THE CORPORATION OF THE

TOWNSHIP OF EDWARDSBURGH CARDINAL

BY-LAW NO. 2017-70

"A BY-LAW TO ENTER INTO A MEMORANDUM OF UNDERSTANDING WITH SOUTH NATION RIVER CONSERVATION AUTHORITY AND LEEDS GRENVILLE STEWARDSHIP COUNCIL"

WHEREAS the Municipal Act 2001, SO 2001, Chapter 25, Section 8(1) states that the powers of a municipality shall be interpreted broadly so as to confer broad authority on municipalities to govern their affairs as they consider appropriate and to enhance their ability to respond to municipal issues; and

WHEREAS the Municipal Act 2001, SO 2001, Chapter 25, Section 8(2) states that in the event of ambiguity, the ambiguity shall be resolved so as to include, rather than exclude, municipal powers that existed before the Municipal Act, 2001 came into force; and

WHEREAS the Municipal Act 2001, SO 2001, Chapter 25, Section 9 gives the municipality the capacity, rights, powers and privileges of a natural person for the purpose of exercising its authority under this Act; and

WHEREAS the Municipal Act 2001, SO 2001, Chapter 25, Section 11(2) provides that Municipal Councils may pass by-laws for the economic, social and environmental well-being of the inhabitants of the municipality;

AND WHEREAS the Council of the Corporation of the Township of Edwardsburgh/Cardinal deems it advisable to enter into a Memorandum of Understanding with South Nation River Conservation Authority (SNC) and Leeds Grenville Stewardship Council (LGSC) for the planting and monitoring of butternut trees at Part Lot 13, Concession 1, Township of Edwardsburgh Cardinal;

NOW THEREFORE the Council of the Corporation of the Township of Edwardsburgh Cardinal enacts as follows:

- That the CAO/Clerk is hereby authorized to execute the Memorandum of Understanding attached hereto as Schedule "A" on behalf of the Township of Edwardsburgh/Cardinal.
- 2. That this by-law shall be known as the "Butternut Tree Compensation Project".
- 3. That the Township fees and charges for the planting and monitoring of Butternut trees are established as follows:

Planting Fee:

\$500 per butternut seedling

Monitoring Fee:

\$200 per butternut seedling per year

4. That this by-law shall come into force and take effect upon passing.

Read a first and second time in open Council this 11th day of December, 2017.

Read a third and final time, passed, signed and sealed in open Council this 11th day

of December, 2017.

Mayor

Deputy Clerk



Edwardsburgh Cardinal Butternut Compensation Project: Memorandum of Understanding

Between

The Corporation of the Township of Edwardsburgh Cardinal ("Township")

And

South Nation River Conservation Authority ("SNC")

And

Leeds Grenville Stewardship Council ("LGSC")

For the planting of Butternut trees at: Part LOT 13, CONC 1, Former Township of Edwardsburgh

WHEREAS:

- (a) The Township has planted 39 Butternut trees and 40 companion trees at the property detailed in Section 4 ("Work"), as part of a compensation project under the Endangered Species Act;
- (b) SNC is to provide materials and project management as detailed in Schedule A;
- (c) LGSC is to provide labour for planting, tending, and monitoring as detailed in Schedule A;
- (d) The person(s) signing this MOU on behalf of the Township, SNC and LGSC have authority to bind their respective organization.

NOW THEREFORE, in consideration of the mutual agreements contained in this Memorandum of Understanding ("MOU") and of other good and valuable consideration (the receipt and sufficiency of which are acknowledged by each Party hereto), the Parties agree with one another as follows:

INTERPRETATION:

- 1. Whenever used in this MOU, unless there is something in the subject matter of context inconsistent therewith, the following words and terms shall have the respective meanings ascribed to them in this Section:
 - (a) "Work" refers to the tree planting work as outlined in Schedule A;
 - (b) "Property" refers to the entire property, as per the Property Description below;
 - (c) "Party" means either the Township or SNC or LGSC, and "Parties" means all of them;

AMENDMENTS:

2. This MOU including the schedules hereto may be amended only by an instrument in writing executed by all Parties or their permitted assignees.

