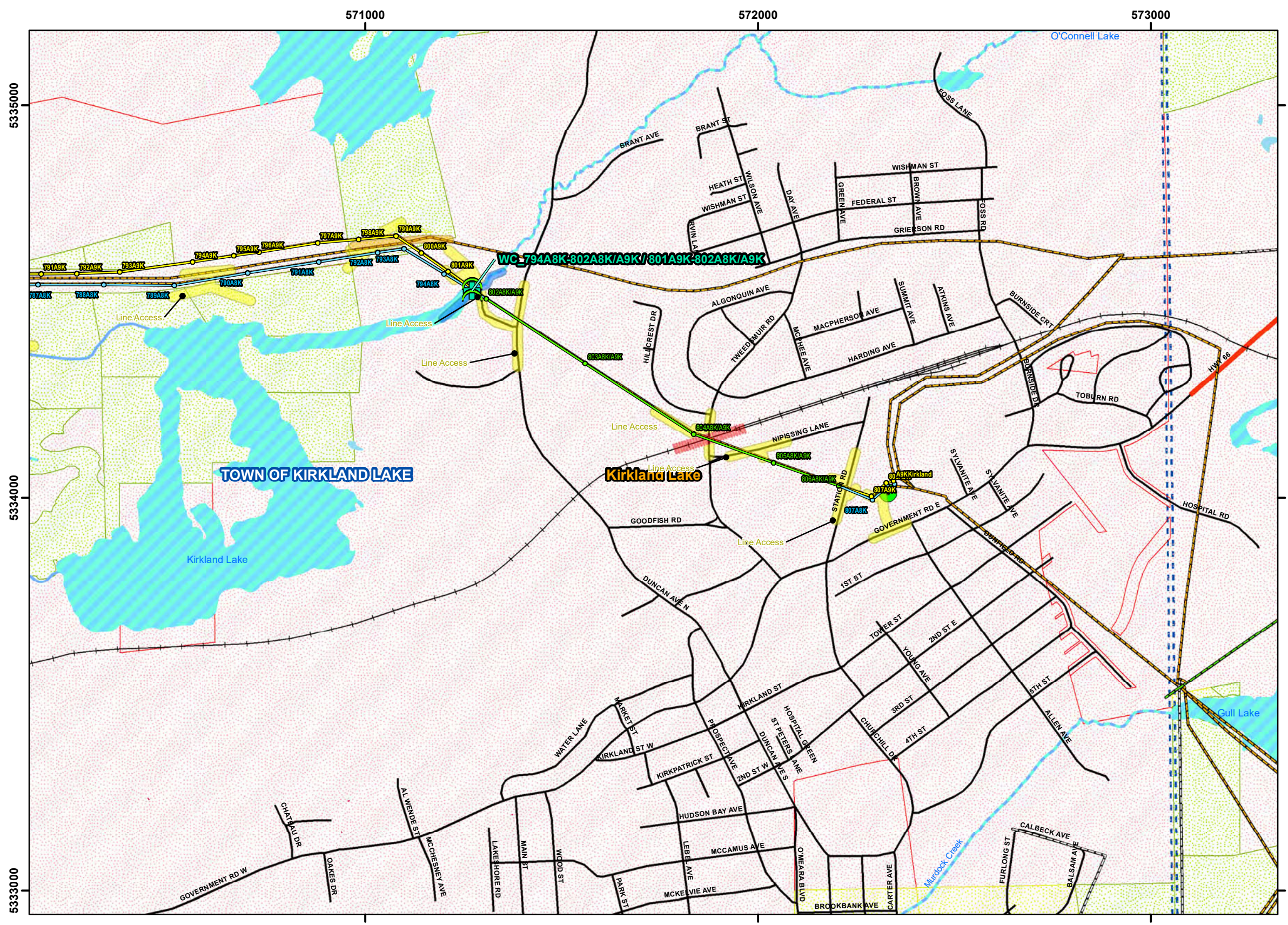
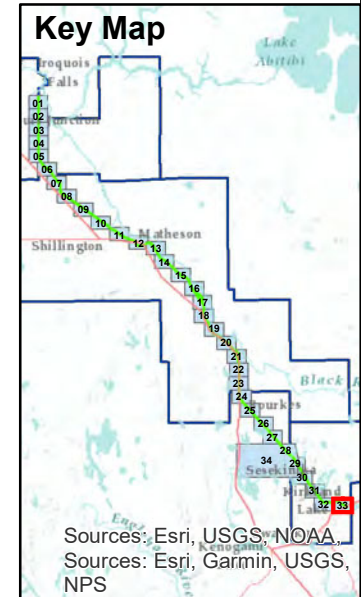


A8K & A9K TRANSMISSION LINE REFURBISHMENT ANSONVILLE TS TO KIRKLAND LAKE TS

GENERAL MAP
Second Draft

Legend

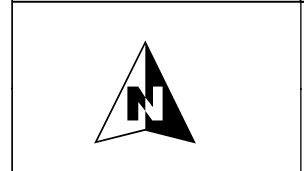
- Crossing Required
- Crossing Existing Bridge
- No Crossing Required
- A8K
- A9K
- Line Access
- Line Access Bypass
- Watercourse (May Cross)
- Watercourse (Do Not Cross)
- Rail Crossings
- Pipeline Crossing
- Transmission Line Crossing
- Highway Crossing (Significant)
- Required Work (Matting)
- Wellland
- Possible Yard Location
- Communication Line
- Hydro Line
- Natural Gas Pipeline
- Unknown Transmission Line
- Water Pipeline
- ORWN Rail Track
- Municipality
- First Nation Reserve
- MNRF District
- Highway
- Local
- Recreational
- Other (Paved)
- Other (Unsurfaced)
- Cool (with ARA Data)
- Cold (with ARA Data)
- Unknown (with ARA Data)
- Unknown (no ARA Data)
- Crown Land Unpatented
- Crown Land Non-freehold Disposition
- Patent Land



Coordinate System: NAD 1983 UTM Zone 17N

Document Path: J:\2021 Projects\Environmental\211020-FBL_HONI-A8K A9K\5_Maps\2_Map Project Files\211020 - HONI A8K-A9K - 01 General Map v0-4 - 28 Jan2021.mxd
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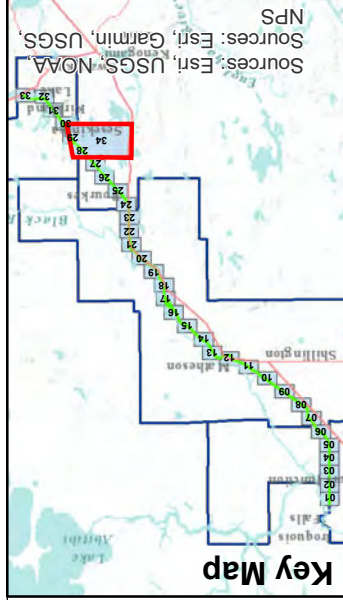
Map Number: **33**
PROJECT: 211020
DATE: 28/01/2021
SCALE: 1:10,400