TERM:

3. The term of this MOU shall be January 1, 2018 to December 31, 2021.

TERMINATION:

4. Any Party may terminate this MOU at any time upon 30 days notice to the other Parties.

PROPERTY DESCRIPTION:

 Part LOT 13, CONC 1 (west side Scott Road), Former Township of Edwardsburgh

ROLL NO. 070170101502201

Property Identification Number: 68149-0307

TERMS AND CONDITIONS:

Damage, operation and maintenance

6. As sole owners, the Township shall be responsible for all damage, operation and maintenance of The Property, except for damage caused directly by the actions of either SNC or LGSC. SNC shall be responsible for any damage to the trees and equipment prior to the planting date, at which point they become the property of the Township. Replacement cost of lost or damaged, equipment or trees would be additional to Schedule A.

Payment

7. SNC and LGSC shall issue separate, regular invoices for their work. The Township shall pay SNC and LGSC, net 30 days upon receipt of an invoice from SNC or LGSC, as per Schedule A.

Work

8. SNC and LGSC will provide tree planting (refill as required), tending, monitoring, and reporting services as detailed in Schedule A. SNC will act as project manager, overseeing the planting and reviewing the tending and monitoring work. LGSC shall plant, tend, and monitor as per the Ministry of Natural Resources and Forestry (MNRF) Planting Plan in Schedule B.

INDEMNIFICATION

- 9. The Township shall indemnify and save harmless SNC and LGSC from any suits, actions, claims, damages, costs or expenses whatsoever arising from a breach by The Township of any obligation under this agreement or from any negligence or acts or omissions whether willful or otherwise for which the Township is legally responsible.
- 10. SNC shall indemnify and save harmless the Township and LGSC from any suits, actions, claims, damages, costs or expenses whatsoever arising from a breach by SNC of any obligation under this agreement or from any negligence or acts or

omissions whether willful or otherwise by SNC, its agents, officers, employees or other persons for whom SNC is legally responsible.

- 11. LGSC shall indemnify and save harmless SNC and the Township from any sults, actions, claims, damages, costs or expenses whatsoever arising from a breach by LGSC of any obligation under this agreement or from any negligence or acts or omissions whether willful or otherwise by LGSC, its agents, officers, employees or other persons for whom LGSC is legally responsible.
- 12. Each party shall maintain Commercial General Liability insurance with a minimum coverage of \$2,000,000 and naming the other Parties as an additional insured party. Proof shall be provided to the other Parties prior to The Work.

IN WITNESS WHERE OF the duly authorized representatives of the Township, SNC, and LGSC have duly executed this MOU.

SIGNED BY:

CAO/Clerk

The Corporation of the Township of Edwardsburgh Cardinal

South Nation River Conservation Authority

Angela Coleman,
General Manager/Secretary-Treasurer

Leeds Grenville Stewardship Council

Karen Brown,

Chair

Dec. 20/17

kc 13, 2017

Dec. 14-7017

Date

omissions whether willful or otherwise by SNC, its agents, officers, employees or other persons for whom SNC is legally responsible.

- 11. LGSC shall indemnify and save harmless SNC and the Township from any suits, actions, claims, damages, costs or expenses whatsoever arising from a breach by LGSC of any obligation under this agreement or from any negligence or acts or omissions whether willful or otherwise by LGSC, its agents, officers, employees or other persons for whom LGSC is legally responsible.
- 12. Each party shall maintain Commercial General Liability insurance with a minimum coverage of \$2,000,000 and naming the other Parties as an additional insured party. Proof shall be provided to the other Parties prior to The Work.

IN WITNESS WHERE OF the duly authorized representatives of the Township, SNC, and LGSC have duly executed this MOU.

SIGNED BY:

Chair

The Corporation of the Township of Edwardsb	urgh Cardinal
Debra McKinstry, CAO/Clerk	<u> (lec 13 17</u> Date
South Nation River Conservation Authority	
Angela Coleman, General Manager/Secretary-Treasurer	December 14.20
Leeds Grenville Stewardship Council	
Karen Brown,	Date

Edwardsburgh Cardinal Butternut Compensation Project: Memorandum of Understanding Schedule A - The Work

NOTE: Totals below are best estimates, invoicing will be as per actual unit costs and hours worked. Estimates do not include any refill planting (if required).

2018 WORK

item	Party	No of Items	Cost per item	Total	Notes
Tending:					
Mowing	LGSC	25 approx.	\$75	\$1,875	Tending for The Property, as required; \$75/hr for 1hr each mowing
abour:					
Monitoring (including watering)	LGSC	25 approx.	\$150		Weekly monitoring, as required based on weather conditions: 2hrs/visit @ \$75/hr
Project Management:					
Fall Assessment	SNC	1	\$521	\$521	1 day staff time @ \$521/day to complete fall assessment
Reporting	SNC	0.5	\$521		1/2 day staff time @ \$521/day to complete reporting to Ministry of Natural Resources and Forestry
-			Sub-Total HST	\$6,407 \$833	

Total \$7,240

2019 WORK

ten	Party	No of Items	Cost per Item	Total	Notes
Fending:					
Mowing	LGSC	25 approx.	\$75	\$1,875	Tending for The Property, as required; \$75/hr for 1hr each mowing
abour:			L		
Monitoring (including watering)	LGSC	25 approx.	\$150		Weekly monitoring, as required based on weather conditions: 2hrs/visit @ \$75/hr
roject Management:					
Fall Assessment	SNC	1	\$532	\$532	1 day staff time @ \$532/day to complete fall assessment
Reporting	SNC	0.5	\$532	\$266	1/2 day staff time @ \$532/day to complete reporting to Ministry of Natural Resources and Forestry
			Sub-Total	\$6,422	

HST \$835 Total \$7,257

2020 WOLK

ttenr	Party	No of items	Cost per Item	Total	Notes
ending:					
Mowing	LGSC	25 approx.	\$75	\$1,875	Tending for The Property, as required; \$75/hr for 1hr each mowing
abour:					
Monitoring (including watering)	LGSC	25 approx.	\$150	\$3,750	Weekly monitoring, as required based on weather conditions: 2hrs/visit @ \$75/hr
roject Management:					
Fall Assessment	SNC	1	\$542	\$542	1 day staff time @ \$542/day to complete fall assessment
Reporting	SNC	0.5	\$542		1/2 day staff time @ \$542/day to complete reporting to Ministry of Natural Resources and Forestry
			Sub-Total	\$6,438	

HST \$837 Total \$7,275

2021 WORK

item	Party	No of Items	Cost per Item	Total	Notes
Tending:					
Mowing	LGSC	25 approx.	\$7.5	\$1,875	Tending for The Property, as required; \$75/hr for 1hr each mowing
Labour:					
Monitoring (including watering)	LGSC	25 approx.	\$150		Weekly monitoring, as required based on weather conditions: 2hrs/visit @ \$75/hr
Project Management:					
Fall Assessment	SNC	1	\$553	\$553	1 day staff time @ \$553/day to complete fall assessment
Reporting	SNC	0.5	\$553	\$277	1/2 day staff time @ \$553/day to complete reporting to Ministry of
			1 - 1		Natural Resources and Forestry

Sub-Total \$6,455 \$839 \$7,294 HST Total

2018-2021 Total Estimated Cost:

\$29,066

Edwardsburgh Cardinal Butternut Compensation Project: Memorandum of Understanding Schedule B: MNRF Planting Plan