A8K & A9K TRANSMISSION LINE REFURBISHMENT ANSONVILLE TS TO KIRKLAND LAKE TS

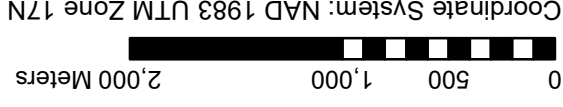
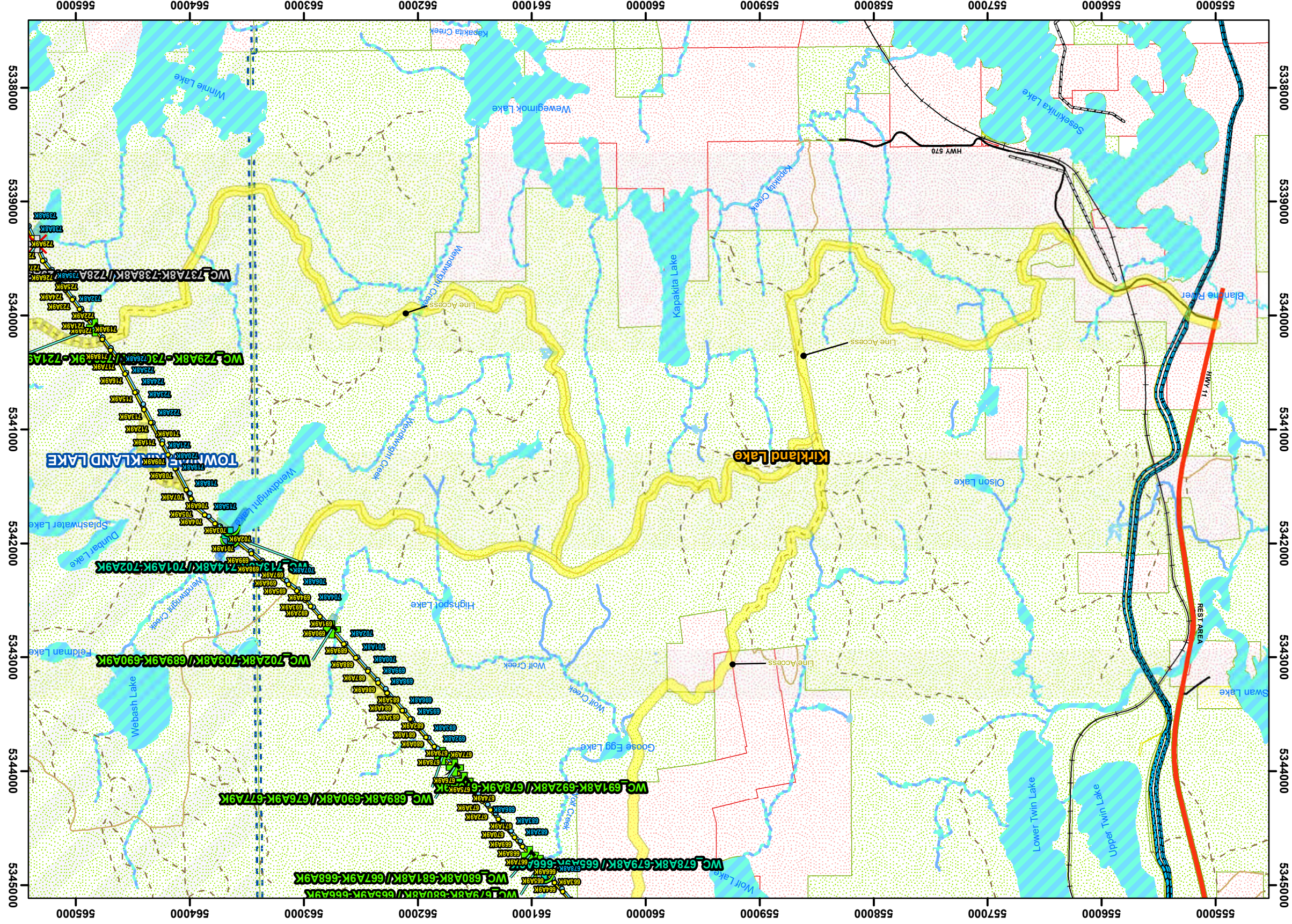
GENERAL MAP
Second Draft

- ### Legend
- Municipality
 - First Nation Reserve
 - MNR District
 - Existing Roads
 - Highway
 - Local
 - Recreational
 - Other (Paved)
 - Other (Gravel)
 - Other (Unsurfaced)
 - Waterbody & Thermal Regime
 - Line Access
 - Line Access Bypass
 - Cool (with ARA Data)
 - Cold (with ARA Data)
 - Unknown (with ARA Data)
 - Unknown (no ARA Data)
 - Crown Land Unpatented
 - Crown Land Non-treethold Disposition
 - Patent Land
 - Crossing Required
 - Crossing Existing Bridge
 - No Crossing Required
 - Required Work (Mating)
 - Wetland
 - Possible Yard Location
 - Utility Lines
 - Communication Line
 - Hydro Line
 - Natural Gas Pipeline
 - Unknown Transmission Line
 - Water Pipeline
 - ORWV Rail Track
 - HONI Lines
 - A8K
 - A8K/A9K
 - Other (Unsurfaced)
 - Forbes Notes
 - Line Access
 - Line Access Bypass
 - Cool (with ARA Data)
 - Cold (with ARA Data)
 - Unknown (with ARA Data)
 - Unknown (no ARA Data)
 - Crown Land Unpatented
 - Crown Land Non-treethold Disposition
 - Patent Land
 - Required Crossing (Significant)
 - Highway Crossing (Significant)
 - Transmission Line Crossing
 - Pipeline Crossing
 - Rail Crossings
 - Watercourse (Do Not Cross)
 - Watercourse (May Cross)



Map Number: **34**
PROJECT: 211020

DATE: 28/01/2021
SCALE: 1:35,600



Attachment II

Laydown Yard Locations

Laydown Yard Locations – Hydro One A8K/A9K

The below list is a description of the finalized laydown yard locations that Forbes Bros intends to utilize throughout the duration of the A8K/A9K project. However, this list is not inclusive as the utilization of laydown yards is dependent on landowner approval and signoff. Forbes Bros will update Hydro One in the event that any new yard locations are selected. Forbes Bros does not intend to utilize any laydown yard that is not already in a previously disturbed location (i.e. clear additional land of vegetation for yard placement).

Yard 1:

Located off right-of-way between structures 9 and 10 of A8K; UTM 17 U 523407.87m E 5397503.85m N

Yard 2:

Located off right-of-way between structures 49 and 50 of A8K; UTM 17 U 523430.70m E 5391452.26m N

Yard 3:

Located off right-of-way near structure 104 of A9K; UTM 17 U 524789.91m E 5387567.71m N

Yard 4:

Located off right-of-way south of structure 605 of A8K on the west side of the TransCanada Highway;
UTM 17 U 555250.80m E 5350338.24m N

Yard 5:

Located off right-of-way south of structure 605 of A8K on the east side of the TransCanada Highway;
UTM 17 U 555558.30m E 5350342.71m N

Yard 6:

Located off right-of-way south of the Kenogami Lake Station northeast of the TransCanada Highway and Highway 66 junction; UTM 17 U 561245.92m E 5327459.05m N



Attachment III

Section 23.18 of O. Reg. 242

Section 23.18 of O. Reg. 242/08 (under Ontario's Endangered Species Act)

Threats to health and safety, not imminent

23.18 (1) This section applies with respect to the following activities that are necessary to avoid or reduce a threat to human health or safety in situations where the threat is not imminent but is likely to have serious consequences in the short or long term if the activity is not carried out:

1. Work undertaken to prevent the contamination or pollution of the earth, air or water or to remove or clean an area that has been contaminated or polluted or any other work undertaken to protect the quality of the earth, air or water, but not including any part of the work that relates to the construction of new infrastructure.
2. Work undertaken to prevent the spread of disease, such as eliminating or removing bacteria, species or other disease causing agents from structures, buildings, lands or water and cleaning and disinfecting after their removal.
3. Work to maintain, repair, remove or replace an existing structure or any infrastructure described in subsection (2), including the decommissioning of a mine, or to upgrade an existing structure or any infrastructure described in subsection (2) to meet a safety standard, if,
 - i. the maintenance, repair, removal, replacement, decommissioning or upgrade does not require,
 - A. a temporary or permanent change to the location of the structure or infrastructure, or
 - B. a temporary or permanent extension of the area the structure or infrastructure occupies, except in the case of the replacement of an existing culvert with a new culvert that is larger than the one it replaces, or
 - ii. in the case of work to maintain, repair, replace or upgrade a structure or infrastructure, the work does not alter the way in which the structure or infrastructure is used or operated.
4. Work to protect against drought, flooding, forest fires, unstable slopes and erosion as long as the protection does not include the building of new infrastructure. O. Reg. 176/13, s. 14.

(2) Paragraph 3 of subsection (1) applies to infrastructure that is part of or related to,

- (a) a communications system;

- (b) an electric power system, oil or gas pipeline, alternative energy system or renewable energy system;
- (c) a road or railway system;
- (d) water works, wastewater works, stormwater works and associated facilities; or
- (e) drainage works designed to control surface water runoff, other than a drainage work to which section 23.9 applies. O. Reg. 176/13, s. 14.