ot 13 / Con / ardingl. ON at 44-18983°N	Private Conservation Authority Planting site owner permissle allow MNR staff to access site al location of the plantin Pla Distance from nearest road (m)	on obtained the planting ang site and	• Y	C - Crow C Other es C	er No			
of 13 / Con / ardingl. CN ardi	Conservation Authority Planting site owner permission allow MNR staff to access site al location of the planting Pla Distance from nearest road (m)	on obtained the planting ang site and	NGO Yo	Otho	er No			
ardingl. CN ardin	Planting site owner permission allow MNR staff to access the allocation of the planting Platential Distance from nearest road (m)	on obtained the planting ng site and	You You I the land us	es ('	No			
ardingl. CN a+ 44-78983°N on 75.42227°W erial photograph which indicate the gener anting Site Selection s for site selection eep (greater than 1m), moist and well-drained, d (silty clay loam to sand loam, not heavy clay),	o allow MNR staff to access to allow MNR staff to access to allocation of the planting Pla Distance from nearest road (m)	ng site and	the land u	se of adjacent l				
erial photograph which indicate the general photograph which indicate the general anting Site Selection s for site selection eep (greater than 1m), moist and well-drained, d (silty clay loam to sand loam, not heavy clay),	Pla Distance from nearest road (m)	ng site and	I the land u	se of adjacent l				
anting Site Selection s for site selection eep (greater than 1m), moist and well-drained, d (silty clay loam to sand loam, not heavy clay),	Distance from nearest road (m)	nting Sit			ands			
eep (greater than 1m), moist and well-drained, d (silty clay loam to sand loam, not heavy clay),	Distance from nearest road (m)		e Descrip	tion				
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d (silty clay loam to sand loam, not heavy clay),		·	Road Type	gravel				
d (sifty clay loam to sand loam, not neavy clay),		% of Plant	ing Site area	a				
anic portion.	Rolling Upland		Во	ttomland				
	Valley Slope		Variable -	- describe below				
plerant.	Tableland	100	Other-	describe below				
een each planted Butternut;	Vegetatio	n Commun	alty % of Pla	anting Site				
een each planted Butternut and a planted small	Open	100	Ur	rban Park				
een Butternut and another planted potentially	Shrubland		Variable -	riable - describe below				
the canopy drip line of existing larger trees >4	Opening in Forest/Woodl	ot	Other - describe below					
veen planted Butternut and roadways, occupied	Soil Drainage % of Planting Site							
n locations of possible future construction	Well Drained	50	Moderately Drained					
ind (north or west) and at least 100 metres	Soil Texture % of Planting Site							
reast) or downslope from the traveled portions of es) highways to any planted Butternut.	Clay Loam	20	Sa	nd Loam	20			
from a property line.	Loam		Variable -	describe below	1			
	Soil Depth of Planting Site greater than 1 metre If 'no' explain below							
dlings grow well on good sites e.g. windbreaks	⊠ Yes		No					
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Spacing recommendations met or exceeded If 'no' explain differences and reasons below							
	✓ Yes			No				
For hay. Open a 5.1 acres in size	rea is appeared is Blair ro	prox	man imal atea	red tely	1. 4.			
cee e ti vr ii ev	replanting of the trees should be: the each planted Butternut; the each planted Butternut; the each planted Butternut and a planted small the Butternut and another planted potentially the canopy drip line of existing larger trees >4 the each planted Butternut and roadways, occupied in locations of possible future construction and (north or west) and at least 100 metres the east) or downslope from the traveled portions of the sast) or downslope from the sast) or downslope from the traveled portions of the	replanting of the trees should be: the each planted Butternut; the each planted Butternut and a planted small the canopy drip line of existing larger trees >4 the canopy drip larger tree	replanting of the trees should be: ten each planted Butternut; ten each planted Butternut and a planted small ten Butternut and another planted potentially the canopy drlp line of existing larger trees >4 teen planted Butternut and roadways, occupied in locations of possible future construction and (north or west) and at least 100 metres east) or downslope from the traveled portions of shiphways to any planted Butternut. Infrom a property line. Clay Loam Clay Loam Clay Loam Clay Loam Clay Loam Community Well Drained Soil Texture % Clay Loam Clay Loam Community Well Drained Soil Texture % Soil Texture % Soil Depth of Planting S If 'no' exp Spacing recommendatif 'no' explain different Yes Finis Property 18 owned by the Open 1/00 Soil Depth of Planting S If 'no' exp Spacing recommendatif 'no' explain different Yes Finis Property 18 owned by the Open 2/00 Soil Depth of Planting S If 'no' explain different Spacing recommendatif 'no' explain different Soil Texture % Soil Texture % Soil Depth of Planting S If 'no' exp Spacing recommendatif 'no' explain different Spacing recommendatif 'no' explain different Soil Texture % Soil Depth of Planting S If 'no' exp Spacing recommendatif 'no' explain different Soil Texture % Soil Depth of Planting S If 'no' exp Spacing recommendatif 'no' explain different Soil Texture % Soil Depth of Planting S If 'no' exp Soil Depth of Planting S Soil Depth of Planting S If 'no' exp Soil Depth of Planting S If 'no' exp Soil Depth of Planting S	replanting of the trees should be: ten each planted Butternut; ten each planted Butternut; ten each planted Butternut and a planted small ten Butternut and another planted potentially the canopy drip line of existing larger trees >4 ten planted Butternut and roadways, occupied to locations of possible future construction and (north or west) and at least 100 metres east) or downslope from the traveled portions of sylhighways to any planted Butternut. Therefore a property line. Soil Drainage % of Planting Well Drained Soil Texture % of Planting Soil Texture % of Planting Clay Loam Cla	replanting of the trees should be: ten each planted Butternut and a planted small ten Butternut and another planted potentially the canopy drip line of existing larger trees >4 teen planted Butternut and roadways, occupied to locations of possible future construction and (north or west) and at least 100 metres east) or downslope from the traveled portions of s) highways to any planted Butternut. Ifform a property line. Clay Loam Soil Depth of Planting Site Well Drained Soil Depth of Planting Site Soil Depth of Planting Site Well Drained Soil Depth of Planting Site Soil Depth of Planting Site Soil Depth of Planting Site Well Drained Soil Depth of Planting Site Soil Depth of Plan			