(3) Subject to subsection (8), clause 9 (1) (a) and subsection 10 (1) of the Act do not apply to a person who, while carrying on an activity described in subsection (1), kills, harms, harasses, captures or takes a member of a species that is listed on the Species at Risk in Ontario List as an endangered or threatened species, or damages or destroys the habitat of such a species, if all of the conditions set out in subsection (5) are satisfied. O. Reg. 176/13, s. 14.

(4) Subclauses 9 (1) (b) (i) and (ii) of the Act do not apply to the possession or transport of a member of a species if,

- (a) pursuant to subsection (3), clause 9 (1) (a) and subsection 10 (1) of the Act did not apply with respect to the member of the species or its habitat; or
- (b) the possession or transport of the member of the species is necessary in order to satisfy the conditions set out in subsection (5). O. Reg. 176/13, s. 14.

(5) The following are the conditions that a person who carries on an activity described in subsection (1) must satisfy for the purposes of subsection (3):

1. Before commencing the activity, the person must,

- i. give the Minister notice of the activity by submitting a notice of activity form available on the Registry to the Minister through the Registry, and
- ii. in the case of an activity described in paragraph 3 of subsection (1) that results in the upgrade or removal of a structure or infrastructure, the decommissioning of a mine or the replacement of an entire structure or infrastructure, have a mitigation plan prepared in accordance with subsections (6) and (7).

2. The person must ensure that the notice of activity form includes,

- i. the proposed start and end dates of the activity described,
- ii. a description of the activity and of the area in which it will be carried out, and
- iii. the name of every species listed on the Species at Risk in Ontario List as endangered or threatened species that will likely be affected by the activity.

3. The person must follow the requirements set out in section 23.3 with respect to the completion of the notice of activity form, the keeping of records relating to the notice of activity form and the updating of the information on the Registry.
4. Once the mitigation plan is prepared, the person must,
 - i. ensure that the activity is carried out in accordance with the mitigation plan,
 - ii. retain a copy of the mitigation plan for at least five years after the activity is complete, and
 - iii. provide a copy of the mitigation plan to the Ministry within 14 days of receiving a request for it.
5. While carrying out the activity, the person must take reasonable steps to minimize the adverse effects of the activity on a species identified in the notice of activity form, including,
 - i. taking steps to minimize or avoid killing, harming or harassing a member of the species and to avoid damaging or destroying its habitat, during a time of year when the species is likely to be carrying out a life process related to hibernation or reproduction, including rearing,
 - ii. if the person encounters an animal that is a member of a species while carrying out the activity, ceasing from carrying out the activity in the area of the encounter and providing the animal with a reasonable amount of time to leave the area before continuing with the activity,
 - iii. if, after providing an animal with a reasonable amount of time in accordance with subparagraph ii the animal does not leave the area, taking measures to relocate the animal to a nearby location that is suitable and safe for the animal,
 - iv. if the person encounters a moss, lichen or vascular plant that is a member of the species in the course of carrying out the activity and it is not necessary to kill or harm the member for the purpose of carrying out the activity,
 - A. ceasing the activity in the area of the encounter,
 - B. installing and maintaining barriers or other structures to create a protective zone around the species, and
 - C. after establishing the protective zone referred to in sub-subparagraph B, continuing the activity in a manner that does not impair the ability of the species to carry out its life processes, including reproduction,
 - v. if it is necessary to kill or harm a moss, lichen or vascular plant referred to in subparagraph iv for the purpose of carrying out the activity, relocating the moss, lichen

or vascular plant to a nearby location within the species' habitat that is suitable and safe for the species so that it is not killed or harmed, provided it is feasible to do so,

- vi. making the determination under subparagraph v as to whether it is feasible to relocate a moss, lichen or vascular plant using the best available information with respect to the suitability of relocating that species, including information obtained from the Ministry,
- vii. ensuring that the relocation of an animal or of a moss, lichen or vascular plant in accordance with subparagraph iii or v is undertaken by or in consultation with a person knowledgeable about, or having training in, the handling of members of the species,
- viii. taking steps to exclude members of the species from the area in which the activity is being carried out or is likely to be carried out, such as installing temporary fencing to prevent members of the species from accessing the area,
- ix. refraining from carrying out work during a period of hibernation or reproduction, including rearing, for the species or any other sensitive period for the species unless the restriction on work would result in a delay that would render the threat to human health or safety unavoidable and unacceptable in the circumstances, and
- x. if the activity is the maintenance, repair, replacement or upgrade of infrastructure, keep a schedule of the work or a copy of an engineer's report outlining the work that must occur and make the schedule or report available to the Ministry within 14 days of receiving a request for it.

6. If the person or an employee or agent of the person observes a species identified in the notice of activity form in the course of carrying out the activity, the person must ensure that, within three months of the observation, the Ontario Species at Risk Observation Reporting Form available on the Ministry website is completed, detailing the species and number of individual members that were observed, the date and location of observation and any other information requested on the form. O. Reg. 176/13, s. 14; O. Reg. 218/18, s. 15 (1).

(6) A mitigation plan shall be prepared by one or more persons with expertise in relation to every species that is the subject of the plan, using the best available information on steps that may help minimize or avoid adverse effects on the species, which includes consideration of information obtained from the Ministry, aboriginal traditional knowledge and community knowledge if it is reasonably available. O. Reg. 176/13, s. 14.

(7) A mitigation plan prepared with respect to an activity described in subsection (1) must include the following information:

- 1. A description of the activity and its main purpose and an explanation of the threat to human health or safety that requires that the activity be carried out and of the serious consequences that would result, in the short or long term, if the activity was not carried out.

2. The proposed start and completion dates of the activity.
3. A description of all of the stages of the activity and a timeline for the stages.
4. A list of all the species that are listed on the Species at Risk in Ontario List as endangered or threatened species and that are likely to be affected by the activity.
5. An assessment of the activity's likely effects on members of each species identified under paragraph 4.
6. A map indicating the geographic location of the activity on the property where it will occur.
7. Details of how the person will carry out the steps described in paragraph 5 of subsection (5) that are required to minimize the adverse effects of the activity on a species identified under paragraph 4, including,
 - i. the dates on which, and locations at which, each step will be carried out, and
 - ii. the times during the year when the species is likely to be carrying out a life process related to hibernation or reproduction, including rearing, and during which the person must avoid killing, harming or harassing members of the species. O. Reg. 176/13, s. 14.

(8) Subsection (3) does not apply with respect to a species identified in Columns 3 and 4 of the Table to this subsection by its common and scientific names, and belonging to the species grouping referred to in Column 2 of the Table opposite the identified species:

TABLE
SPECIES TO WHICH SUBSECTION 23.18 (3) DOES NOT APPLY

Column 1 Item	Column 2 Species Grouping	Column 3 Common Name	Column 4 Scientific Name
1.	Vascular plants	Bird's-foot Violet	<i>Viola pedata</i>
2.	Vascular plants	Bluehearts	<i>Buchnera americana</i>
3.	Vascular plants	Forked Three-awned Grass	<i>Aristida basiramea</i>
4.	Vascular plants	Heart-leaved Plantain	<i>Plantago cordata</i>
5.	Vascular plants	Juniper Sedge	<i>Carex juniperorum</i>
6.	Vascular plants	Spotted Wintergreen	<i>Chimaphila maculate</i>
7.	Vascular plants	Virginia Goat's-rue	<i>Tephrosia virginiana</i>
8.	Vascular plants	Virginia Mallow	<i>Sida hermaphrodita</i>
9.	Molluscs	Proud Globelet	<i>Patera pennsylvanica</i>
10.	Insects	Mottled Duskywing	<i>Erynnis martialis</i>
10.1	Insects	Hoptree Borer	<i>Prays atomocella</i>
10.2	Insects	Lake Huron Grasshopper	<i>Trimerotropis huronia</i>
10.3	Insects	Nine-Spotted Lady Beetle	<i>Coccinella novemnotata</i>
11.	Reptiles	Massasauga (Carolinian population)	<i>Sistrurus catenatus</i>