All individual seedlings shall be assigned a tracking number to support the monitoring requirements of the planting plan which are documented and stored by the Applicant e.g. 001, 002, 003...

Attach a drawing and/or aerial photograph which displays the boundaries of the planting site and the planting pattern including the locations of any species planted other than Butternut. Individual seedlings shall be identified using the assigned tracking number.

Site Preparation and Planting

Site Preparation

Mowing of sites with tall herbaceous or woody vegetation that may shade seedlings the prior fall will make spring planting easier and help reduce rodent

Vegetation control prior to planting: band or spot spraying with herbicides such as Glyphosate can help reduce competing vegetation and promote good early establishment of the trees. Licensed personnel should be consulted where spraying is considered,

On sites with heavy soils, some type of soil cultivation (a ploughed row) can help to ensure good planting.

Planting

Timing - Plant bareroot seedlings in the spring, as soon as the soil can be dug and before the seedlings leaf out, generally March 1 to May 15, extended ito May 25 if watered container stock is used. Fall planting may occur between September 20 and October 30, but is less desired.

Stock Handling - Keep bareroot stock cool and shaded and moist until planted. Only prune the roots where some are damaged or excessively long, using a sharp tool to ensure a clean cut. Dig a hole to accommodate all the roots in as natural a configuration as possible.

Spacing/Density - Plant butternut at least 4 metres from other planted trees of similar or slower growth rates to avoid competition for light and to reduce humidity which can accelerate canker infection. Plant less than 200 butternut/ hectare.

Recommendation: Butternut rarely occurs in a pure stand - mix with other species of similar or slower growth rates to slow canker infection and spread.

May increase survival re	
Describe Site Preparation	The sile is currently mowed to a height of less than I foot and is to be mowed again in the spring. Band spraying and scribe is to take place prior to planting.
List Planting Date(s)	between April 26th - may 15th *neather dependent
Describe Spacing/ Density	3m ×3m
Additional information	The Butternut. Will be planted with other companion species in alternating rows, Red Oaks will be planted.
	Seedling Stock
Applicants are require	ed to plant Butternut seedlings in accordance with this planting plan. It is recommended that applicants confirm the

availability of the seedlings prior to submitting this planting plan to ensure they are able to comply with the requirements of the regulation.

Supplier Name:	Rideav	Vall	ey Conservation	Auth	ar ty		
Supplier Phone:	1800	267	3504				
Seed Zone:	36						
Seedling Stock (F	Required size):		Mınimı	ım stem len	gth 30cm		
Confirmation o		ings are not	hybrid Butternut (please attach	0	Yes	(No
Property owner i	nformed that planted	(Yes	0	No		

If planting will occur on more than one site, or multiple suppliers will be used please submit an additional Planting Site form which provides the address, site description and seedling stock description for each additional location and/or supplier.