O. Reg. 179/14, s. 9; O. Reg. 308/16, s. 10; O. Reg. 218/18, s. 15 (2).

Attachment IV

Qualifications of Plan Author



Kelly Major, M.Sc. EP is a Senior Terrestrial Ecologist and certified Environmental Professional (EP) at Tulloch Engineering. He has worked professionally throughout Ontario for 10 years in consulting, government and academic sectors. His areas of specialization include Species at Risk, habitat assessment, wetland evaluation and Global Information Systems (GIS). As an academic, Kelly has acted as principal investigator for various studies in community ecology, plant invasion and silviculture. His research has been peer-reviewed and published. With the Ministry of Natural Resources and Forestry (MNRF), he surveyed wildlife biodiversity across the province and built statistical models forecasting forest succession for Boreal Ontario. As a consultant with Tulloch, Kelly leads Species at Risk surveys, wetland evaluations (Ontario Wetland Evaluation Systems) and terrestrial habitat description (e.g. Ecological Land Classification). He performs impact assessments at sites of proposed development and prepares site specific mitigation strategies

appropriate to the nature of the habitat alteration and the sensitivities present. He also serves as data analyst for Tulloch's environmental department; managing and mapping spatial data in ArcGIS and modeling quantitative data using univariate and multivariate statistical techniques.

Attachment V

Ontario Species at Risk Observation Reporting Form

APPENDIX D – Species Encounter Reporting Form

Ministry of Natural
Resources and Forestry

Ministère des Richesses
naturelles et des Forêts



Species Encounter Reporting Form

Permit Number:	MNRF District (Region):
Organization/Company Name:	
Contact Name:	
Contact Information:	

SPECIES ENCOUNTER

<i>Name of Observer</i>		
<i>Date of Observation</i>		
<i>Location of Observation (in UTM coordinates)</i>	<i>Easting</i>	<i>Northing</i>
<i>Species Name</i>		
<i>Time of day (EST)</i>		
<i>Number of Individuals observed</i>		
<i>General Description of Observation (including the scenario under which the encounter took place)</i>	[e.g. During corridor maintenance, our trained spotters encountered three (3) Blanding's turtles under the hydroelectric lines.]	
<i>Actions taken to minimize/mitigate for any adverse impacts to the individual(s) (if required)</i>	[e.g. Due to the potential for adverse impacts to the individual Blanding's turtles, we ceased activities in this area and allowed sufficient time for them to disperse. When we returned (24 hours later) to continue corridor maintenance, the turtles were no longer present.]	

Photographic documentation of Species Encounters

[SPECIES 1] Encounter

[SPECIES 2] Encounter

Appendix I Water Well Records



1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

1604681

MUNICIPALITY: 16336 CON: CON LOT: 102

COUNTY OR DISTRICT: [REDACTED] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: [REDACTED] CON. BLOCK TRACT, SURVEY ETC.: 2 LOT: 12
 DATE COMPLETED: 48-53 DAY: 29 MO: 11 YR: 92
 ELEVATION: 149 BASIN CODE: II

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	CLAY			0	8
BLUE	CLAY			8	95
GRAY	HARDPAN	BOULDERS		95	267
GREEN	GREENSTONE		BROKEN	267	270

31
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER					
10-13	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/> OTHER	7 <input type="checkbox"/> UNKNOWN
15-18	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/> OTHER	7 <input type="checkbox"/> UNKNOWN
20-23	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/> OTHER	7 <input type="checkbox"/> UNKNOWN
25-28	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/> OTHER	7 <input type="checkbox"/> UNKNOWN
30-33	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/> OTHER	7 <input type="checkbox"/> UNKNOWN

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	1 <input checked="" type="checkbox"/> STEEL			
11-12	2 <input type="checkbox"/> GALVANIZED			
12-13	3 <input type="checkbox"/> CONCRETE			
13-14	4 <input type="checkbox"/> OPEN HOLE			
14-15	5 <input type="checkbox"/> PLASTIC			
17-18	1 <input type="checkbox"/> STEEL			
18-19	2 <input type="checkbox"/> GALVANIZED			
19-20	3 <input type="checkbox"/> CONCRETE			
20-21	4 <input type="checkbox"/> OPEN HOLE			
21-22	5 <input type="checkbox"/> PLASTIC			
24-25	1 <input type="checkbox"/> STEEL			
25-26	2 <input type="checkbox"/> GALVANIZED			
26-27	3 <input type="checkbox"/> CONCRETE			
27-28	4 <input type="checkbox"/> OPEN HOLE			
28-29	5 <input type="checkbox"/> PLASTIC			

SCREEN

SIZE (S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE: _____ DEPTH TO TOP OF SCREEN: 41-44 FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
10-13	14-17 BENTONITE
18-21	22-25
26-29	30-33

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER
 PUMPING RATE: 70 GPM DURATION OF PUMPING: 2 HOURS
 STATIC LEVEL: 91 FEET WATER LEVEL END OF PUMPING: 22-24 FEET
 WATER LEVELS DURING PUMPING: 26-28 FEET
 IF FLOWING: GIVE RATE: _____ PUMP INTAKE SET AT: 170 FEET
 RECOMMENDED PUMP TYPE: SHALLOW DEEP
 RECOMMENDED PUMP SETTING: 170 FEET RECOMMENDED PUMPING RATE: 10 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW.

DRILLER'S REMARKS: _____

096672

FINAL STATUS OF WELL

1 WATER SUPPLY 5 ABANDONED, INSUFFICIENT SUPPLY
 2 OBSERVATION WELL 6 ABANDONED, POOR QUALITY
 3 TEST HOLE 7 UNFINISHED
 4 RECHARGE WELL 8 DEWATERING

WATER USE

1 DOMESTIC 5 COMMERCIAL
 2 STOCK 6 MUNICIPAL
 3 IRRIGATION 7 PUBLIC SUPPLY
 4 INDUSTRIAL 8 COOLING OR AIR CONDITIONING
 9 NOT USED

METHOD OF CONSTRUCTION

1 CABLE TOOL 6 BORING
 2 ROTARY (CONVENTIONAL) 7 DIAMOND
 3 ROTARY (REVERSE) 8 JETTING
 4 ROTARY (AIR) 9 DRIVING
 5 AIR PERCUSSION DIGGING OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: J.P. LOWMEYER & SONS
 WELL CONTRACTOR'S LICENCE NUMBER: 3426
 ADDRESS: Box 63, Matheson, Ontario
 NAME OF WELL TECHNICIAN: [REDACTED]
 WELL TECHNICIAN'S LICENCE NUMBER: [REDACTED]
 SIGNATURE OF TECHNICIAN/CONTRACTOR: [REDACTED]
 SUBMISSION DATE: DAY 29 MO 11 YR 92

OFFICE USE ONLY

DATA SOURCE: CONTRACTOR 3426 DATE RECEIVED: MAY 10 1993
 DATE OF INSPECTION: _____ INSPECTOR: _____
 REMARKS: _____
 CSS.ES



1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11

1604598

MUNICIPALITY 16,335

CON. 15

03

Cochran
TAYLOR
III
GENERAL DELIBERATE Matheson Ont.
DATE COMPLETED 48-55
DAY 13 MO 9 YR 91
ING RC ELEVATION RC BASIN CODE III IV

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN GREY	CLAY SANDS	STONES	LAYERED SOFT	0 44-7	44-7 45

31
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
10-11	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		15-16
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		20-23
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		27-30

SCREEN

SIZE(S) OF OPENING (SLOT NO.) 31-33 DIAMETER 34-38 LENGTH 39-40
MATERIAL AND TYPE INCHES FEET
DEPTH TO TOP OF SCREEN 41-44

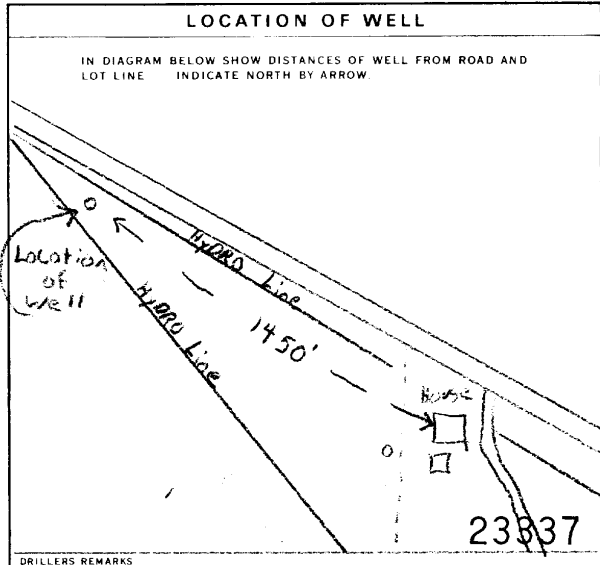
61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER ETC
0 10-13	4 1/2 CEMENT	
18-21		
26-29		

+ HOL PLUG.

71 PUMPING TEST

PUMPING TEST METHOD 1 PUMP 2 BAILER
PUMPING RATE 10 GPM 11-14 DURATION OF PUMPING 15-16 HOURS 17-18 MIN
WATER LEVEL END OF PUMPING 25
WATER LEVELS DURING 1 PUMPING 2 RECOVERY
19-21 22-24 15 MINUTES 26-28 30 MINUTES 29-31 45 MINUTES 32-34 60 MINUTES 35-37
FEET FEET FEET FEET FEET FEET
IF FLOWING GIVE RATE 38-41 PUMP INTAKE SET AT 42 WATER AT END OF TEST 43
RECOMMENDED PUMP TYPE 43-45 RECOMMENDED PUMP RATE 46-48
 SHALLOW DEEP GPM FEET FEET GPM



FINAL STATUS OF WELL

1 WATER SUPPLY 8 ABANDONED - INSUFFICIENT SUPPLY
2 OBSERVATION WELL 9 ABANDONED - POOR QUALITY
3 TEST HOLE 10 UNFINISHED
4 RECHARGE WELL 11 DEWATERING

WATER USE

1 DOMESTIC 5 COMMERCIAL
2 STOCK 6 MUNICIPAL
3 IRRIGATION 7 PUBLIC SUPPLY
4 INDUSTRIAL 8 COOLING OR AIR CONDITIONING
9 OTHER 10 NOT USED

METHOD OF CONSTRUCTION

1 CABLE TOOL 6 BORING
2 ROTARY (CONVENTIONAL) 7 DIAMOND
3 ROTARY (REVERSE) 8 JETTING
4 ROTARY (AIR) 9 DRIVING
5 AIR PERCUSSION 10 DIGGING 11 OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR J.B. Long Street
ADDRESS P.O. Box 63 Matheson Ont.
NAME OF WELL TECHNICIAN Ronald Long Street
SIGNATURE OF TECHNICIAN/CONTRACTOR [Signature]
WELL CONTRACTOR'S LICENCE NUMBER 1426
WELL TECHNICIAN'S LICENCE NUMBER T-010
SUBMISSION DATE DAY _____ MO _____ YR _____

OFFICE USE ONLY

DATA SOURCE 58 CONTRACTOR 59-61 DATE RECEIVED 62-64
3426 JAN 14 1992
DATE OF INSPECTION INSPECTOR
REMARKS
CSS.ES



1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11 1604468 16:52 CON 04

COUNTY OR DISTRICT: **Coastal**
 TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Coastal Twp Hislop**
 CON. BLOCK, TRACT, SURVEY ETC: **CON 4**
 LOT: **10**
 DATE COMPLETED: **2 11 89**
 DAY 2 MO 11 YR 89

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	CLAY		TOP SOIL	0	3
BROWN	CLAY		PACKED	3	10
GRAY	CLAY			10	15
BLUE	CLAY		SAFT	15	56
GRAY	GRAVEL	SAND, BOLDERS	LIGHT TO COARSE	56	92

31
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER			
	1 FRESH	2 SALTY	3 SULPHUR	4 MINERAL
92	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/4	STEEL	188	88	92
6 1/4	STEEL	188	+2	86

SCREEN

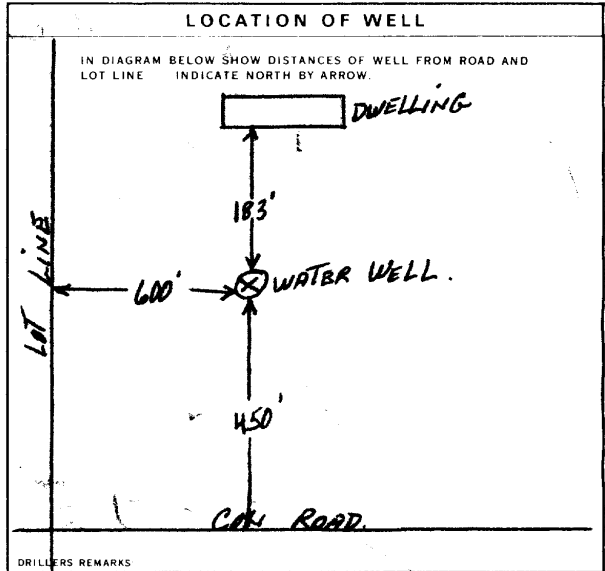
SIZE OF OPENING (SLOT NO.): **10**
 DIAMETER: **6** INCHES
 LENGTH: **4** FEET
 MATERIAL AND TYPE: **STAINLESS STEEL**
 DEPTH TO TOP OF SCREEN: **88** FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
10-13	
18-21	
26-29	

71 PUMPING TEST

PUMPING TEST METHOD: PUMP BAILER
 PUMP RATE: **3** GPM
 DURATION OF PUMPING: **2** HOURS **30** MINS.
 WATER LEVEL END OF PUMPING: **28** FEET
 WATER LEVELS DURING:
 15 MINUTES: **82** FEET
 30 MINUTES: **82** FEET
 45 MINUTES: **82** FEET
 60 MINUTES: **82** FEET
 PUMP INTAKE SET AT: **82** FEET
 RECOMMENDED PUMP TYPE: SHALLOW DEEP
 RECOMMENDED PUMP SETTING: **88** FEET
 RECOMMENDED PUMPING RATE: **5** GPM



FINAL STATUS OF WELL

1 WATER SUPPLY
 2 OBSERVATION WELL
 3 TEST HOLE
 4 RECHARGE WELL
 5 ABANDONED, INSUFFICIENT YIELD
 6 ABANDONED, POOR QUALITY
 7 UNFINISHED

WATER USE

1 DOMESTIC
 2 STOCK
 3 IRRIGATION
 4 INDUSTRIAL
 5 OTHER
 6 COMMERCIAL
 7 MUNICIPAL
 8 PUBLIC SUPPLY
 9 COOLING OR AIR CONDITIONING
 0 NOT USED

METHOD OF DRILLING

1 CABLE TOOL
 2 ROTARY (CONVENTIONAL)
 3 ROTARY (REVERSE)
 4 ROTARY (AIR)
 5 AIR PERCUSSION
 6 BORING
 7 DIAMOND
 8 JETTING
 9 DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: **J.B. LONGSTREET & SONS**
 ADDRESS: **Box 63 Matheson**
 NAME OF DRILLER OR BORER: **RAN LONGSTREET**
 SIGNATURE OF CONTRACTOR: *[Signature]*
 LICENCE NUMBER: **3426**
 LICENCE NUMBER: **0110**
 SUBMISSION DATE: **2 11 89**

OFFICE USE ONLY

DATE RECEIVED: **MAR 12 1991**
 CONTRACTOR: **3426**
 DATE OF INSPECTION: _____
 INSPECTOR: _____
 REMARKS: _____
 CSS.ES



WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11 1604215 16355 105

COUNTY OR DISTRICT: [redacted] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: [redacted] CON. BLOCK, TRACT, SURVEY ETC: 5 LOT: 12
 DATE COMPLETED: DAY 05 MO 05 YR 89
 Box 1455, Iroquois Falls, Ont

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
	Clay			0'	41'
	Gray rock			41'	302'