TENDING

Tending Schedule

Seedlings should be tended on a monthly basis during the first growing season more frequently (weekly) to allow for watering during drought or low rainfall periods. In subsequent years, visit site monthly during the growing season (May 15 to September 20) until vegetation control and watering are no longer required. Watering should occur during periods of drought between May 1 to August 30 i.e. a 30 day period with less than 25 millimetres of precipitation.

Vegetation Control

Control vegetation that is competing for light, moisture and space within 60cm of the base of the trees, until the trees are above the herbaceous vegetation. Combination of mowing, spraying and mulching or matting may be used.

Protection

Tree guards protect the lower stem from rodents but should be monitored to prevent interference with stem growth. Use spiral guard only during winter months. Tube guards are not recommended because they encourage rodents to build nests inside them.

Staking/Fencing: Mark the corners of the planting site or individual trees. Helps to avoid damage during motorized tending and monitoring activities. Deer fencing may be required in some areas to prevent damage to seedlings.

	Describe the tending methods and schedules and the rational for their selection
Tending Schedule	Munituring on a monthly basis and more frequently (neekly) to allow for matering dring low rainfall periods. May-Sept 20.
Vegetation Control	Coconut mats will be placed around the base of each tree. Site will be monitored on a monthly basis and brush cutting / mowing will be performed to help control begetation
Watering	Treegator Jr. Pros will be pigced around the base of each tree to aid and increase deep root watering of the trees
Protection	If necessary white tree guards will be placed around the base of the trees in the winker months to prevent girdling from rodents
Additional Information	Stakes / flags will be placed at each tree to ensure they are well marked which will aid in mowing and tending.

MONITORING

Monitoring reports describing the condition of each planted butternut, tending activities and future plans are to be submitted to MNR annually by October 30.

Each planted butternut shall be monitored at least once a year between May 15 and September 15 for a minimum of 5 years from the date the butternut tree(s) identified in this planting plan were killed, harmed or taken.

The monitoring report shall include the following information:

- The date the tree was planted;
- The date(s) the tree was monitored during the year;
- The dates the tree was tended under this planting plan during that year and a description of the tending activities that were undertaken during that year
- The health status of the tree expressed as good, poor or dead;
- Whether the tree shows evidence of butternut canker and, if so, a description of the extent to which the tree is affected by butternut canker.
- A Monitoring Report template is available from the MNR.

Describe Monitoring Period	will take place from may 1st-sept 2ctack each given year for the first 5 years.
Describe Monitoring Methods	monitoring will be done on a minimum monthly basis and be performed visually to determine if mowing or tending needs to be performed. Vegetation should not be competing with the trees. Munitoring will be done by SNC and recommend watering or mowing if required to the municipality.

Replacement Planting for Dead seedlings

Trees found to be dead during the monitoring period must be replaced. Replacement trees must be planted in accordance with the methods described in the planting plan. Seedling replacement planting information must be submitted to the District Manager as part of the annual reporting requirements. A table is provided in the Butternut Planting Plan Monitoring Report. If the planting location or the supplier of replacement seedlings is different than the original site or supplier please fill out the information below.

0			ll be planted to g Location Addr		e each	found to be dead during the monitoring period (REQUIRED) Seedling Stock							
Address:	1		Road	Supplier Name:	A								
Town/Province								1800 267 3504					
Postal Code:	KUE IEO						Seed Zone:	21-					
Access Point Coordinates			010 15	022	201		Seedling Stock:	Root collar minimum diameter of 1cm	×	Mini		steni l0cm	
		Prop	erty Ownership					Confirmation obtained that seedlings are					
(Privat	Private Municipal C . Crown				rown	not hybrid Butternut (please attach documentation)					No		
Conservation Authority C NGO				(Other	, ,	Property owner informed that planted seedlings are protected under the FSA, 2007			{	No		
Property owners pastaff to access plan	permission	obtai ion	ned to allow MNR	× Y	/es	C No		rected dilder the L.J., 2007					



Scott and Blair Road, Cardinal 613-658-3055 x 104