31 32

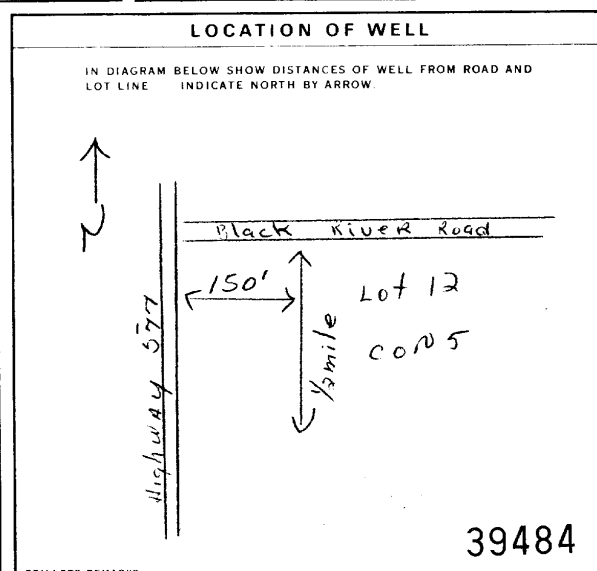
41 WATER RECORD	
WATER FOUND AT - FEET	KIND OF WATER
290	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS

51 CASING & OPEN HOLE RECORD				
INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
5 7/8	STEEL GALVANIZED CONCRETE OPEN HOLE PLASTIC	3/16	0'	46'
5	STEEL GALVANIZED CONCRETE OPEN HOLE PLASTIC		46'	302'

SCREEN			
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH	

61 PLUGGING & SEALING RECORD			
DEPTH SET AT - FEET		MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.)	
FROM	TO		

71 PUMPING TEST METHOD		PUMPING RATE		DURATION OF PUMPING	
1 <input type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> BLOWER		1 GPM		1 HOURS	
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
25 FEET	300 FEET	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
		26-28	29-31	32-34	35-37
		FEET	FEET	FEET	FEET
IF FLOWING GIVE RATE		PUMP INTAKE SET AT		WATER AT END OF TEST	
		300 GPM		1 CLEAR 2 CLOUDY	
RECOMMENDED PUMP TYPE		RECOMMENDED PUMP SETTING		RECOMMENDED PUMPING RATE	
1 SHALLOW 2 DEEP		275 FEET		1 GPM	



FINAL STATUS OF WELL	
1 <input type="checkbox"/> WATER SUPPLY	6 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
2 <input checked="" type="checkbox"/> OBSERVATION WELL	7 <input type="checkbox"/> ABANDONED POOR QUALITY
3 <input type="checkbox"/> TEST HOLE	8 <input type="checkbox"/> UNFINISHED
4 <input type="checkbox"/> RECHARGE WELL	9 <input type="checkbox"/> DEWATERING

WATER USE	
1 <input type="checkbox"/> DOMESTIC	5 <input type="checkbox"/> COMMERCIAL
2 <input checked="" type="checkbox"/> STOCK	6 <input type="checkbox"/> MUNICIPAL
3 <input type="checkbox"/> IRRIGATION	7 <input type="checkbox"/> PUBLIC SUPPLY
4 <input type="checkbox"/> INDUSTRIAL	8 <input type="checkbox"/> COOLING OR AIR CONDITIONING
9 <input type="checkbox"/> OTHER	

METHOD OF CONSTRUCTION	
1 <input type="checkbox"/> CABLE TOOL	6 <input type="checkbox"/> BORING
2 <input type="checkbox"/> ROTARY (CONVENTIONAL)	7 <input type="checkbox"/> DIAMOND
3 <input type="checkbox"/> ROTARY (REVERSE)	8 <input type="checkbox"/> JETTING
4 <input type="checkbox"/> ROTARY (AIR)	9 <input type="checkbox"/> DRIVING
5 <input type="checkbox"/> AIR PERCUSSION	10 <input type="checkbox"/> DIGGING
11 <input type="checkbox"/> OTHER	

CONTRACTOR: Don Groleau Diamond Drill. Ltd 2401
 P.O. Box 98 Kapuskasing, Ont. P5N 2Y1
 SIGNATURE OF TECHNICIAN/CONTRACTOR: Glenn Longstreet
 SUBMISSION DATE: DAY 29 MO 05 YR 89

OFFICE USE ONLY

CONTRACTOR: 2401 DATE RECEIVED: JUN 08 1989
 DATE OF INSPECTION: INSPECTOR:
 REMARKS:
 C.S.S.E.S.



WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

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MUNICIPALITY 16374

CON. COM.

1991

COUNTY OR DISTRICT: [REDACTED] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: [REDACTED] CON. BLOCK TRACT, SURVEY ETC: I LOT: 10
DATE COMPLETED: 04 MO 07 YR 91

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	CLAY			0	8
BLUE	CLAY			8	24
GRAY	SAND			24	25
GREEN	GREENSTONE			25	108

31 32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL TH. CANESS INCHES	DEPTH - FEET
10-11	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		13-18
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	.188 + 1	20-23
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		27-30

SCREEN

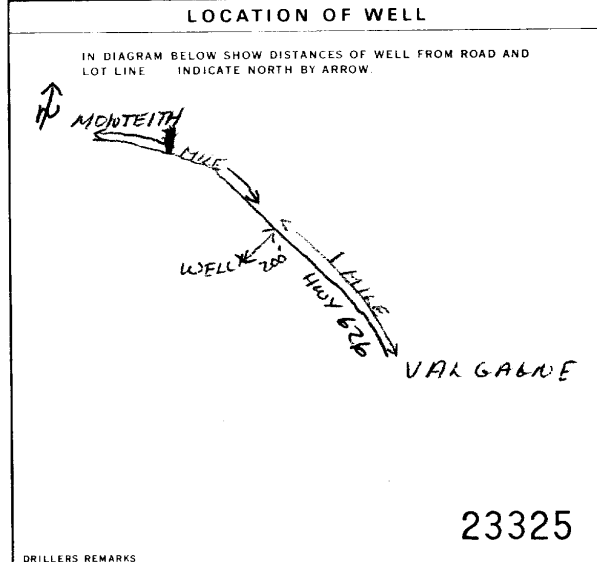
SIZE (S) OF OPENING (SLOT NO.): 31-33 DIAMETER: 34-38 LENGTH: 39-40
MATERIAL AND TYPE: DEPTH TO TOP OF SCREEN: 41-44

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER ETC.
10-15	14-17	HOLE PLUG
18-21	22-25	
26-29	30-33	

71 PUMPING TEST

PUMPING TEST METHOD: 1 AIR 2 BAILER
PUMPING RATE: 6 GPM DURATION OF PUMPING: 4 HOURS 17-18 MINS
WATER LEVEL END OF PUMPING: 20 FEET
WATER LEVELS DURING: 15 MINUTES: 20-20 FEET, 30 MINUTES: 20-31 FEET, 45 MINUTES: 20-34 FEET, 60 MINUTES: 20-37 FEET
PUMP INTAKE SET AT: 100 FEET
RECOMMENDED PUMP TYPE: 1 SHALLOW 2 DEEP
RECOMMENDED PUMP SETTING: 100 FEET
RECOMMENDED PUMPING RATE: 6 GPM



FINAL STATUS OF WELL

1 WATER SUPPLY 8 ABANDONED - INSUFFICIENT SUPPLY
2 OBSERVATION WELL 9 ABANDONED - POOR QUALITY
3 TEST HOLE 7 UNFINISHED
4 RECHARGE WELL 9 DEWATERING

WATER USE

1 DOMESTIC 5 COMMERCIAL
2 STOCK 6 MUNICIPAL
3 IRRIGATION 7 PUBLIC SUPPLY
4 INDUSTRIAL 8 COOLING OR AIR CONDITIONING
 OTHER NOT USED

METHOD OF CONSTRUCTION

1 CABLE TOOL 6 BORING
2 ROTARY (CONVENTIONAL) 7 DIAMOND
3 ROTARY (REVERSE) 8 JETTING
4 ROTARY (AIR) 9 DRIVING
5 AIR PERCUSSION DIGGING OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: J. B. LONGSTREET & SONS
WELL CONTRACTOR'S LICENCE NUMBER: 3426
ADDRESS: BOX 63, MATHESON, ONTARIO P0X 1M0
NAME OF WELL TECHNICIAN: RONALD B. LONGSTREET T-0110
WELL TECHNICIAN'S LICENCE NUMBER: [REDACTED]
SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature]
SUBMISSION DATE: DAY 04 MO 07 YR 91

OFFICE USE ONLY

DATA SOURCE: 3426 CONTRACTOR: 3426 DATE RECEIVED: FEB 03 1992
DATE OF INSPECTION: [REDACTED] INSPECTOR: [REDACTED]
REMARKS: [REDACTED]

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

TIMISKAMING

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6302709

Municipality
63099

Con.
CON

02

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
	Masonville	2 E	1
Address		Date completed	
Ste 3 Box 4A Sesekinaka		18 day 02 month 98 year	

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)					
General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
Brown	Sand		loose	0	10
Black	rec	sand	loose & slide	10	26
Black	rec		hard	26	250

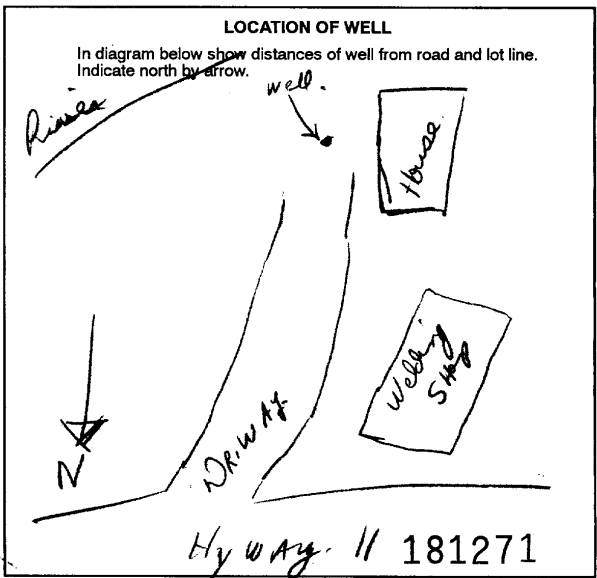
41 WATER RECORD			
Water found at - feet	Kind of water		
250	<input checked="" type="checkbox"/> Fresh	<input type="checkbox"/> Salty	<input type="checkbox"/> Sulphur Minerals Gas
	<input type="checkbox"/> Fresh	<input type="checkbox"/> Salty	<input type="checkbox"/> Sulphur Minerals Gas
	<input type="checkbox"/> Fresh	<input type="checkbox"/> Salty	<input type="checkbox"/> Sulphur Minerals Gas
	<input type="checkbox"/> Fresh	<input type="checkbox"/> Salty	<input type="checkbox"/> Sulphur Minerals Gas

51 CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6	Steel Galvanized Concrete Open hole Plastic	.188	0	26
17/18	Steel Galvanized Concrete Open hole Plastic			20-23
24/25	Steel Galvanized Concrete Open hole Plastic			27-30

SCREEN	Sizes of opening (Slot No.)		Diameter	Length
	From	To	Inches	feet
	Material and type		Depth at top of screen	

61 PLUGGING & SEALING RECORD			
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
From	To		
10-15	14-17		
18-21	20-25		
26-29	30-33		

71 PUMPING TEST			
Pumping test method	Pumping rate	Duration of pumping	
<input type="checkbox"/> Pump <input type="checkbox"/> Bailer	25 gph	Hours	Mins
Static level	Water level end of pumping	Water levels during	
10 feet		15 minutes	30 minutes
		45 minutes	60 minutes
If flowing give rate	Pump intake set at	Water at end of test	
GPM	feet	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Cloudy	
Recommended pump type	Recommended pump setting	Recommended pump rate	
<input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	235 feet	GPM	



FINAL STATUS OF WELL			
<input checked="" type="checkbox"/> Water supply	<input type="checkbox"/> Abandoned, insufficient supply	<input type="checkbox"/> Unfinished	
<input type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well	
<input type="checkbox"/> Test hole	<input type="checkbox"/> Abandoned (Other)		
<input type="checkbox"/> Recharge well	<input type="checkbox"/> Dewatering		

WATER USE			
<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used	
<input type="checkbox"/> Stock	<input type="checkbox"/> Municipal	<input type="checkbox"/> Other	
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Public supply		
<input type="checkbox"/> Industrial	<input type="checkbox"/> Cooling & air conditioning		

METHOD OF CONSTRUCTION			
<input type="checkbox"/> Cable tool	<input type="checkbox"/> Air percussion	<input type="checkbox"/> Driving	
<input type="checkbox"/> Rotary (conventional)	<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Other	
<input checked="" type="checkbox"/> Rotary (air)	<input type="checkbox"/> Jetting		

Name of Well Contractor	Well Contractor's Licence No.
R. H. Well Drilling Inc	7037
Address	
1380 Kirkland Lake ext. P2N 3J1	
Name of Well Technician	Well Technician's Licence No.
Roland A. Noel	7-2720
Signature of Technician/Contractor	Submission date
Roland A. Noel	day 18 mo 02 yr 98

MINISTRY USE ONLY	
Data source	Contractor
	7037
Date of inspection	Date received
	JUL 14 1998
Inspector	
Remarks	
CSS. S9	

Address of Well Location (Street Number/Name) **1388 Wemyss Rd.** Township **Blackriver** Lot **2** Concession **6**
 County/District/Municipality **Cochrane** City/Town/Village **Matheson** Province **Ontario** Postal Code _____
 UTM Coordinates Zone **17** Easting **235490537** Northing **7504** Municipal Plan and Sublot Number _____ Other _____

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
grey	clay		soft	0	60
grey	clay	fine sand	medium soft	60	90
grey	sand	clay broken rock	hard pack	90	113
grey	broken rock	sand	hard	113	120

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0 to 20	Bentonite slurry	90kg

Results of Well Yield Testing

Time (min)	Draw Down		Recovery	
	Water Level (m/ft)	Time (min)	Water Level (m/ft)	Time (min)
Static Level	38		100	
1	44.5	1	98.5	
2	51	2	97	
3	57.5	3	95.5	
4	64	4	94	
5	70.5	5	92.5	
10	100	10	85	
15	100	15	77.5	
20	100	20	70	
25		25	72.5	
30		30	65	
40		40	55	
50		50	45	
60		60	35	

After test of well yield, water was:
 Clear and sand free
 Other, specify _____
 if pumping discontinued, give reason: _____
 Pump intake set at (m/ft) **100'**
 Pumping rate (l/min / GPM) **3**
 Duration of pumping **1** hrs + _____ min
 Final water level end of pumping (m/ft) **100**
 if flowing give rate (l/min / GPM) _____
 Recommended pump depth (m/ft) **100'**
 Recommended pump rate (l/min / GPM) **7**
 Well production (l/min / GPM) **39 l/min 180 gpm**
 Disinfected? Yes No

Method of Construction

<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input checked="" type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify _____		<input type="checkbox"/> Other, specify _____		

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
8	Steel	219	0	113	<input checked="" type="checkbox"/> Water Supply
8	open hole		113	120	<input type="checkbox"/> Replacement Well

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		Status of Well
			From	To	
					<input type="checkbox"/> Test Hole
					<input type="checkbox"/> Recharge Well
					<input type="checkbox"/> Dewatering Well
					<input type="checkbox"/> Observation and/or Monitoring Hole
					<input type="checkbox"/> Alteration (Construction)
					<input type="checkbox"/> Abandoned, Insufficient Supply
					<input type="checkbox"/> Abandoned, Poor Water Quality
					<input type="checkbox"/> Abandoned, other, specify _____
					<input type="checkbox"/> Other, specify _____

Water Details

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Hole Diameter	
		Depth (m/ft)	Diameter (cm/in)
110		0 to 20	12
		20 to 120	8"

Well Contractor and Well Technician Information

Business Name of Well Contractor **J. H. Well Drilling Inc.** Well Contractor's Licence No. **210317**
 Business Address (Street Number/Name) **380 Hwy 24 West** Municipality **Kirkland Lake**
 Province **Ont** Postal Code **R2M3T1** Business E-mail Address _____
 Telephone No. (inc. area code) **705 756 8160** Name of Well Technician (Last Name, First Name) **Fredrick Mael**
 Well Technician's Licence No. **33113** Signature of Technician and/or Contractor **Fredrick Mael** Date Submitted **2017/04/28**

Map of Well Location

Please provide a map below following instructions on the back.

Comments: **Wemyss rd.**

Well owner's information package delivered Yes No
 Date Package Delivered **2017/04/28**
 Date Work Completed **2017/04/28**

Ministry Use Only
 Audit No. **2236337**
MAY 15 2017
 Received

Well Owner's Information

KIRKLAND LAKE RAIL YARD (NEXT TO 13 NIPISSING LANE)

Country (District) Municipality: TEMISKAMING City (Town) Village: KIRKLAND LAKE Province: Ontario Postal Code:
 UTM Coordinates Zone Easting Northing: NAD 83 17 185498 05334169 Municipal Plan and Sublot Number: PART OF PARCEL 1417 CST Other: MILEAGE 5.5

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)
				From To
BLACK	GRAVEL		DAMP	0 1
BLACK	PEAT		MOIST	1 2
GREY	WET SANDS		WET	2 16
GREY	GRAVEL		WET	16 17.5

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
From To		
0 2	BENTONITE	2 BAGS
2 17.5	#3 SILICA SAND	7 BAGS

Method of Construction

Cable Tool Diamond Public Commercial Not used
 Rotary (Conventional) Jetting Domestic Municipal Dewatering
 Rotary (Reverse) Driving Livestock Test Hole Monitoring
 Boring Digging Irrigation Cooling & Air Conditioning
 Air percussion Industrial Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
2	PLASTIC	1/8	0	3	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		Status of Well
			From	To	
2	PLASTIC	40	3	17.5	<input type="checkbox"/> Other, specify

Water Details

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify
2	
0	
17.5	

Well Contractor and Well Technician Information

Business Name of Well Contractor: Abraflex 2004 Ltd. Well Contractor's Licence No.: 73710
 Business Address (Street Number/Name): 185 MAGILL ST. Municipality: LIVELY
 Province: ON Postal Code: P3Y1K6 Business E-mail Address: klaframboise@abraflex.com
 Bus. Telephone No. (inc. area code): 705 668 6816 Name of Well Technician (Last Name, First Name): BOILEAU DANIEL
 Well Technician's Licence No.: 3531 Signature of Technician and/or Contractor: [Signature] Date Submitted: 20090604

Results of Well Yield Testing

After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason: Pump intake set at (m/ft) Pumping rate (l/min / GPM) Duration of pumping hrs + min Final water level end of pumping (m/ft) If flowing give rate (l/min / GPM) Recommended pump depth (m/ft) Recommended pump rate (l/min / GPM) Well production (l/min / GPM) Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	1		1	
	2		2	
	3		3	
	4		4	
	5		5	
	10		10	
15		15		
20		20		
25		25		
30		30		
40		40		
50		50		
60		60		

Map of Well Location

Please provide a map below following instructions on the back.

MAP OF WELLS ATTACHED.
 * ALL WELLS TYPICAL.

Comments:

Ministry Use Only

Well owner's information package delivered: Yes No
 Date Package Delivered: 20090609
 Date Work Completed: 20090529
 Audit No: Z 80873
 JUN 15 2009
 Received



Ministry
of the
Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11

1604578

MUNICIPALITY 16050

CON. NO. 1031

COUNTY OR DISTRICT: COCHRANE
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: CALVERT
CON. BLOCK, TRACT, SURVEY, ETC.: III
LOT: 1
OWNER (SURNAME FIRST): ONTARIO HYDRO
ADDRESS: P.O. BOX 1000, PICKERING, ONTARIO
DATE COMPLETED: DAY 5, MO 9, YR 91
ZONE: 21, EASTING: 10-12, NORTHING: 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BLACK	MUCK			0	2
BROWN	CLAY			2	9
BLUE	CLAY	SAND SEAMS (GRAY)		9	125
GRAY	CLAY	HARDPAN & BOULDER		125	175
GRAY	QUICKSAND		FINE	175	265
GREEN	GREENSTONE			265	286

31
32

41 WATER RECORD	
WATER FOUND AT - FEET	KIND OF WATER
10-13 285	1 <input checked="" type="checkbox"/> FRESH 2 <input checked="" type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 5 <input type="checkbox"/> GAS
15-18	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 5 <input type="checkbox"/> GAS
20-23	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 5 <input type="checkbox"/> GAS
25-28	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 5 <input type="checkbox"/> GAS
30-33	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 5 <input type="checkbox"/> GAS

51 CASING & OPEN HOLE RECORD			
INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
			FROM TO
10-11	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		13-16
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	1.188	+15 270
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		27-30

SCREEN	SIZE (S) OF OPENING (SLOT NO.)		DIAMETER INCHES	LENGTH FEET
	31-33	34-38		

61 PLUGGING & SEALING RECORD		
DEPTH SET AT - FEET	MATERIAL AND TYPE	(CEMENT GROUT LEAD PACKER, ETC.)
10-15		
18-21		HOLE PLUG
26-29		

71 PUMPING TEST	PUMPING TEST METHOD		PUMPING RATE		DURATION OF PUMPING	
	1 <input checked="" type="checkbox"/> PUMP	2 <input type="checkbox"/> BAILER	15 GPM	12	15-16 HOURS	17-18 MINS
	STATIC LEVEL		WATER LEVELS DURING		1 <input type="checkbox"/> PUMPING 2 <input type="checkbox"/> RECOVERY	
	19-21 86.23 FEET	22-24 93.25 FEET	15 MINUTES 22-28 92.71 FEET	30 MINUTES 29-31 92.88 FEET	45 MINUTES 32-34 92.98 FEET	60 MINUTES 35-37 92.98 FEET
IF FLOWING GIVE RATE		PUMP INTAKE SET AT		WATER AT END OF TEST		
		250 GPM		1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY		
RECOMMENDED PUMP TYPE		RECOMMENDED PUMP SETTING		RECOMMENDED PUMPING RATE		
1 <input type="checkbox"/> SHALLOW 2 <input checked="" type="checkbox"/> DEEP		250 FEET		15 GPM		

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.

SEE MAP ON BACK

23343

DRILLERS REMARKS

FINAL STATUS OF WELL

1 WATER SUPPLY
2 OBSERVATION WELL
3 TEST HOLE
4 RECHARGE WELL
5 ABANDONED, INSUFFICIENT SUPPLY
6 ABANDONED, POOR QUALITY
7 UNFINISHED
8 DEWATERING

WATER USE

1 DOMESTIC
2 STOCK
3 IRRIGATION
4 INDUSTRIAL
5 COMMERCIAL
6 MUNICIPAL
7 PUBLIC SUPPLY
8 COOLING OR AIR CONDITIONING
9 OTHER
10 NOT USED

METHOD OF CONSTRUCTION

1 CABLE TOOL
2 ROTARY (CONVENTIONAL)
3 ROTARY (REVERSE)
4 ROTARY (AIR)
5 AIR PERCUSSION
6 BORING
7 DIAMOND
8 JETTING
9 DRIVING
10 DIGGING
11 OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: J.B. LONGSTREET & SONS
ADDRESS: Box 63, MATHESON, ONTARIO P0K1D0
WELL CONTRACTOR'S LICENCE NUMBER: 3426
NAME OF WELL TECHNICIAN: RONALD B. LONGSTREET
WELL TECHNICIAN'S LICENCE NUMBER: T-0110
SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature]
SUBMISSION DATE: DAY 5, MO 9, YR 91

OFFICE USE ONLY

DATA SOURCE: 3426
DATE RECEIVED: JAN 30 1992
DATE OF INSPECTION: [Blank]
INSPECTOR: [Blank]
REMARKS: [Blank]
CSS.ES